

**Radio equipment according to Certification
Ordinance Article 2 Section 1 No.19
According to MIC Notice No. 88 Appendix 43
for
Receiver unit
Model No.: E01D**

of

Applicant: ELECOM CO., LTD.
Address: Fushimimachi 4-1-1, Chuo-ku, Osaka City, Osaka Japan 541-8765

Tested and Prepared

By

Worldwide Testing Services (Taiwan) Co., Ltd.

Report No.: W6M22308-22913-J-1

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com



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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample, which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services (Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.



Worldwide Testing Services(Taiwan) Co., Ltd.

Tester:

September 21, 2023

Sora Kuo

Sora

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

September 21, 2023

Kevin Wang

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

1.2 Testing laboratory

1.2.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6613-0228

Worldwide Testing Services (Taiwan) Co., Ltd.
6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

Telefication Reviewed Laboratory: TRL 0501

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name : ./.
Accredited no. : ./.
Street : ./.
Town : ./.
Country : ./.

1.3 Details of applicant

Name : ELECOM CO., LTD.
Street : Fushimimachi 4-1-1, Chuo-ku,
City : Osaka City, Osaka
Country : Japan 541-8765

1.4 Application details

Date of receipt of test item : August 25, 2023
Date of test : from August 28, 2023 to September 13, 2023



1.5 Equipment information

Description of test item	: Receiver unit
Type identification	: E01D
Multi-listing model no.	: ./.
Brand name	: ELECOM
Modulation type	: GFSK
Frequency range	: 2.400 GHz - 2.483.5 GHz
Tested frequencies	: 2.403 – 2.480 GHz
Frequency of the used channel	: Frequency (low channel): 2.403 GHz Frequency (middle channel): 2.441 GHz Frequency (high channel): 2.480 GHz
Type of antenna	: PCB Antenna
Antenna gain	: -1.50 dBi
Rated output power	: 0.8 mW
Sample no.	: #04

Manufacturer: (if different from applicant)

Name	: ./.
Street	: ./.
City	: ./.
Country	: ./.

1.6 Assembly

Glue dot will be used to seal the case for preventing access RF parts directly. For this EUT is opening only by destroying the equipment have been taken to satisfy sample requirement.

1.7 Testing method

According to MIC Notice No. 88 Appendix 43.



2 Technical Test

2.1 Summary of test results

No deviations from the technical specifications were ascertained in the course of the test performed.

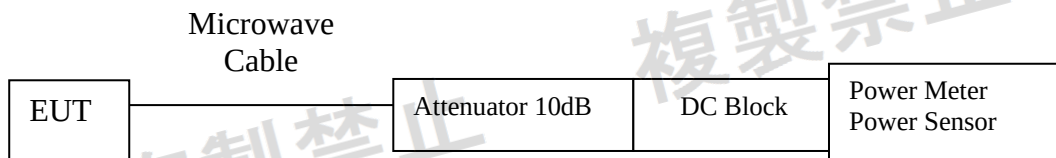
2.2 Test environment

Temperature	:	5° C - 35 ° C
Relative humidity content	:	45% - 85%
Air pressure	:	990 - 1300 hPa
Details of power supply	:	USB 5Vd.c.
Other parameter	:	./.
Extreme conditions parameters	:	V _{nom} : 5 V
	:	V _{min} : 4.5 V
	:	V _{max} : 5.5 V

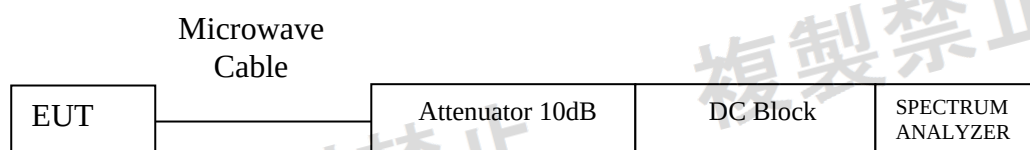
Additional information : ./.

2.3 Test setup

Antenna power



Frequency tolerance, Occupied bandwidth and Spurious emission



Test item Name	Measurement Uncertainty
Estimation Result of Uncertainty of Frequency Drift Measurement	Expanded Uncertainty : 6.11 Hz
Estimation Result of Uncertainty of Bandwidth Measurement	Expanded Uncertainty : 0.45 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement	Expanded Uncertainty : 1.48 dB

The decision rule is: Measurement uncertainty is not included in the calculation of test results.



2.4 Test equipment utilized

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date	Calibration Body	Calibration Method
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2023/2/17	2024/2/16	WTS	C
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2023/3/22	2024/3/21	ITRI	C
ETSTW-RE 073	Power Meter	N1911A	MY45100769	Agilent	2023/2/9	2024/2/8	ITRI	C
ETSTW-RE 074	Power Sensor	N1921A	MY45241198	Agilent	2023/2/9	2024/2/8	ITRI	C

Calibration Method:

- 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)
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- 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)
- Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)



3 Test results (enclosure)

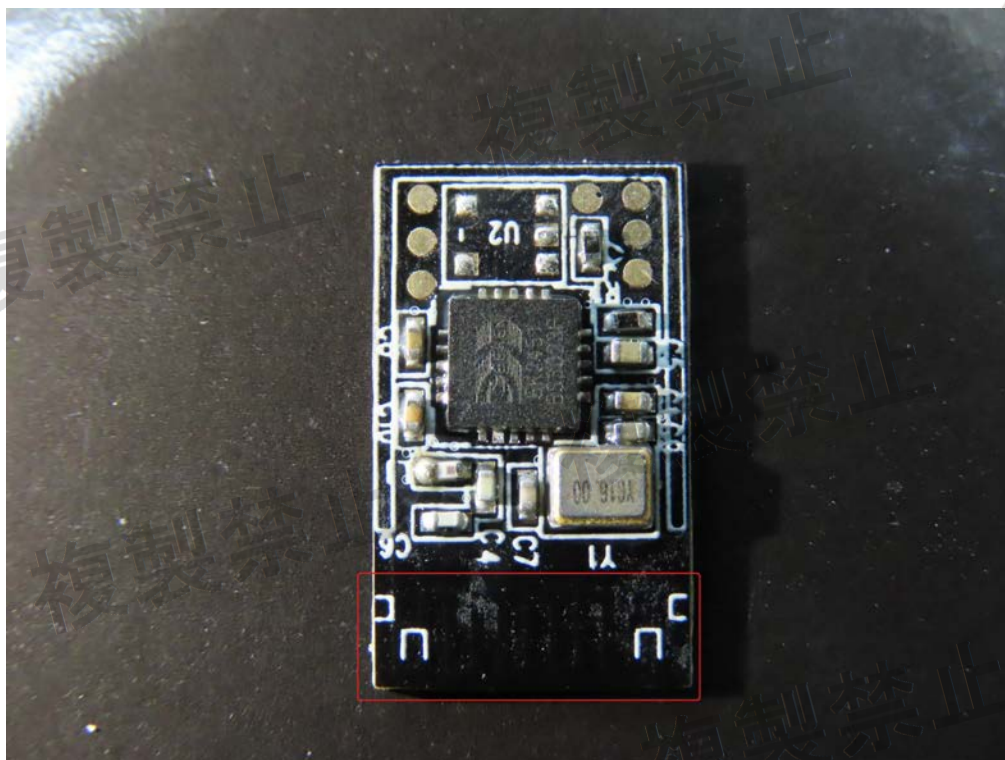
☒ 1st test

☐ test after modification

☐ production test

Test case	Subclause	Required	Status
<i>General provisions</i>			
Frequency tolerance	5	☒	C
Occupied bandwidth	6	☒	C
Spurious emissions	7	☒	C
<i>Transmitting equipment</i>			
Antenna power	14	☒	C
SAR	14.2	☐	NA
Frequency stabilization	15	☒	C
<i>Transmitter antenna</i>			
Type, configuration, etc. of transmitting antenna	20	☒	C
Directional pattern of transmitting antenna	22	☒	C
<i>Receiving equipment</i>			
Spurious emission of receiver	24	☒	C
Refer to all articles for transmitter antenna	26	☒	C
<i>Operating frequency 2403-2480MHz</i>			
High Frequency/modulation section cannot be opened easily	49.20(1); a	☒	C
Communication method	49.20(1); b	☒	C
Modulation method	49.20(1); c	☒	C
Spread spectrum method	49.20(1); d	☐	NA
Antenna power	49.20(1); e	☒	C
Absolute gain of transmitting antenna	49.20(1); f(1)	☒	C
Angular width of principal radiation (AWPR)	49.20(1); f(2)	☐	NA
Number of carriers within 1 MHz bandwidth in OFDM	49.20(1); g	☐	NA
Diffusion bandwidth	49.20(1); h	☒	C
Spreading factor	49.20(1); i	☐	NA
Frequency retention time (FH employed)	49.20(1); j	☐	NA
Interference Prevention Function	9-4. 8	☒	C
Note 1: C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable			

3.1 Antenna specifications



Antenna Type: PCB Antenna / -1.50 dBi



3.2 Frequency Tolerance

Tolerance from nominal frequency:

Test date: September 10, 2023

Temperature: 24.7 °C

Humidity: 55.8 %

Tester: Sora

Mode		Voltage	Frequency(MHz)	MAX Frequency Tolerance (ppm)	Limit (ppm)
2.4G	2403MHz	V normal = 5V	2403.01859	7.7	50
		V min = 4.5V	2403.01875	7.8	
		V max = 5.5V	2403.018429	7.7	
	2441MHz	V normal = 5V	2441.01859	7.6	
		V min = 4.5V	2441.01875	7.7	
		V max = 5.5V	2441.01859	7.6	
	2480MHz	V normal = 5V	2480.01875	7.6	
		V min = 4.5V	2480.01875	7.6	
		V max = 5.5V	2480.01875	7.6	

Test equipment used: ETSTW-RE 050, ETSTW-RE 055

Limits:

Under all test conditions	< 50 ppm
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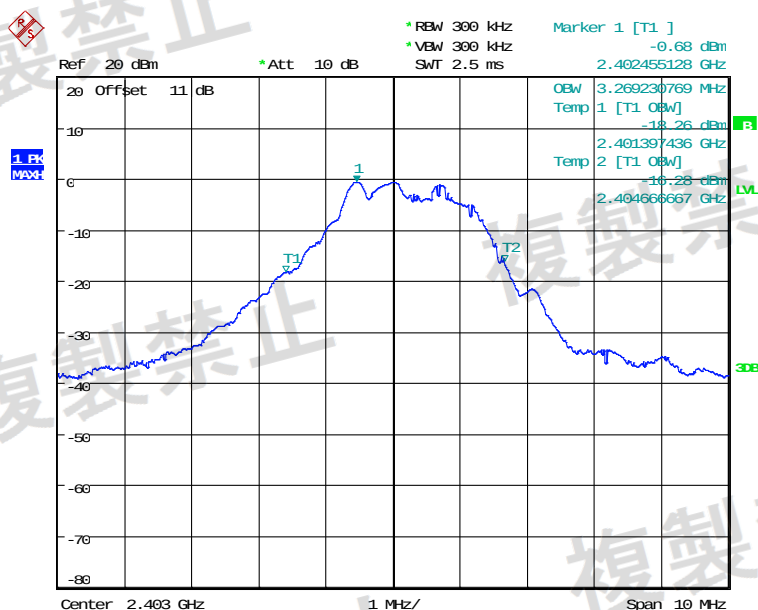
3.3 Occupied Bandwidth (99% channel power bandwidth)

Test date: September 10, 2023

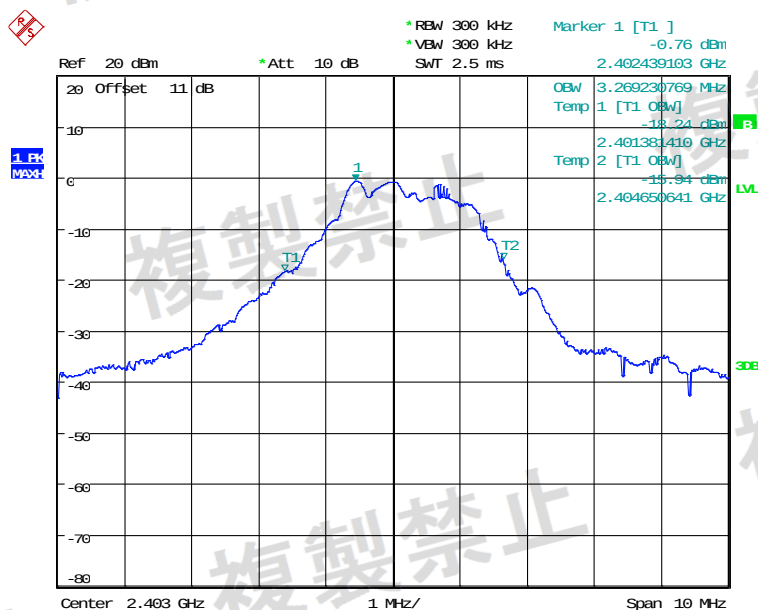
Temperature: 24.7 °C

Humidity: 55.8 %

Tester: Sora



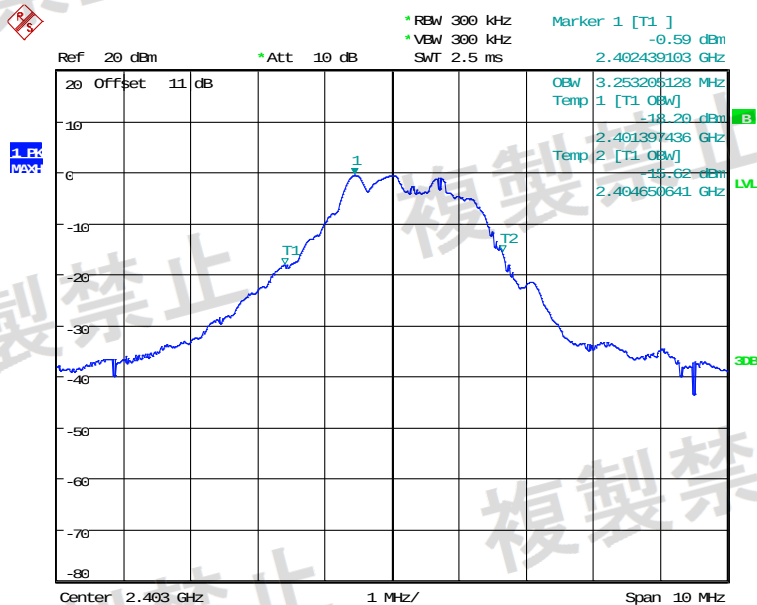
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Date: 10.SEP.2023 15:00:01



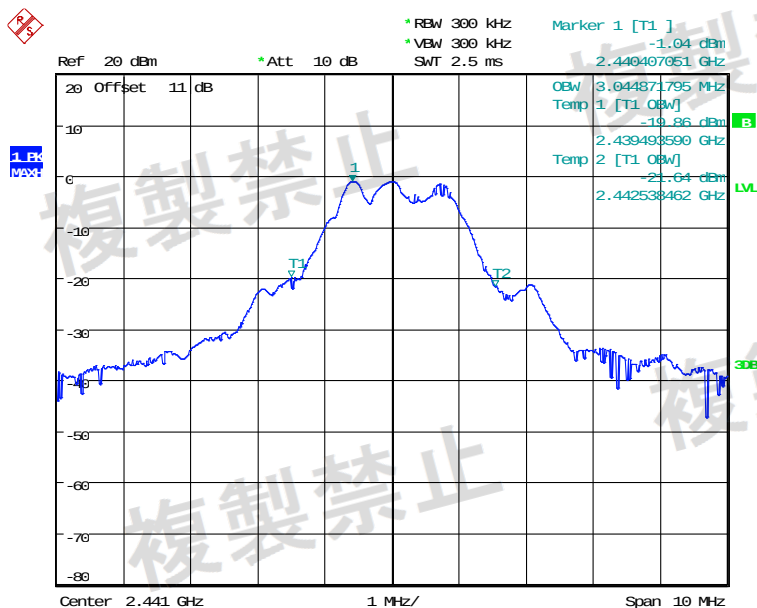
OCCUPIED BANDWIDTH 2403MHz 4.5V
Date: 10.SEP.2023 14:56:38



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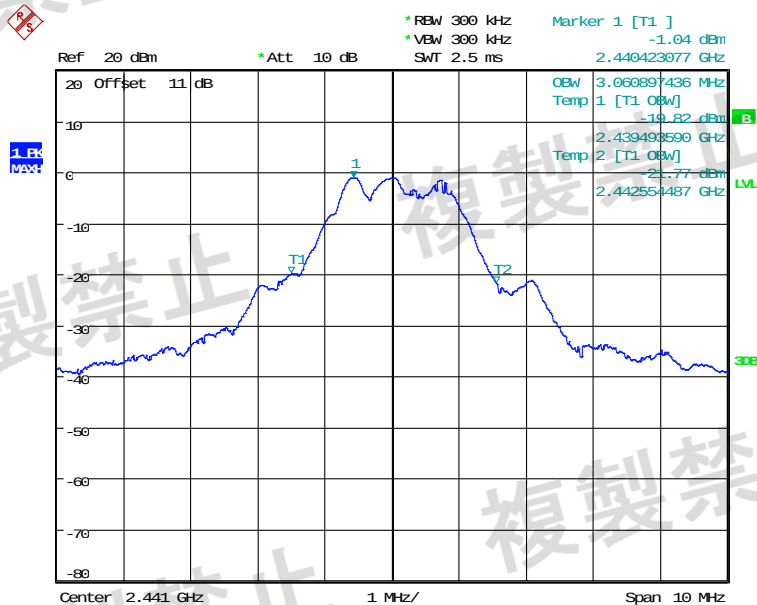
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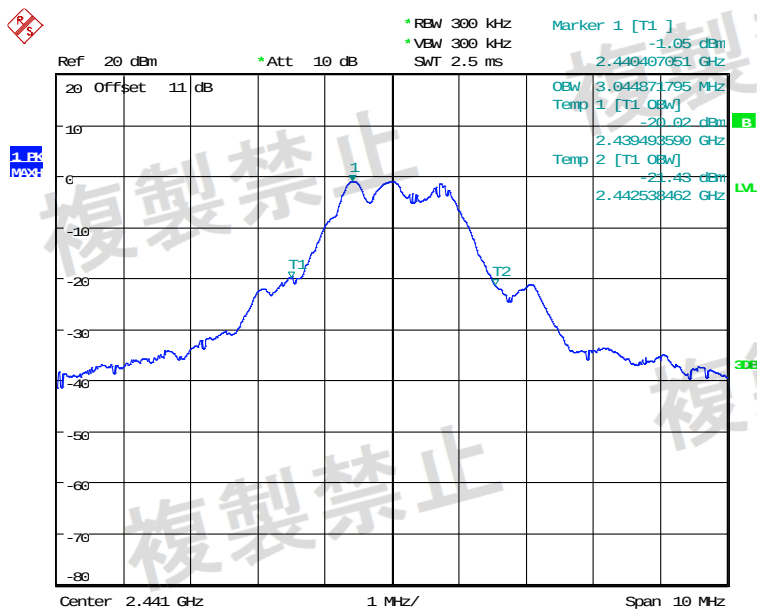
OCCUPIED BANDWIDTH 2441MHz 5V
Date: 10.SEP.2023 15:16:52



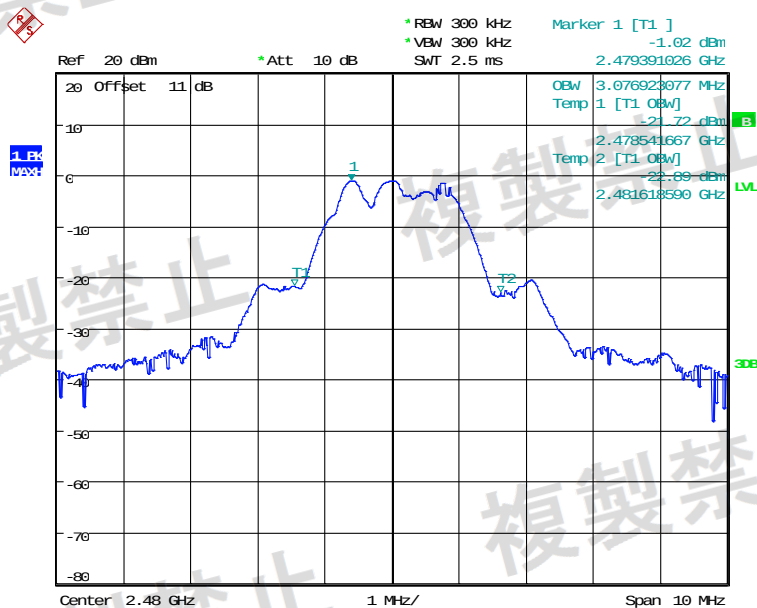
Worldwide Testing Services(Taiwan) Co., Ltd.



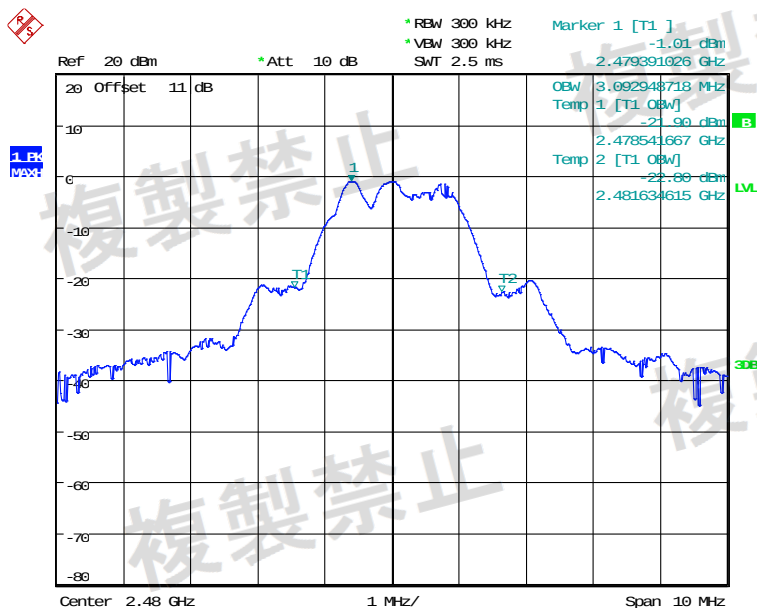
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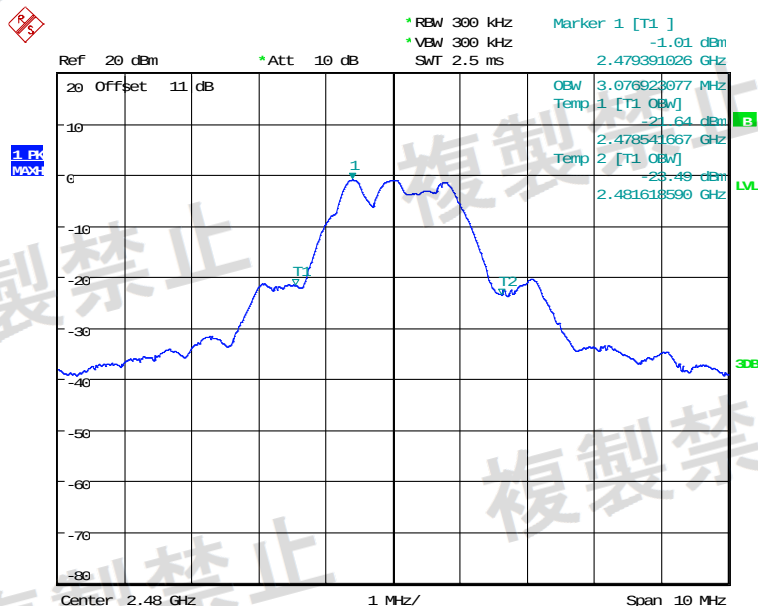
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Date: 10.SEP.2023 15:14:55



OCCUPIED BANDWIDTH 2480MHz 5V
Date: 10.SEP.2023 15:23:52



OCCUPIED BANDWIDTH 2480MHz 4.5V
Date: 10.SEP.2023 15:22:00



OCCUPIED BANDWIDTH 2480MHz 5.5V
Date: 10.SEP.2023 15:28:59

Limits:

Under all test conditions	FH: 83.5 MHz
	FH+DS : 83.5 MHz
	FH+OFDM : 83.5 MHz
	OFDM : 38 MHz
	Others : 26 MHz

Test equipment used: ETSTW-RE 050, ETSTW-RE 055



3.4 Spreading Bandwidth & Spreading Factor

3.4.1 Spreading Bandwidth

Test date: --

Temperature: -- °C

Humidity: -- %

Tester: --

Limits:

Under all test conditions	DS, FH, FH+DS, FH+OFDM : 500kHz or more
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Test equipment used: ETSTW-RE 050, ETSTW-RE 055

Note: This test is not required.



3.4.2 Spreading Factor

Spreading Factor
./.

Spreading factor: Spreading bandwidth / throughput

Under all test conditions	Operating frequency 2400 – 2483 MHz: ≥ 5 Operating frequency 2471 – 2497 MHz: ≥ 10
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Note: This test is not required.



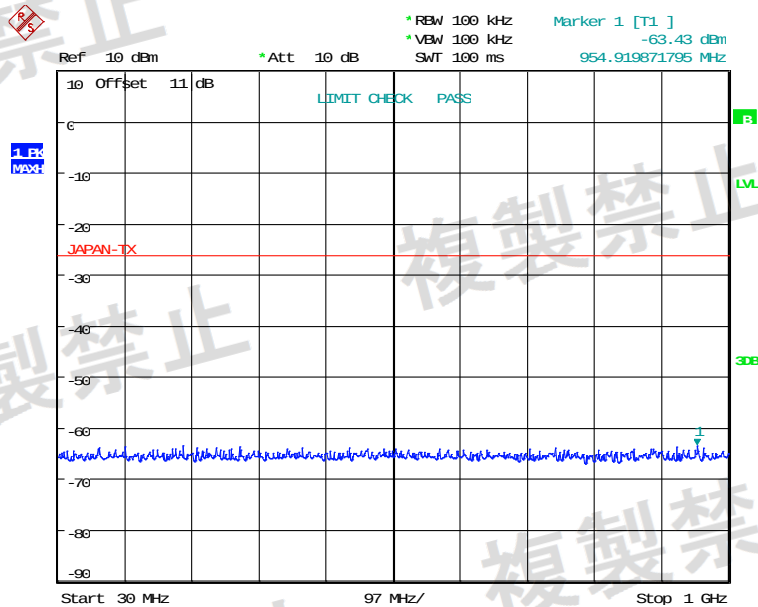
3.5 Spurious emissions transmitter

Test date: September 10, 2023

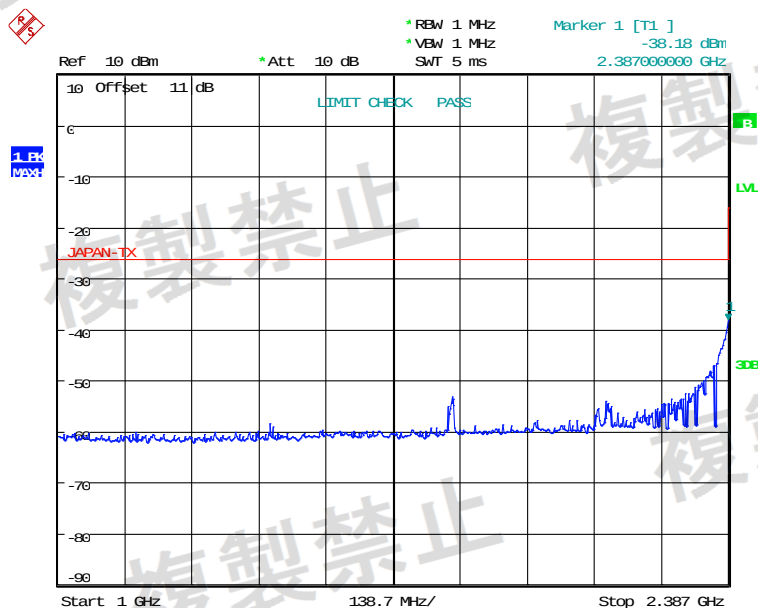
Temperature: 24.7 °C

Humidity: 55.8 %

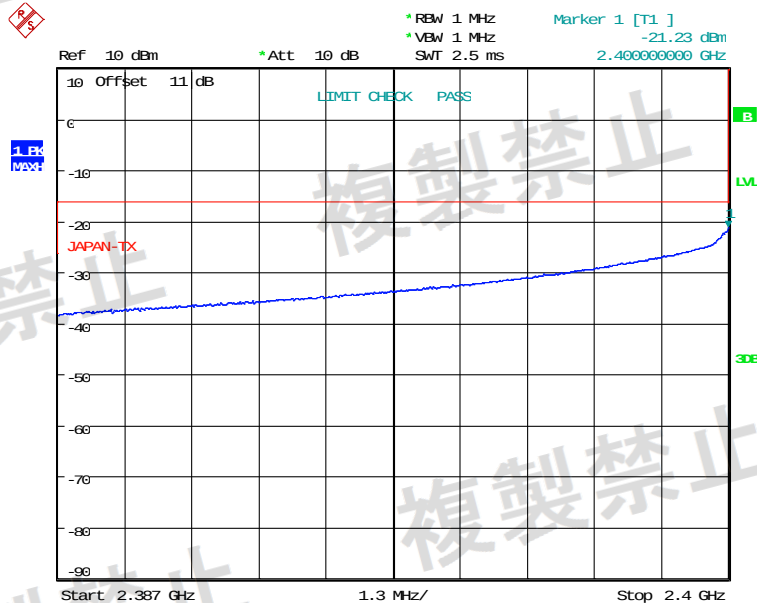
Tester: Sora



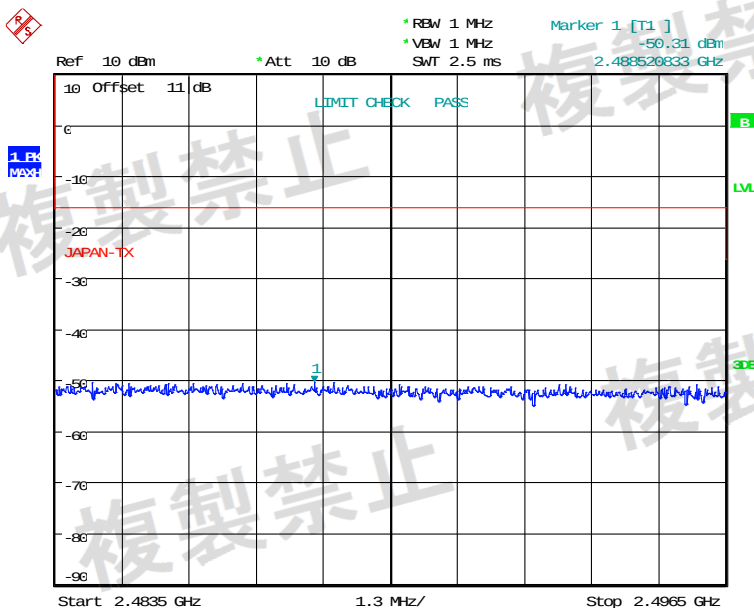
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Date: 10.SEP.2023 15:59:59



CONDUCTED SPURIOUS EMISSION TX 2403MHz 5V
Date: 10.SEP.2023 16:05:26



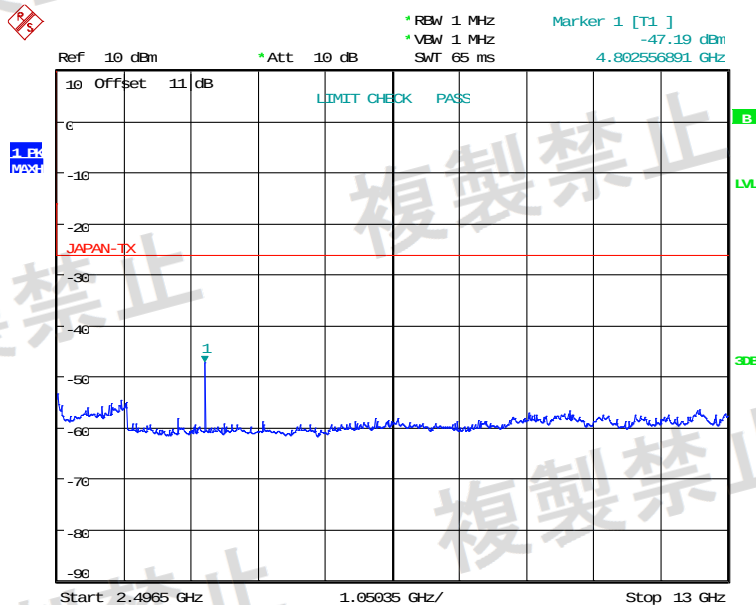
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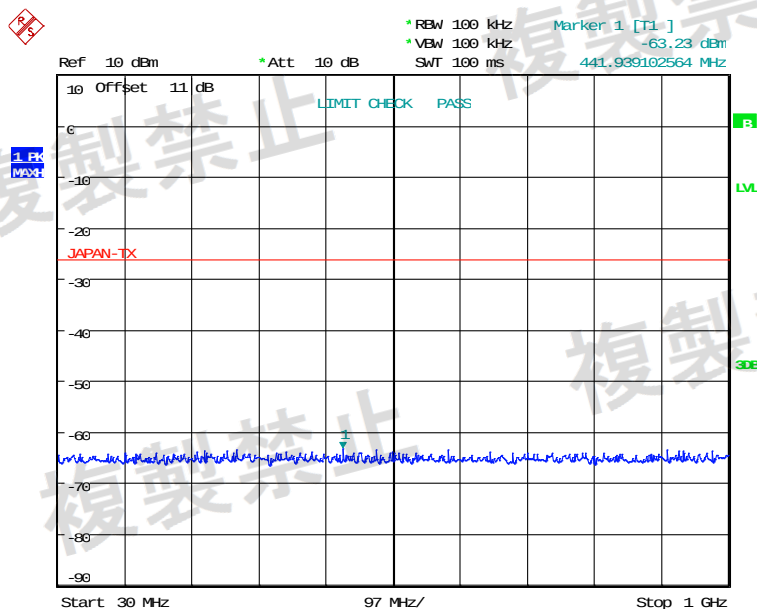
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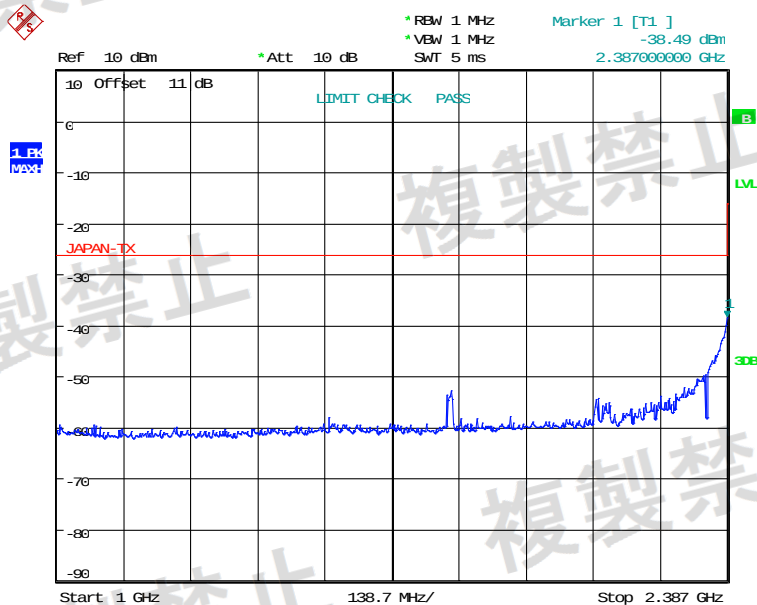
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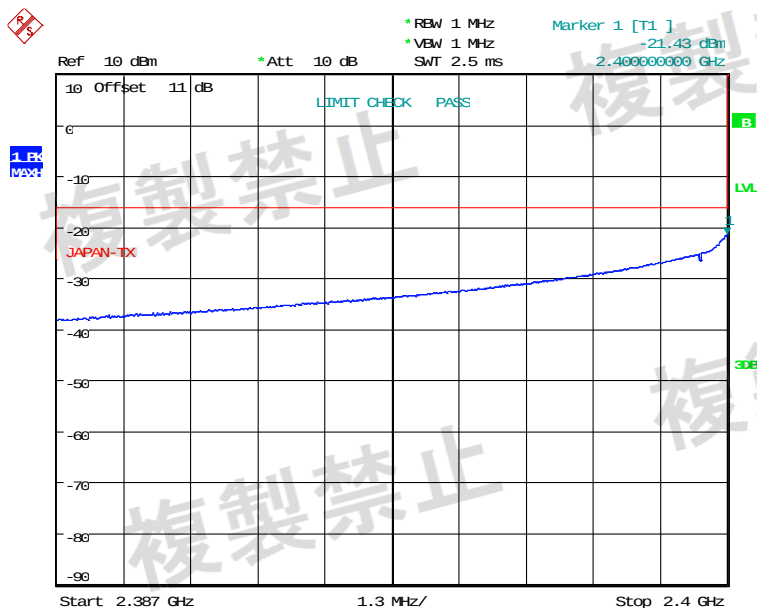
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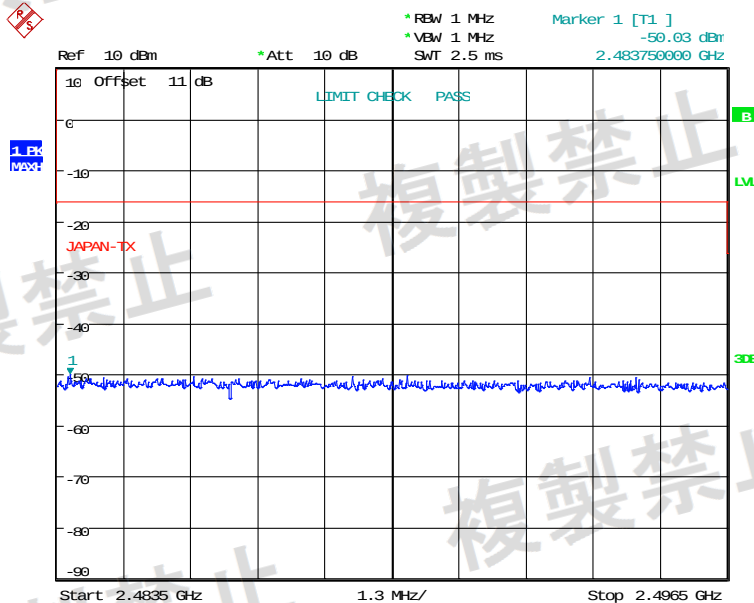
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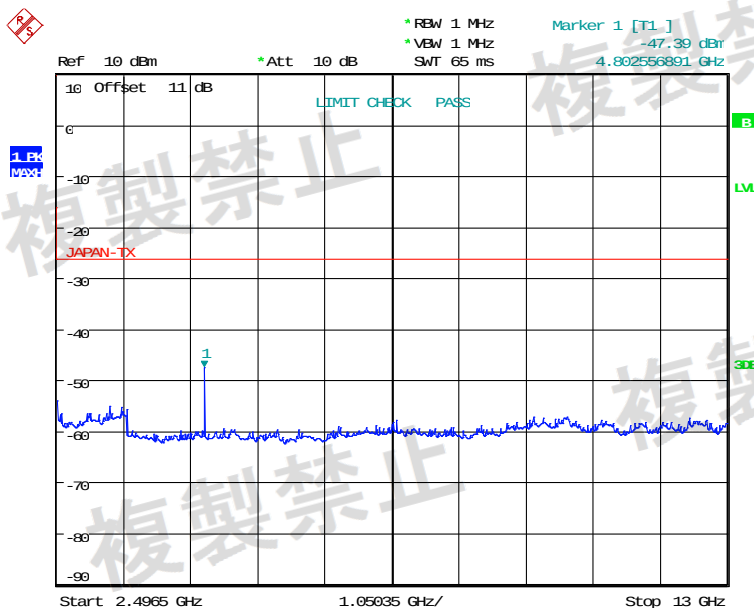
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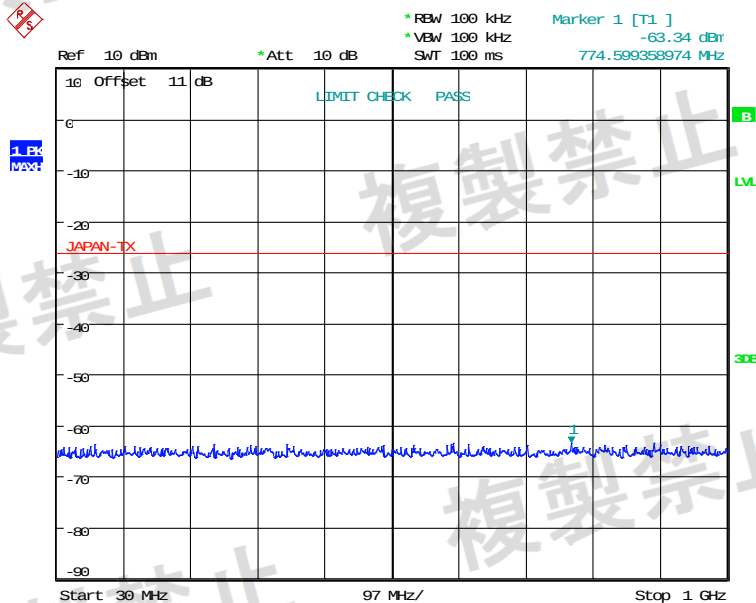
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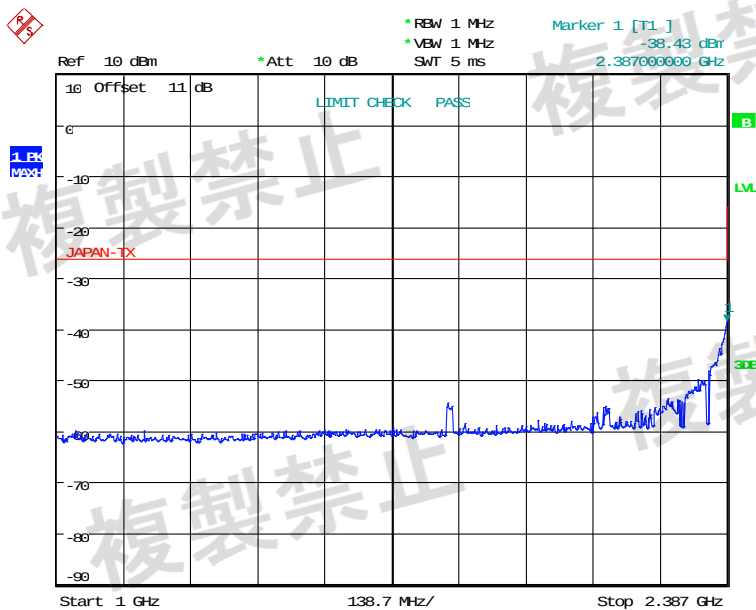
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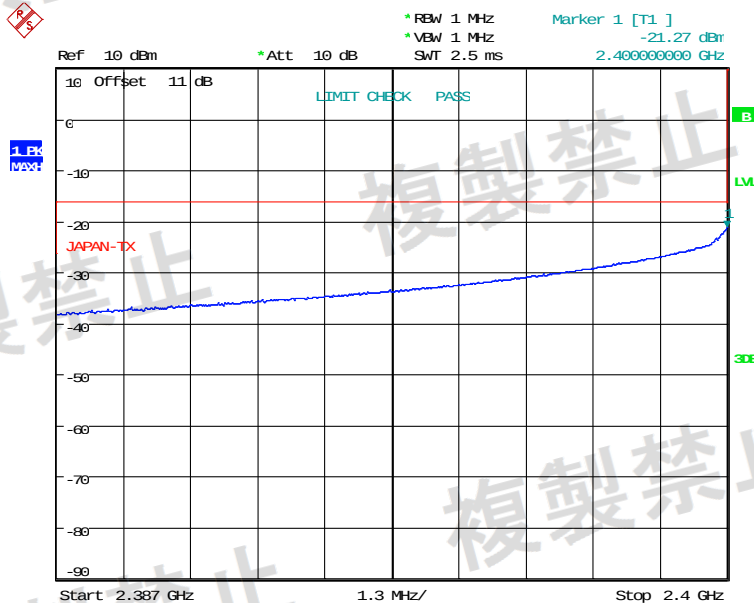
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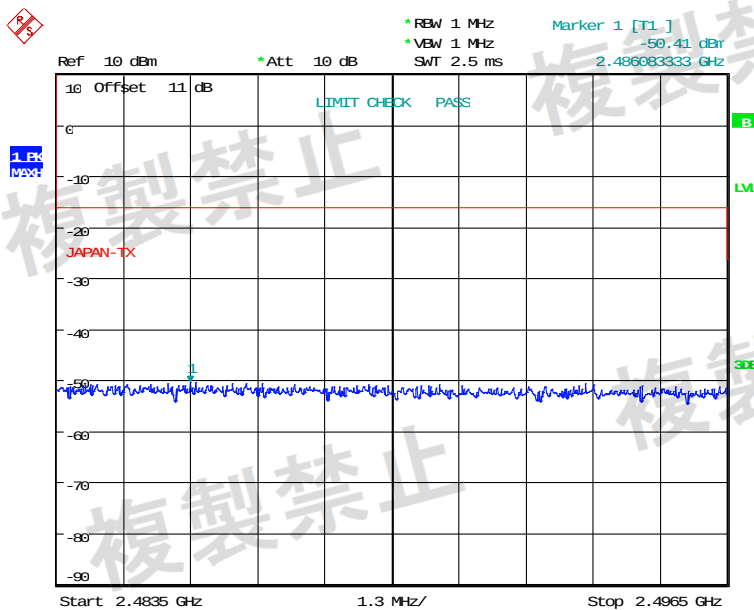
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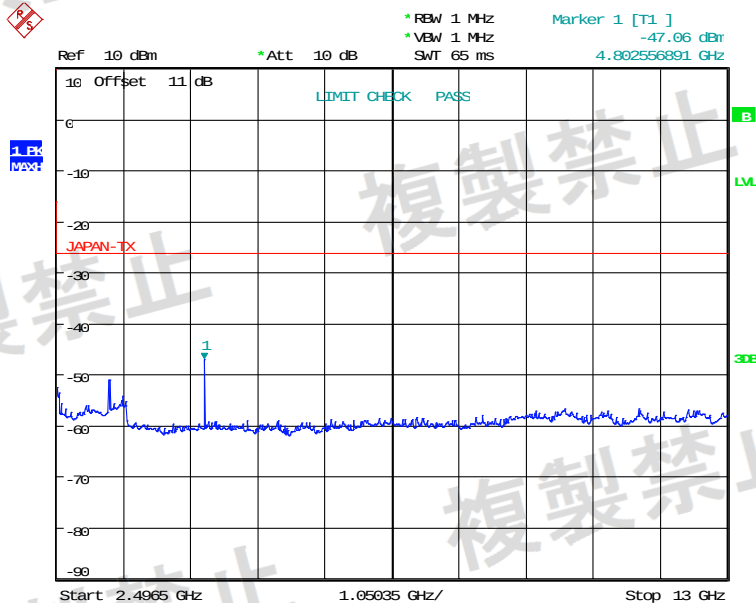
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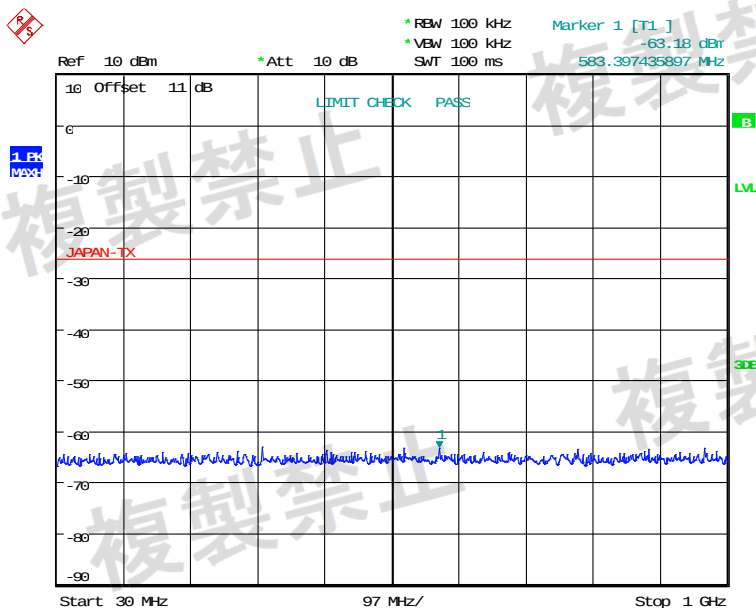
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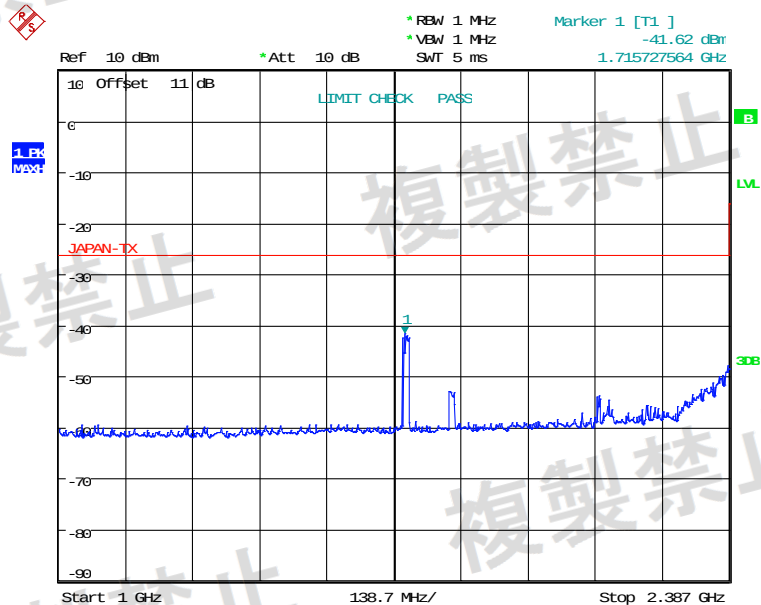
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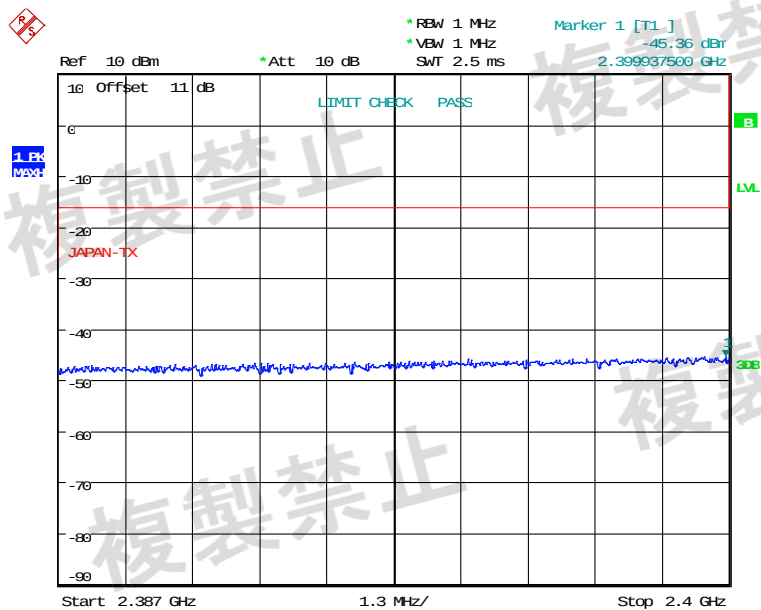
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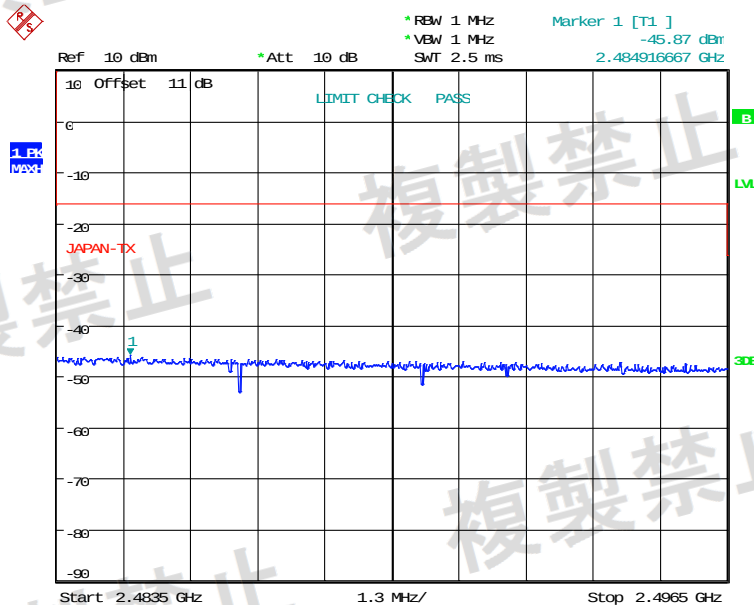
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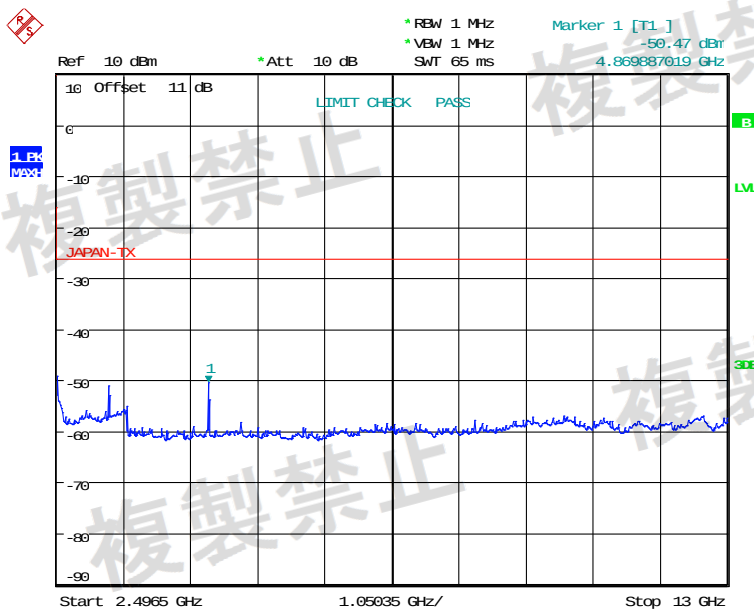
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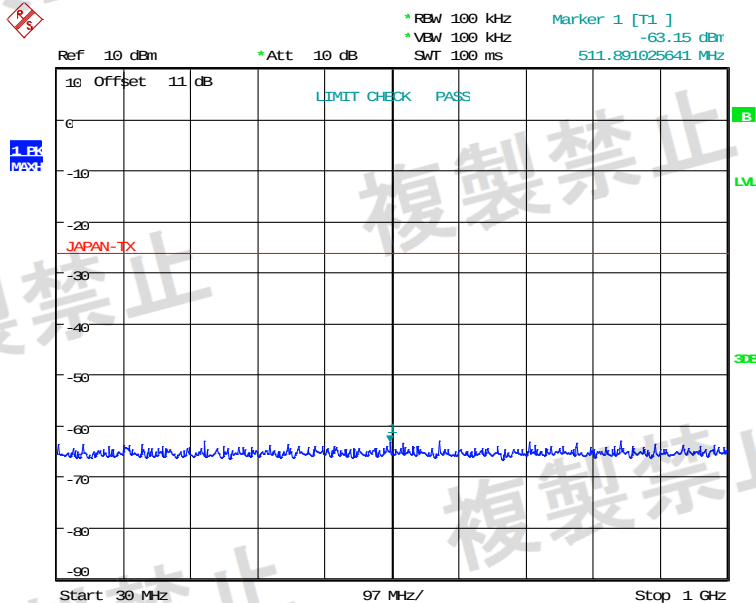
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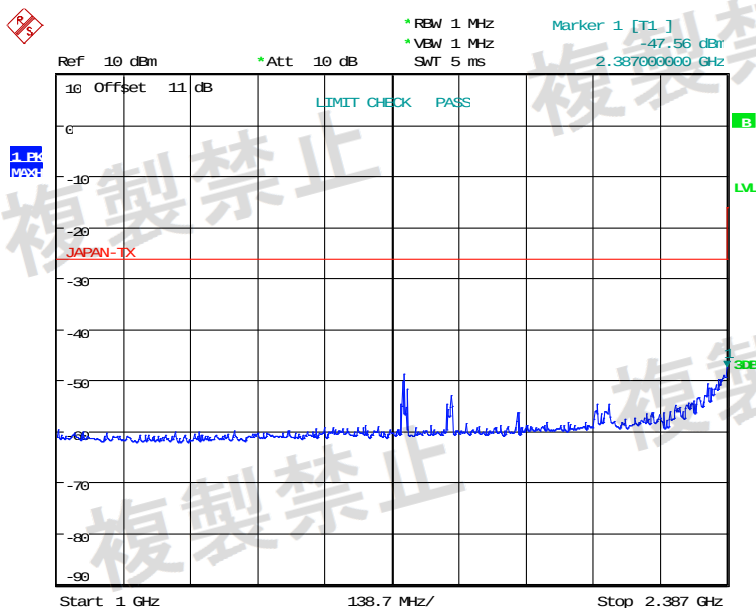
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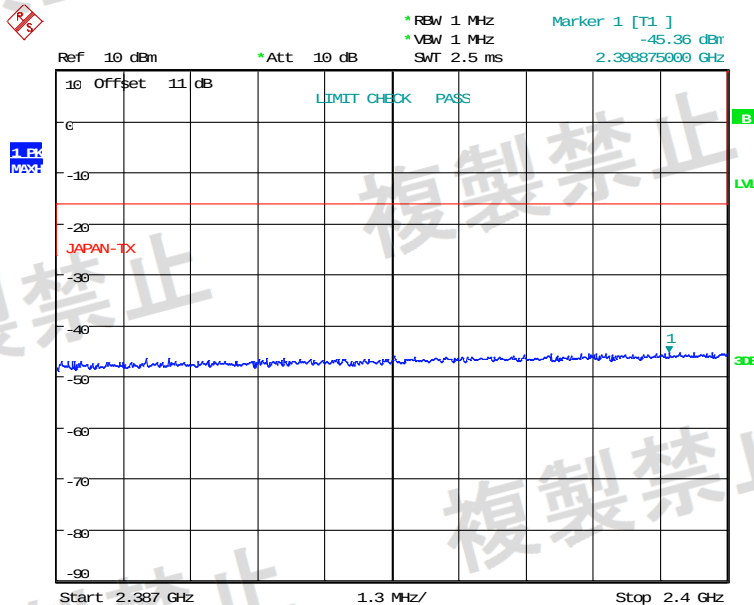
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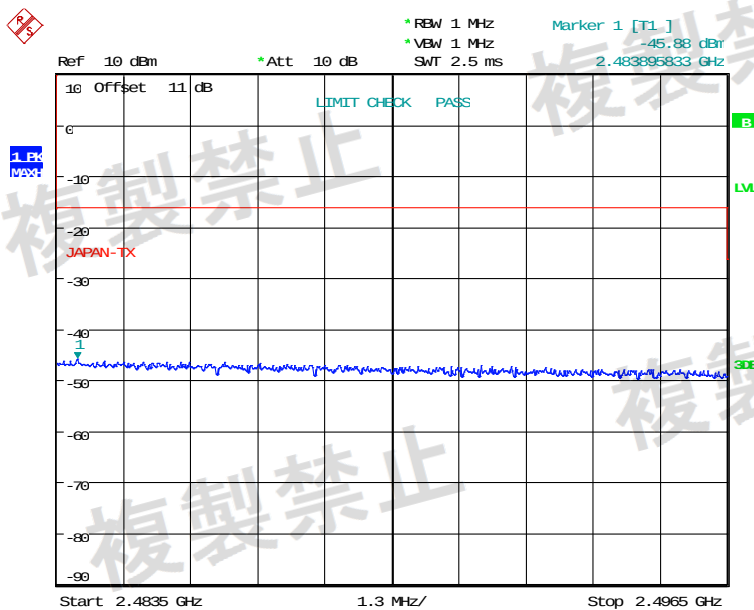
CONDUCTED SPURIOUS EMISSION TX 2441MHz 4.5V
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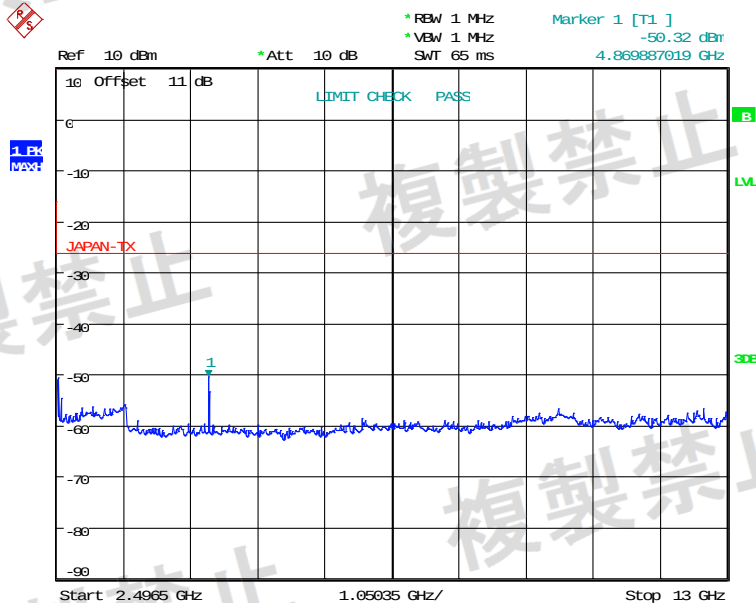
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Date: 10.SEP.2023 16:57:53



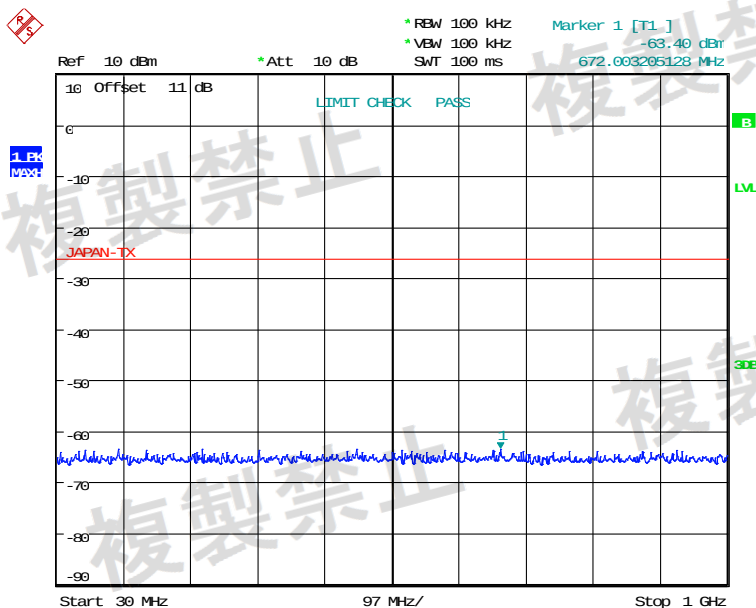
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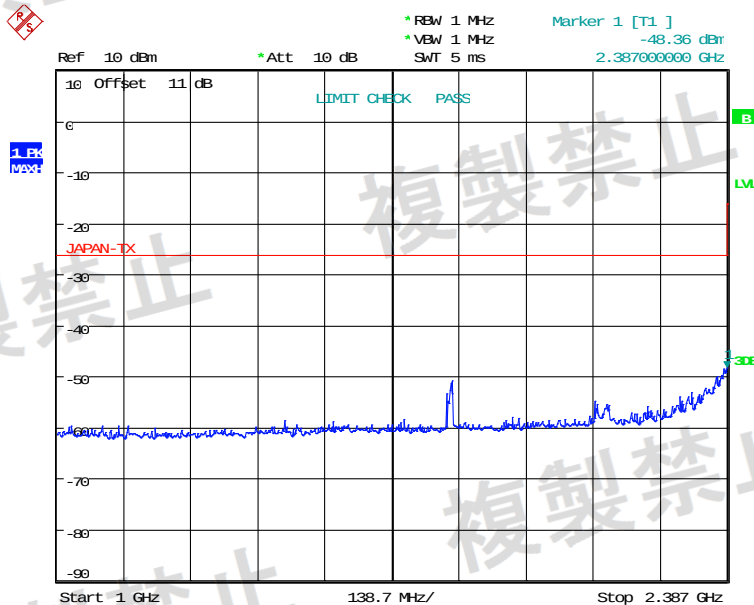
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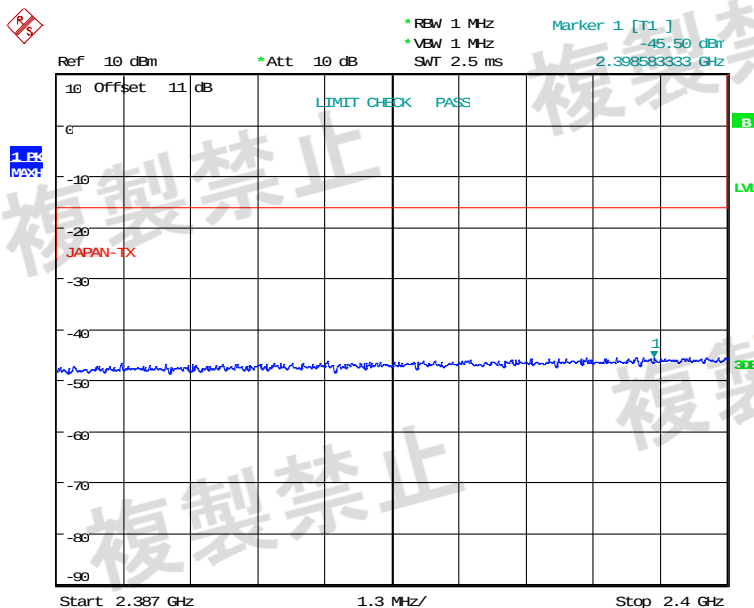
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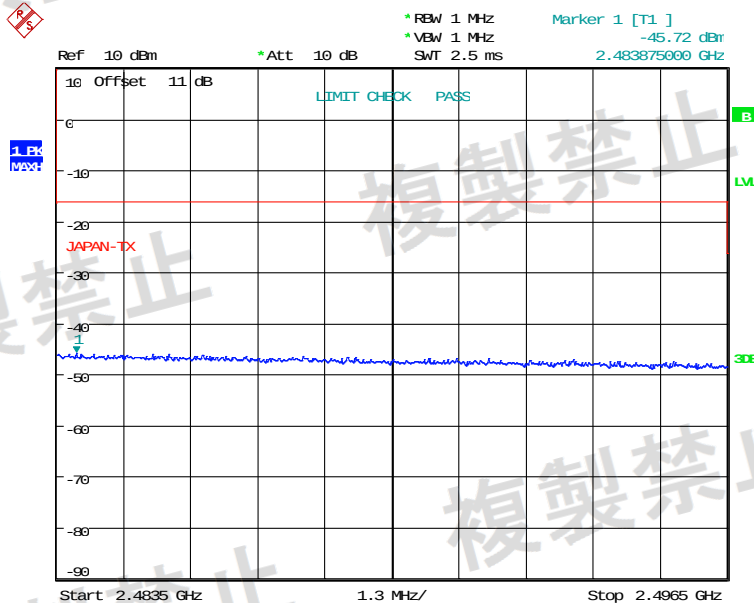
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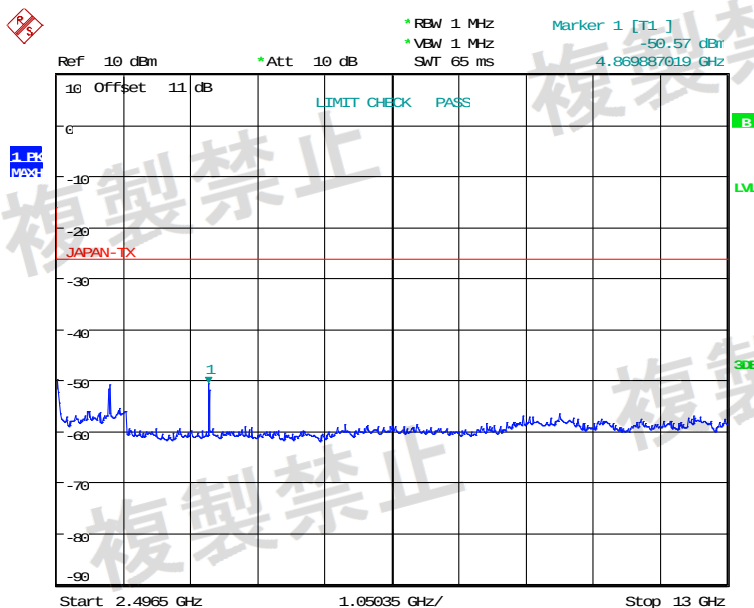
CONDUCTED SPURIOUS EMISSION TX 2441MHz 5.5V
Date: 10.SEP.2023 16:47:09



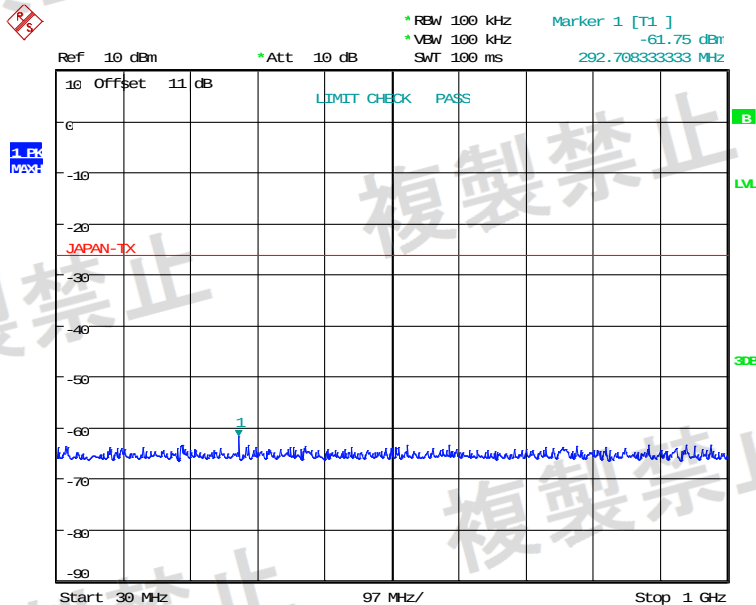
CONDUCTED SPURIOUS EMISSION TX 2441MHz 5.5V
Date: 10.SEP.2023 17:06:59



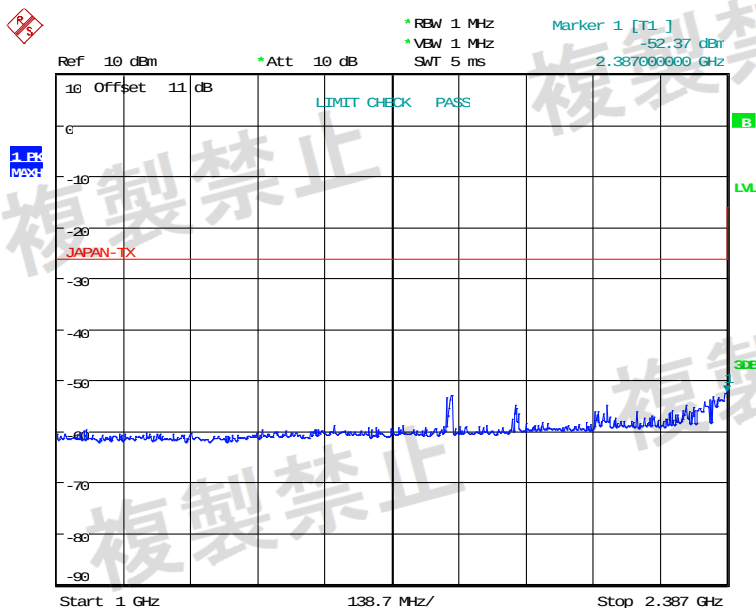
CONDUCTED SPURIOUS EMISSION TX 2441MHz 5.5V
Date: 10.SEP.2023 17:24:36



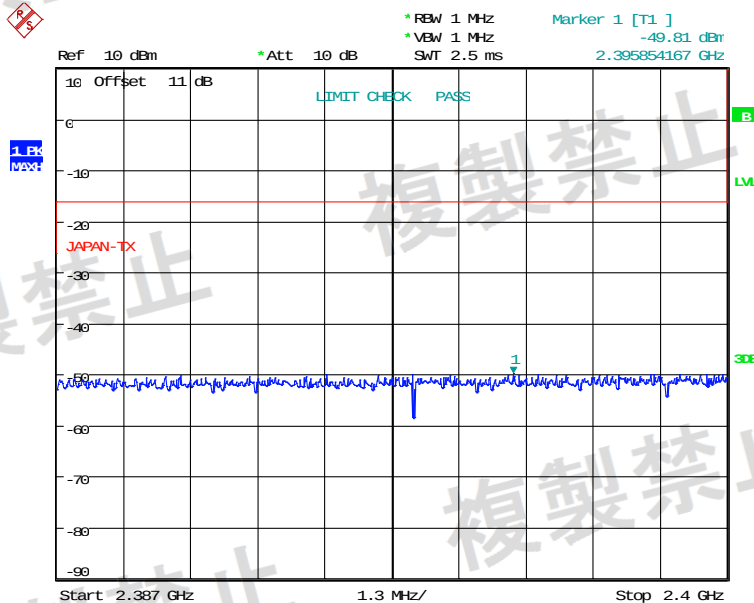
CONDUCTED SPURIOUS EMISSION TX 2441MHz 5.5V
Date: 10.SEP.2023 17:35:06



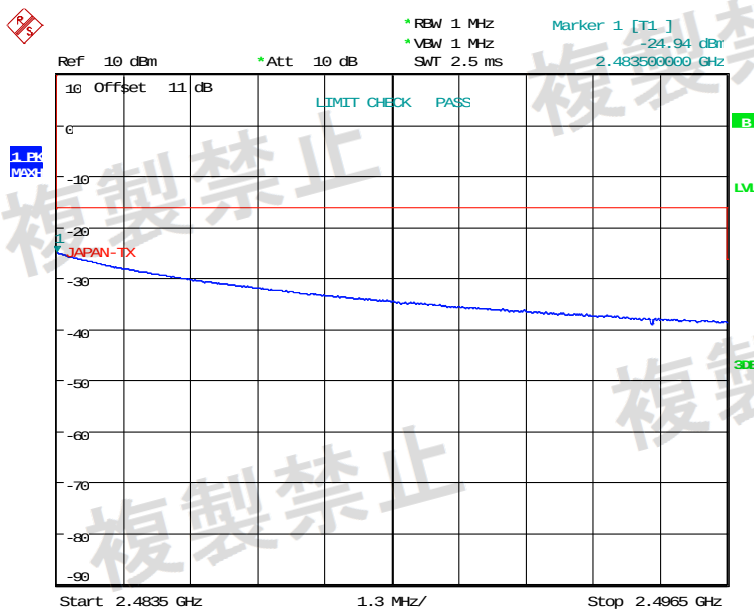
CONDUCTED SPURIOUS EMISSION TX 2480MHz 5V
Date: 10.SEP.2023 17:36:14



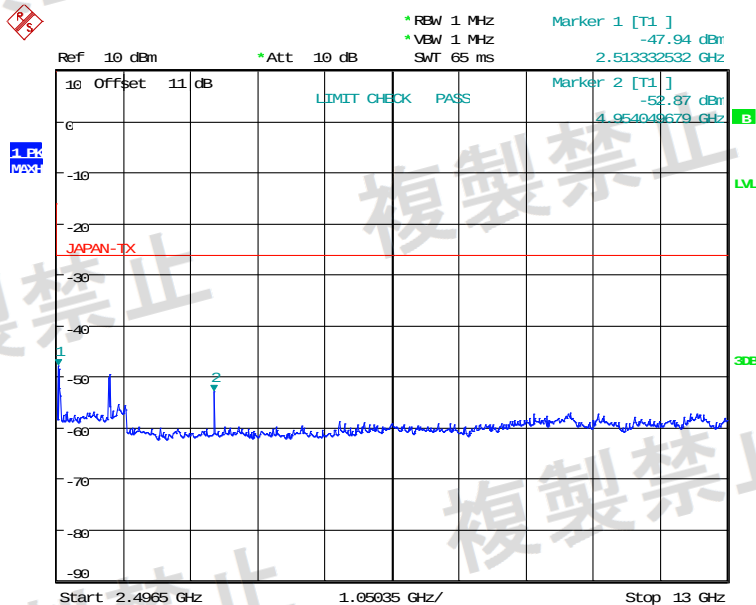
CONDUCTED SPURIOUS EMISSION TX 2480MHz 5V
Date: 10.SEP.2023 17:41:34



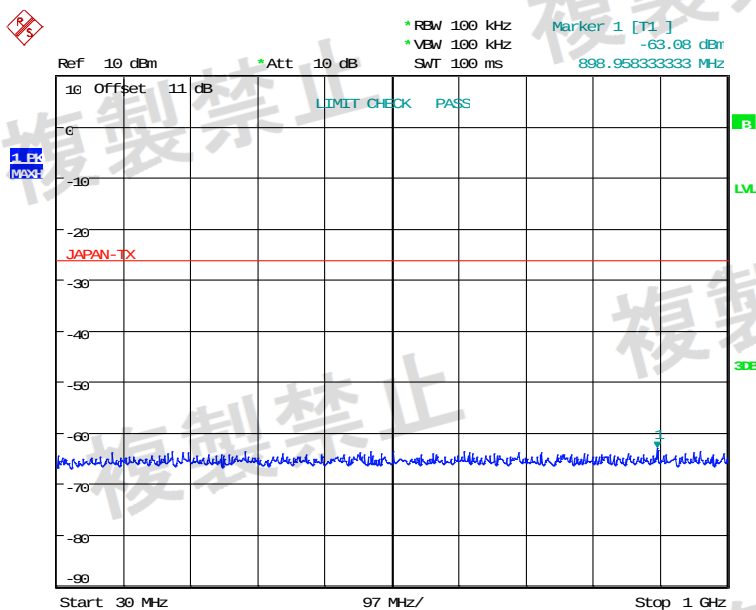
CONDUCTED SPURIOUS EMISSION TX 2480MHz 5V
Date: 10.SEP.2023 17:52:39



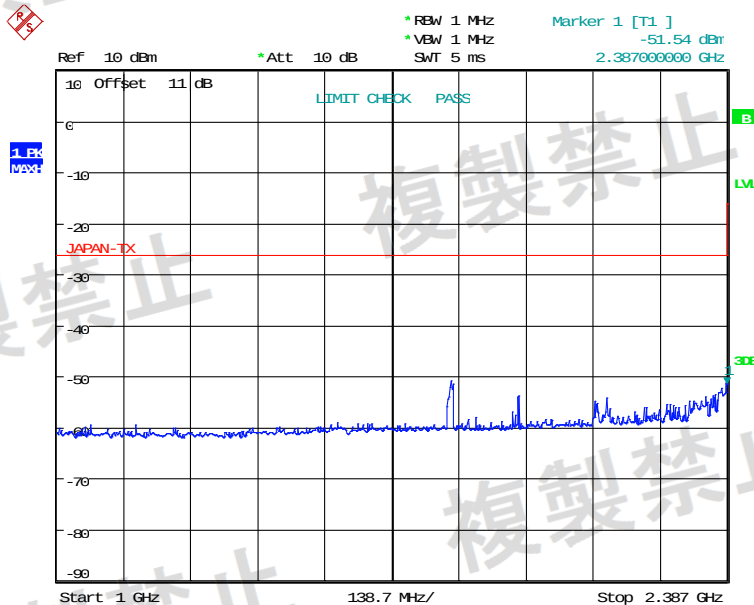
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Date: 10.SEP.2023 18:05:16



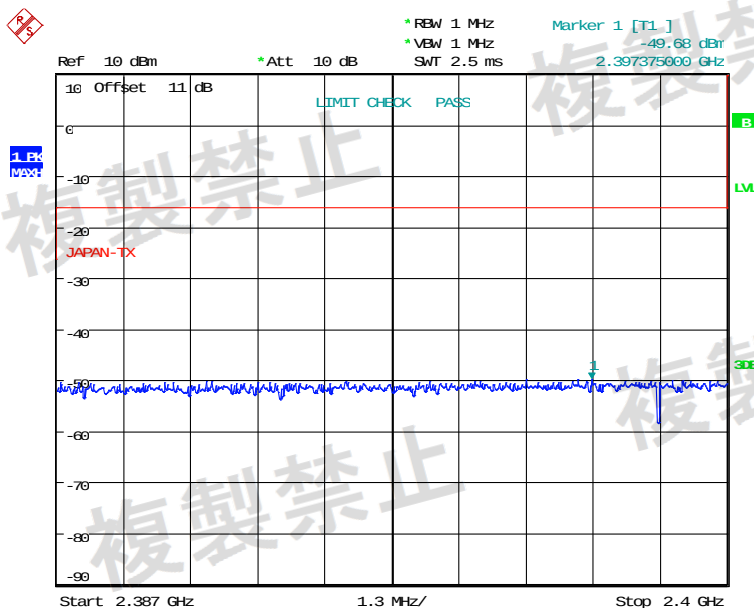
CONDUCTED SPURIOUS EMISSION TX 2480MHz 5V
Date: 10.SEP.2023 18:10:32



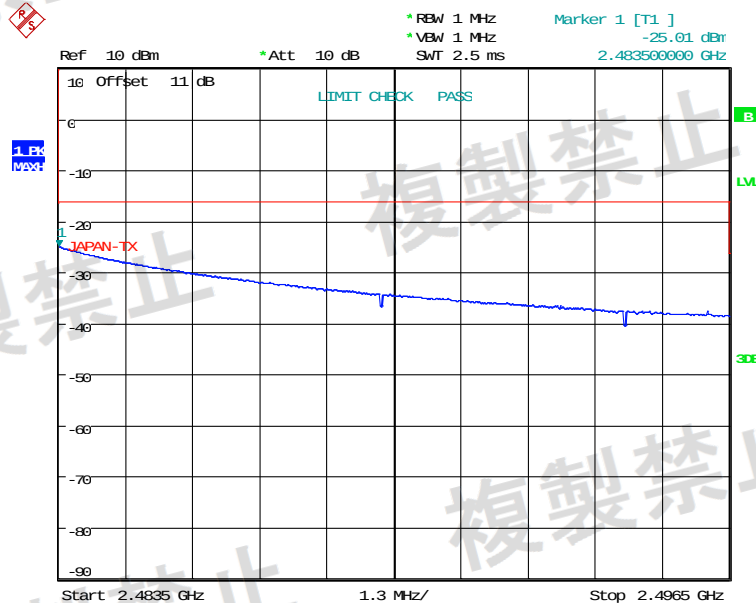
CONDUCTED SPURIOUS EMISSION TX 2480MHz 4.5V
Date: 10.SEP.2023 17:35:54



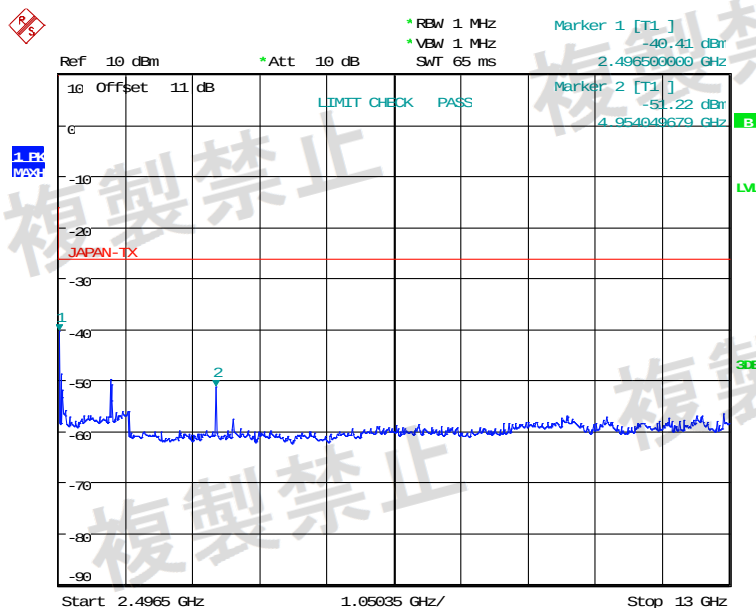
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Date: 10.SEP.2023 17:44:43



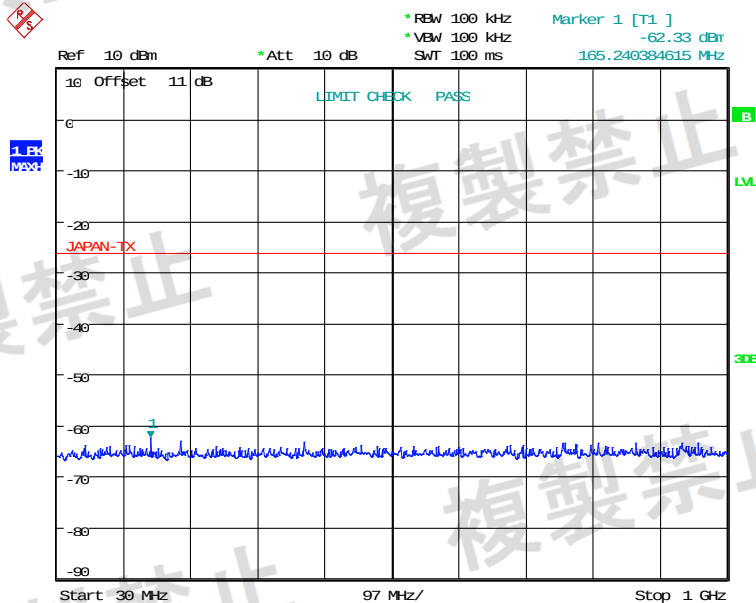
CONDUCTED SPURIOUS EMISSION TX 2480MHz 4.5V
Date: 10.SEP.2023 17:49:23



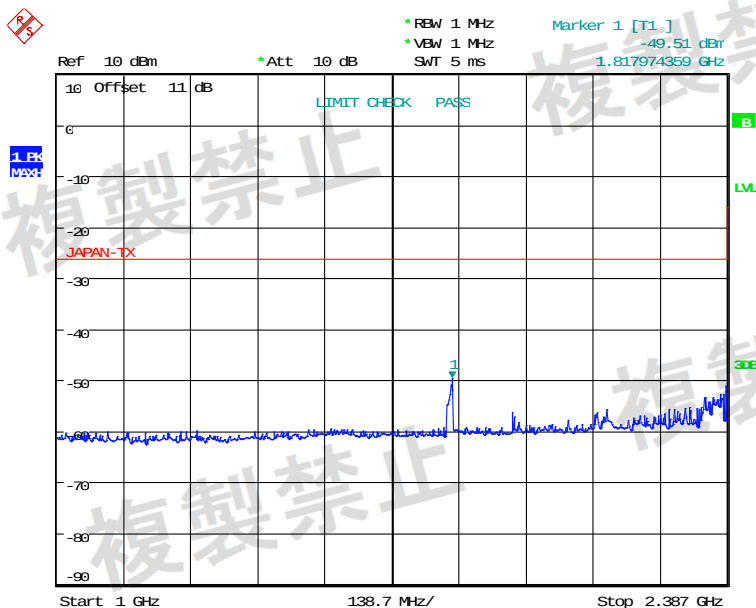
CONDUCTED SPURIOUS EMISSION TX 2480MHz 4.5V
Date: 10.SEP.2023 18:09:33



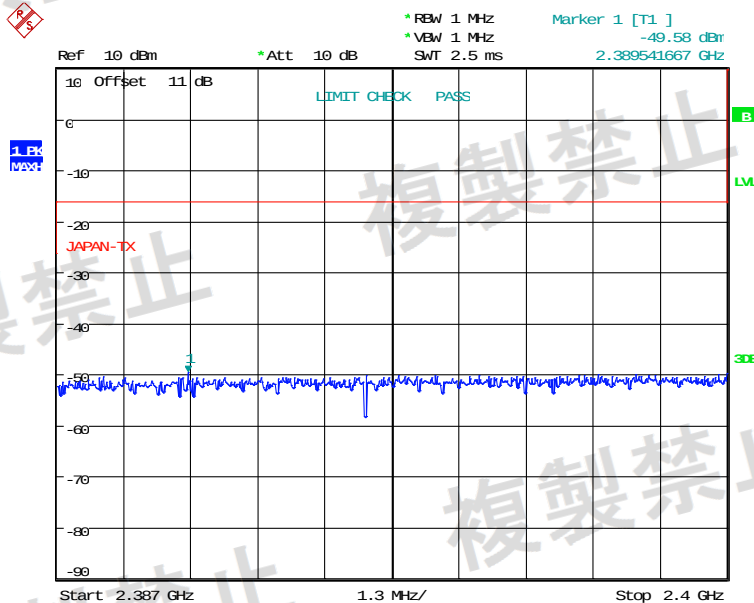
CONDUCTED SPURIOUS EMISSION TX 2480MHz 4.5V
Date: 10.SEP.2023 18:10:10



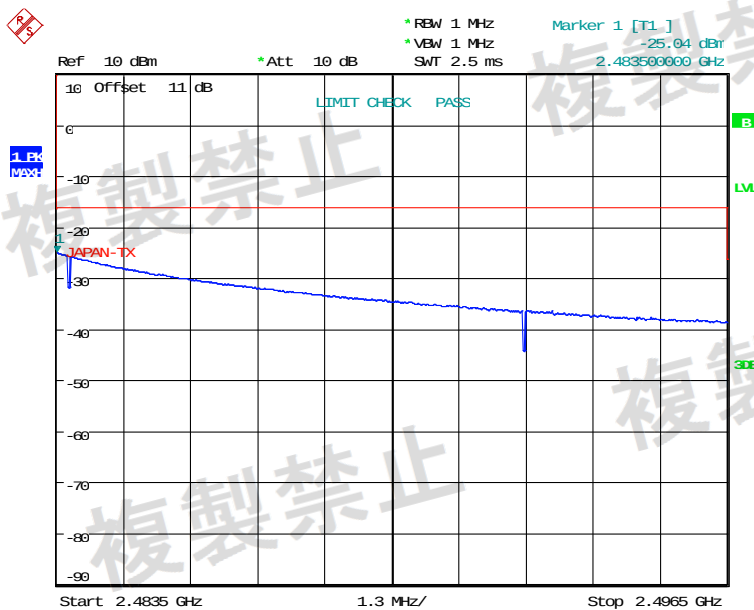
CONDUCTED SPURIOUS EMISSION TX 2480MHz 5.5V
Date: 10.SEP.2023 17:36:32



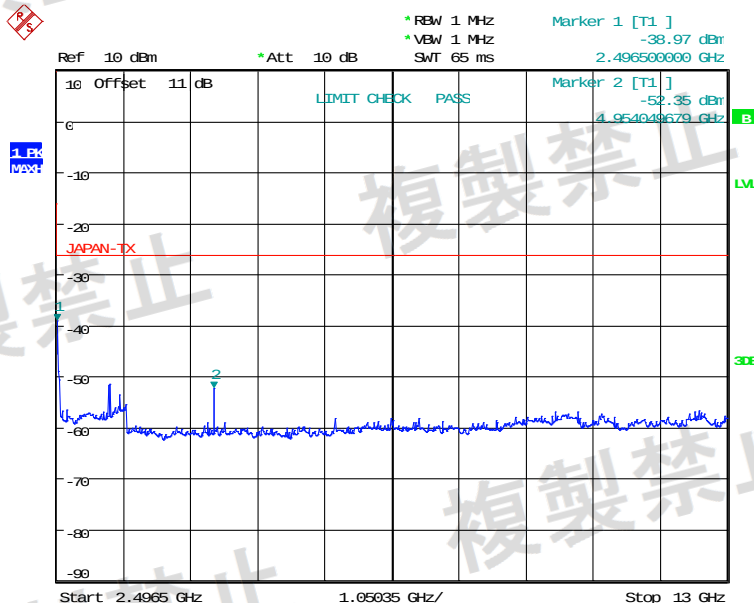
CONDUCTED SPURIOUS EMISSION TX 2480MHz 5.5V
Date: 10.SEP.2023 17:38:53



CONDUCTED SPURIOUS EMISSION TX 2480MHz 5.5V
Date: 10.SEP.2023 17:55:53



CONDUCTED SPURIOUS EMISSION TX 2480MHz 5.5V
Date: 10.SEP.2023 18:00:37



CONDUCTED SPURIOUS EMISSION TX 2480MHz 5.5V
Date: 10.SEP.2023 18:11:17

Explanation: ./.

Limits:

Transmitting operating	Operating frequency 2400 – 2483 MHz: Below 2387MHz : 2.5μW/MHz(-26 dBm) 2387 to 2400MHz : 25μW/MHz (-16 dBm) 2483.5 through 2496.5MHz : 25μW/MHz Over 2496.5MHz : 2.5μW/MHz
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Test equipment used: ETSTW-RE 050, ETSTW-RE 055



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3.6 Antenna Power

Test date: September 10, 2023

Temperature: 24.7 °C

Humidity: 55.8 %

Tester: Sora

Mode	Frequency	Voltage(V)		Power (mW)	Limit (mW)
2.4G	2403 MHz	Normal	5	0.87	10
		Low	4.5	0.87	10
		High	5.5	0.87	10
	2441 MHz	Normal	5	0.79	10
		Low	4.5	0.80	10
		High	5.5	0.79	10
	2480 MHz	Normal	5	0.80	10
		Low	4.5	0.80	10
		High	5.5	0.80	10

Explanation: ./.

Tolerance based on rated output power 0.8 mW	
Rated output power	Tolerance
0.87 mW	8.75 %
0.79 mW	-1.25 %

Limits:

Under all test conditions	Conducted	(1) FH, FH+DS, FH+OFDM3mW/MHz (used in the range of 2427-2470.75MHz)
		(2) Other than (1) of DS : 10mW/MHz
		(3) Other than (1) of OFDM Occupied bandwidth $\leq$ 26MHz : 10mW/MHz 26MHz < Occupied bandwidth $\leq$ 38MHz : 5mW/MHz
		(4) Other than (1), (2) & (3) : 10mW
		Tolerance: +20%,-80%

Test equipment used: ETSTW-RE 050, ETSTW-RE 073, ETSTW-RE 074



3.7 E.I.R.P.

A represents the value determined by dividing an equivalent isotropically radiated power by the value obtained by applying an antenna power with the mean power of 10 mW to the transmitting antenna with its absolute gain being 2.14 dBi, and shall be 1 when it is lower than 1.

Test date: September 10, 2023

Temperature: 24.7 °C

Humidity: 55.8 %

Tester: Sora

Mode	Frequency	Voltage(V)		Power (dBm)	Antenna gain (dBi)	EIRP (dBm)	Limit (dBm)
2.4 G	2403 MHz	Normal	5	-0.59	-1.5	-2.09	12.14
		Low	4.5	-0.6	-1.5	-2.1	12.14
		High	5.5	-0.6	-1.5	-2.1	12.14
	2441 MHz	Normal	5	-1.01	-1.5	-2.51	12.14
		Low	4.5	-0.99	-1.5	-2.49	12.14
		High	5.5	-1.01	-1.5	-2.51	12.14
	2480 MHz	Normal	5	-0.96	-1.5	-2.46	12.14
		Low	4.5	-0.96	-1.5	-2.46	12.14
		High	5.5	-0.96	-1.5	-2.46	12.14

Explanation: Antenna gain less than 2.14 dBi, EIRP results passed.

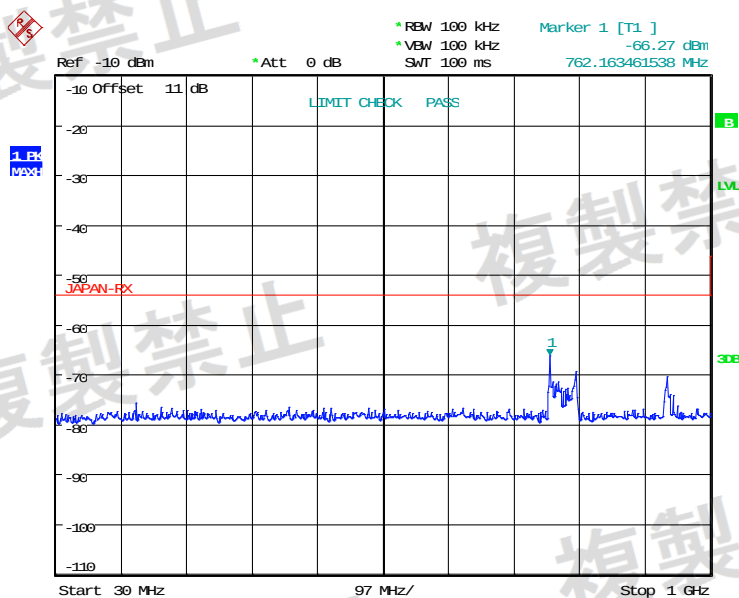
3.8 Spurious emission receiver

Test date: September 10, 2023

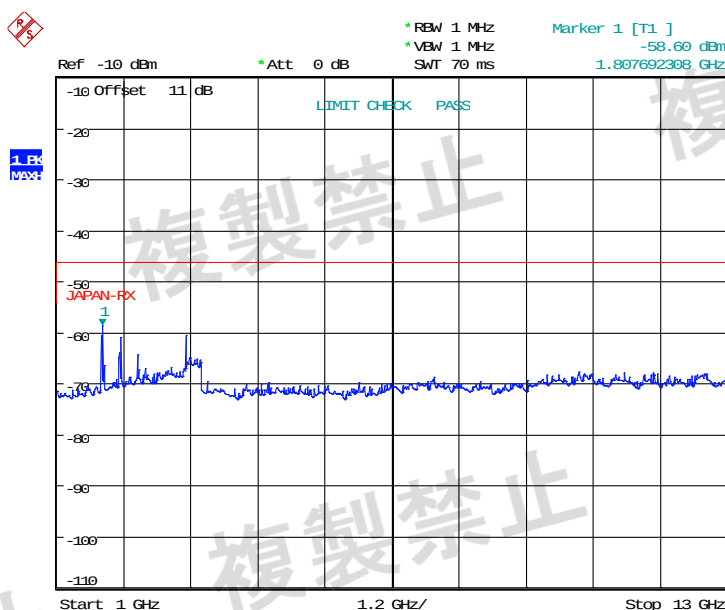
Temperature: 24.7 °C

Humidity: 55.8 %

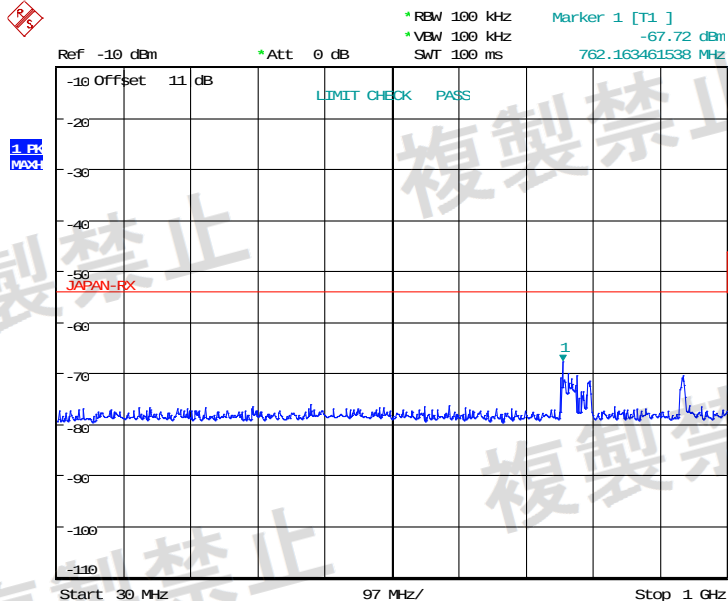
Tester: Sora



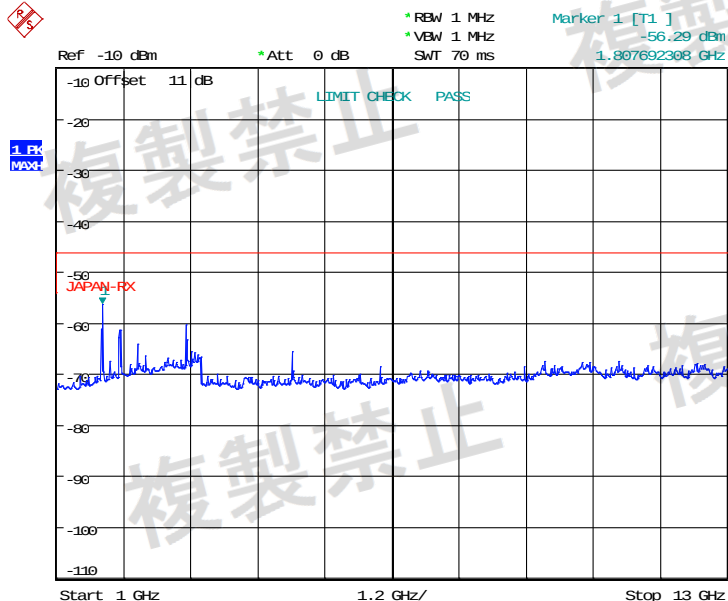
CONDUCTED SPURIOUS EMISSION RX 2403MHz 5V
Date: 10.SEP.2023 15:47:09



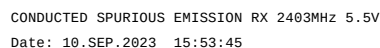
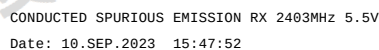
CONDUCTED SPURIOUS EMISSION RX 2403MHz 5V
Date: 10.SEP.2023 15:54:01

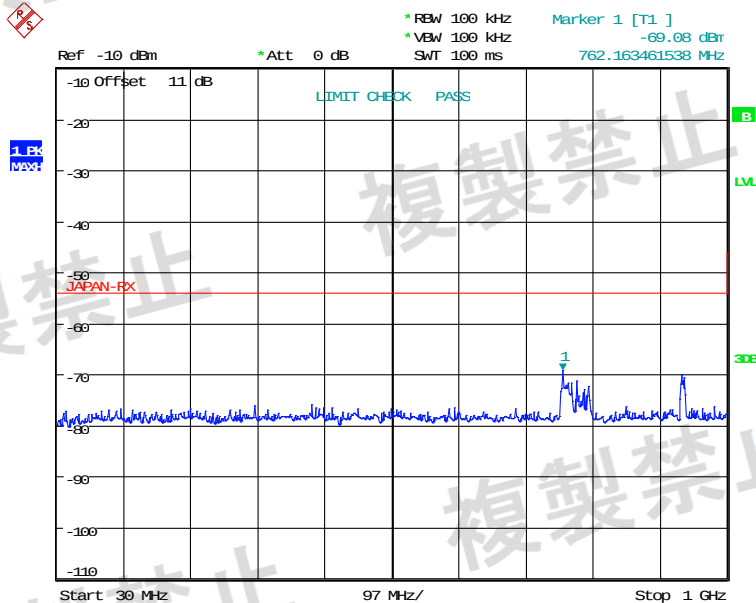


CONDUCTED SPURIOUS EMISSION RX 2403MHz 4.5V
Date: 10.SEP.2023 15:47:28

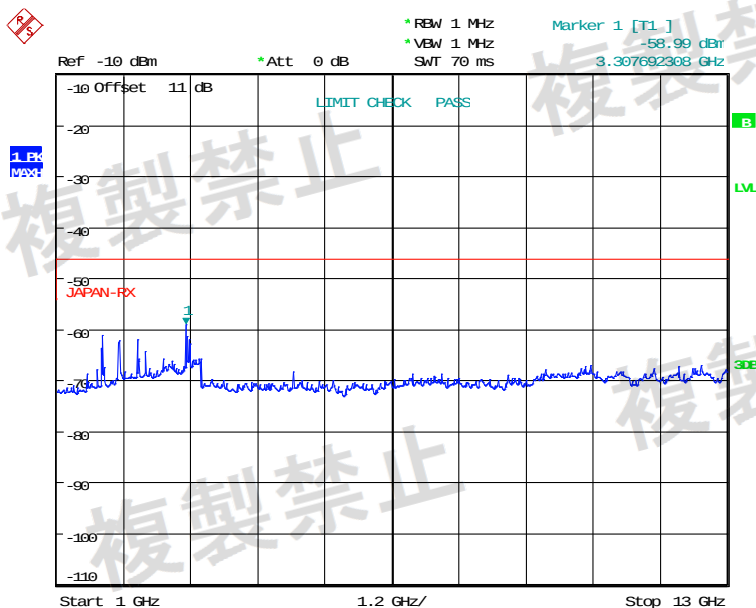


CONDUCTED SPURIOUS EMISSION RX 2403MHz 4.5V
Date: 10.SEP.2023 15:54:45





CONDUCTED SPURIOUS EMISSION RX 2441MHz 5V
Date: 10.SEP.2023 15:48:34

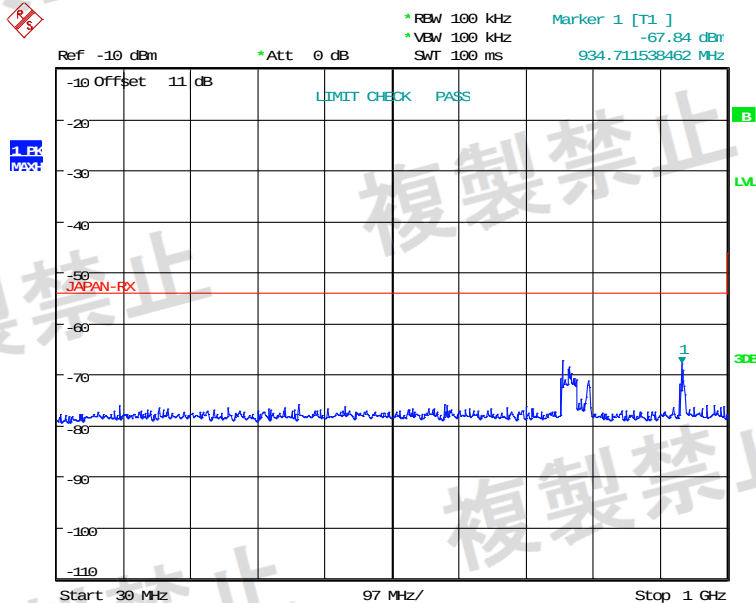


CONDUCTED SPURIOUS EMISSION RX 2441MHz 5V
Date: 10.SEP.2023 15:52:14

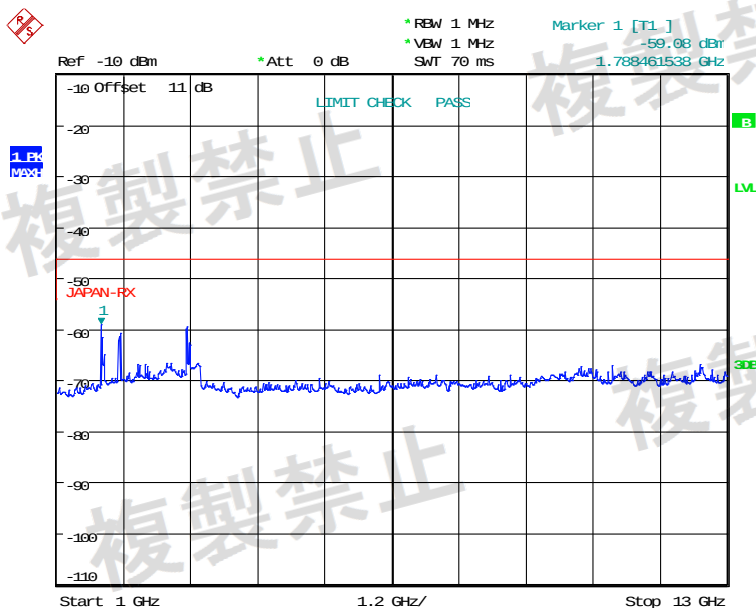


CONDUCTED SPURIOUS EMISSION RX 2441MHZ 4.5V
Date: 10.SEP.2023 15:48:50

CONDUCTED SPURIOUS EMISSION RX 2441MHZ 4.5V
Date: 10.SEP.2023 15:51:51



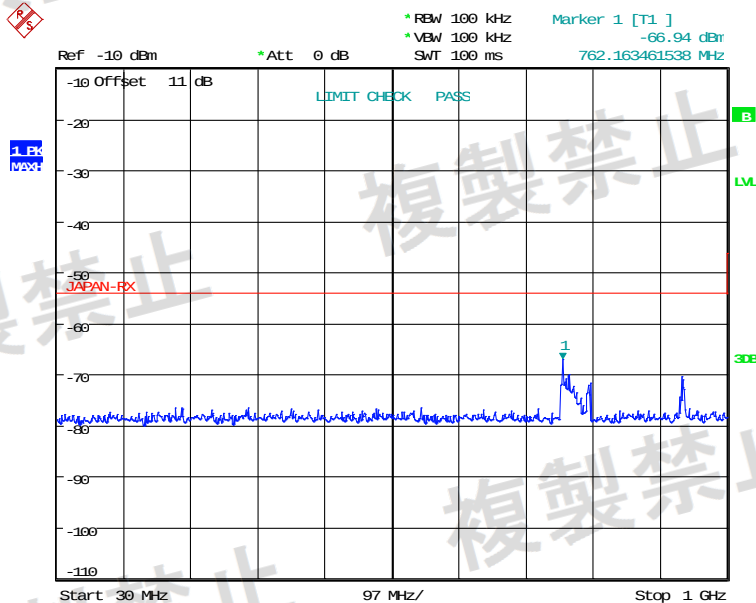
CONDUCTED SPURIOUS EMISSION RX 2441MHz 5.5V
Date: 10.SEP.2023 15:48:18



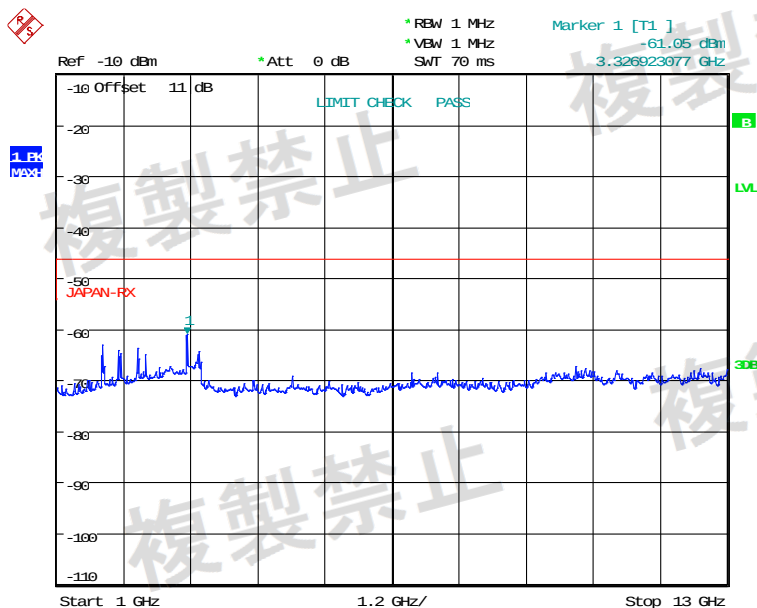
CONDUCTED SPURIOUS EMISSION RX 2441MHz 5.5V
Date: 10.SEP.2023 15:53:10



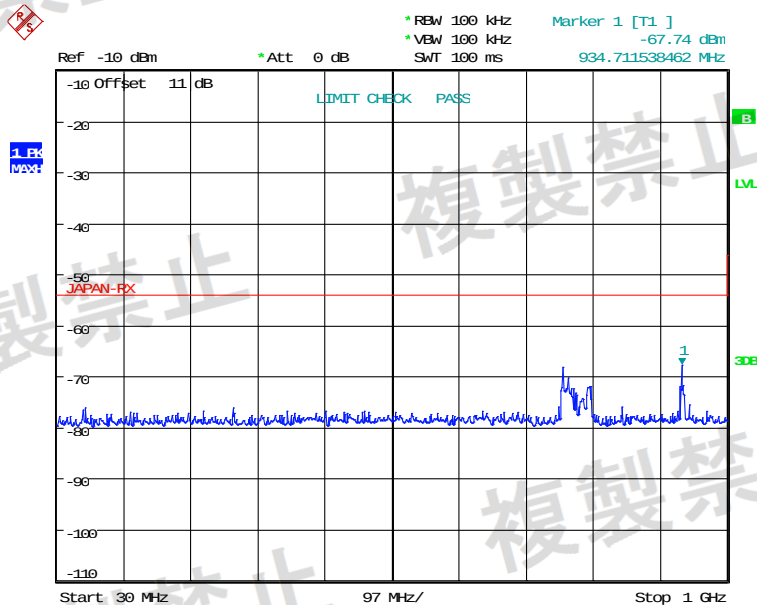
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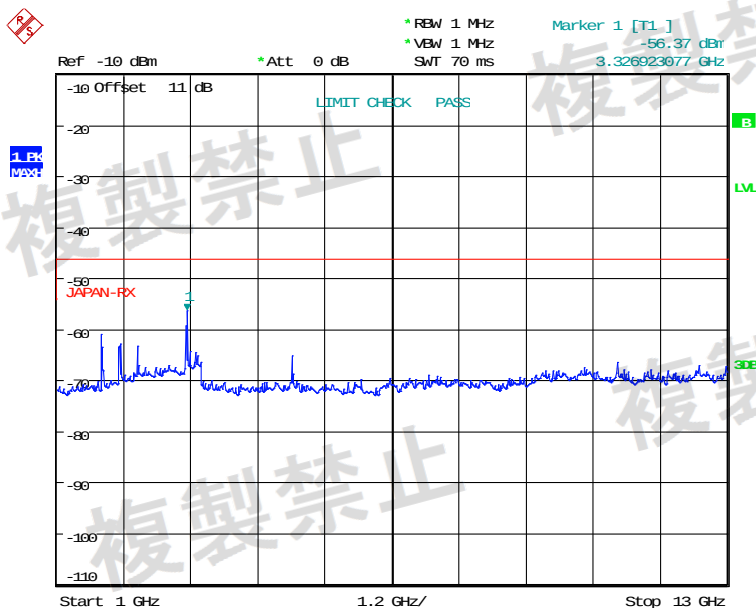
CONDUCTED SPURIOUS EMISSION RX 2480MHz 5V
Date: 10.SEP.2023 15:49:44



CONDUCTED SPURIOUS EMISSION RX 2480MHz 5V
Date: 10.SEP.2023 15:51:17



CONDUCTED SPURIOUS EMISSION RX 2480MHz 4.5V
Date: 10.SEP.2023 15:49:28



CONDUCTED SPURIOUS EMISSION RX 2480MHz 4.5V
Date: 10.SEP.2023 15:51:35



Limit values:

Receiver operating	$\leq 1000 \text{ MHz: } \leq 4\text{nW } (-54 \text{ dBm})$ $\geq 1000 \text{ MHz: } \leq 20\text{nW } (-47 \text{ dBm})$
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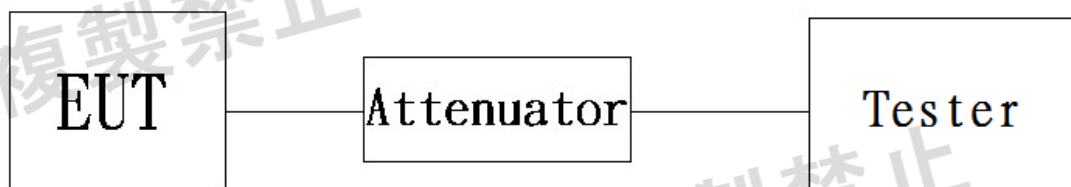
Test equipment used: ETSTW-RE 050, ETSTW-RE 055

3.9 Interference Prevention Function

Test Requirement

Chiefly, the one automatically to transmit and to receive identification code with the wireless equipment of the wireless station used in the same premises.

Test Setup Block Diagram



Test Procedure

1. Set the EUT in communication mode.
2. Open the test software.
3. Confirm the identification code.

Test Results

The identification code is correct.