

JAPAN MIC
TEST REPORT

For

Keeson Technology Corporation Limited

No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province, 314000, China

Tested Model: MC232FA

Report Type:

Original Report

Product Name:

CONTROL BOX

Report Number: RSHA260108001-24A

Report Date: 2026-03-19

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSHA260108001-24A	R1V1	2026-03-19	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Keeson Technology Corporation Limited
Tested Model:	MC232FA
Product Name:	CONTROL BOX
Power Supply:	DC 29V
RF Function:	SRD
Operating Band/Frequency:	2403-2480 MHz
RF output power:	0.07 mW
Channel Number:	78
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Maximum Antenna Gain:	1.225 dBi

Note: The maximum antenna gain was provided by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RSHA260108001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2026-01-08.)

Objective

The objective of the manufacturer is to demonstrate compliance with Radio Law of Japan item 19 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.43.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured in testing mode which was provided by manufacturer, below is the test frequency:

EUT was tested with Channel 1, 40 and 78.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2403	38	2440	76	2478
2	2404	39	2441	77	2479
3	2405	40	2442	78	2480
...	...	...	...	/	/

EUT Exercise Software

RF Test Software: engineering mode

★Power level: Default

Note: The power level was declared by the applicant.

Equipment Modifications

No modification was made to the EUT tested.

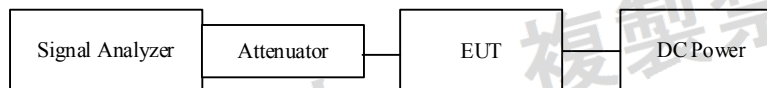
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	DC Power	PS-6005D	18P6005D10724

External I/O Cable

Cable Description	Length (m)	From Port	To Port
Power Cable	1.0	EUT	DC Power
RF Cable	0.3	Attenuator	EUT

Configuration of Test Setup



SUMMARY OF TEST RESULTS

MIC Notice No.88 Appendix No.43 Article 2, Paragraph 1, Item 19	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 (See Note 3)
7	Transmission Antenna Gain	Not Applicable (See Note 1)
8	Transmission Radiation Angle Width	Not Applicable (See Note 1)
9	Interference Prevention Function	Compliant
10	Frequency Hopping Dwell Time	Not Applicable (See Note 2)
Appendix	Construction Protection Confirmation	Compliant

Note:

1. This test item will not be applied to the transmission antenna which EIRP is less than 12.14dBm.
2. Testing is only required for FHSS system devices;
3. The test only required for bandwidth more than 26MHz and less than 40MHz.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Authority	Calibration Method
RF Conducted Test							
Rohde & Schwarz	Signal Analyzer	FSV40-N	103298	2025-04-08	2026-04-07	BACL CAL	c)
Eastsheep	Attenuator	10dB	10dB-01	2025-04-08	2026-04-07	BACL CAL	c)
Agilent	Power meter	E4419B	MY41291878	2025-04-08	2026-04-07	BACL CAL	c)
Keysight	Vector signal generator	N5182B	MY53051592	2025-04-09	2026-04-08	BACL CAL	c)
/	DC Power	PS-6005D	18P6005D10724	N/A	N/A	N/A	N/A
FLUKE	Multimeter	12E+	64150133WS	2025-04-23	2026-04-22	BACL CAL	c)

NOTE: Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology~ 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) ~Japan Calibration Service System ~
- 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 other equipment that listed above from a) to c)

FREQUENCY ERROR

Limit

The Tolerance of frequency should be $\pm 50\text{ppm}$.

Test Procedure

Set the EUT to the measurement frequency without modulation.

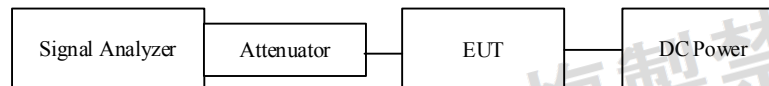
Setting of SA is following as: RB: 1 kHz / VB: 3 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.

Record the peak spot frequency.

If the EUT can't set at un-modulation mode.

Setting of SA is following as: RB: 100 kHz / VB: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold.

Record the peak spot frequency, measure the 10dBc center frequency.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

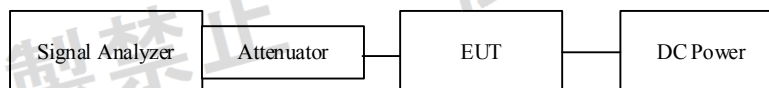
OCCUPIED BANDWIDTH

Limit

- Occupied bandwidth: FH $\leq$ 83.5 MHz; OFDM, DS $\leq$ 26 MHz; 26 MHz < OFDM $\leq$ 40 MHz, Others $\leq$ 26 MHz

Test Procedure

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



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY

Limit

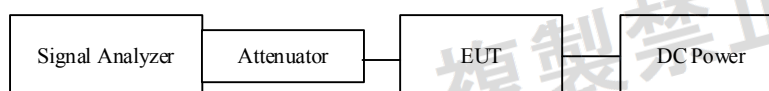
30MHz $\leq$ f $\leq$ 1GHz: 0.25 μ W/100kHz

1GHz<f<2387 MHz; 2496.5MHz<f $\leq$ 12500MHz: $\leq$ 2.5 μ W/MHz

2387MHz $\leq$ f $\leq$ 2400 MHz; 2483.5 MHz<f $\leq$ 2496.5 MHz: $\leq$ 25 μ W/MHz

Test Procedure

Measurement System Diagram



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

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 1GHz, 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 μ W.

Setting of SA start 1GHz and stop frequency 2387MHz, RB: 1MHz/VB: 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 μ W.

Setting of SA start 2387MHz and stop frequency 2400MHz, RB: 1MHz/VB: 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 μ W.

Setting of SA start 2483.5MHz and stop frequency 2496.5MHz, RB: 1MHz/VB: 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 μ W.

Setting of SA start 2496.5MHz and stop frequency 12500MHz, RB: 1MHz/VB: 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 μ W.

Test Data: See Appendix

ANTENNA OUTPUT POWER, ANTENNA POWER TOLERANCE

Limit

- $\leq 3 \text{ mW / MHz}$ (FHSS from 2402-2480 MHz)
- $\leq 10 \text{ mW / MHz}$ (OFDM, DSSS from 2400-2483.5 MHz)
- $\leq 10 \text{ mW}$ (other from 2400-2483.5 MHz)

The Output Power Tolerance must be less than +20%.

E.i.r.p: $\leq 12.14 \text{ dBm}$

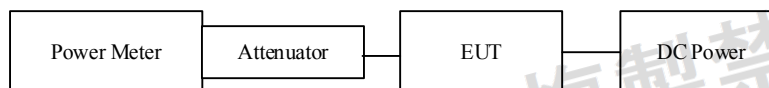
Test Procedure

Step1; Measure the total power by Power Meter in a state of hopping mode or non-hopping mode (with Average Sensor).

Step2; If it's the burst wave, please measure the burst ratio. Then add the duty cycle in power meter.

Test Setup Block diagram

Power:



Test Data: See Appendix

RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY

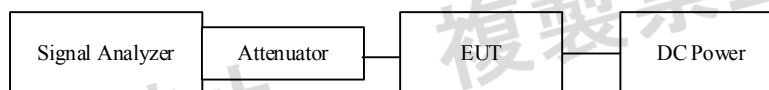
Limit

$\leq 4 \text{ nW}$ ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)

$\leq 20 \text{ nW}$ ($1 \text{ GHz} \leq f \leq 12.5 \text{ GHz}$)

Test Procedure

Measurement System Diagram



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

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

Test Data: See Appendix

INTERFERENCE PREVENTION FUNCTION

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.

Test Procedure

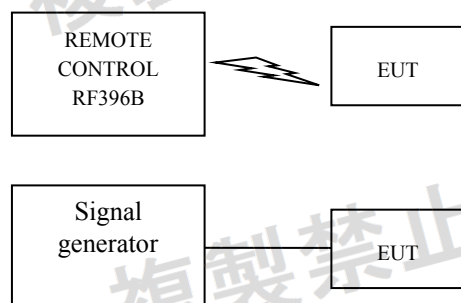
In the case that the EUT has the function of automatically transmitting the identification code:

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 (unmatched remote) 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.

Test Setup Block diagram



Environmental Conditions:

Test Date:	2026-02-06
Temperature:	21.3 °C
Relative Humidity:	50 %
ATM Pressure:	102.8kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Data:

Item	Result	Requirement	Verdict
Methodology to transmit ID Code:	Automatically	Automatically	Compliant
Methodology to receive ID Code:	Automatically	Automatically	Compliant
Identification Codes (ID Codes) of EUT:	1D:3F:10:6B:8C:FD:CF	/	/
Bits of ID Codes:	56 bits	48 bits or more	Compliant

Test Result: Compliant.

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's shell has been locked by screws, so it cannot be opened easily. Please refer the external photographs.

APPENDIX - TEST DATA**FREQUENCY ERROR****Environmental Conditions:**

Test Date:	2026-02-06
Temperature:	21.3 °C
Relative Humidity:	50 %
ATM Pressure:	102.8kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

*Test Mode: Transmitting***Test Condition: NV: 29V**

Mode	Frequency (MHz)	Measure Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
Single Carrier	2403	2403.02985	12.42	± 50
	2442	2442.02985	12.22	
	2480	2480.02985	12.04	

Test Condition: LV: 26.1V

Mode	Frequency (MHz)	Measure Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
Single Carrier	2403	2403.02865	11.92	± 50
	2442	2442.02805	11.49	
	2480	2480.02865	11.55	

Test Condition: HV: 31.9V

Mode	Frequency (MHz)	Measure Frequency (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
Single Carrier	2403	2403.02805	11.67	± 50
	2442	2442.02835	11.61	
	2480	2480.02865	11.55	

Note:

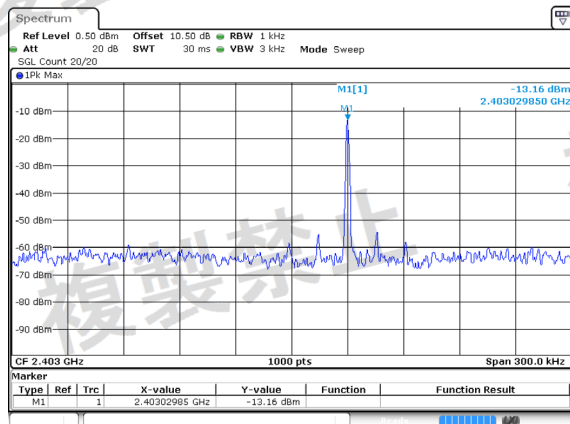
$$FT \text{ (ppm)} = \{(RF - MF) / MF\} * 1000000$$

(FT: Frequency Tolerance, RF: Reading Frequency, MF: Measurement Frequency)

Please refer to the plots for normal voltage test.

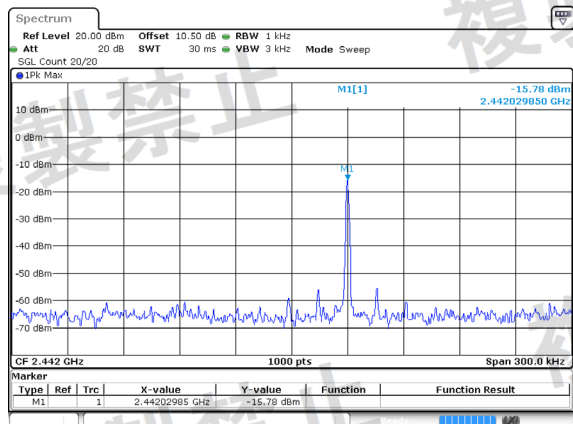
Test Condition: NV: 29V

2403MHz



ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6 FEB 2026 10:20:23

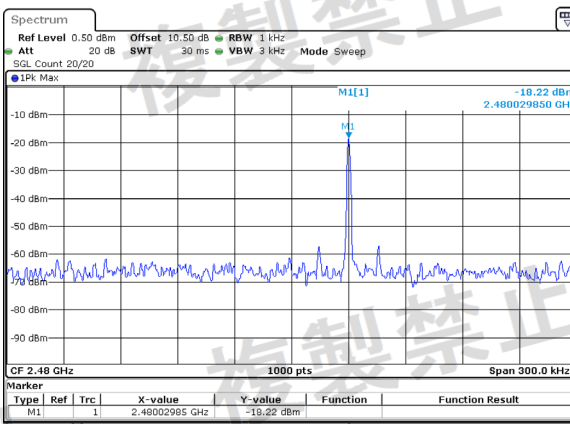
2442MHz



ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6 FEB 2026 10:21:42

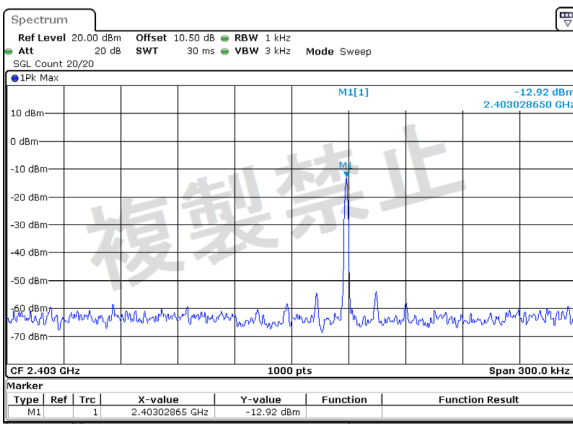
Test Condition: LV: 26.1V

2480MHz



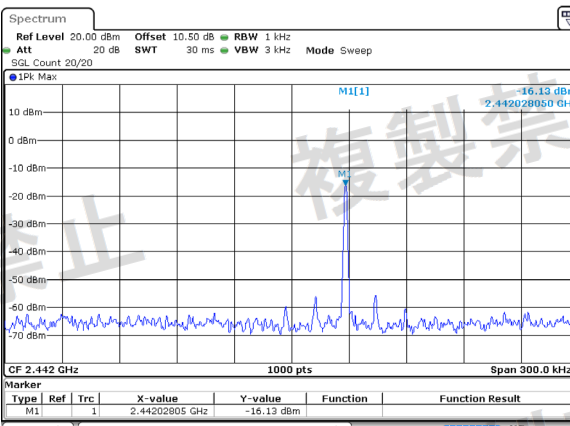
ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6 FEB 2026 10:22:39

2403MHz



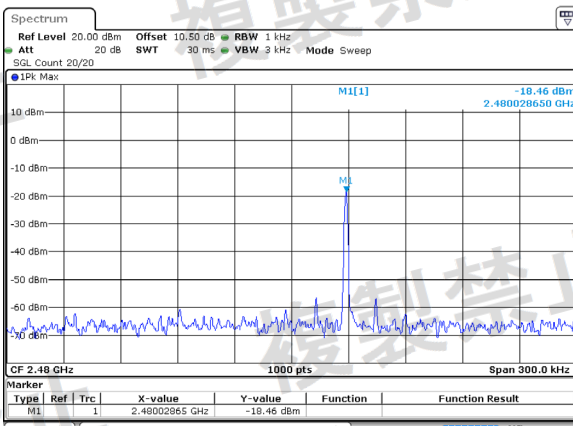
ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6 FEB 2026 10:23:40

2442MHz



ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6 FEB 2026 10:31:54

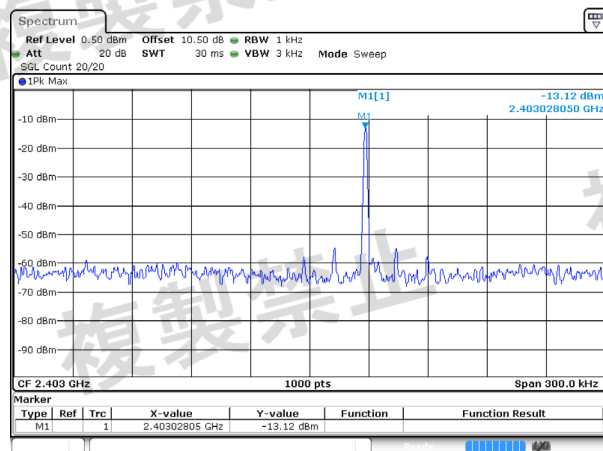
2480MHz



ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6 FEB 2026 10:32:20

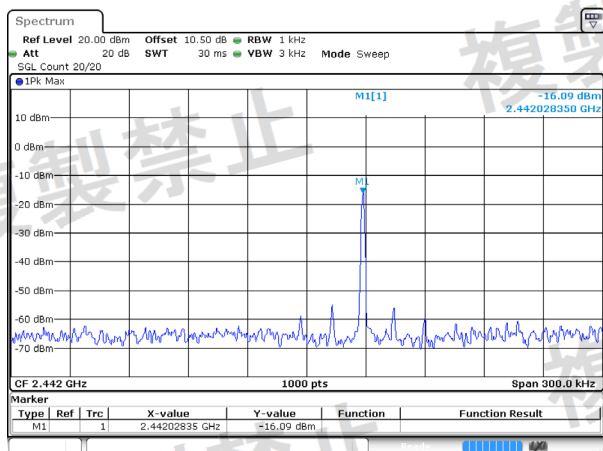
Test Condition: HV: 31.9V

2403MHz



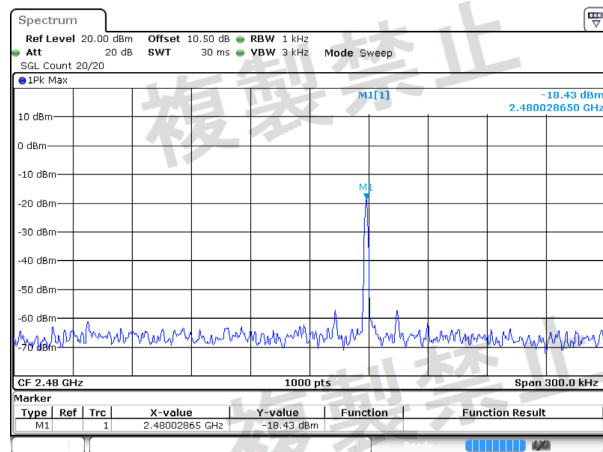
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:27:29

2442MHz



ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:28:27

2480MHz



ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:30:10

OCCUPIED BANDWIDTH**Environmental Conditions:**

Test Date:	2026-02-06	2026-03-02
Temperature:	21.3 °C	20.1 °C
Relative Humidity:	50 %	48 %
ATM Pressure:	102.8kPa	101.6kPa
Test Result:	Pass	
Test Engineer:	Neil Zhou	

*Test Mode: Transmitting***Test Condition: NV: 29V**

Frequency (MHz)	2403	2442	2480	Limit
Occupied Bandwidth (MHz)	0.905	0.928	0.998	≤26MHz

Test Condition: LV: 26.1V

Frequency (MHz)	2403	2442	2480	Limit
Occupied Bandwidth (MHz)	0.913	0.960	0.955	≤26MHz

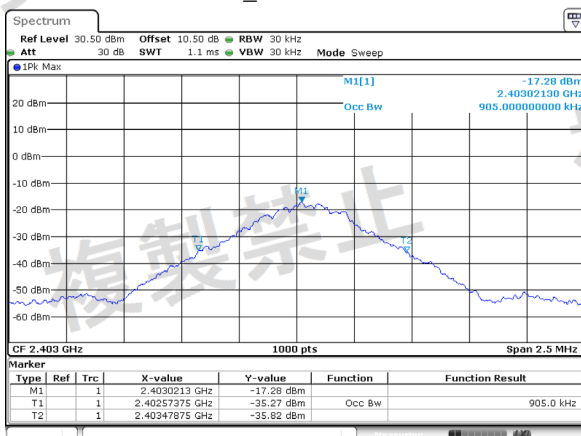
Test Condition: HV: 31.9V

Frequency (MHz)	2403	2442	2480	Limit
Occupied Bandwidth (MHz)	0.953	0.945	0.990	≤26MHz

Please refer to the following plots:

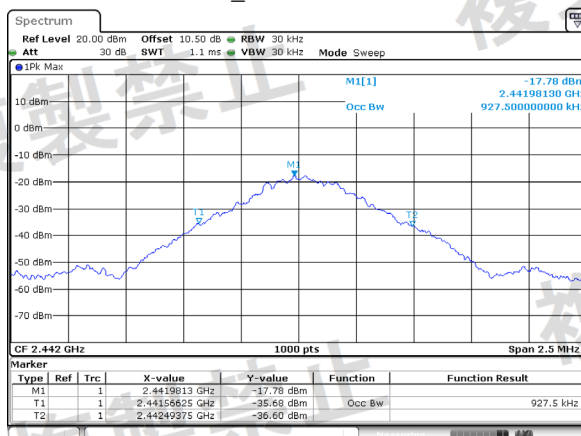
Test Condition: NV: 29V

SRD_Low Channel



ProjectNo: RSHA260108001 Tester:Neil Zhou
Date: 2.MAR.2026 14:58:51

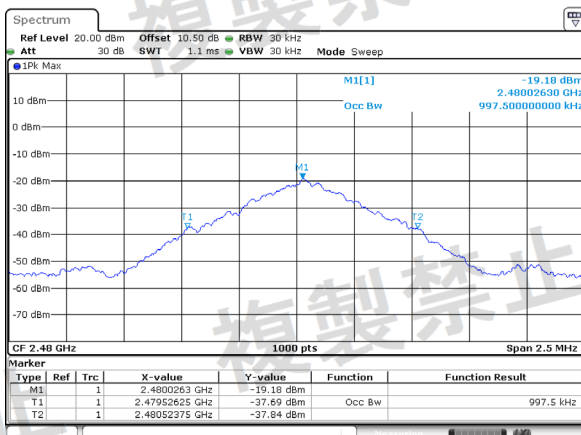
SRD_Middle Channel



ProjectNo: RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:38:10

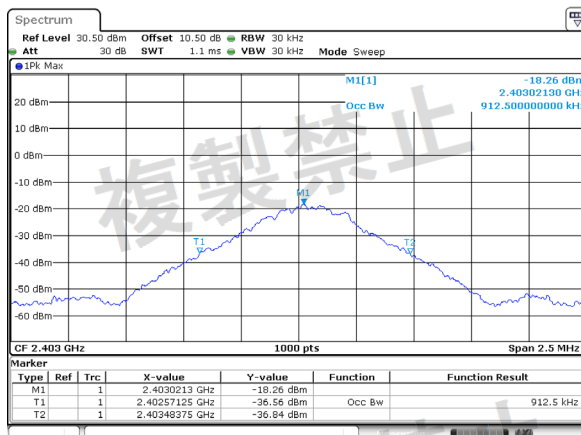
Test Condition: LV: 26.1V

SRD_High Channel



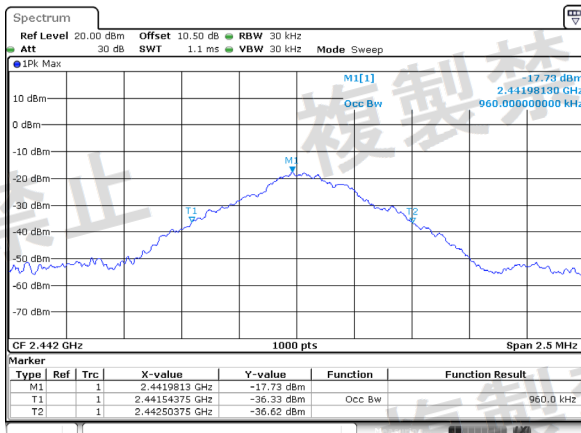
ProjectNo: RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:38:38

SRD_Low Channel



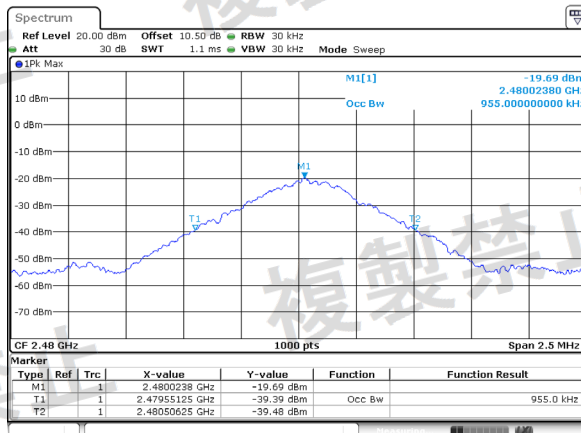
ProjectNo: RSHA260108001 Tester:Neil Zhou
Date: 2.MAR.2026 14:59:21

SRD_Middle Channel



ProjectNo: RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:35:09

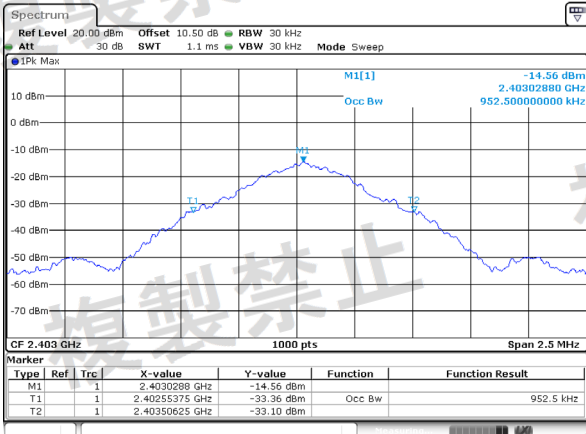
SRD_High Channel



ProjectNo: RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:35:39

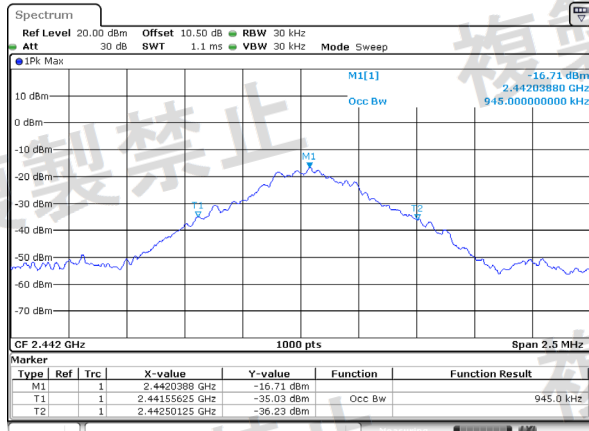
Test Condition: HV: 31.9V

SRD_Low Channel



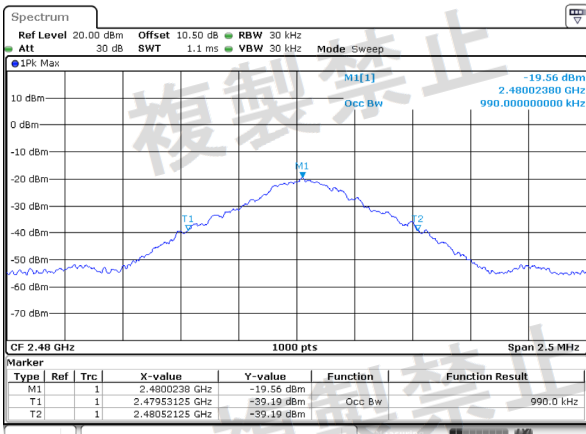
ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6 FEB 2026 10:39:30

SRD_Middle Channel



ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6 FEB 2026 10:40:14

SRD_High Channel



ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6 FEB 2026 10:41:02

TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY**Environmental Conditions:**

Test Date:	2026-02-06
Temperature:	21.3 °C
Relative Humidity:	50 %
ATM Pressure:	102.8kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

*Test Mode: Transmitting***Test Condition: Normal: 29V**

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	992	-47.78	0.017	0.25	Pass
	Band II (1MHz)	1000	2387	2173.06	-38.38	0.145	2.50	Pass
	Band III (1MHz)	2387	2400	2397.4163	-37.91	0.162	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2484.9463	-38.11	0.155	25	Pass
	Band V (1MHz)	2496.5	12500	5835.2	-33.76	0.421	2.50	Pass
Middle	Band I (100kHz)	30	1000	704.39	-43.79	0.042	0.25	Pass
	Band II (1MHz)	1000	2387	2143.93	-39.57	0.110	2.50	Pass
	Band III (1MHz)	2387	2400	2396.3893	-39.20	0.120	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2495.4828	-38.19	0.152	25	Pass
	Band V (1MHz)	2496.5	12500	5174.9	-28.70	1.349	2.50	Pass
High	Band I (100kHz)	30	1000	722.34	-43.85	0.041	0.25	Pass
	Band II (1MHz)	1000	2387	2127.28	-38.14	0.153	2.50	Pass
	Band III (1MHz)	2387	2400	2394.8033	-38.51	0.141	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2485.9928	-38.35	0.146	25	Pass
	Band V (1MHz)	2496.5	12500	5770.1	-33.76	0.421	2.50	Pass

Test Condition: LV: 26.1V

Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm/RBW)	Result (μW/RBW)	Limit (μW/RBW)	Verdict
Low	Band I (100kHz)	30	1000	722.34	-43.19	0.048	0.25	Pass
	Band II (1MHz)	1000	2387	1916.46	-39.48	0.113	2.50	Pass
	Band III (1MHz)	2387	2400	2399.8018	-38.34	0.147	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2490.6858	-38.67	0.136	25	Pass
	Band V (1MHz)	2496.5	12500	5179.9	-33.99	0.399	2.50	Pass
Middle	Band I (100kHz)	30	1000	822.25	-48.43	0.014	0.25	Pass
	Band II (1MHz)	1000	2387	2184.15	-39.52	0.112	2.50	Pass
	Band III (1MHz)	2387	2400	2398.7358	-38.43	0.144	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2485.2258	-38.03	0.157	25	Pass
	Band V (1MHz)	2496.5	12500	5855.2	-34.00	0.398	2.50	Pass
High	Band I (100kHz)	30	1000	824.67	-45.52	0.028	0.25	Pass
	Band II (1MHz)	1000	2387	2155.02	-38.73	0.134	2.50	Pass
	Band III (1MHz)	2387	2400	2391.6898	-38.40	0.145	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2487.7283	-38.78	0.132	25	Pass
	Band V (1MHz)	2496.5	12500	6990.6	-34.02	0.396	2.50	Pass

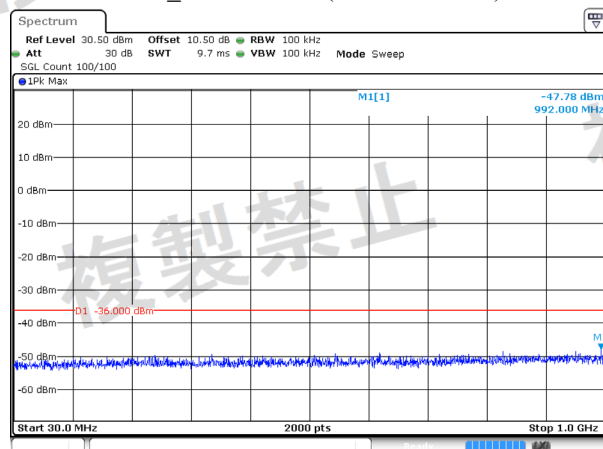
Test Condition: HV: 31.9V

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	988.12	-48.15	0.015	0.25	Pass
	Band II (1MHz)	1000	2387	2381.8	-38.71	0.135	2.50	Pass
	Band III (1MHz)	2387	2400	2398.9763	-38.51	0.141	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2494.4298	-38.38	0.145	25	Pass
	Band V (1MHz)	2496.5	12500	5179.9	-33.48	0.449	2.50	Pass
Middle	Band I (100kHz)	30	1000	824.67	-38.51	0.141	0.25	Pass
	Band II (1MHz)	1000	2387	1760.42	-34.33	0.369	2.50	Pass
	Band III (1MHz)	2387	2400	2388.6868	-38.40	0.145	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2493.5133	-38.13	0.154	25	Pass
	Band V (1MHz)	2496.5	12500	5880.2	-34.31	0.371	2.50	Pass
High	Band I (100kHz)	30	1000	910.52	-48.13	0.015	0.25	Pass
	Band II (1MHz)	1000	2387	2213.97	-37.50	0.178	2.50	Pass
	Band III (1MHz)	2387	2400	2395.5443	-37.69	0.170	25	Pass
	Band IV (1MHz)	2483.5	2496.5	2485.7133	-38.59	0.138	25	Pass
	Band V (1MHz)	2496.5	12500	5179.9	-31.76	0.667	2.50	Pass

Please refer to the plots for normal voltage test.

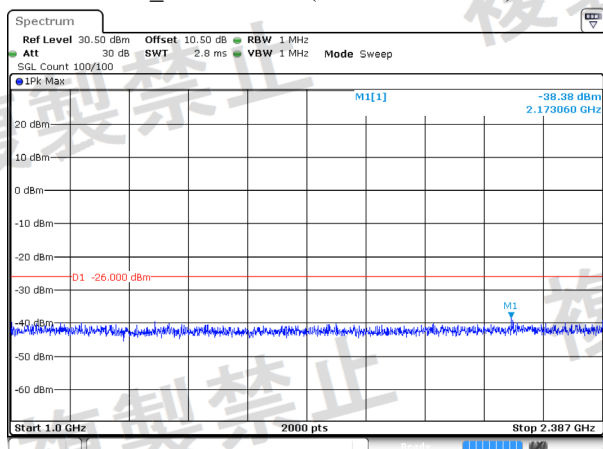
Test Condition: NV: 29V

SRD_Low Channel(30MHz~1GHz)



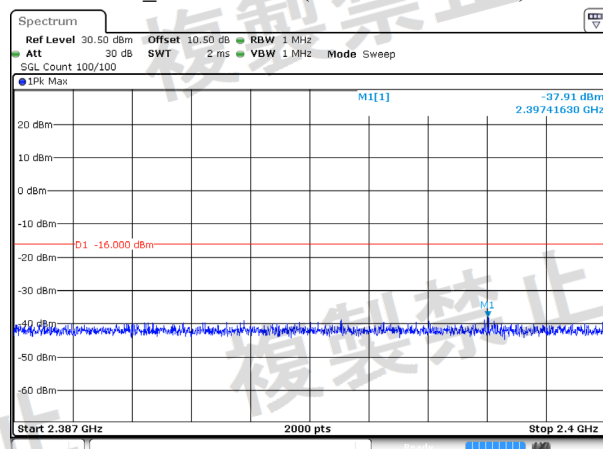
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:42:29

SRD_Low Channel(1GHz~2.387GHz)



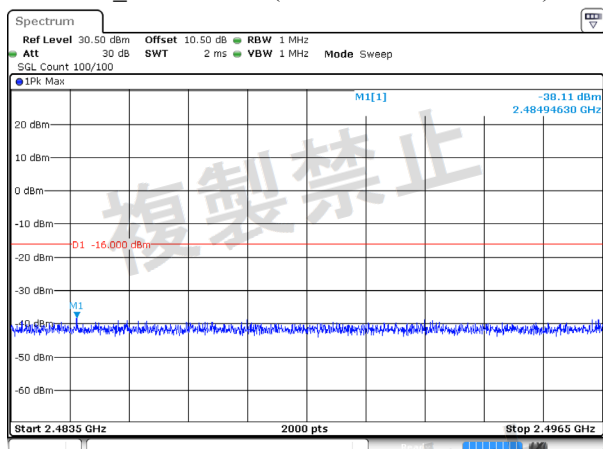
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:42:36

SRD_Low Channel(2.387GHz~2.4GHz)



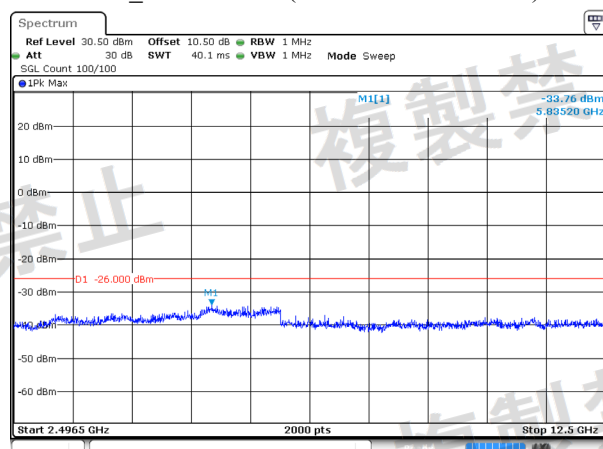
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:42:40

SRD_Low Channel(2.4835GHz~2.4965GHz)



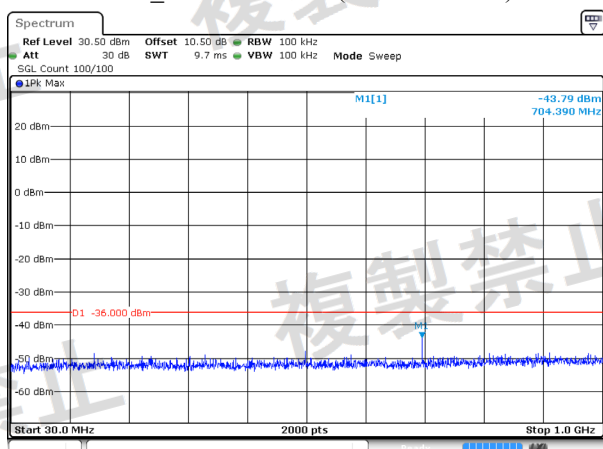
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:42:45

SRD_Low Channel(2.4965GHz~12.5GHz)



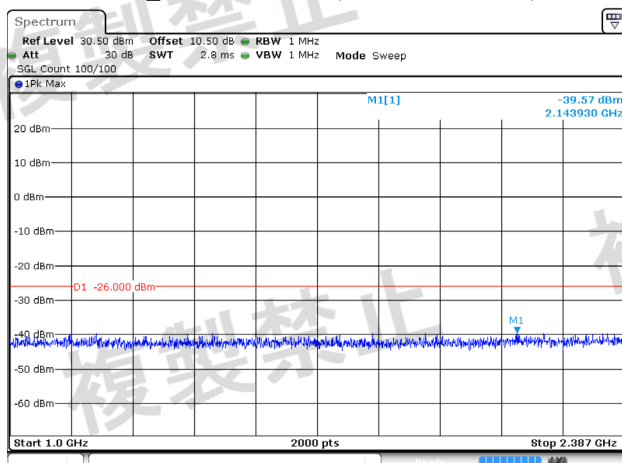
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:43:05

SRD_Middle Channel(30MHz~1GHz)



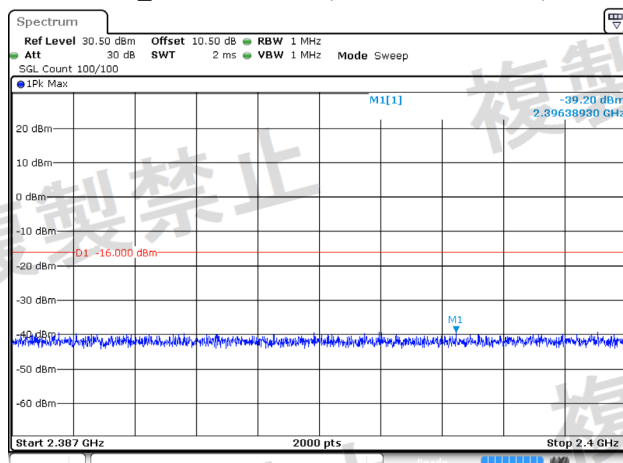
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:44:47

SRD_Middle Channel(1GHz~2.387GHz)



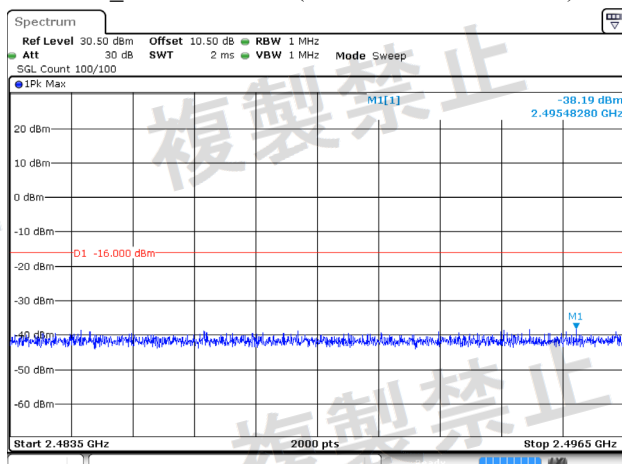
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:44:54

SRD_Middle Channel(2.387GHz~2.4GHz)



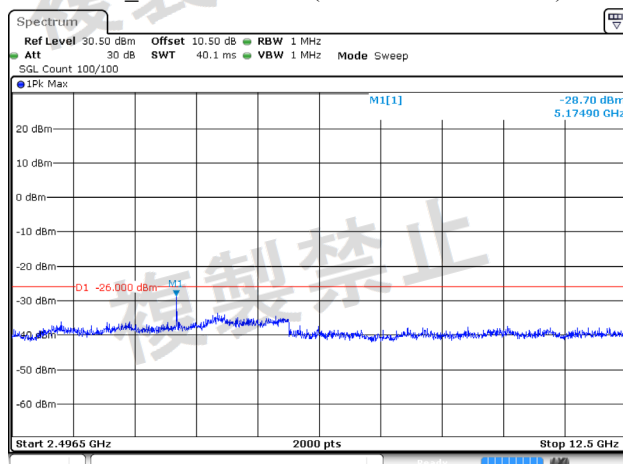
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:44:58

SRD_Middle Channel(2.4835GHz~2.4965GHz)



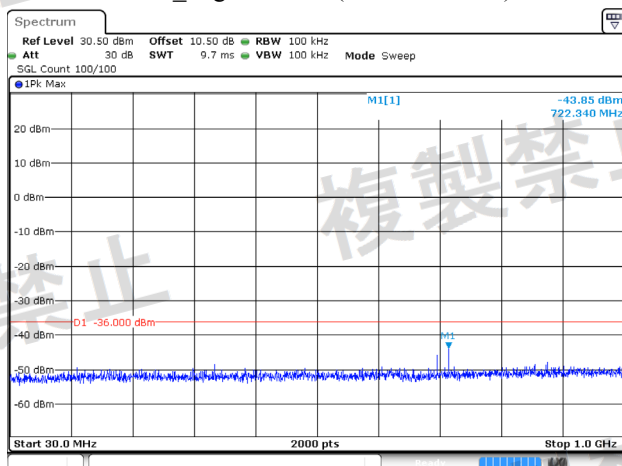
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:45:03

SRD_Middle Channel(2.4965GHz~12.5GHz)



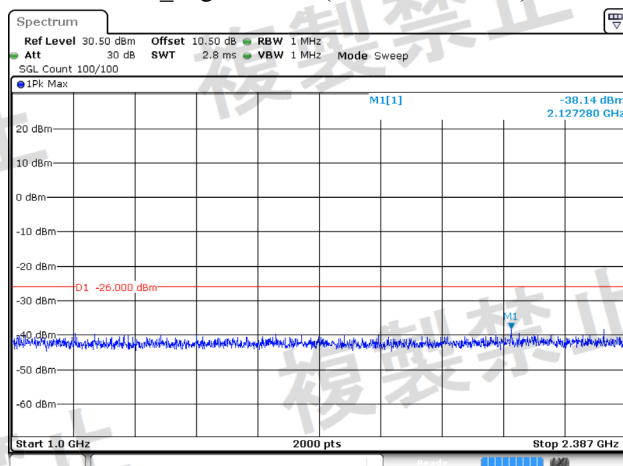
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:45:23

SRD_High Channel(30MHz~1GHz)



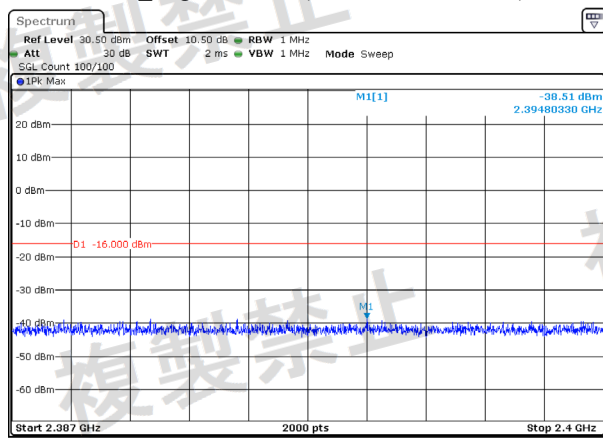
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:52:15

SRD_High Channel(1GHz~2.387GHz)



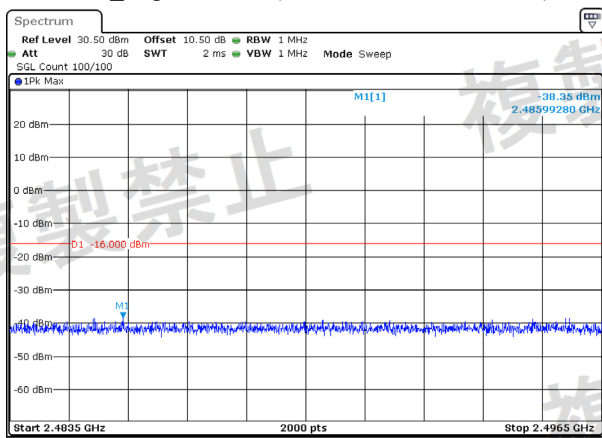
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:52:22

SRD_High Channel(2.387GHz~2.4GHz)



ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:52:27

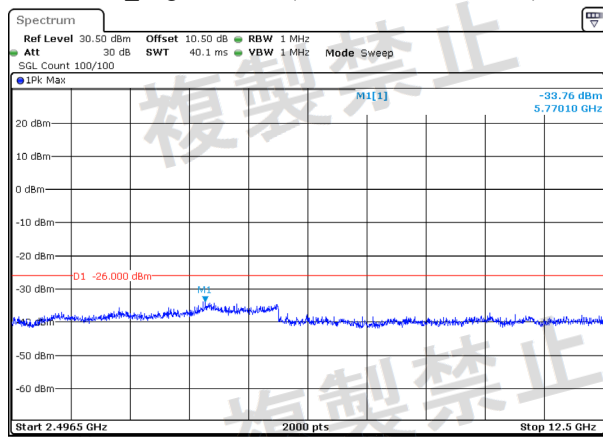
SRD_High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:52:32

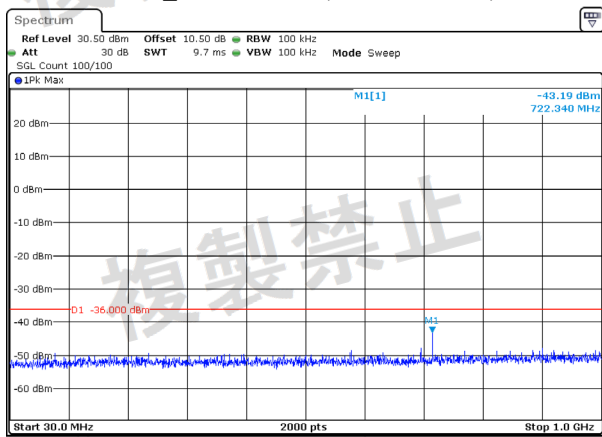
Test Condition: LV: 26.1V

SRD_High Channel(2.4965GHz~12.5GHz)



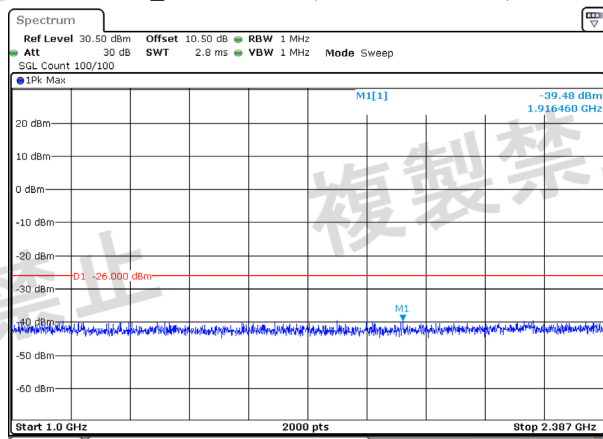
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Date: 6.FEB.2026 10:52:53

SRD_Low Channel(30MHz~1GHz)



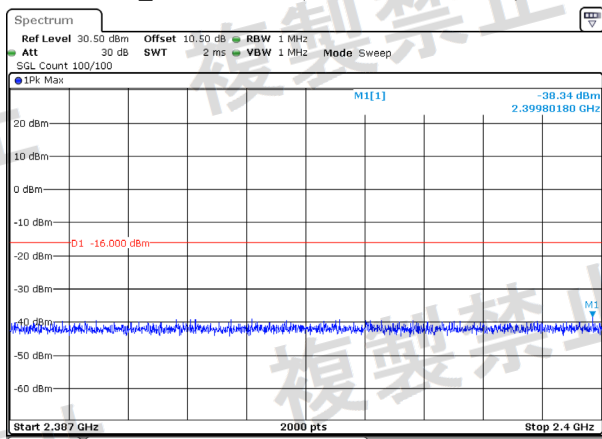
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Date: 6.FEB.2026 10:53:44

SRD_Low Channel(1GHz~2.387GHz)



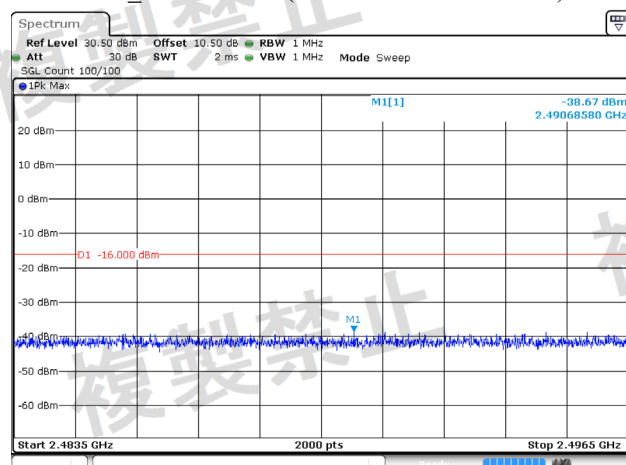
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Date: 6.FEB.2026 10:53:51

SRD_Low Channel(2.387GHz~2.4GHz)



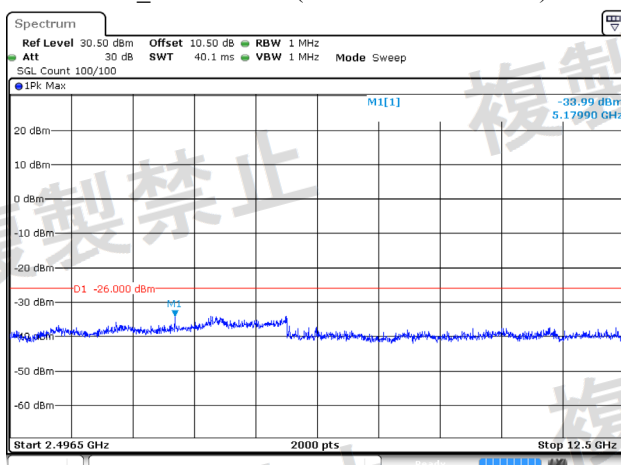
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:53:56

SRD_Low Channel(2.4835GHz~2.4965GHz)



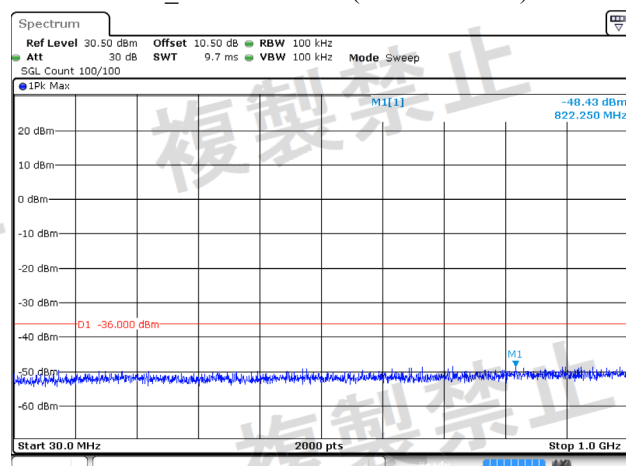
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:54:01

SRD_Low Channel(2.4965GHz~12.5GHz)



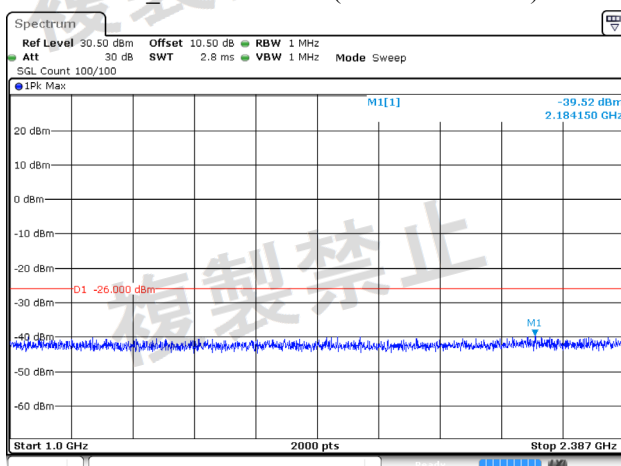
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:54:22

SRD_Middle Channel(30MHz~1GHz)



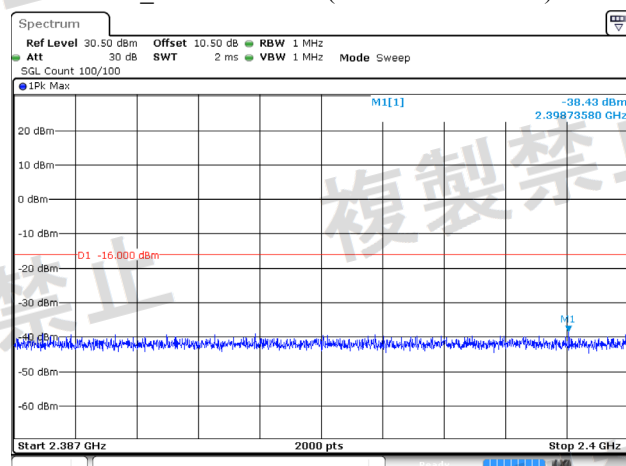
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:54:44

SRD_Middle Channel(1GHz~2.387GHz)



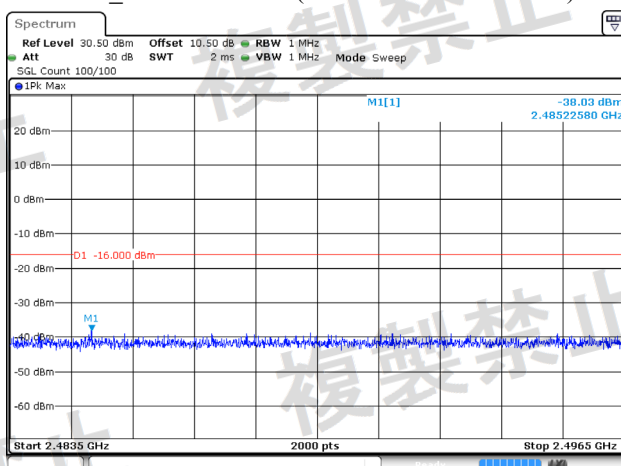
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Date: 6.FEB.2026 10:54:52

SRD_Middle Channel(2.387GHz~2.4GHz)



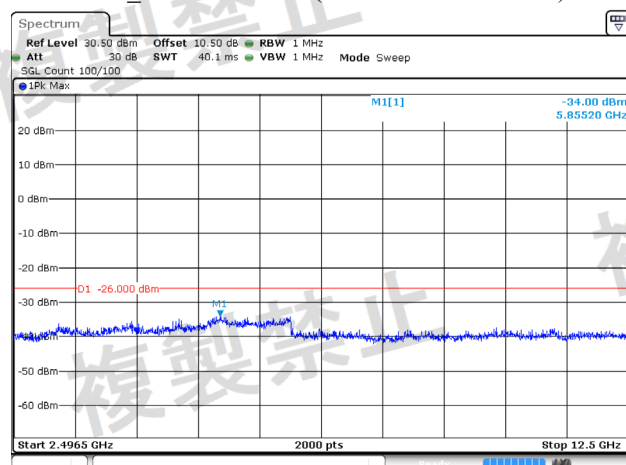
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:54:57

SRD_Middle Channel(2.4835GHz~2.4965GHz)



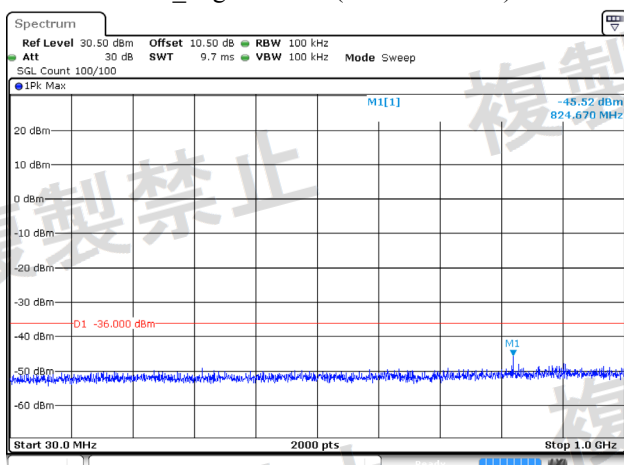
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:55:02

SRD_Middle Channel(2.4965GHz~12.5GHz)



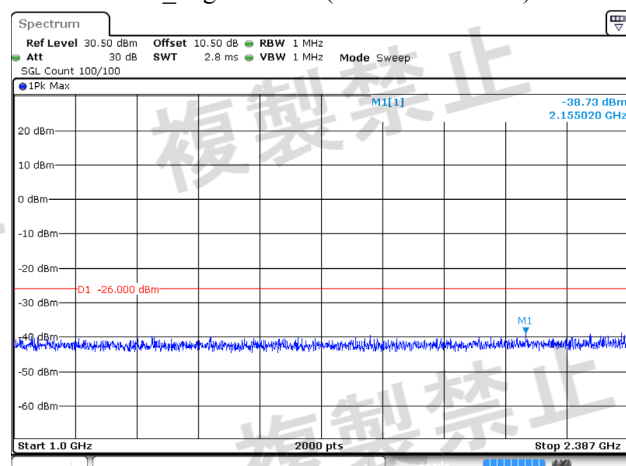
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:55:24

SRD_High Channel(30MHz~1GHz)



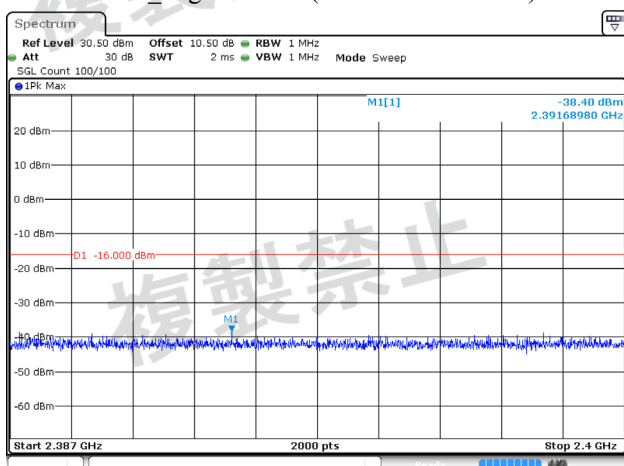
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:56:00

SRD_High Channel(1GHz~2.387GHz)



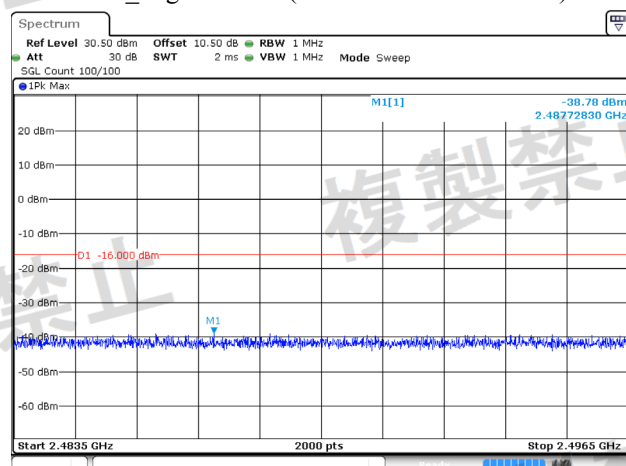
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:56:08

SRD_High Channel(2.387GHz~2.4GHz)



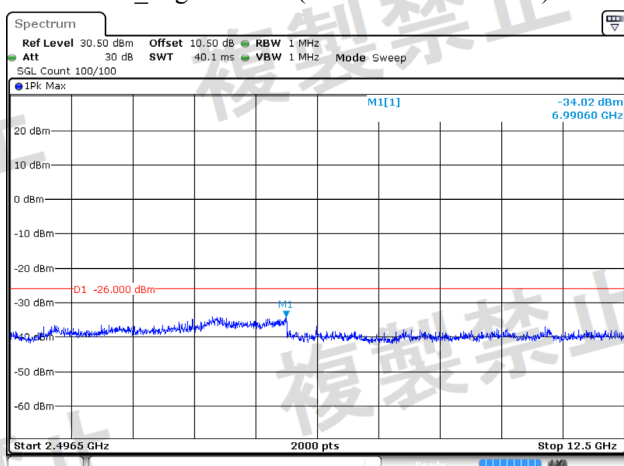
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:56:13

SRD_High Channel(2.4835GHz~2.4965GHz)



ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:56:19

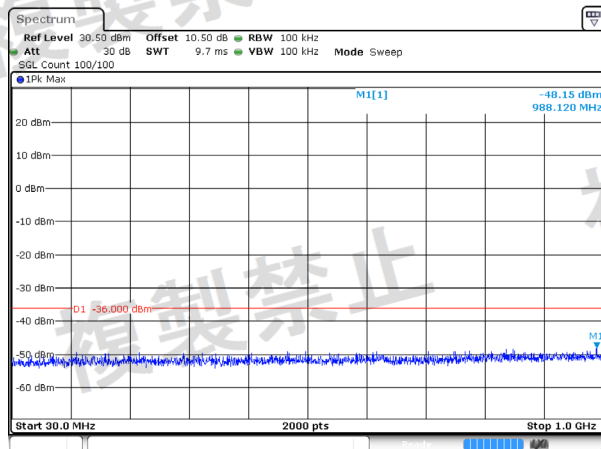
SRD_High Channel(2.4965GHz~12.5GHz)



ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:56:40

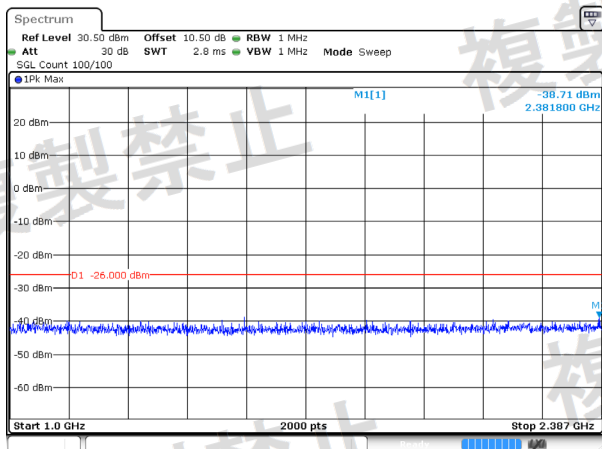
Test Condition: HV: 31.9V

SRD_Low Channel(30MHz~1GHz)



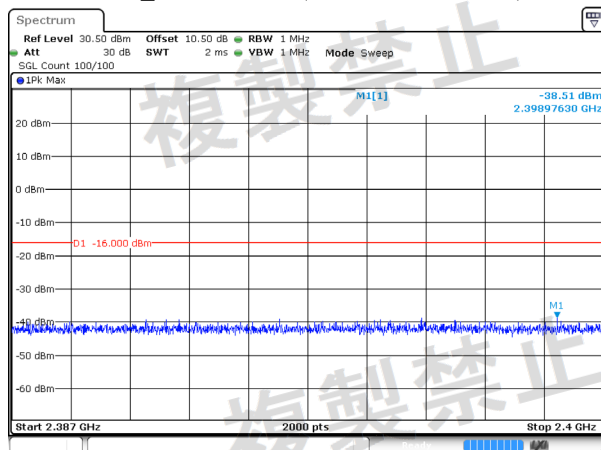
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:57:07

SRD_Low Channel(1GHz~2.387GHz)



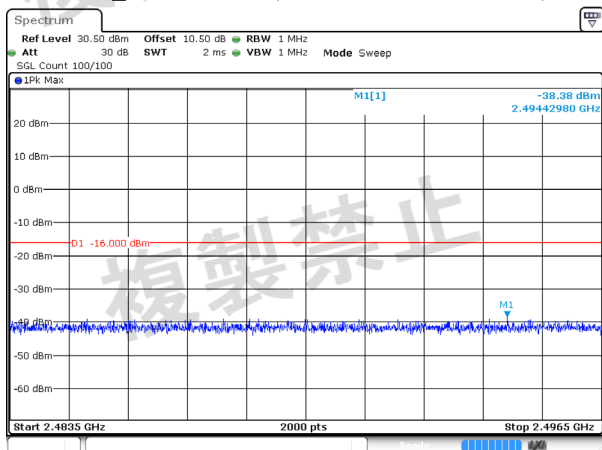
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:57:15

SRD_Low Channel(2.387GHz~2.4GHz)



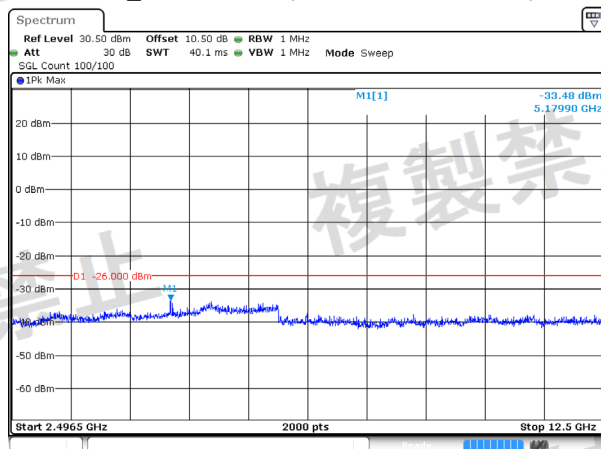
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:57:20

SRD_Low Channel(2.4835GHz~2.4965GHz)



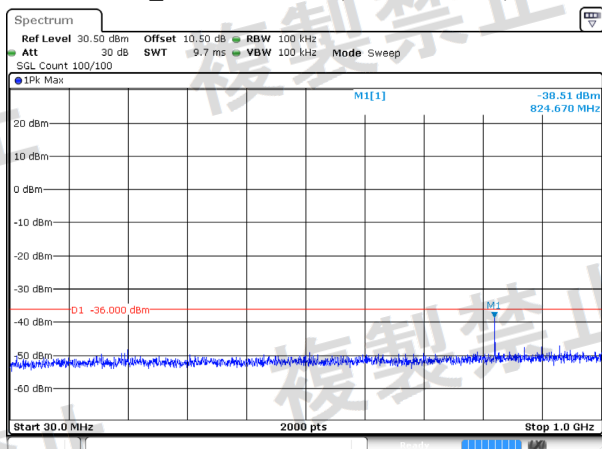
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:57:26

SRD_Low Channel(2.4965GHz~12.5GHz)



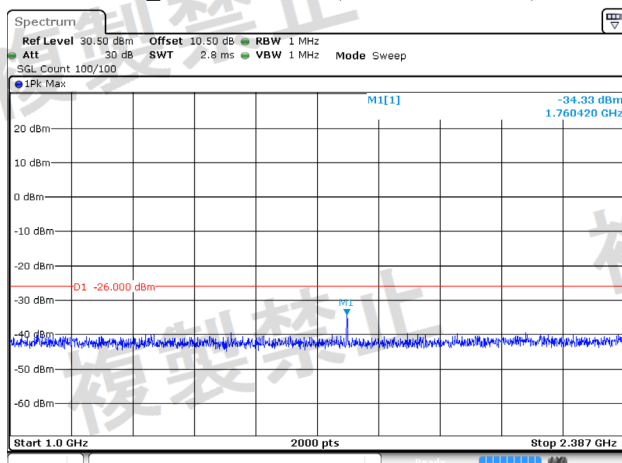
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:57:47

SRD_Middle Channel(30MHz~1GHz)



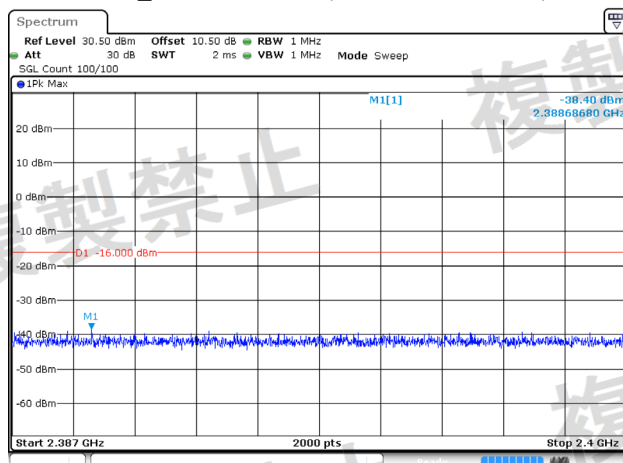
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:58:08

SRD_Middle Channel(1GHz~2.387GHz)



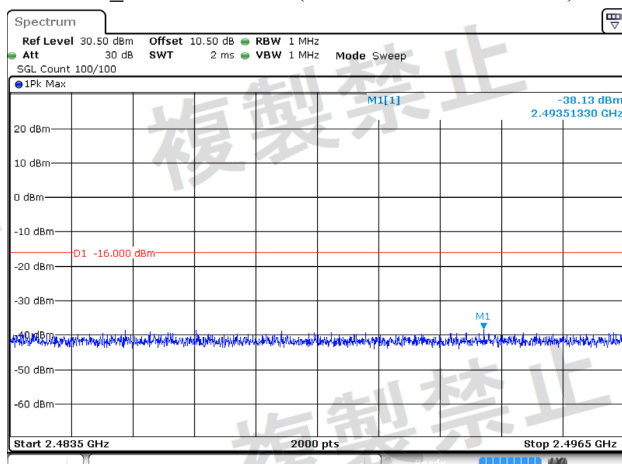
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:58:16

SRD_Middle Channel(2.387GHz~2.4GHz)



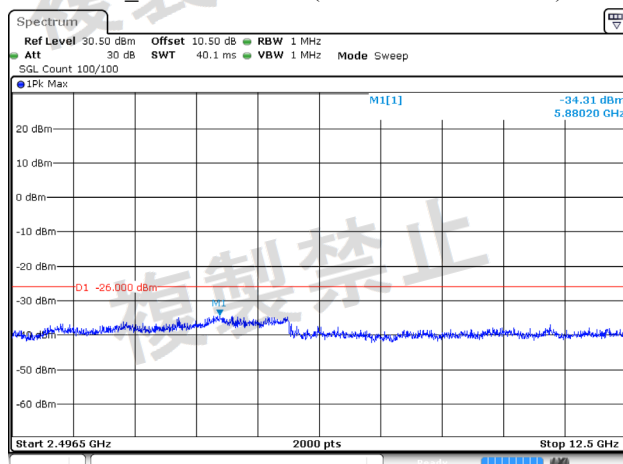
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:58:22

SRD_Middle Channel(2.4835GHz~2.4965GHz)



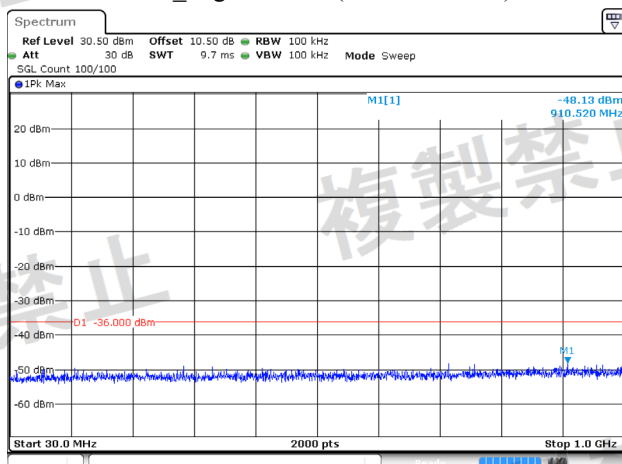
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:58:27

SRD_Middle Channel(2.4965GHz~12.5GHz)



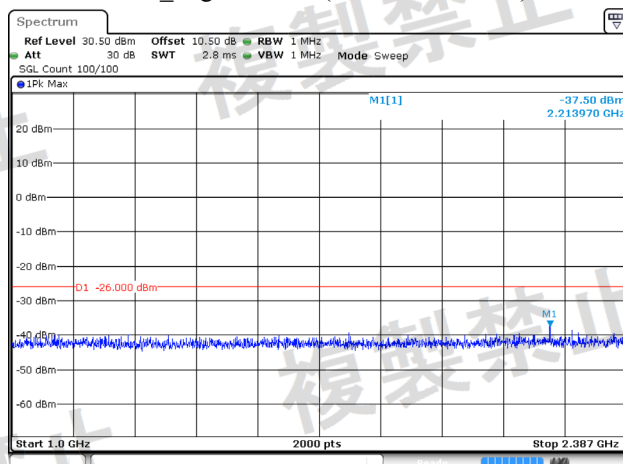
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:58:48

SRD_High Channel(30MHz~1GHz)



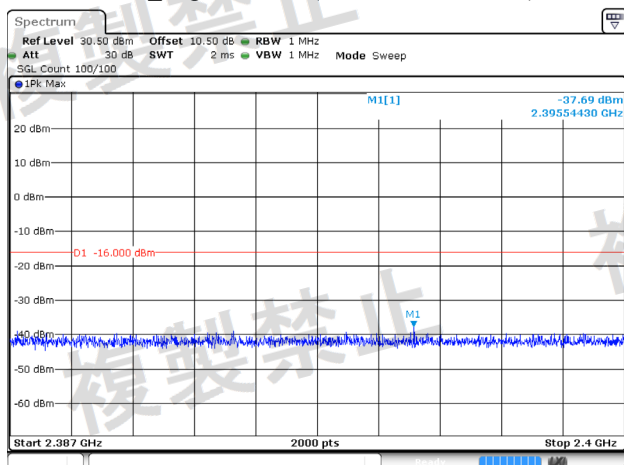
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:59:27

SRD_High Channel(1GHz~2.387GHz)



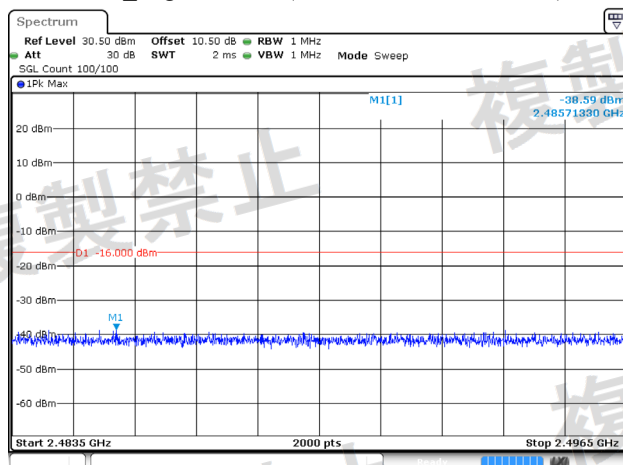
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:59:35

SRD_High Channel(2.387GHz~2.4GHz)



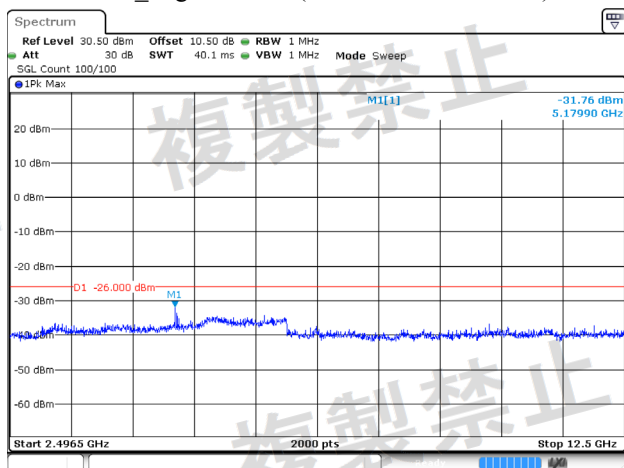
ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:59:41

SRD_High Channel(2.4835GHz~2.4965GHz)



ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 10:59:46

SRD_High Channel(2.4965GHz~12.5GHz)



ProjectNo. RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 11:00:08

ANTENNA OUTPUT POWER, ANTENNA POWER TOLERANCE**Environmental Conditions:**

Test Date:	2026-02-06
Temperature:	21.3 °C
Relative Humidity:	50 %
ATM Pressure:	102.8kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

*Test Mode: Transmitting***Test Condition: NV: 29V**

Frequency (MHz)	2403	2442	2480
Antenna Output Power (dBm)	-14.380	-15.530	-17.980
Antenna Output Power (mW)	0.04	0.03	0.02
EIRP (dBm)	-13.16	-14.31	-16.76
Declared Power (mW)	0.070	0.070	0.070
Antenna Output Power Tolerance(%)	-42.86	-57.14	-71.43
Antenna Power Limit	10mW		
EIRP Limit	12.14dBm		
Antenna Tolerance Limit	+20%		
Result	Pass		

Note 1: Antenna Power Error = (Antenna Output Power - Declared Antenna power)/ Declared Antenna power *100%

Note2: The antenna gain is 1.225 dBi which is declared by manufacture.

Declared Antenna power is 0.07 mW.

Antenna Output Power (mW)=10[^]((Antenna Output Power (dBm))/10)

EIRP(dBm)= Antenna Output Power (dBm)+ Antenna gain(dBi)

Test Condition: LV: 26.1V

Frequency (MHz)	2403	2442	2480
Antenna Output Power (dBm)	-14.310	-14.980	-17.630
Antenna Output Power (mW)	0.04	0.03	0.02
EIRP (dBm)	-13.09	-13.76	-16.41
Declared Power (mW)	0.070	0.070	0.070
Antenna Output Power Tolerance(%)	-42.86	-57.14	-71.43
Antenna Power Limit	10mW		
EIRP Limit	12.14dBm		
Antenna Tolerance Limit	+20%		
Result	Pass		

Note 1: Antenna Power Error = (Antenna Output Power - Declared Antenna power)/ Declared Antenna power *100%

Note2: The antenna gain is 1.225 dBi which is declared by manufacture.

Declared Antenna power is 0.07 mW.

Antenna Output Power (mW)=10[^]((Antenna Output Power (dBm))/10)

EIRP(dBm)= Antenna Output Power (dBm)+ Antenna gain(dBi)

Test Condition: HV: 31.9V

Frequency (MHz)	2403	2442	2480
Antenna Output Power (dBm)	-14.260	-14.930	-17.590
Antenna Output Power (mW)	0.04	0.03	0.02
EIRP (dBm)	-13.04	-13.71	-16.37
Declared Power (mW)	0.070	0.070	0.070
Antenna Output Power Tolerance(%)	-42.86	-57.14	-71.43
Antenna Power Limit	10mW		
EIRP Limit	12.14dBm		
Antenna Tolerance Limit	+20%		
Result	Pass		

Note 1: Antenna Power Error = (Antenna Output Power - Declared Antenna power)/ Declared Antenna power *100%

Note2: The antenna gain is 1.225 dBi which is declared by manufacture.

Declared Antenna power is 0.07 mW.

Antenna Output Power (mW)=10[^]((Antenna Output Power (dBm))/10)

EIRP(dBm)= Antenna Output Power (dBm)+ Antenna gain(dBi)

RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY**Environmental Conditions:**

Test Date:	2026-02-06	2026-03-19
Temperature:	21.3 °C	21.5 °C
Relative Humidity:	50 %	51 %
ATM Pressure:	102.8kPa	102.1kPa
Test Result:	Pass	Pass
Test Engineer:	Neil Zhou	Neil Zhou

*Test Mode: Receiving***Test Condition: NV: 29V**

Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start(MHz)	Stop(MHz)					
SRD	Low	Band I (100kHz)	30	1000	800.592	-67.82	0.165	4	Pass
		Band II (1MHz)	1000	12500	5876.86	-53.39	4.581	20	Pass
	Middle	Band I (100kHz)	30	1000	979.46	-68.49	0.142	4	Pass
		Band II (1MHz)	1000	12500	5758.99	-53.80	4.169	20	Pass
	High	Band I (100kHz)	30	1000	888.377	-68.26	0.149	4	Pass
		Band II (1MHz)	1000	12500	6987.76	-53.46	4.508	20	Pass

Test Condition: LV: 26.1V

Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start(MHz)	Stop(MHz)					
SRD	Low	Band I (100kHz)	30	1000	782.55	-67.99	0.159	4	Pass
		Band II (1MHz)	1000	12500	5860.76	-53.14	4.853	20	Pass
	Middle	Band I (100kHz)	30	1000	619.542	-67.92	0.161	4	Pass
		Band II (1MHz)	1000	12500	5835.46	-53.67	4.295	20	Pass
	High	Band I (100kHz)	30	1000	961.321	-68.13	0.154	4	Pass
		Band II (1MHz)	1000	12500	5727.94	-54.19	3.811	20	Pass

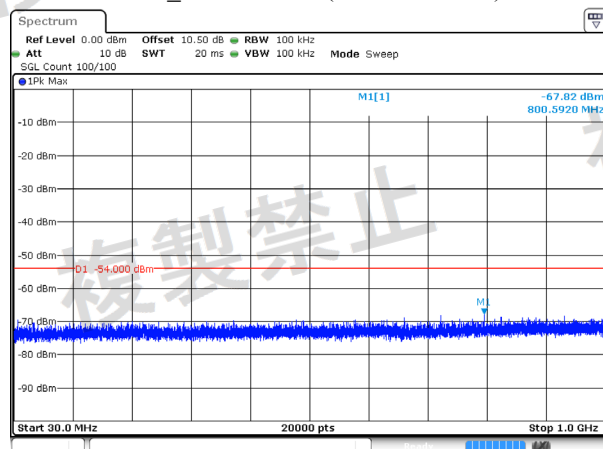
Test Condition: HV: 31.9V

Mode	Channel	Test Band (RBW)	Frequency Range		Max.Emission Located(MHz)	Result (dBm)	Result (nW)	Limit (nW)	Verdict
			Start(MHz)	Stop(MHz)					
SRD	Low	Band I (100kHz)	30	1000	865.122	-67.24	0.189	4	Pass
		Band II (1MHz)	1000	12500	5832.59	-53.49	4.477	20	Pass
	Middle	Band I (100kHz)	30	1000	919.029	-68.29	0.148	4	Pass
		Band II (1MHz)	1000	12500	6197.71	-53.41	4.560	20	Pass
	High	Band I (100kHz)	30	1000	938.866	-67.98	0.159	4	Pass
		Band II (1MHz)	1000	12500	6928.54	-53.67	4.295	20	Pass

Please refer to the plots for normal voltage test.

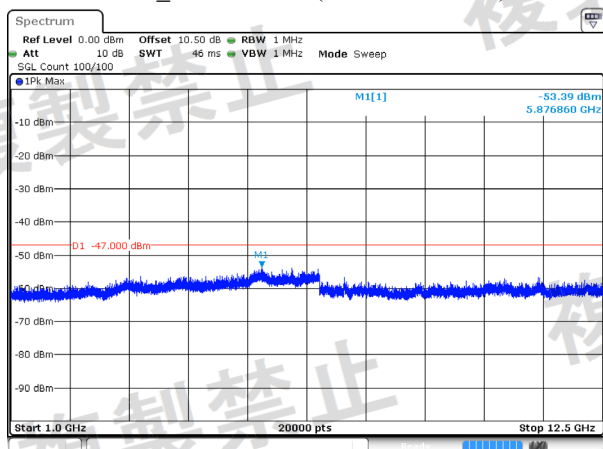
Test Condition: NV: 29V

SRD_Low Channel(30MHz~1GHz)



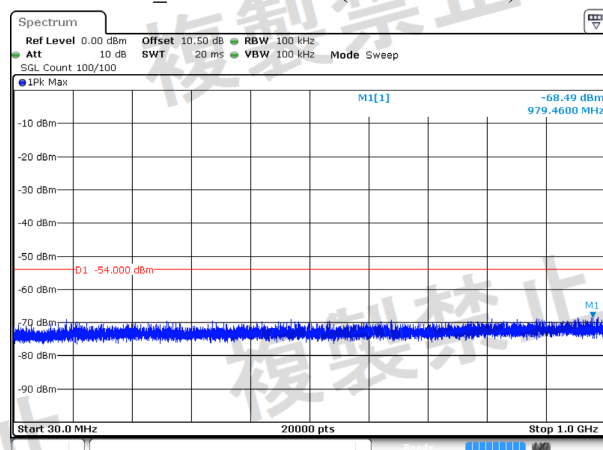
ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6.FEB.2026 14:12:33

SRD_Low Channel(1GHz~12.5GHz)



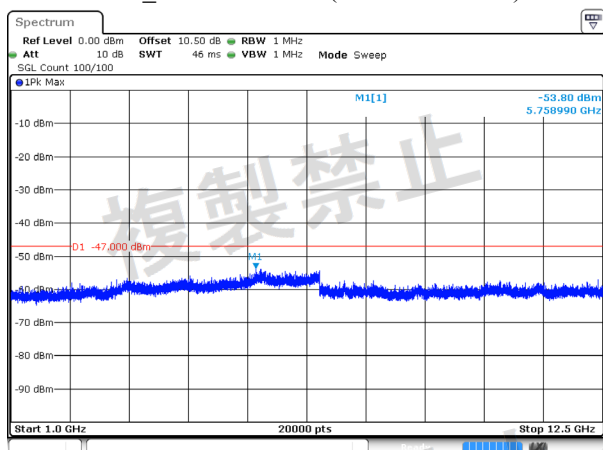
ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6.FEB.2026 14:12:55

SRD_Middle Channel(30MHz~1GHz)



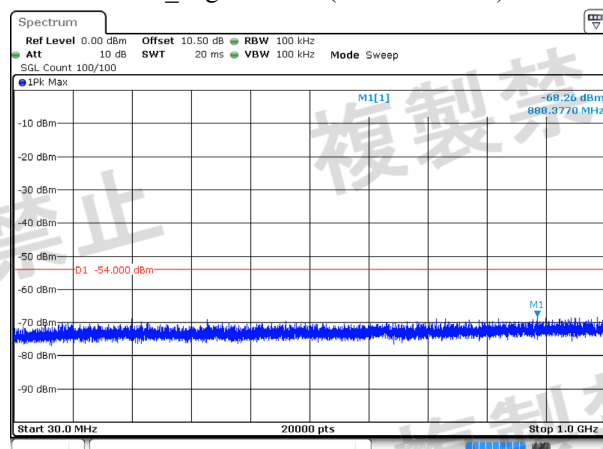
ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6.FEB.2026 14:13:25

SRD_Middle Channel(1GHz~12.5GHz)



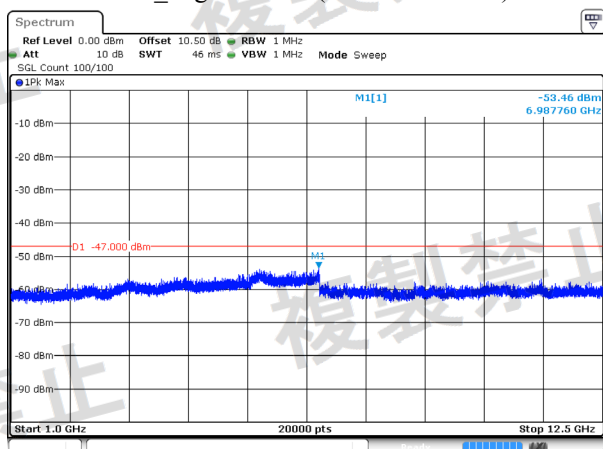
ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6.FEB.2026 14:13:47

SRD_High Channel(30MHz~1GHz)

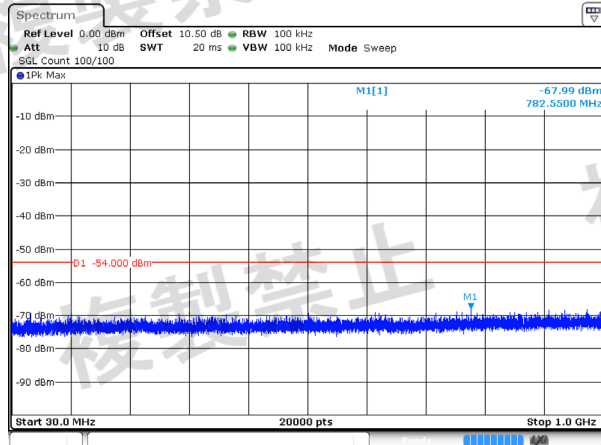


ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6.FEB.2026 14:15:25

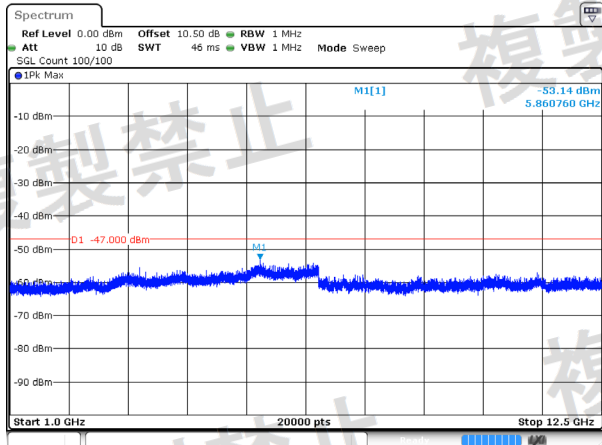
SRD_High Channel(1GHz~12.5GHz)



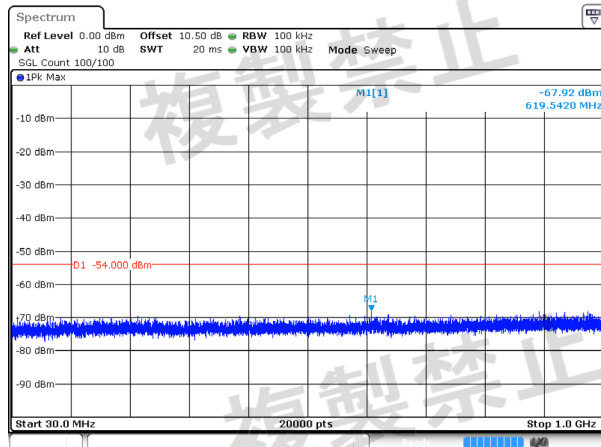
ProjectNo.: RSHA260108001 Tester: Neil Zhou
Date: 6.FEB.2026 14:15:47

Test Condition: LV: 26.1V**SRD_Low Channel(30MHz~1GHz)**

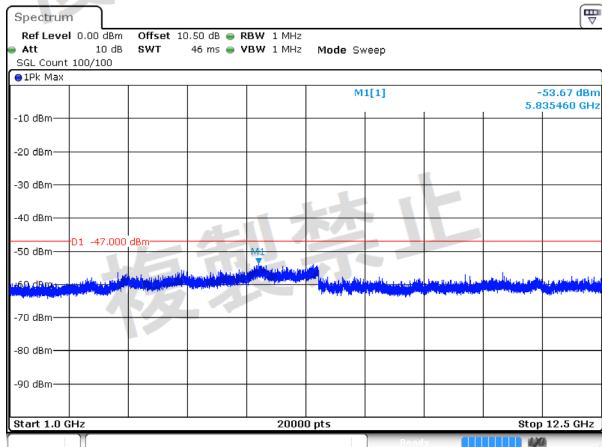
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:16:16

SRD_Low Channel(1GHz~12.5GHz)

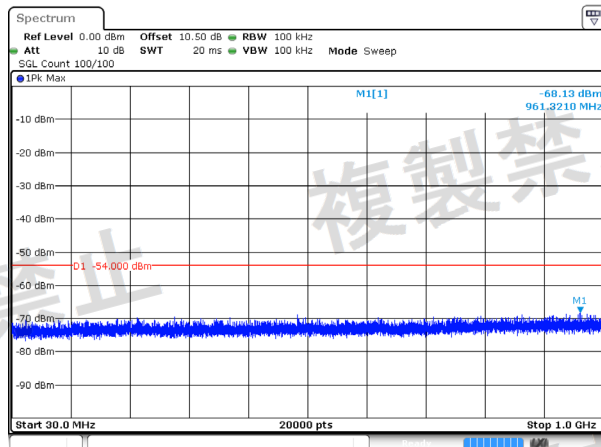
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:16:38

SRD_Middle Channel(30MHz~1GHz)

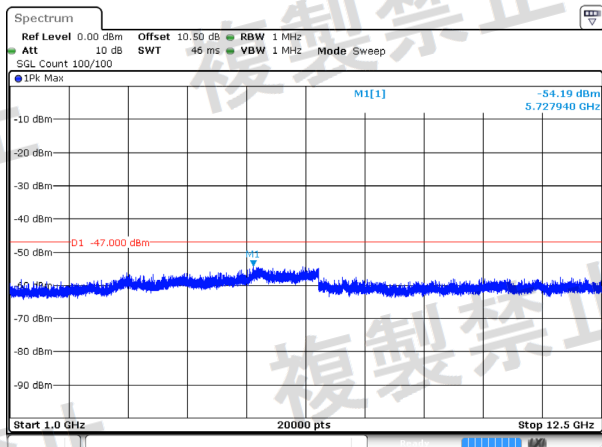
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:17:07

SRD_Middle Channel(1GHz~12.5GHz)

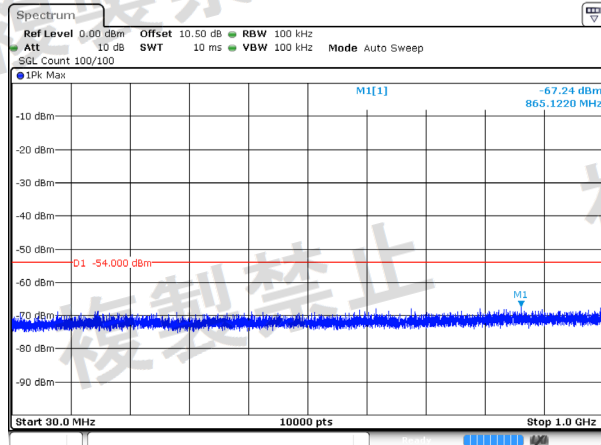
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:17:30

SRD_High Channel(30MHz~1GHz)

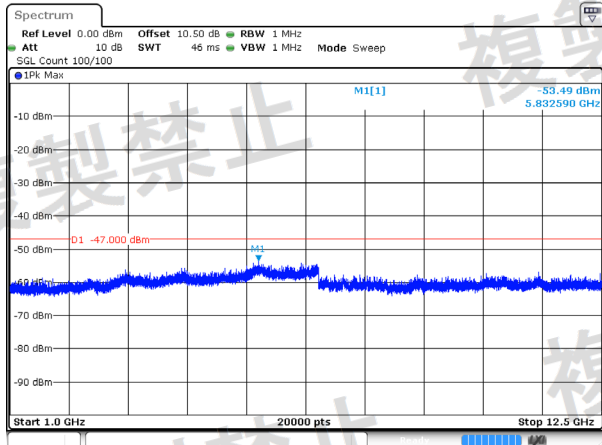
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:17:43

SRD_High Channel(1GHz~12.5GHz)

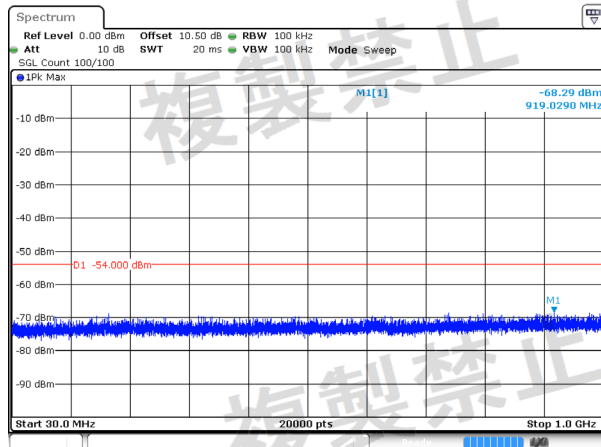
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:18:06

Test Condition: HV: 31.9V**SRD_Low Channel(30MHz~1GHz)**

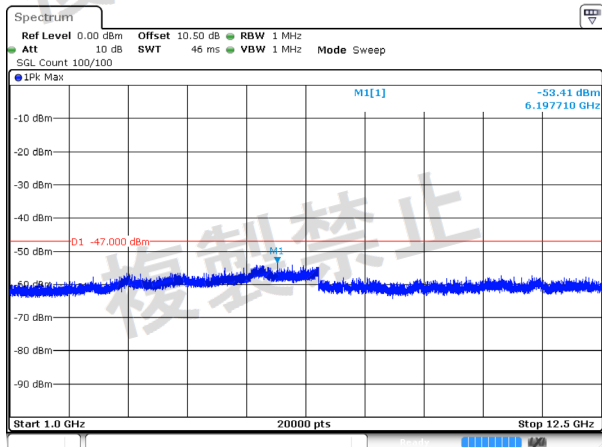
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 19.MAR.2026 16:01:47

SRD_Low Channel(1GHz~12.5GHz)

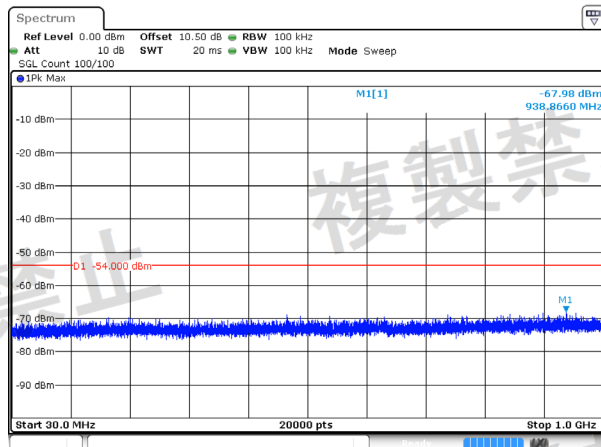
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:08:57

SRD_Middle Channel(30MHz~1GHz)

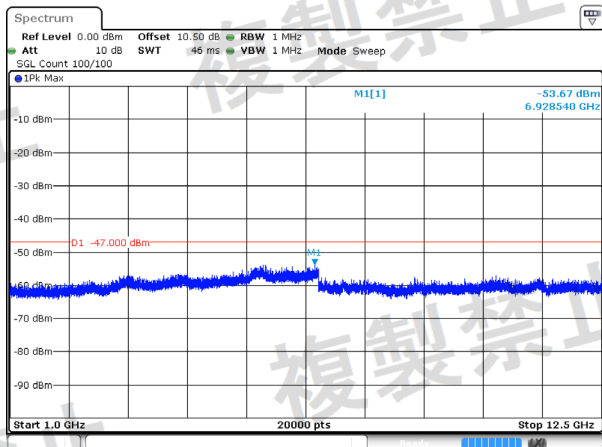
ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:09:10

SRD_Middle Channel(1GHz~12.5GHz)

ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:09:32

SRD_High Channel(30MHz~1GHz)

ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:09:47

SRD_High Channel(1GHz~12.5GHz)

ProjectNo.:RSHA260108001 Tester:Neil Zhou
Date: 6.FEB.2026 14:10:09

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s). This report must not be duplicated or used in part without prior written consent from the laboratory.
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

****END OF REPORT****