

TEST REPORT

Reference No..... : WTX26X01011701W
Applicant : FLARM Technology AG
Address : Industriestrasse 49, 6300 Zug, Zug, Switzerland
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : PowerFLARM Flex
Model No..... : FLAFLX10W
Standards : Item 8 of Article 2 Paragraph 1
Date of Receipt sample : 2026-01-14
Date of Test..... : 2026-01-15 to 2026-03-31
Date of Issue : 2026-04-03
Test Report Form No. : WTX_Item 8_2_1W
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

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Report version

Version No.	Date of issue	Description
Rev.00	2026-04-03	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	PowerFLARM Flex
Trade Name:	/
Model No.:	FLAFLX10W
Adding Model(s):	/
Rated Voltage:	DC Port: DC5V Battery:DC3.7V
Battery Capacity:	/
Device Category:	Mobile device
Software Version:	1.0
Hardware Version:	1.0
Note: The sample information is provided by the customer.	

Items	Description
Rated Output Power:	20mW
Frequency Range:	920.5~923.5MHz(the simultaneous use unit channel: n=1)
Modulation:	FSK
Antenna Type:	Internal FLARM Antenna
Antenna Gain:	1.80dBi
Note: 1: The Antenna Gain is provided by the customer and can affect the validity of results. 2: The data provided by the customer and can affect the validity of results. For more information refer to the circuit diagram form and the user's manual.	

1.2 Test Standards

The objective is to determine compliance with Item 8 of Article 2 Paragraph 1 of the Certification Ordinance for 920MHz-band 802.11ah equipment for specified low power radio station.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in increasing or decreasing the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with test method for radio equipment specified in MIC public notice 88:2004, annex 22 for certification.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted with Low Channel and middle, High Channel, accordingly in reference to the Operating Instructions.

1.4 Test Facility

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The RF sample was used for the purpose of the measurements. All testing was performed under the maximum output power condition, and measured its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	922.4MHz	Transmission

Accessories Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

EUT Cable List and Details			
Cable Description	Cable Description	Cable Description	Cable Description
/	/	/	/

1.6 Test Conditions

Supply Voltage					
	supply power V	module input power V	Rated module power V	Tolerance (%)	
Normal	3.7	3.3	3.3		
+10%	4.07	3.3	3.3		0
-10%	3.33	3.3	3.3		0
Others					
Temperature (°C)		20-25			
Relative humidity		51 %.			
ATM Pressure:		1019 mbar			
Note 1: When the input voltage is reduced or increased by 10%, the regulator voltage changes of less than 1%. So the following test items are conducted in the normal voltage.					

1.7 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	9kHz-6GHz	$\pm 0.57\text{dB}$
Frequency Tolerance	9kHz-6GHz	$\pm 1 \times 10^{-7}$
Spreading Bandwidth	9kHz-6GHz	$\pm 3\%$
Occupied Bandwidth	9kHz-6GHz	$\pm 0.015\text{MHz}$
Transmitter Spurious Emissions	9kHz-25GHz	$\pm 2.76\text{dB}$
Radiated Spurious Emissions chamber A	@9kHz to 30MHz	$\pm 3.0\text{dB}$
	@30MHz to 1GHz	$\pm 5.70\text{dB}$
	@1GHz to 6GHz	$\pm 5.88\text{dB}$
	@6GHz to 18GHz	$\pm 5.96\text{dB}$
	@18GHz to 40GHz	$\pm 6.12\text{dB}$
Radiated Spurious Emissions chamber B	@30MHz to 1GHz	$\pm 5.36\text{dB}$
Radiated Spurious Emissions chamber C	@9kHz to 30MHz	$\pm 3.0\text{dB}$
	@30MHz to 1GHz	$\pm 5.28\text{dB}$
	@1GHz to 6GHz	$\pm 5.56\text{dB}$
	@6GHz to 18GHz	$\pm 5.72\text{dB}$
	@18GHz to 40GHz	$\pm 6.12\text{dB}$

1.8 Test Equipment List and Details

2025 Equipment List

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date	Test Methods
Vector Signal Generator	Agilent	N5182A	MY47070202	2025-02-23	2026-02-22	
Power Sensor	Agilent	U2021XA	MY55160007	2025-02-23	2026-02-22	
Power Sensor	Agilent	U2021XA	MY54240001	2025-02-23	2026-02-22	
Spectrum Analyzer	Agilent	N9020A	US47140102	2025-02-23	2026-02-22	JJF 1396-2013
Signal Generator	Agilent	83752A	3610A01453	2025-02-23	2026-02-22	JJG 173-2003
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2025-02-23	2026-02-22	JJF 1396-2013 GB/T6113.101
Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2025-02-23	2026-02-22	JJF 1396-2013
Universal Radio Communication Tester	Rohde & Schwarz	CMW500	148650	2025-02-23	2026-02-22	JJF 1177-2007 JJF 1276-2011 JJF 1131-2005 JJF 1065-2000
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285677	2025-02-23	2026-02-22	
RF Control Unit	Tonscend	JS0806-2	24F80620870	2025-02-23	2026-02-22	
Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22	
Remark: (a) Calibration conducted by the National institute of information and communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph in JRL. (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992). (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1). (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c). The calibration corresponds to c described above. From JRL Article 24-2, paragraph 4, Item 2 Notice: calibration duration for above equipments is 1 year						

2026 Equipment List

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date	Test Methods
MXG Vector Signal Generator	Agilent	N5182A	MY47420108	2026-02-06	2027-02-05	
Power Sensor	Keysight Technologies	U2021XA	MY55160007	2026-02-06	2027-02-05	
Power Sensor	Agilent	U2021XA	MY54240001	2026-02-06	2027-02-05	
MXA Signal Analyzer	Agilent	N9020A	US47140102	2026-02-06	2027-02-05	JJF 1396-2013
Signal Generator	Agilent	83752A	3610A01453	2026-02-06	2027-02-05	JJG 173-2003
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2026-02-05	2027-02-04	JJF 1396-2013 GB/T6113.101
Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2026-02-05	2027-02-04	JJF 1396-2013
Universal Radio Communication Tester	Rohde & Schwarz	CMW500	1201.0002k 50-148650-FB	2026-02-06	2027-02-05	JJF 1177-2007 JJF 1276-2011
				2026-03-25	2027-03-24	JJF 1131-2005 JJF 1065-2000
MXA signal Analyzer	KEYSIGHT	N9020A	MY51285678	2026-02-06	2027-02-05	
RF Control Unit	Tonscend	JS0806-2	/	2026-02-06	2027-02-05	
RF ATTENUATOR	FEIYANG	N-JK	/	2026-02-06	2027-02-05	

Remark:

- (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph in JRL.
- (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).
- (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c).

The calibration corresponds to c described above.

From JRL Article 24-2, paragraph 4, Item 2

Notice: calibration duration for above equipments is 1 year

Reference No.: WTX26X01011701W

1.9 Calibration Information

GUANGZHOU LISAI METROLOGY & TEST CO.,LTD.

No.8.South Street Shi ji institute Guangzhou.Guangdong.China

2. SUMMARY OF TEST RESULTS

	DESCRIPTION OF TEST	RESULT
Item 8	Tolerance of frequency	Compliant
Item 8	Tolerance of occupied bandwidth	Compliant
Item 8	Spurious emissions and unwanted emissions	Compliant
Item 8	Antenna power	Compliant
Item 8	Tolerance of adjacent channel leakage power	Compliant
Item 8	Limit of secondary radiated emissions	Compliant
Item 8	Transmission time Restriction	Compliant
Item 8	Carrier sensing Function	Compliant
Item 8	Interference prevention function	N/A

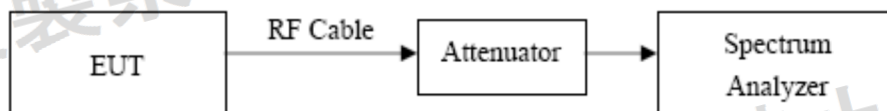
N/A: not applicable.

3. TOLERANCE OF FREQUENCY

3.1 Standard Applicable

According to Item 8 of Article 2 Paragraph 1, the maximum permit tolerance of frequency is 20ppm.

3.2 Test Setup Block Diagram



3.3 Test Procedure

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=10 kHz, Span = 100 kHz.
- 4 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
5. Repeat above procedures until all frequency measured was complete.

3.4 Summary of Test Results/Plots

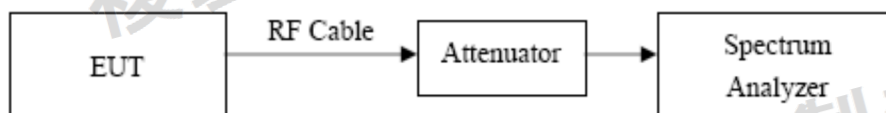
Please refer to Appendix A

4. OCCUPIED BANDWIDTH

4.1 Standard Applicable

According to Item 8 of Article 2 Paragraph 1 Occupied bandwidth: less than $200 \text{ kHz} \cdot n$ (n is the simultaneous use unit channel)

4.2 Test Setup Block Diagram



4.3 Test Procedure

(1) Set up the spectrum analyzer as the follows:

Center frequency: Test frequency

Sweep bandwidth: 2 to 3.5 times of allowance

Resolvable bandwidth: less than 3% of allowance

Video bandwidth: Equivalent to resolvable bandwidth

Sweep time: Minimum time by which measuring accuracy is assured (In case of burst wave, 1 burst shall be contained per 1 sample)

Sampling points: More than 400 points

Sweep mode: Continuous sweeping

Detection mode: Positive peak

Display mode: Maximum holding

(2) Repeat the sweeping till no change was observed on the display and enter all values of data point to the computer as array variable.

(3) About all data, convert dB value to antilogarithm of electric power dimension.

(4) Add up the electric power of all data and record it as "Sum total of electric power".

(5) Adding up data in order from the lowest frequency to upper frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Lowest limit frequency".

(6) Adding up data in order from the highest frequency to lower frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Highest limit frequency".

(7) Repeat above procedures until all frequency measured was complete.

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4.4 Summary of Test Results/Plots

Please refer to Appendix B

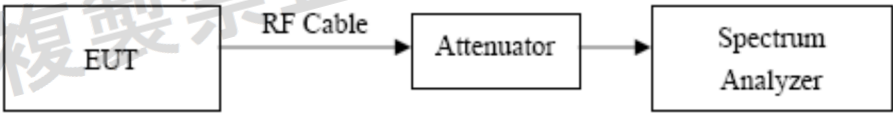
5. SPURIOUS EMISSIONS AND UNWANTED EMISSIONS

5.1 Standard Applicable

According to Item 8 of Article 2 Paragraph 1, the transmitter spurious emissions shall not exceed the following limit:

$\leq 710\text{MHz}$: -36dBm/100kHz $710\text{MHz} <, \leq 900\text{MHz}$: -55dBm/1MHz $900\text{MHz} <, \leq 915\text{MHz}$: -55dBm/100kHz $915\text{MHz} <, \leq 930\text{MHz}^*$: -36dBm/100kHz $930\text{MHz} <, \leq 1000\text{MHz}$: -55dBm/100kHz $1000\text{MHz} <, \leq 1215\text{MHz}$: -45dBm/1MHz $1215\text{MHz} <$: -30dBm/1MHz
*Unt channel 200kHz BW : except "200 + 100 x n kHz" from Cf *Unt channel 100kHz BW : except "100 + 50 x n kHz" from Cf

5.2 Test Setup Block Diagram



5.3 Test Procedure

- (1) A spectrum in case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) The transmitter shall be operated at the highest output power, or, in the case of equipment able to operate at more than one power level, at the lowest and highest output powers;
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (6) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (7) Repeat above procedures until all frequency measured was complete.

5.4 Summary of Test Results/Plots

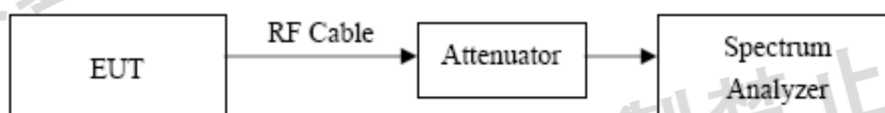
Please refer to Appendix C

6. ANTENNA POWER

6.1 Standard Applicable

According to Item 8 of Article 2 Paragraph 1, Antenna power it shall be 0.02W or less and deviation of power shall be within a range of +20%, -80% of Tolerance for antenna power.

6.2 Test Setup Block Diagram



6.3 Test Procedure

A spectrum analyzer can be used instead of a pointed power meter. In this case, the spectrum analyzer is set as follows.

Center frequency: Test frequency

Sweep bandwidth: 2 to 3.5 times of allowance

Resolution bandwidth: 3 MHz

Video bandwidth: Over three times the resolution bandwidth

Sweep time: Minimum time for which measurement accuracy is guaranteed (more than 1 burst continuous time per sample for burst waves)

Sampling points: More than 400 points

Sweep mode: Continuous sweeping

Detection mode: Positive peak

Display mode: Maximum holding

6.4 Summary of Test Results/Plots

Please refer to Appendix E

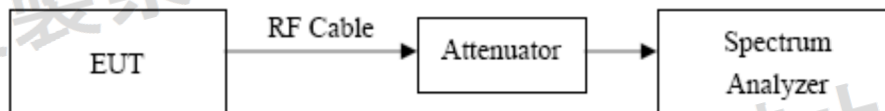
Note: Peak power would be the worst-case scenario, representing the product's compliance.

7. ADJACENT CHANNEL LEAKAGE POWER

7.1 Standard Applicable

According to Item 8 of Article 2 Paragraph 1, The Adjacent channel leakage power shall not exceeded the limit: Adjacent unit channels:-15dBm or less

7.2 Test Setup Block Diagram



7.3 Test Procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The center frequency of the channel under test.

Resoluble bandwidth: less than 3% of bandwidth

Video bandwidth: Equivalent to resolvable bandwidth

Span $\geq 1.5 \times$ bandwidth

Detector: Peak.

Trace Mode: Max Hold.

7.4 Summary of Test Results/Plots

Please refer to Appendix F

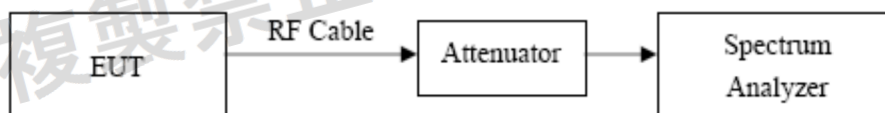
8. LIMIT OF SECONDARY RADIATED EMISSIONS

8.1 Standard Applicable

According to Item 8 of Article 2 Paragraph 1, the receiver spurious emissions shall not exceed the following limit:

$\leq 710\text{MHz}$	: -54dBm/100kHz
$710\text{MHz} <, \leq 900\text{MHz}$	: -55dBm/1MHz
$900\text{MHz} <, \leq 915\text{MHz}$	: -55dBm/100kHz
$915\text{MHz} <, \leq 930\text{MHz}$	: -54dBm/100kHz
$930\text{MHz} <, \leq 1000\text{MHz}$	: -55dBm/100kHz
$1000\text{MHz} <$	: -47dBm/1MHz

8.2 Test Setup Block Diagram



8.3 Test Procedure

- (1) A spectrum In case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) the transmitter shall be operated at the receiving mode.
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz , and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (6) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (7) Repeat above procedures until all frequency measured was complete.

8.4 Summary of Test Results/Plots

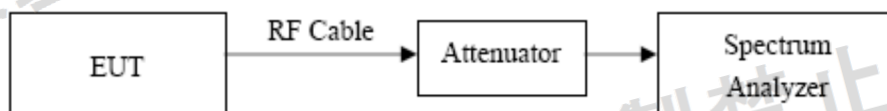
Please refer to Appendix D

9. TRANSMISSION TIME RESTRICTION

9.1 Standard Applicable

According to Item 8 of Article 2 Paragraph 1, the receiver spurious emissions shall not exceed the following limit: Transmission ON: within 0.4 sec; Transmission OFF: over 0.002 sec.

9.2 Test Setup Block Diagram



9.3 Test Procedure

Set up the spectrum analyzer as the follows:

Center frequency: Test frequency

Sweep bandwidth: 0Hz

Resoluble bandwidth: 1MHz

Video bandwidth: Equivalent to resolvable bandwidth

Sweep time: About 10s

Sweep mode: Single sweeping

Detection mode: Positive peak

9.4 Summary of Test Results/Plots

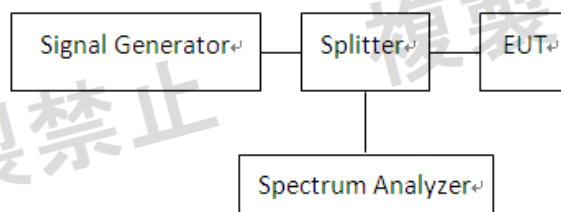
Please refer to Appendix G

10. CARRIER SENSING FUNCTION

10.1 Standard Applicable

- (1) Radio equipment shall check if the interference exists by the career sense procedure before its new transmission.
- (2) Carrier sense time shall be 128 μ s or more.
- (3) Carrier sense level that is amount of received power at all of unit radio channels included in the radio channel to emit shall be -80 dBm at the antenna input. When the carrier sense level is not less than -80 dBm, radio equipment shall not transmit any radio wave.

10.2 Test Setup Block Diagram



10.3 Test Procedure

- (1) SG adjust the frequency as same as the EUT transmitted signal, un-modulation, power level -80dBm, Then turn off the RF signal
- (2) EUT have transmitted the maximum modulation signal and fixed channel
- (3) Setting of the SA following as RBW/VBW: 1/3MHz SPAN: 50MHz Sweep time: Auto continue PK
- (4) SG Signal on EUT shall be stop the transmitted, Then turn off the SG, The EUT shall be continuous transmitted signal.

10.4 Summary of Test Results/Plots

Please refer to Appendix H

APPENDIX SUMMARY

Project No.	WTX26X01011701W	Test Engineer	BAldi zhong
Start date	2026-01-28	Finish date	2026-03-31
Temperature	25℃	Humidity	56%
RF specifications	900MHz		

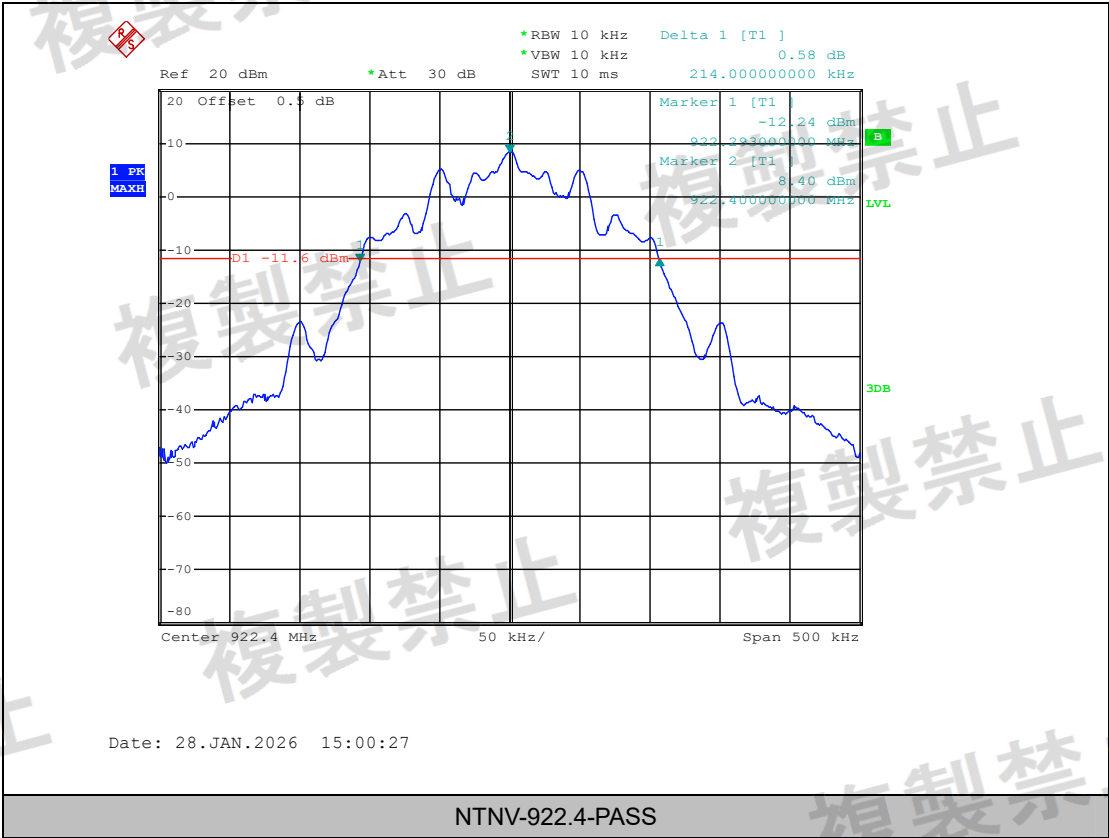
APPENDIX	Description of Test Item	Result
A	Tolerance of Frequency	Compliant
B	Occupied Bandwidth	Compliant
C	Spurious emissions and unwanted emissions	Compliant
D	Limit of secondary radiated emissions	Compliant
E	Antenna Power	Compliant
F	Adjacent channel leakage power	Compliant
G	Transmission time Restriction	Compliant
H	Carrier sensing Function	Compliant

Appendix A: Tolerance of Frequency

Test Result

TestCondition	Frequency [MHz]	Measure Value [MHz]	Result [ppm]	Limit [ppm]	Result
NTNV	922.4	922.4	0.0	±20	PASS

Test Graphs

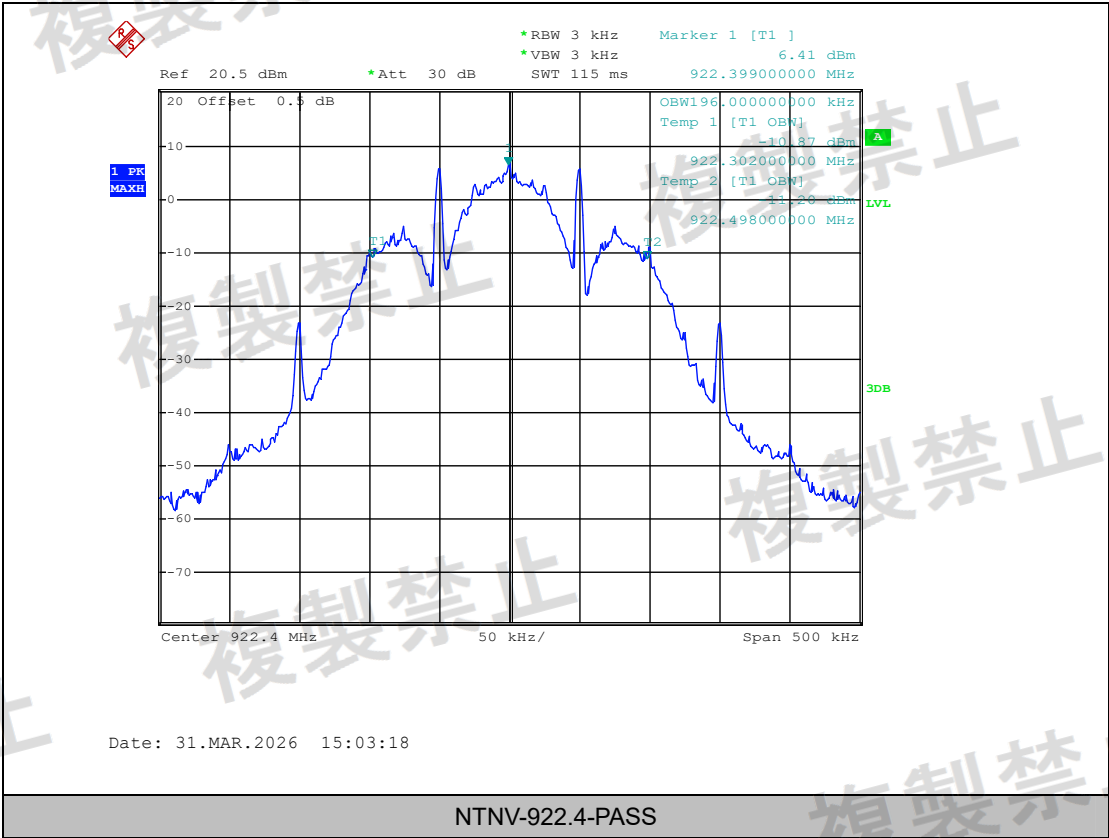


Appendix B: Occupied Bandwidth

Test Result

TestCondition	Frequency [MHz]	Result [MHz]	Limit [MHz]	Result
NTNV	922.4	0.196	≤0.2	PASS

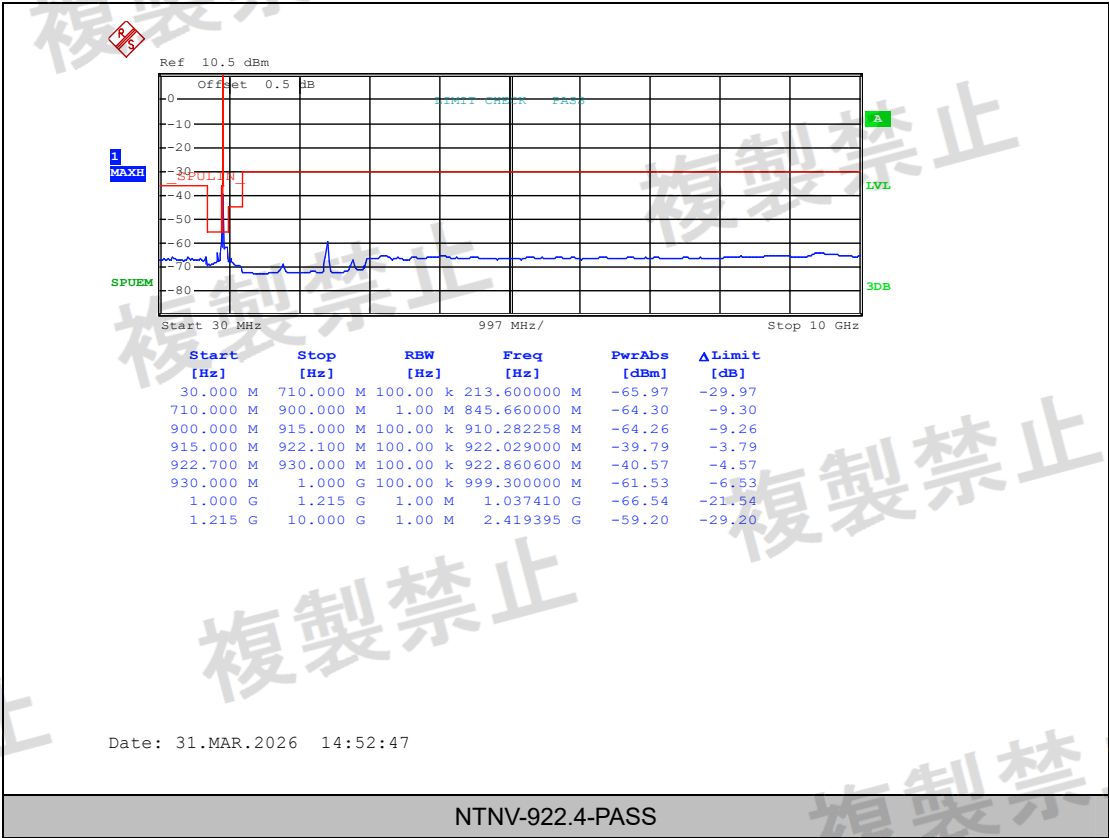
Test Graphs



Appendix C: Spurious emissions and unwanted emissions**Test Result**

Frequency [MHz]	Frequency Range (MHz)	Limit	Result
922.4	30-710	-36dBm/100kHz	Pass
	710-900	-55dBm/1MHz	Pass
	900-915	-55dBm/100kHz	Pass
	915-920.3	-36dBm/100kHz	Pass
	921.7-930	-36dBm/100kHz	Pass
	930-1000	-55dBm/100kHz	Pass
	1000-1215	-45dBm/1MHz	Pass
	1215-10000	-30dBm/1MHz	Pass

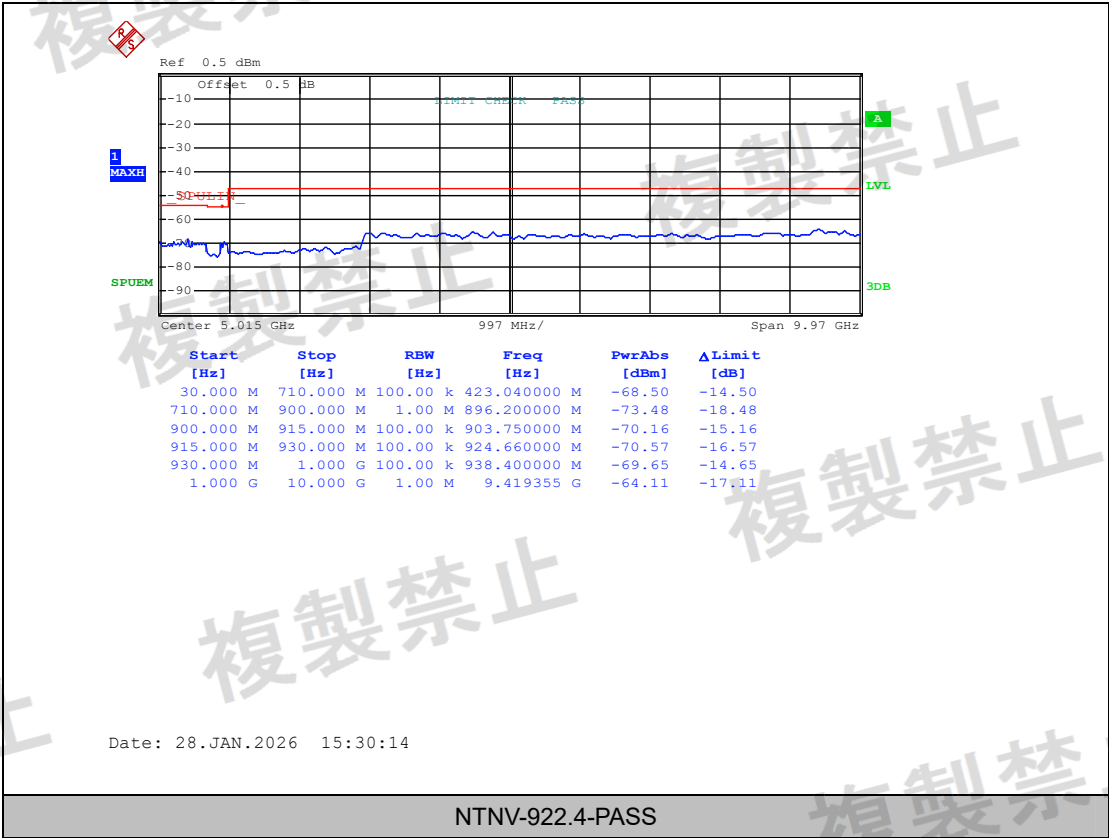
Test Graphs



Appendix D: Limit of secondary radiated emissions**Test Result**

Frequency [MHz]	Frequency Range (MHz)	Limit	Result
922.4	30-710	-54dBm/100kHz	Pass
	710-900	-55dBm/1MHz	Pass
	900-915	-55dBm/100kHz	Pass
	915-930	-54dBm/100kHz	Pass
	930-1000	-55dBm/100kHz	Pass
	1000-10000	-47dBm/1MHz	Pass

Test Graphs



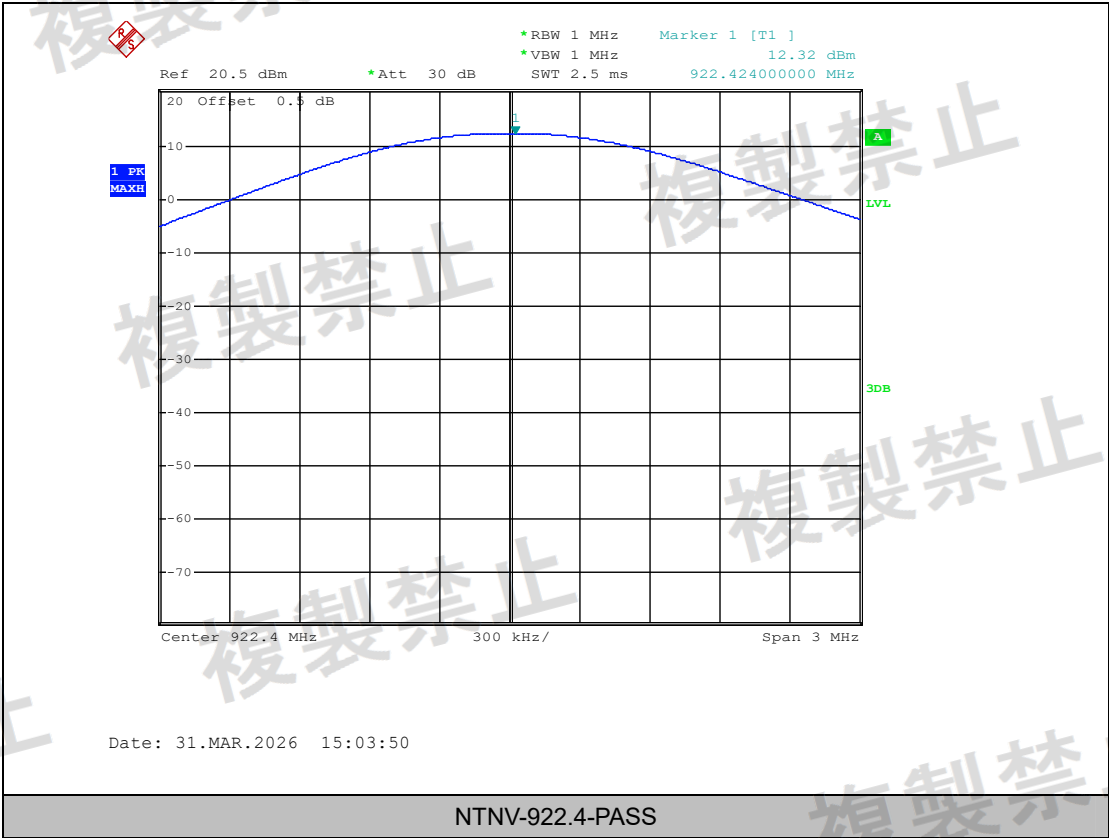
Appendix E: Antenna Power**Test Result**

Test Condition	Frequency [MHz]	Measure Value (dBm)	Result (mW)	Limit (mW)	Result
NTNV	922.4	12.32	17.06	≤20	PASS

Test Condition	Frequency [MHz]	Output Power (mW)	Rated Output Power (mW)	Result (%)	Limit (%)	Result
NTNV	922.4	17.06	20.00	-14.70	-80~+20	PASS

Test Condition	Frequency [MHz]	Measure Value (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
NTNV	922.4	12.32	14.12	≤16	PASS

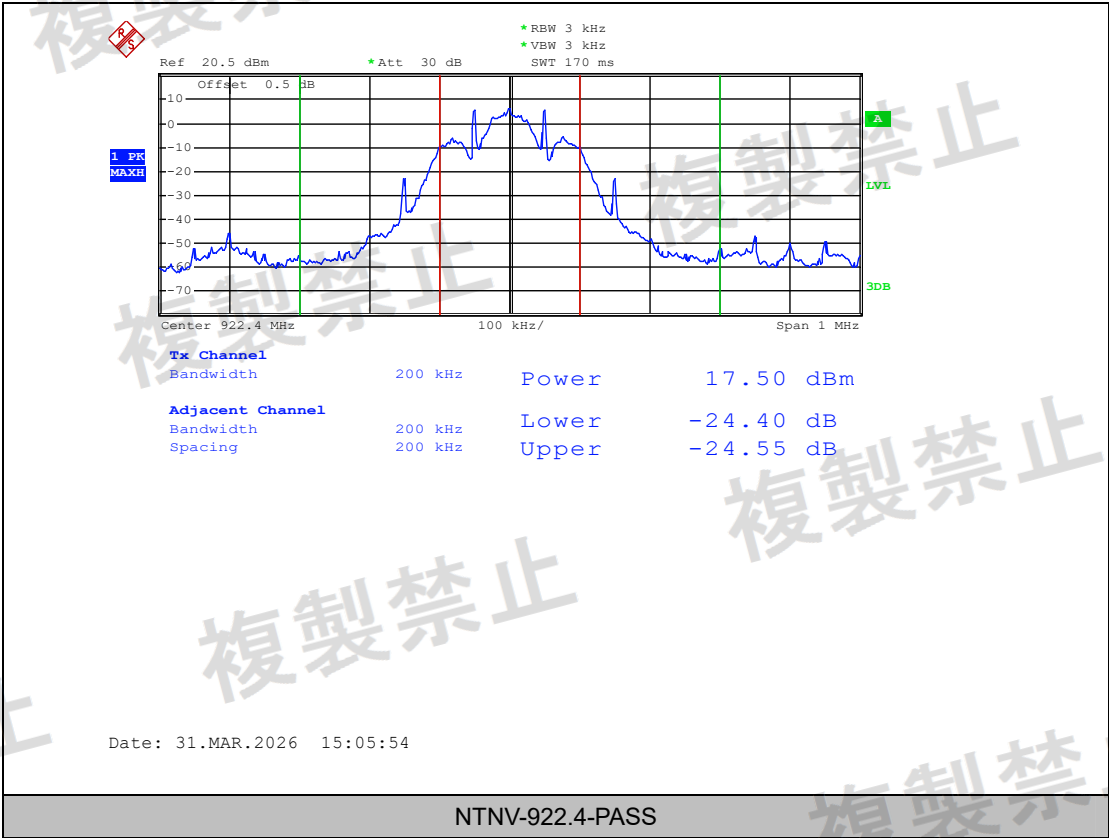
Test Graphs



Appendix F: Adjacent channel leakage power**Test Result**

TestCondition	Frequency [MHz]	Adjacent Channel	Limit [MHz]	Result
NTNV	922.4	Lower	$\leq -15\text{dbm}$	PASS
		Upper	$\leq -15\text{dbm}$	

Test Graphs



Appendix G: Transmission time Restriction**Test Result**

Frequency range (920.5~923.5MHz):

Test Item	Transmission Time Restriction	
Limit	Transmission ON	Transmission OFF
	within 4 sec.	over 0.050 sec.
Measure Value	5.6ms	51ms
Test Result	PASS	

Appendix H: Carrier sensing Function

Test Result

The EUT use 1 unit channel and a transmission starts within 0.002 sec. and transmission time within 0.050 sec. so Carrier sensing function" is unnecessary.

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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