

TEST REPORT

Applicant Name: ONYX INTERNATIONAL INC.
Address: Room 101, Building 4, No. 202 Shiyu Road, Nansha District, Guangzhou City, Guangdong Province, China
Report Number: 2601P93961E-RF-07E

Test Standard (s)

Item 19-3 of Article 2 Paragraph 1

Sample Description

Product Type: E Ink Tablet, ePaper Tablet, Digital Paper, Note-taking Tablet, Digital Writing Tablet, E reader, Paper tablet, eBook reader
Model No.: Go 10.3 (Gen II)
Multiple Model(s) No.: BOOX Go 10.3 (Gen II) Lumi, BOOX Go 10.3 (Gen II) Plus, BOOX Go 10.3 (Gen II) Pro, BOOX Go 10.3 (Gen II) Lite, BOOX Go Color 10.3, BOOX Go Color 10.3 Plus, BOOX Go Color 10.3 Pro
Trade Mark: BOOX
Date Received: 2026-01-05
Issue Date: 2026-03-23

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Wills Yu
RF Engineer

Approved By:

Nancy Wang

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RF Supervisor

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.
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Bay Area Compliance Laboratories Corp. (Shenzhen)

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2601P93961E-RF-07E	Original Report	2026-03-23

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	E Ink Tablet, ePaper Tablet, Digital Paper, Note-taking Tablet, Digital Writing Tablet, E reader, Paper tablet, eBook reader
Tested Model	Go 10.3 (Gen II)
Multiple Model(s)	BOOX Go 10.3 (Gen II) Lumi, BOOX Go 10.3 (Gen II) Plus, BOOX Go 10.3 (Gen II) Pro, BOOX Go 10.3 (Gen II) Lite, BOOX Go Color 10.3, BOOX Go Color 10.3 Plus, BOOX Go Color 10.3 Pro
Frequency Range	5G Wi-Fi: 5250-5350 MHz; 5470-5730 MHz
Modulation Technique	OFDM
Antenna Gain [#]	5250-5350 MHz: 3.78dBi; 5470-5730 MHz: 4.33dBi (It is provided by the applicant)
Nominal Power Supply	DC 3.87V from battery or DC 5V from adapter
Sample serial number	3FHL-3 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A
Note: The Multiple models are electrically identical with the test model except for model name and sales channels. Please refer to the declaration letter [#] for more detail, which was provided by manufacturer.	

Objective

The objective of the manufacturer is to demonstrate compliance with Certification Ordinance Article 2-1-19-3, Radio equipment for 5G band low-power data communications system which uses indoors a radio wave of 5.3GHz band and 5.6G band.

Test Method

DSPR 5GHz 帯小電力データ通信システムの特性試験方法

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

Each test item follows test standards and with no deviation.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

EUT Exercise Software

N/A

Equipment Modifications

N/A

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	PC	Vostro 3690	E569659A9981
Lenovo	LED display	L2364A	U310FZR9
DELL	Keyboard	KB1421	E134780
DELL	Mouse	WM-100	Unknown
Grandstream	Router	GWN7664 (MIC-R: 211-220306)	Unknown
DELL	Notebook	DESKTOP-1630AQ3	9RVYFH2
AMC	adapter	AD-0121200100EU-2	Unknown
Yealink	POE	EAP225	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielded Un-detachable AC cable	1.5	POE	adapter
Unshielded Detachable RJ45 cable	1.0	PC	POE
Unshielded Detachable RJ45 cable	1.0	POE	Router

SUMMARY OF TEST RESULTS

Items	Description of Test	Result
Performance Requirements Check	Initial Channel Availability Check Time (CAC)	Not applicable
	Radar Burst at the Beginning of the CAC	Not applicable
	Radar Burst at the End of the CAC	Not applicable
In-Service Monitoring	Channel Move Time	Compliant
	Channel Closing Transmission Time	Compliant
	Non-Occupancy Period	Not applicable
Radar Detection	Statistical Performance Check	Not applicable

Not applicable: the EUT is a client unit without radar detection.

APPLICABLE STANDARDS

DFS Requirement

Annex 2 (Received power of a master station)

Maximum E. I. R. P.	Received power (average)
less than 0.2W	-62dBm
0.2W or more	-64dBm

For Master Station:

(1) (CAC : Channel Availability Check) *1

Check the existence of a radar for 60 seconds in the occupied bandwidth of the frequency which will be about to transmit.

(2) (ISM : In-Service Monitoring) *1, *2

Check continuously the existence of a radar transmits in the occupied bandwidth of the frequency which are transmitting.

(3) (Radar classification & detection probability) refer to "Annex 1"

(From the supplementary provisions of the notice, it can be determined according to the old regulation until July 11, 2020)

(4) (Received power of a master station) refer to "Annex 2"

*1 : When a (3) radar was detected, shall not transmit the electric wave of the frequency from which the electric wave was detected for 30 minutes after detecting.

*2 : When a (3) radar was detected, it must be stopped dependent slave equipment and the radio equipment transmits within 10 seconds.

(In this case, the sum total of the transmitting time of all the radio equipment shall be 260 milliseconds or less.)

For Slave Station:

It has the following functions.

* Chooses the frequency which transmits automatically by the control from a "master station".

* Transmission and a stop of a radio wave are performed by the control from a "master station".

Annex 1-a (Radar classification & detection probability) : 5250~5350MHz

The radio wave which a radar transmits						Detection probability
Classification	Pulse width		Repetition frequency		Minimum number of consecutive pulses	
	minimum value	maximum value	minimum value	maximum value		
1	0.5 μs	5 μs	200 Hz	1000 Hz	10	60% or more
2	0.5 μs	15 μs	200 Hz	1600 Hz	15	60% or more
3	0.5 μs	5 μs	200 Hz	1000 Hz	"Repetition frequency x 0.026" (Round up to less than 1), or "22", whichever is larger, or "30", whichever is smaller	60% or more
4	0.5 μs	15 μs	200 Hz	1600 Hz	"Repetition frequency x 0.026" (Round up to less than 1), or "22", whichever is larger, or "30", whichever is smaller	60% or more
5	0.5 μs	1.5 μs	1114 Hz	1118 Hz	30	60% or more
6	0.5 μs	1.5 μs	928 Hz	932 Hz	25	60% or more
7	0.5 μs	1.5 μs	886 Hz	890 Hz	24	60% or more
8	0.5 μs	1.5 μs	738 Hz	742 Hz	20	60% or more

Note 1: The detection probability is the total transmission time in any 100ms from the master station radio equipment (connection method is limited to carrier sense multiple access type) to the slave station radio equipment. It refers to the case of performing transmission of 30ms or more.

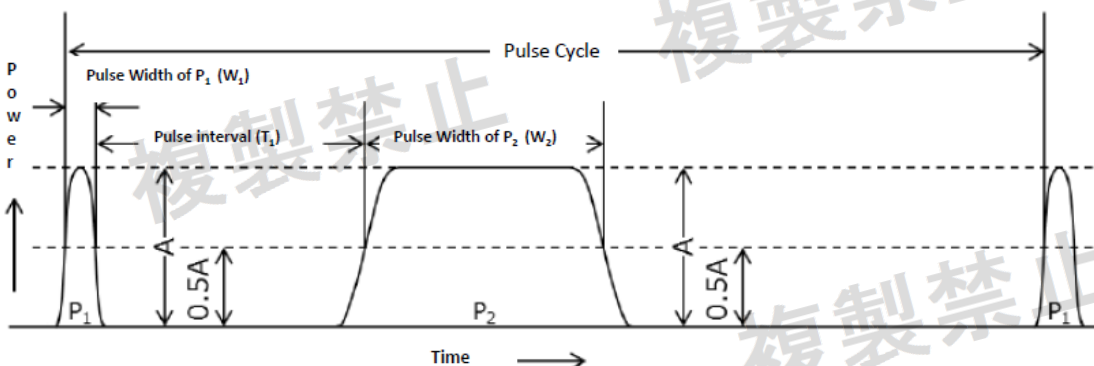
Note 2: In this table, "pulse width" is the pulse width of P_1 , " W_1 " in the following figure, and "repetition frequency" is the reciprocal of the pulse cycle in the following figure. Also, the pulse width and frequency are any one value between the minimum value and the maximum value.

Annex 1-b (Radar classification & detection probability) : 5470~5730MHz

The radio wave which a radar transmits *Un-modulated pulse				Detection probability
Classification	Pulse width	Repetition frequency	The number of continuous pulses	
1	0.5 μ s	720 Hz	18	60% or more
2	1 μ s	700 Hz	18	60% or more
3	2.0 μ s	250 Hz	18	60% or more
4	1 μ s $\leq$ X $\leq$ 5 μ s ("1 μ s"or"width which added the integral multiple of 1 μ s to 1 μ s")	4,347Hz $\leq$ X $\leq$ 6,667Hz (arbitrary frequency of 1)	23 $\leq$ X $\leq$ 29 (arbitrary integer of 1)	60% or more
5	6 μ s $\leq$ X $\leq$ 10 μ s ("6 μ s"or"width which added the integral multiple of 1 μ s to 6 μ s")	2,000Hz $\leq$ X $\leq$ 5,000Hz (arbitrary frequency of 1)	16 $\leq$ X $\leq$ 18 (arbitrary integer of 1)	60% or more
6	11 μ s $\leq$ X $\leq$ 20 μ s ("11 μ s"or"width which added the integral multiple of 1 μ s to 11 μ s")	2,000Hz $\leq$ X $\leq$ 5,000Hz (arbitrary frequency of 1)	12 $\leq$ X $\leq$ 16 (arbitrary integer of 1)	60% or more

*1 In the transmission of the 17% of maximum signal access speed (an error correction and a control signal are not included), when the master station is transmitting to the slave station.

*2 The average value of the "detection probability" for every classification of the radio wave which a radar transmits shall be "80% or more".



Note 3 In this figure, "A" indicates the maximum power of P₁ and P₂, and the shift width of frequency (hereinafter referred to as "chirp width") for performing linear frequency modulation during the pulse period, the pulse interval of P₁ "T₁". The difference between the pulse width of P₂ "W₂" and the pulse width of P₁ "W₁" and the pulse width of P₂ "W₂" and the pulse width of P₁ "W₁" multiplied by the repetition frequency (hereinafter referred to as "duty ratio") are as follows: about. In addition, each pulse interval and each pulse width are made into the rise time of each pulse which makes electric power 0.5A base point, and the fall time of each pulse.

(1) Classification 3 or 4

Chirp width	Range of ± 0.5 MHz to 1.0MHz
Pulse interval of P ₁ : T ₁	70 μ s or more
Pulse width of P ₂ : W ₂	20 μ s or more, 110 μ s or less
The difference between the pulse width of P1 and the pulse width of P2 by the following equation $ W_2 - W_1 $	15 μ s or more
Duty ratio	Less than 10%

(2) Classification 5 ~ 8

Chirp width	Range of ± 0.5 MHz to 1.0MHz
Pulse interval of P ₁ : T ₁	50 μ s or more
Pulse width of P ₂ : W ₂	28.5 μ s or more, 33.6 μ s or less

The radio wave which a radar transmits *Modulated pulse (Chirp radar)				Detection probability *
Classification	Pulse width	Repetition frequency	The number of continuous pulses	
1	$50\ \mu\text{s} \leq X \leq 100\ \mu\text{s}$ ("50 μs " or "width which added the integral multiple of 1 μs to 50 μs ")	$500\text{Hz} \leq X \leq 1,000\text{Hz}$ (arbitrary frequency of 1)	$1 \leq X \leq 3$ (arbitrary integer of 1)	80% or more

*1 In the transmission of the 17% of maximum signal access speed (an error correction and a control signal are not included), when the master station is transmitting to the slave station.

*2 A mass of the number of continuous pulses (burst) shall be radiated for 12 seconds.

*3 Chirp width : $5\text{MHz} \leq X \leq 20\text{MHz}$ ("5MHz" or "frequency width which added the integral multiple of 1MHz to 5MHz") In this case, "chirp width" is arbitrary to each burst, "chirp width" in the same burst shall be an equal thing.

*4 Number of burst : $8 \leq X \leq 20$ (arbitrary integer), Burst interval : Time which divided 12 seconds by the number of burst.

*5 When there are two or more pulses within the burst of 1, the pulse width shall be an equal thing.

*6 When there are two or more pulses within the burst of 1, the "repetition frequency" must not have relevance between the "repetition frequency" of the pulse of 1, and the "repetition frequency" of the pulse of next 1.

The radio wave which a radar transmits *Modulated pulse (hopping radar)				Detection probability *
Classification	Pulse width	Repetition frequency	Number of pulses in a burst of 1	
1	1 μs	3000 Hz	9	70% or more

*1 In the transmission of the 17% of maximum signal access speed (an error correction and a control signal are not included), when the master station is transmitting to the slave station.

*2 Burst : One mass of the number of continuous pulses

*3 Hopping frequency : $5.250\text{MHz} \leq X \leq 5724\text{MHz}$ ("5250MHz" or "the arbitrary frequency which added the integral multiple of 1MHz to 5250MHz")

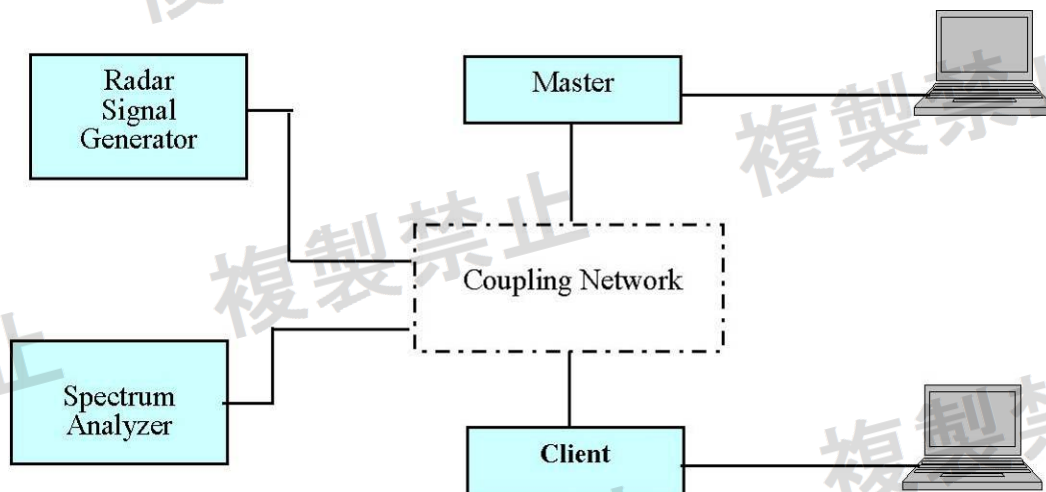
*4 Switching interval of the hopping frequency : "3ms", Total switching interval of the all hopping frequency : "300ms"

*5 Burst interval : "3 ms"

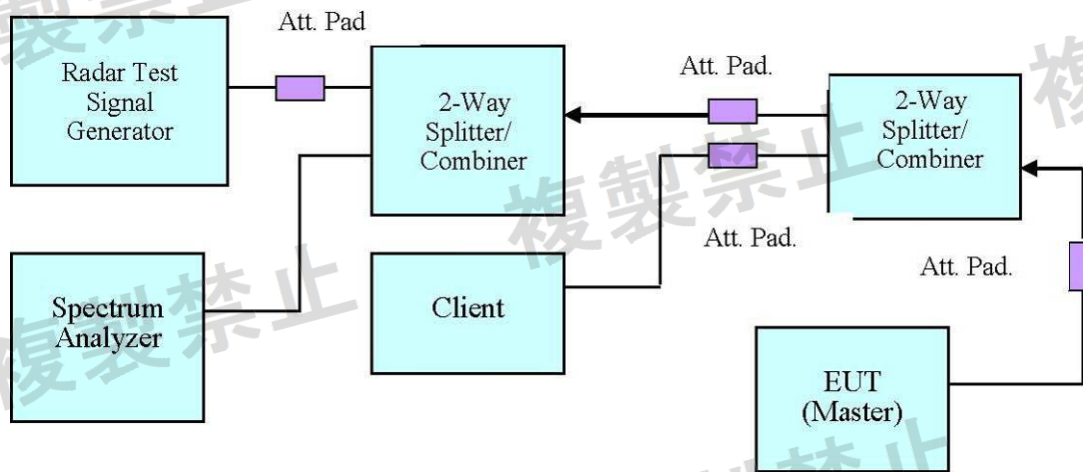
DFS Measurement System

BACL DFS measurement system consists of two subsystems: (1) The radar signal generating subsystem and (2) the traffic monitoring subsystem.

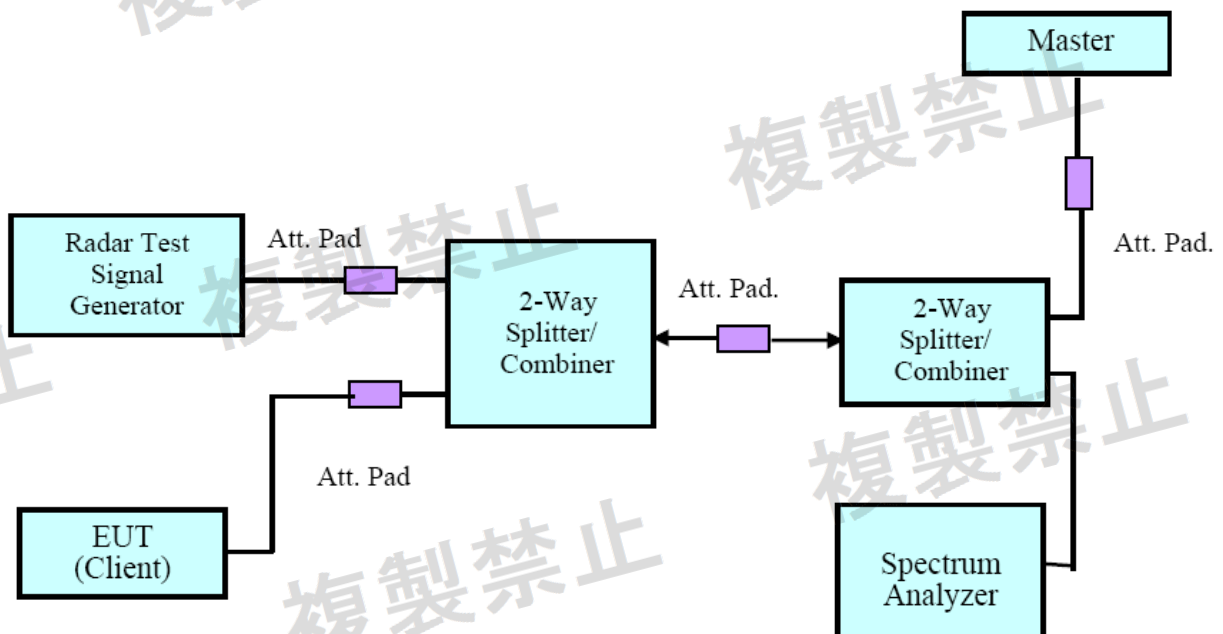
System Block Diagram



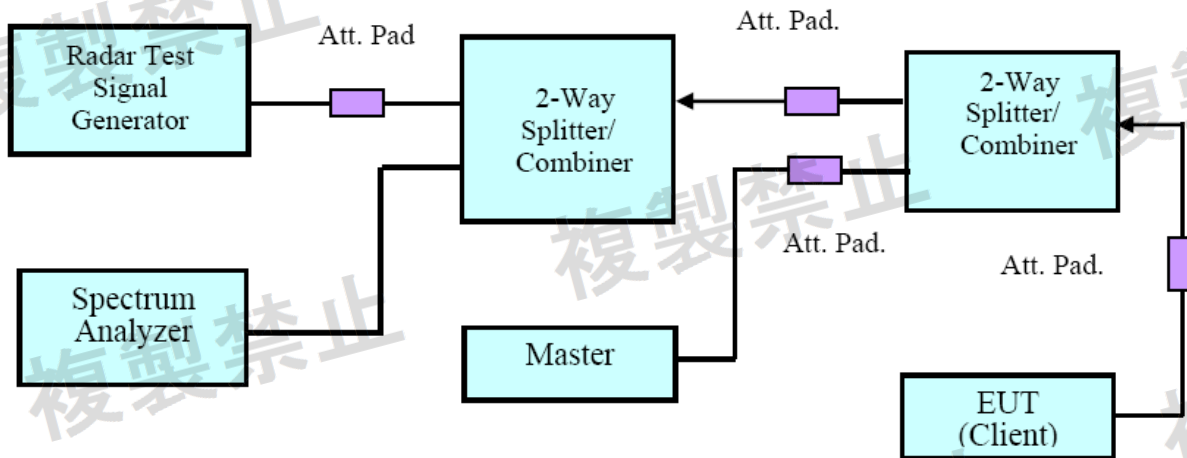
Conducted Method



Setup for Master with injection at the Master

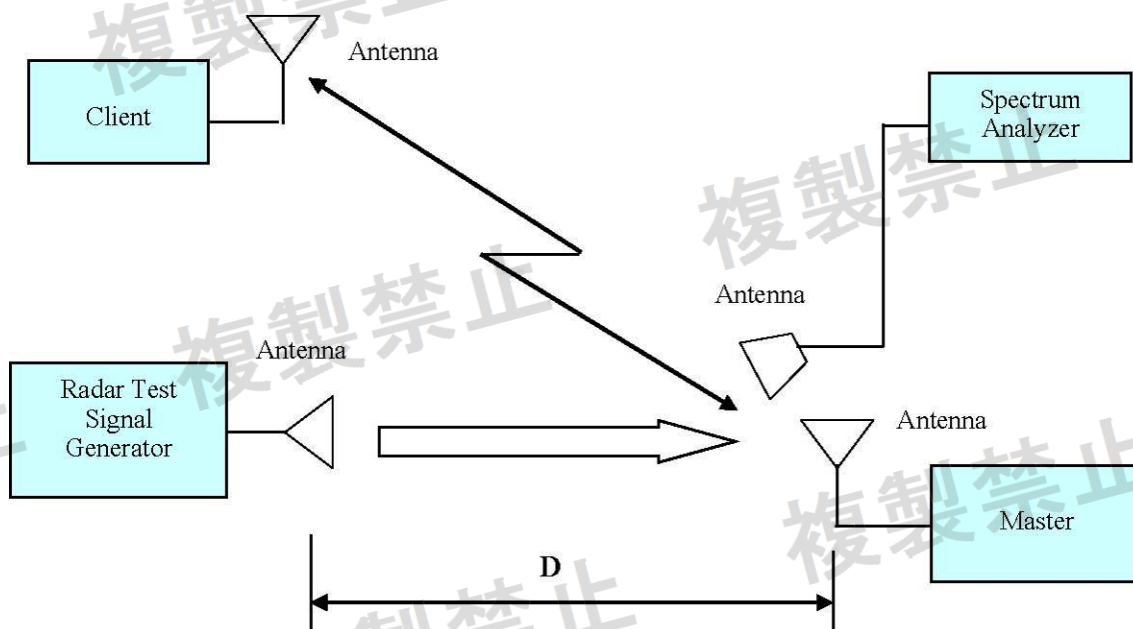


Setup for Client with injection at the Master



Setup for Client with injection at the Client

Radiated Method



Test Procedure

A spectrum analyzer is used as a monitor verifies that the EUT status including Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the diction and Channel move.

TEST RESULTS

Description of EUT

The calibrated radiated DFS detection threshold level is set to -62 dBm.

Datapackage streamed from the Access Point to the Client using the software “LanTest”.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Authority	Calibration Method
Tonscend	RF control Unit	JS0806-2	19D8060154	2025/07/18	2026/07/17	BACL Cal	c)
Tonscend	Test software	JS1120-3	V3.3.38	NCR	NCR	/	/
Rohde & Schwarz	Spectrum Analyzer	FSV40	101473	2025/09/01	2026/08/31	CCIC	c)
Keysight	MXG Vector Signal Generator	N5182B	MY53051503	2025/09/18	2026/09/17	CCIC	c)
Unknown	10dB Attenuator	Unknown	F-03-EM224	2025/06/26	2026/06/25	BACL SZ	d)
Unknown	10dB Attenuator	Unknown	F-03-EM190	2025/06/26	2026/06/25	BACL SZ	d)

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)

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Environmental Conditions

Temperature:	25.2 °C
Relative Humidity:	50 %
ATM Pressure:	101.4 kPa
Tester:	Bonnie Zhang
Test Date:	2026-03-17

Test Result: Compliant. Please refer to the Appendix.

CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

Test Procedure

Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 1.

The Channel Closing Transmission Time is starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = $N \times \text{Dwell Time}$

N is the number of spectrum analyzer bins showing a device transmission Dwell Time is the dwell time per bin (i.e. Dwell Time = S/B , S is the sweep time and B is the number of bin, i.e. 8192)

Test Environmental Conditions

Temperature:	25.2 °C
Relative Humidity:	50 %
ATM Pressure:	101.4 kPa
Tester:	Bonnie Zhang
Test Date:	2026-03-17

Test Result: Compliant. Please refer to the Appendix.

EUT PHOTOGRAPHS

Please refer to the attachment 2601P93961E-RF-EXP External photo and 2601P93961E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2601P93961E-RF-07E-TSP Test Setup photo.

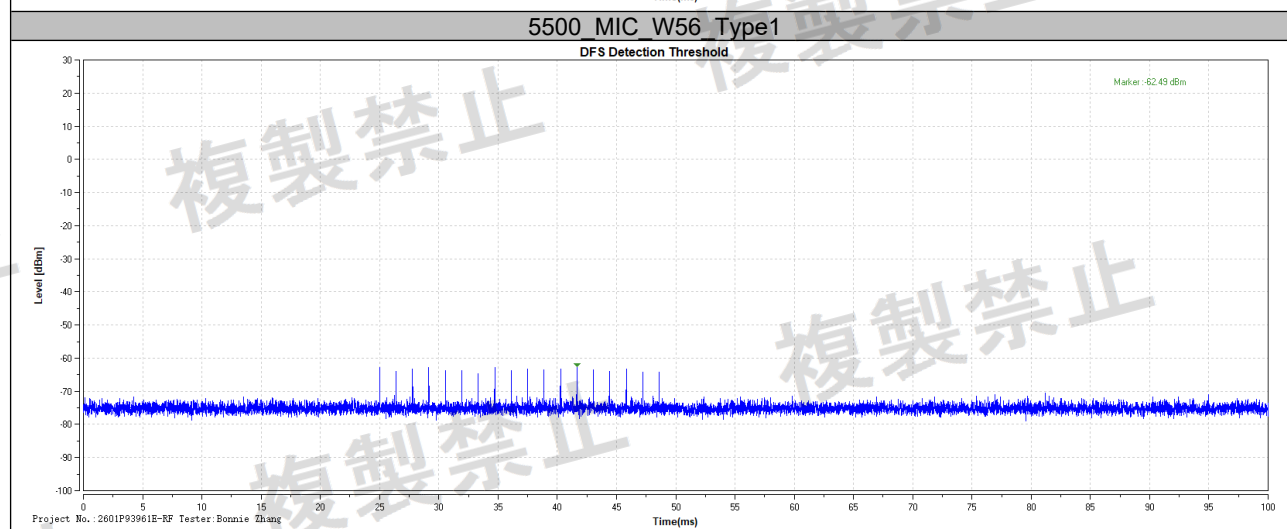
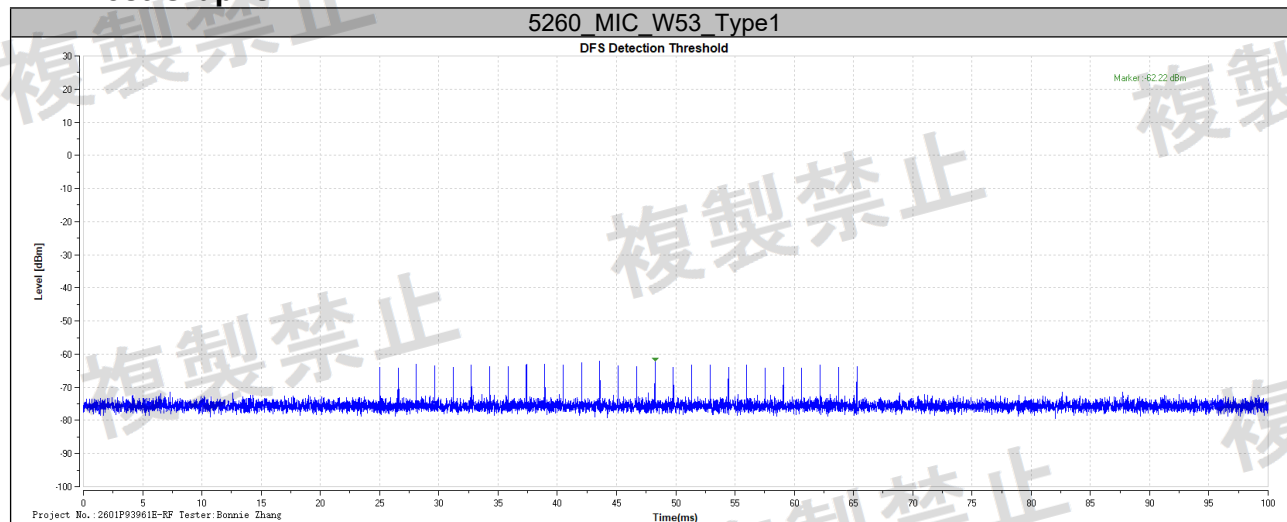
APPENDIX

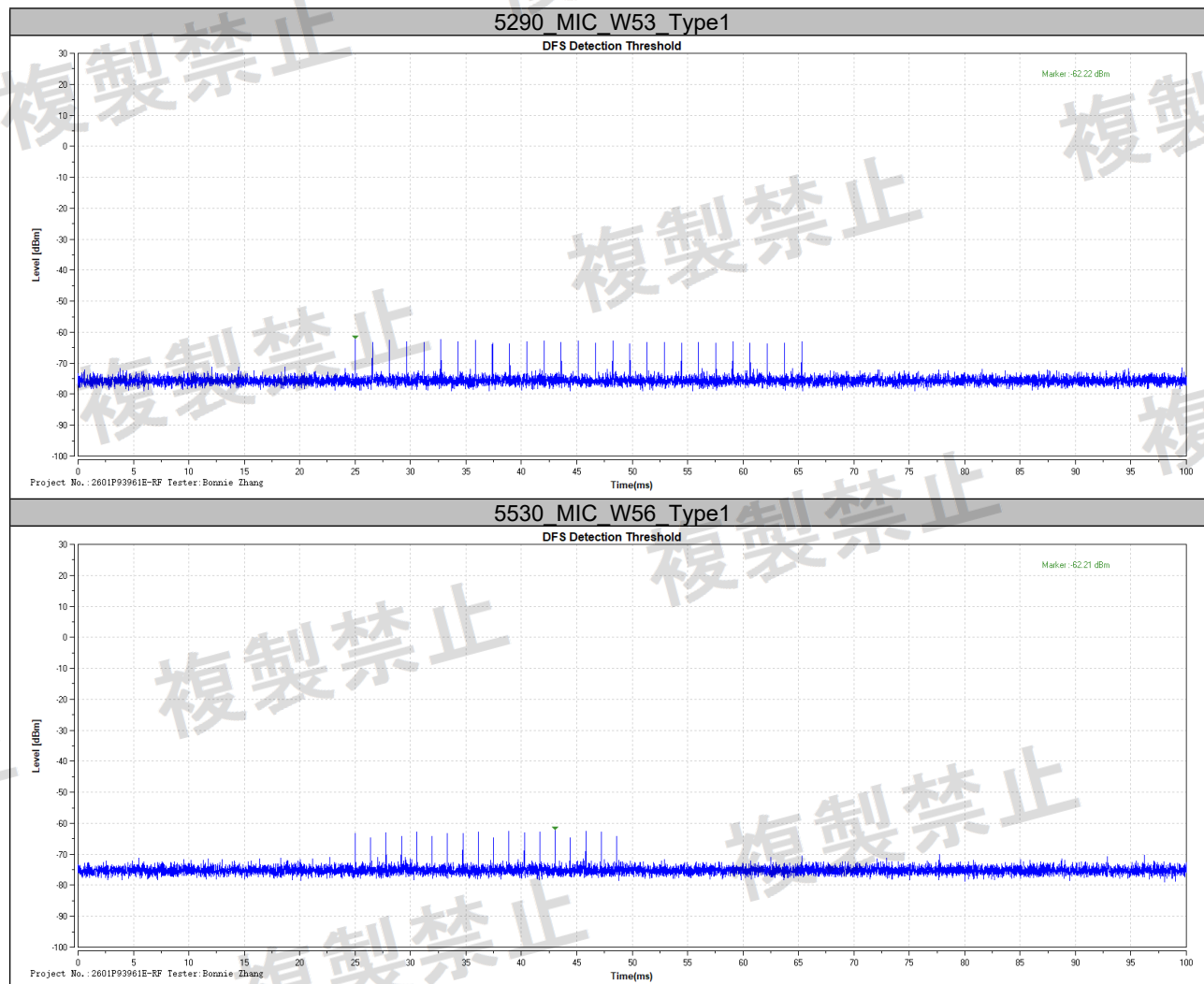
Appendix A: DFS Detection Thresholds

Test Result

Freq(MHz)	Radar Type	Result[dBm]
5260	MIC_W53_Type1	-62.22
5500	MIC_W56_Type1	-62.49
5290	MIC_W53_Type1	-62.22
5530	MIC_W56_Type1	-62.21

Test Graphs



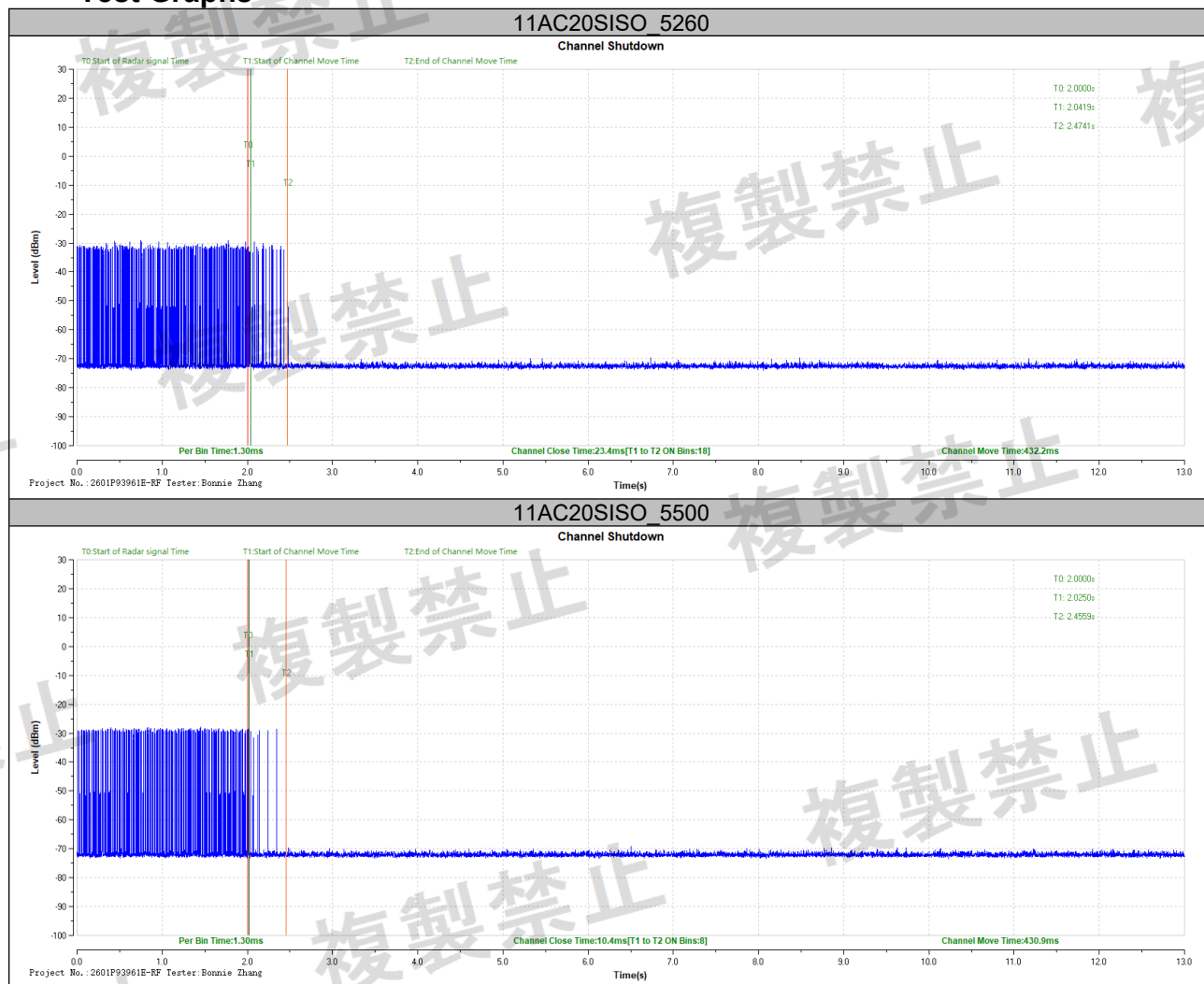


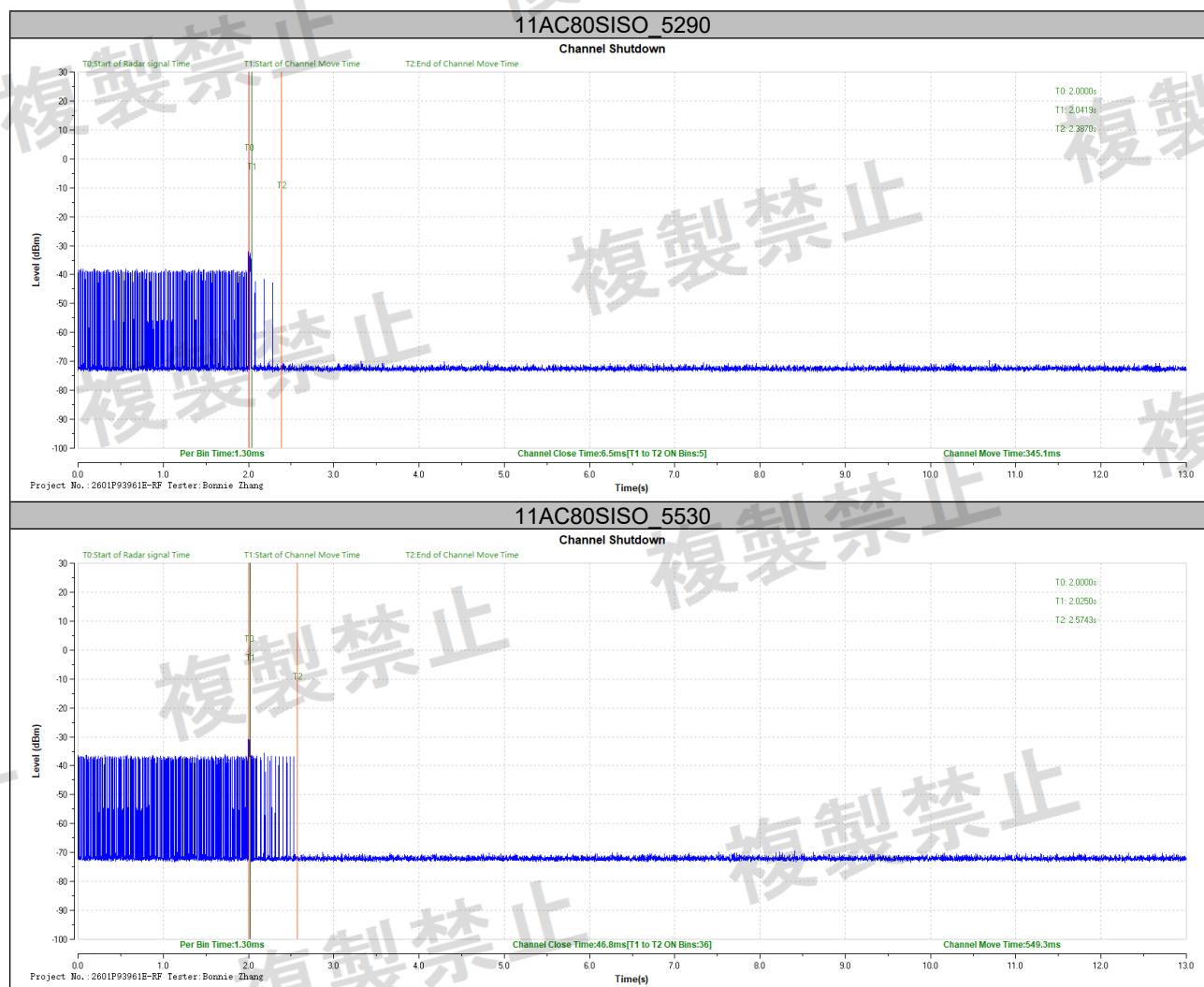
Appendix B: Channel Move Time and Channel Closing Transmission Time

Test Result

Test Mode	Freq(MHz)	Radar Type	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5260	W53_Type1	23.4	260	432.2	10000	PASS
	5500	W56_Type1	10.4	260	430.9	10000	PASS
11AC80SISO	5290	W53_Type1	6.5	260	345.1	10000	PASS
	5530	W56_Type1	46.8	260	549.3	10000	PASS

Test Graphs





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