



DFS MEASUREMENT REPORT

Applicant: TP-Link Systems Inc.
Address: 10 Mauchly, Irvine, CA 92618
Product: AX3000 Gigabit Wi-Fi 6 Router
Model No.: Archer AX3000, Archer AX3000V
Brand Name: tp-link
Product Category: Article 2, Paragraph 1, Item 19-3
Test Procedure: MIC Notice No.88 Annex 45
Result: Complies
Received Date: 2025-03-28
Test Date: 2025-04-17 ~ 2025-04-30

Reviewed By:

Kevin Guo

Kevin Guo

Approved By:

Robin Wu

Robin Wu

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
R25S1013037-J203	V01	Initial Report	2025-06-10	Valid

CONTENTS

Description	Page
1. General Information	5
1.1. Applicant	5
1.2. Manufacturer	5
1.3. Testing Facility	5
1.4. Product Information	5
1.5. Radio Specification under Test	6
1.6. Working Frequencies	7
1.7. Antenna Details	7
2. Test Configuration	7
2.1. Test Mode	8
3. Measuring Instrument	9
4. DFS Detection Thresholds and Radar Test Waveforms	10
4.1. DFS Devices Requirement and Limit	10
4.2. DFS Detection Threshold Values	10
4.3. Parameters of DFS Test Signals	11
4.4. Test Setup	15
4.5. Radar Waveform Calibration Procedure	15
5. Test Result	16
5.1. Summary	16
5.2. Radar Waveform Calibration	16
5.2.1. Test Setup Operation	16
5.2.2. Calibration Result	17
5.2.3. Channel Loading Result	21
5.3. Initial Channel Availability Check Time Measurement	22
5.3.1. Test Limit	22
5.3.2. Test Procedure	22
5.3.3. Test Result	23
5.4. Radar Burst at the Beginning of the Channel Availability Check Time Measurement	24
5.4.1. Test Limit	24
5.4.2. Test Procedure	24
5.4.3. Test Result	25
5.5. Radar Burst at the End of the Channel Availability Check Time Measurement	53
5.5.1. Test Limit	53
5.5.2. Test Procedure	53
5.5.3. Test Result	54
5.6. Statistical Performance Check	82

5.6.1. Test Limit	82
5.6.2. Test Procedure	85
5.6.3. Test Result	88
5.7. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement	98
5.7.1. Test Limit	98
5.7.2. Test Procedure	98
5.7.3. Test Result	99
Appendix A - Test Setup Photograph	114
Appendix B - EUT Photograph	115

複製禁

複製禁止

複製

複製禁止

複製

複製禁止

複製

複製禁止

禁止

1.4. Product Information

Product Name	AX3000 Gigabit Wi-Fi 6 Router
Model No.	Archer AX3000, Archer AX3000V
EUT Identification No.	20250328Sample#33
Wi-Fi Specification	802.11a/b/g/n/ac/ax
Antenna Specification	Refer to Section 1.7
Operating Temp.	0 ~ 40 °C
Power Type	By AC/DC Adapter
Accessory	
AC/DC Adapter	Model: T120150-2B1
	Input: 100-240V ~ 50/60Hz, 0.6A
	Output: 12.0V = 1.5A
Notes:	
1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	
2. Model Archer AX3000 and Archer AX3000V are identical except for the model name. Model Archer AX3000 is selected for testing.	

1.5. Radio Specification under Test

Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5180~5240MHz, 5260~5320MHz, 5500~5720MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz, 5270~5310MHz, 5510~5710MHz For 802.11ac-VHT80/ax-HE80: 5210MHz, 5290MHz, 5530MHz, 5610 MHz, 5690MHz For 802.11ac-VHT160/ax-HE160: 5250MHz, 5570MHz	
Type of Modulation	802.11a/n/ac: OFDM 802.11ax: OFDMA	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.6Mbps 802.11ax: up to 2402Mbps	
TPC Function	☐ Supported	☒ Unsupported
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☐ Partial RU

1.6. Working Frequencies

802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz	100	5500 MHz
104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz
128	5640 MHz	132	5660 MHz	136	5680 MHz
140	5700 MHz	144	5720 MHz	--	--

802.11n-HT40/ac-VHT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz
62	5310 MHz	102	5510 MHz	110	5550 MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz
142	5710 MHz	--	--	--	--

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz
122	5610 MHz	138	5690 MHz	--	--

802.11ac-VHT160/ax-HE160

Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250 MHz	114	5570 MHz	--	--

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Antenna Gain (dBi)		The Max Antenna Gain (dBi)
		Ant 0	Ant 1	
Dipole	2400 ~ 2500	2.00	2.00	2.00
	5150 ~ 5250	1.88	1.63	1.88
	5250 ~ 5350	1.12	1.63	1.63
	5470 ~ 5725	1.63	1.80	1.80

Note: All antenna information is provided by the manufacturer.

2. Test Configuration

2.1. Test Mode

Mode 1: Make the EUT communicate with PC at DFS channel

2.2. Test Channel

Test Mode	Test Channel	Test Frequency
802.11ax-HE160	50	5250 MHz
802.11ax-HE160	114	5570 MHz

2.3. Test Environment

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

2.4. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- MIC Notice No.88 Annex 45
- Article 49-20 and the relevant articles of the Ordinance Regulating Radio Equipment
- ARIB STD-T71 v7.0

3. Measuring Instrument

DFS Test Equipment (WZ-SR4)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Date	Cali. Due Date	Cali. Body	Cali. Method
Thermohygrometer	testo	608-H1	MRTSUE11256	1 year	2024-10-17	2025-10-16	Ceprei	c
Shielding Room	HUAMING	WZ-SR4	MRTSUE06441	N/A	N/A	N/A	Ceprei	c
Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2025-04-01	2026-03-31	Ceprei	c
Signal Generator	Keysight	N5182B	MRTSUE06993	1 year	2024-07-19	2025-07-18	Ceprei	c

Note: All the above test equipment was used and kept valid calibration period during the testing.

Calibration Method:

- Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph.
- Correction conducted pursuant to the previous of Article 135 or Article 144 of the measurement Law (Law No. 51 of 1992), Japan calibration Service System
- 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.

Instrument	Manufacturer	Type No.
Wireless Network Adapter	DELL	Vostro.270

Software	Version	Manufacturer	Function
DFS Tool	V 6.9.2	Agilent	DFS Test Software
Pulse Sequencer	V 2.0	R&S	DFS Test Software
Signal Studio	V2.2.0.0	Keysight	DFS Test Software

4. DFS Detection Thresholds and Radar Test Waveforms

4.1. DFS Devices Requirement and Limit

Requirement	Limit
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
Channel Closing Transmission Time	≤ 260 milliseconds

Tablet 3-1: DFS Device Requirement and Limit

4.2. DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring.

These detection thresholds are listed in the following table.

Maximum Transmit Power	Value (See Notes 1)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm
Note 1: This is the level at the input of the receiver assuming a 0dBi receive antenna.	

Tablet 3-2: Detection Thresholds Values

4.3. Parameters of DFS Test Signals

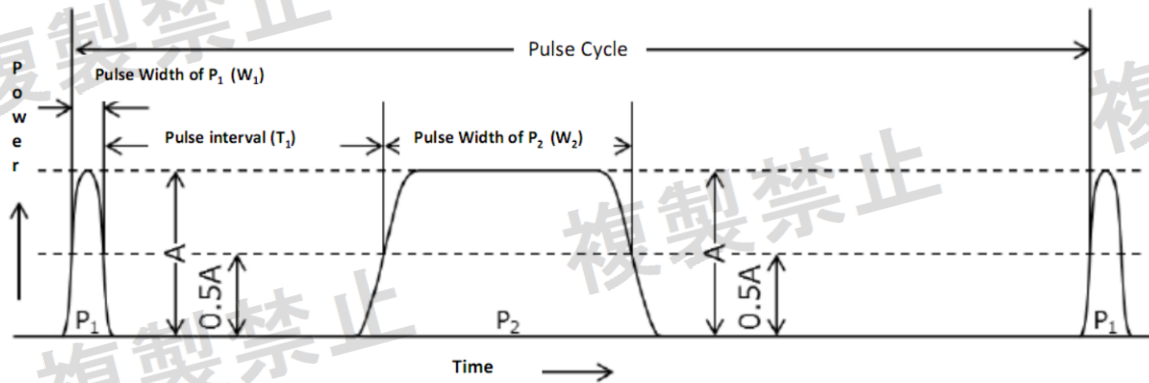
Generate pulses based on test signals in the following table with the radar signal generator, apply them to the external pulse modulation input of the standard signal generator, and generate quasi radar pulses.

Frequency band 5250-5350MHz (W53 Band)

The radio wave which a radar transmits						Detection probability
Classification	Pulse width		Repetition frequency		Minimum number of consecutive pulses	
	Minimum value [μs]	Maximum value [μs]	Minimum value [Hz]	Maximum value [Hz]		
1	0.5	5	200	1000	10	60% or more
2	0.5	15	200	1600	15	60% or more
3	0.5	5	200	1000	"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	15	200	1600	"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	1.5	1114	1118	30	60% or more
6	0.5	1.5	928	932	25	60% or more
7	0.5	1.5	886	890	24	60% or more
8	0.5	1.5	738	742	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 P1 "W1" 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.



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 $\pm 0.5\text{MHz}$ to 1.0MHz
Pulse interval of P1: T1	70 μs or more
Pulse width of P2: W2	20 μs or more, 110 μs or less
The difference between the pulse width of P1 and the pulse width of P2 by the following equation $ W2 - W1 $	15 μs or more
Duty ratio	Less than 10%

(2) Classification 5 ~ 8

Chirp width	Range of $\pm 0.5\text{MHz}$ to 1.0MHz
Pulse interval of P1: T1	50 μs or more
Pulse width of P2: W2	28.5 μs or more, 33.6 μs or less

Frequency band 5470-5730MHz (W56 Band)

The radio wave which a radar transmits *Un-modulated pulse				Detection probability
Classification	Pulse width [μs]	Repetition frequency [Hz]	The number of continuous pulses	
1	0.5	720	18	60% or more
2	1.0	700	18	60% or more
3	2.0	250	18	60% or more
4	$1\mu s \leq X \leq 5\mu s$ ("1μs"or"width which added the integral multiple of 1μs to 1μs")	$4,347Hz \leq X \leq 6,667Hz$ (arbitrary frequency of 1)	$23 \leq X \leq 29$ (arbitrary integer of 1)	60% or more
5	$6\mu s \leq X \leq 10\mu s$ ("6μs"or"width which added the integral multiple of 1μs to 6μs")	$2,000Hz \leq X \leq 5,000Hz$ (arbitrary frequency of 1)	$16 \leq X \leq 18$ (arbitrary integer of 1)	60% or more
6	$11\mu s \leq X \leq 20\mu s$ ("11μs"or"width which added the integral multiple of 1μs to 11μs")	$2,000Hz \leq X \leq 5,000Hz$ (arbitrary frequency of 1)	$12 \leq X \leq 16$ (arbitrary integer of 1)	60% or more

Note 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.

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

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

Note 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.

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

Note 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.

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

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

Note 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 [μs]	Repetition frequency [Hz]	The number of continuous pulses	
1	1 μs	3000	9	70% or more

Note 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.

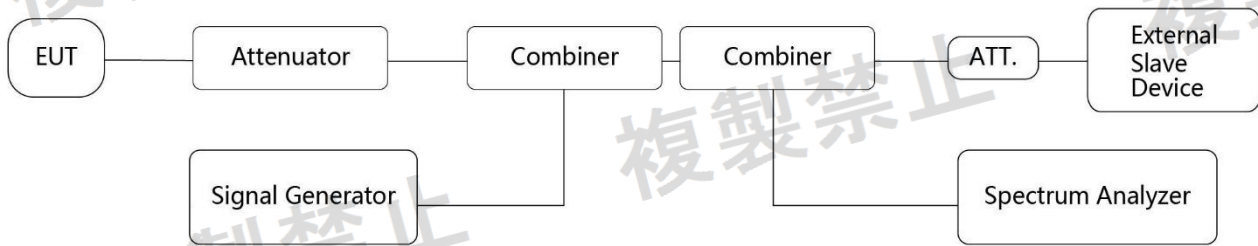
Note 2: Burst: One mass of the number of continuous pulses

Note 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")

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

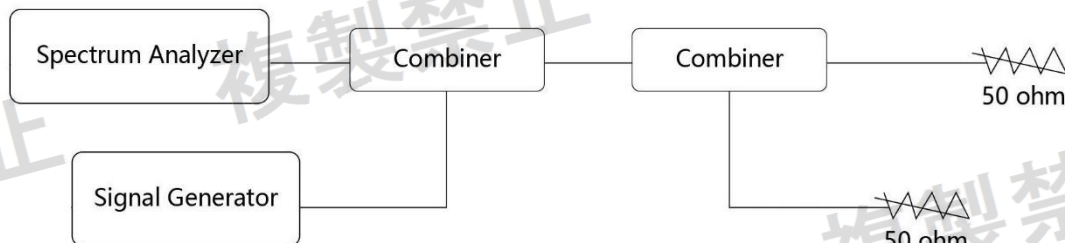
Note 5: Burst interval: "3 ms"

4.4. Test Setup



4.5. Radar Waveform Calibration Procedure

The Interference Radar Detection Threshold Level is -62dBm. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were replace 50ohm terminal from master and client device and no transmissions by either the master or client device. The spectrum analyzer was switched to the zero span (time domain) at the frequency of the radar waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 1MHz and 1MHz.



5. Test Result

5.1. Summary

ORRE Reference	Parameter	Test Condition	Verdict
Article 49-20	Initial Channel Availability Check Time	Conducted	Pass
	Radar Burst at the Beginning of the Channel Availability Check Time		Pass
	Radar Burst at the End of the Channel Availability Check Time		Pass
	Statistical Performance Check		Pass
	In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period		Pass
Note: We use -64dBm as DFS detection thresholds in our test.			

Note: ORRE: Ordinance Regulating Radio Equipment.

5.2. Radar Waveform Calibration

5.2.1. Test Setup Operation

System testing was performed with the designated deliberant test file that streams full motion video from the Access Point to the Client in full motion video mode using the media player with the V2.61 Codec package.

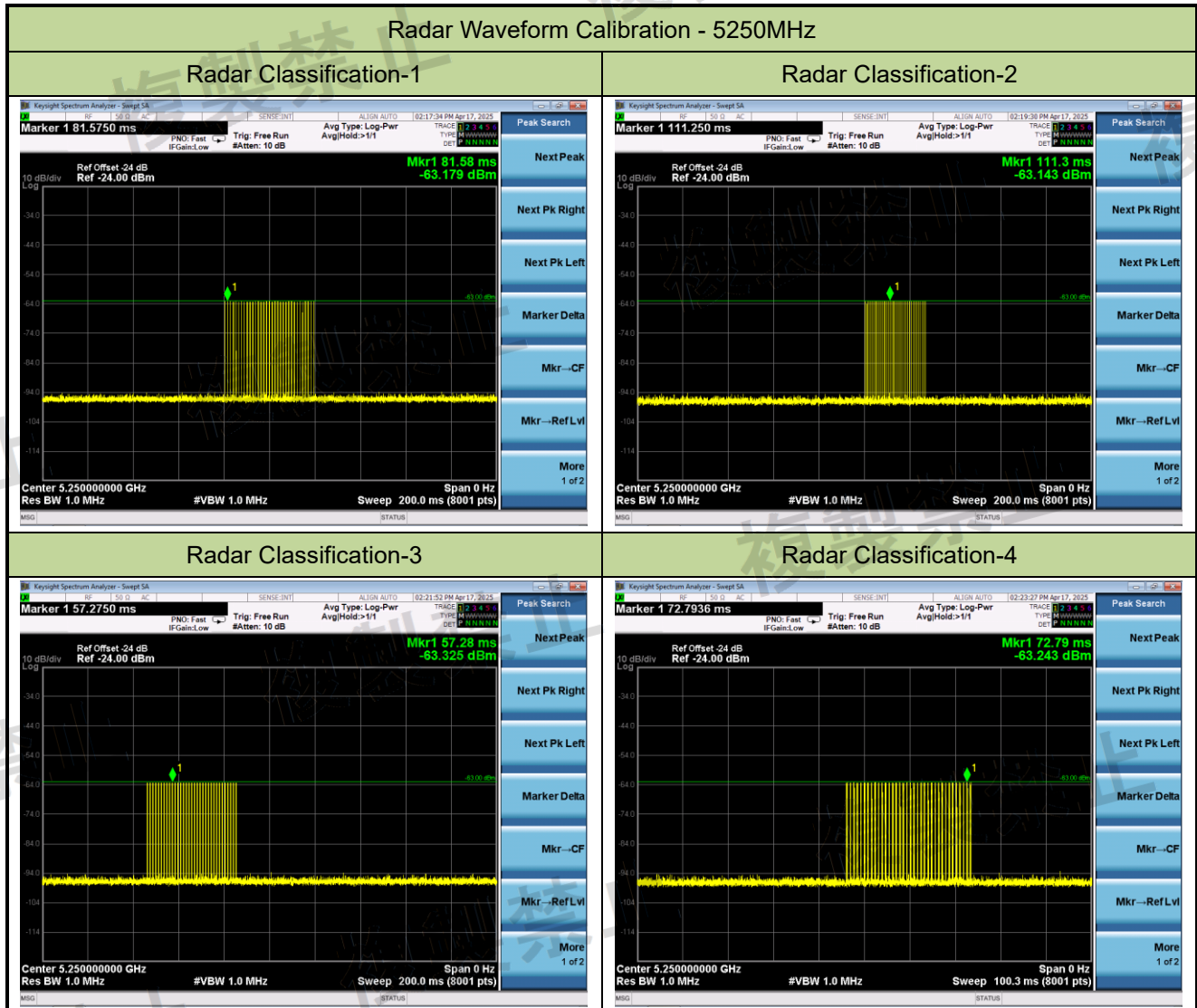
This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the device.

The waveform parameters from within the bounds of the signal type are selected randomly using uniform distribution.

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.

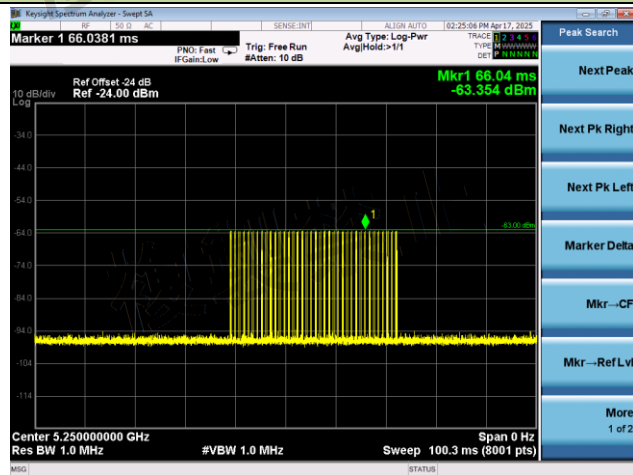
5.2.2. Calibration Result

Test Site	WZ-SR4	Temperature	23.6 °C
Test Engineer	Ant Wang	Humidity	46.2 %RH
Test Item	Radar Waveform Calibration	Test Date	2025-04-17

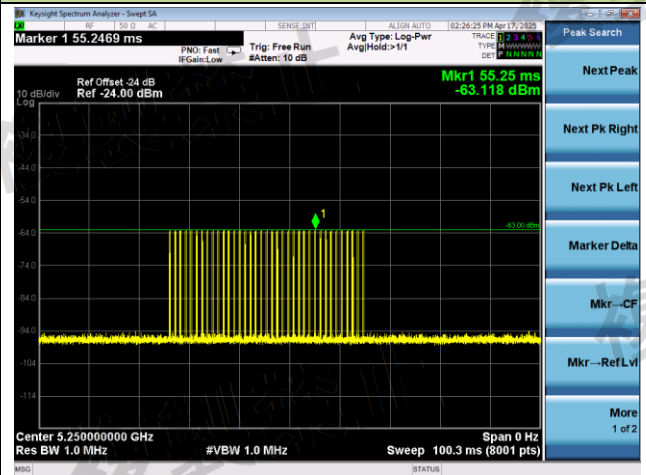


Radar Waveform Calibration - 5250MHz

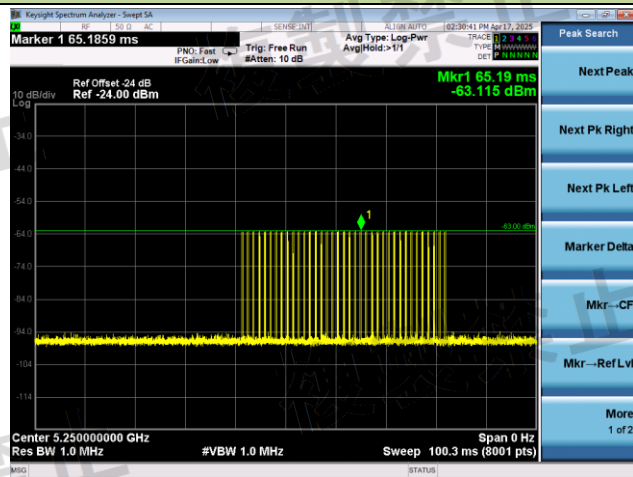
Radar Classification-5



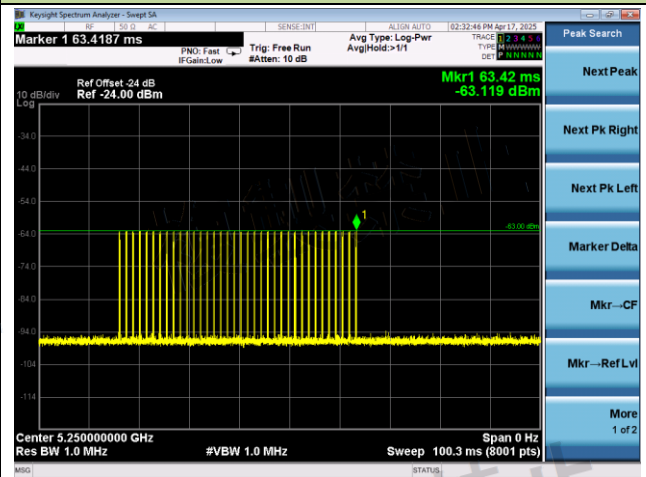
Radar Classification-6



Radar Classification-7

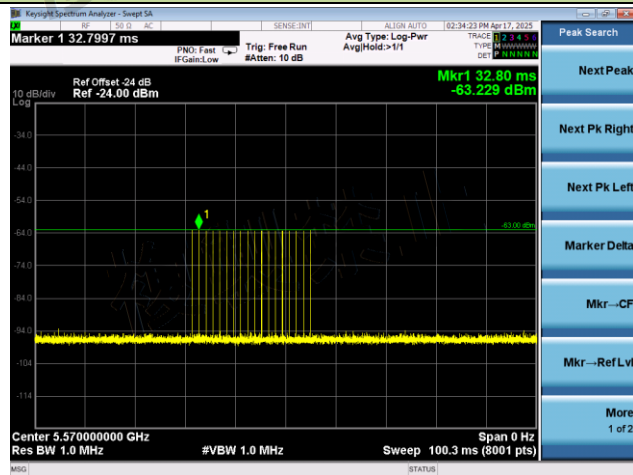


Radar Classification-8

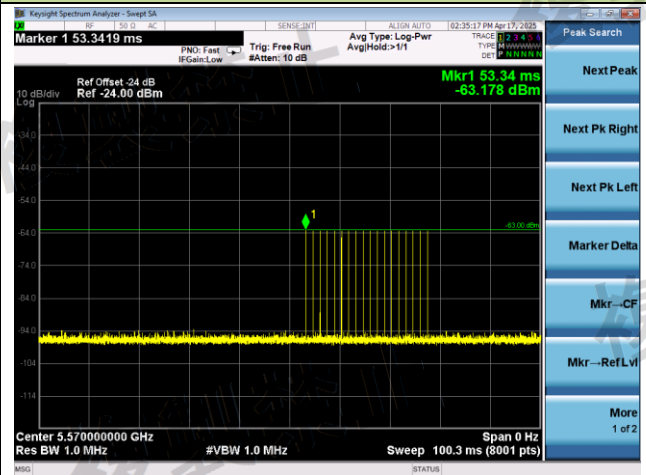


Radar Waveform Calibration - 5570MHz

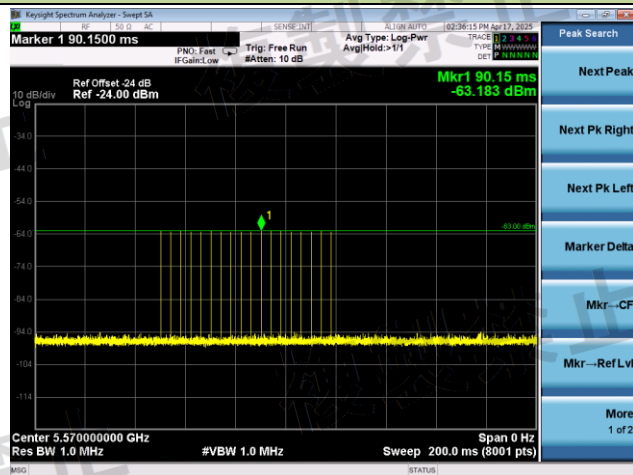
Radar Classification-1



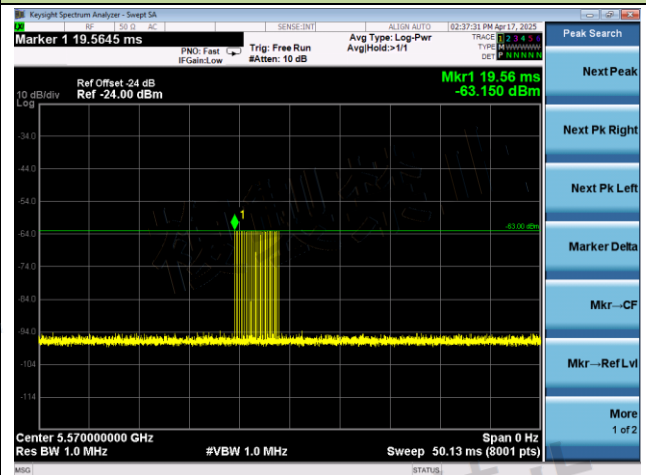
Radar Classification-2



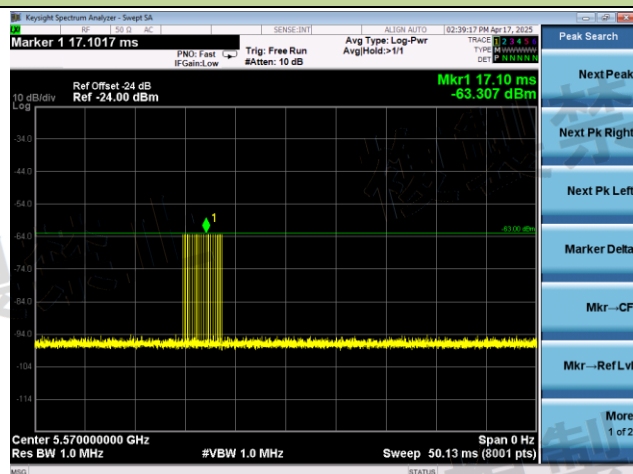
Radar Classification-3



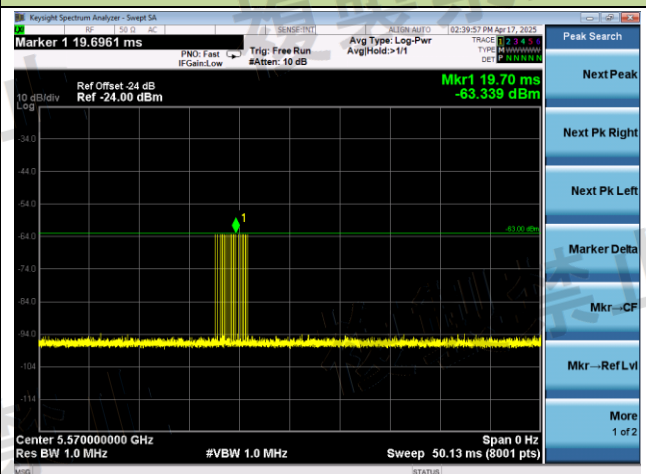
Radar Classification-4

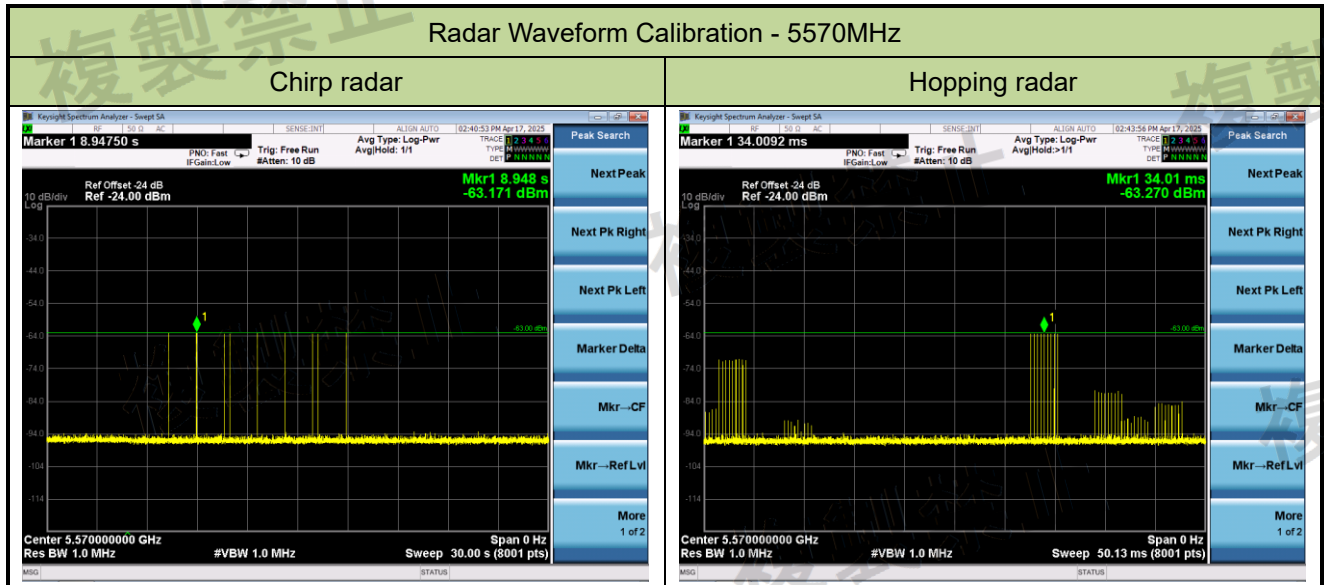


Radar Classification-5



Radar Classification-6

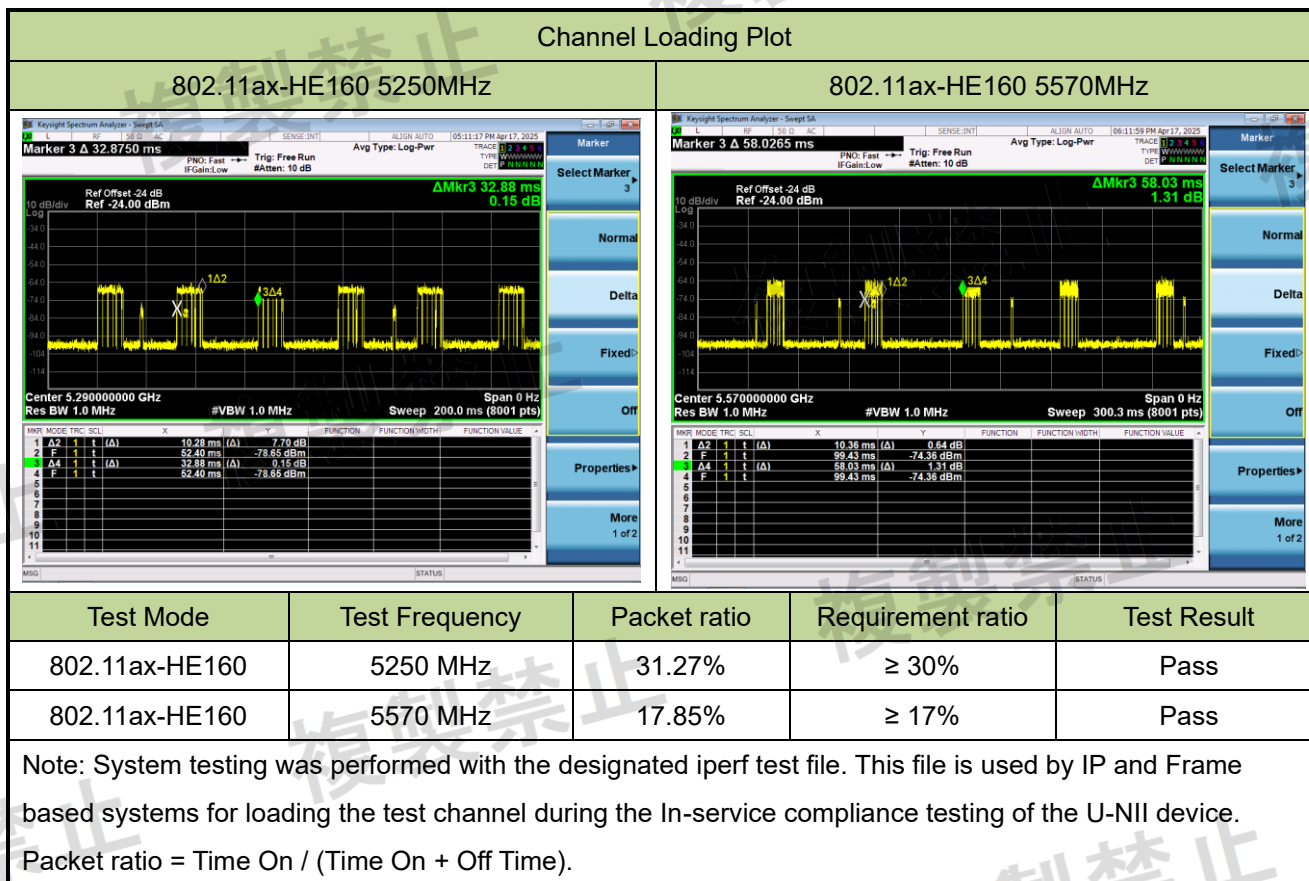




Note: The device temporary RF connector have 1(dB) cable loss(which declared by manufactor) to antenna port, we used the detection level $-64(\text{dBm}) + 1(\text{dB}) = -63(\text{dBm})$ to all testing.

5.2.3. Channel Loading Result

Test Site	WZ-SR4	Temperature	23.6 °C
Test Engineer	Ant Wang	Humidity	46.2 %RH
Test Item	Channel Loading	Test Date	2025-04-17



5.3. Initial Channel Availability Check Time Measurement

5.3.1. Test Limit

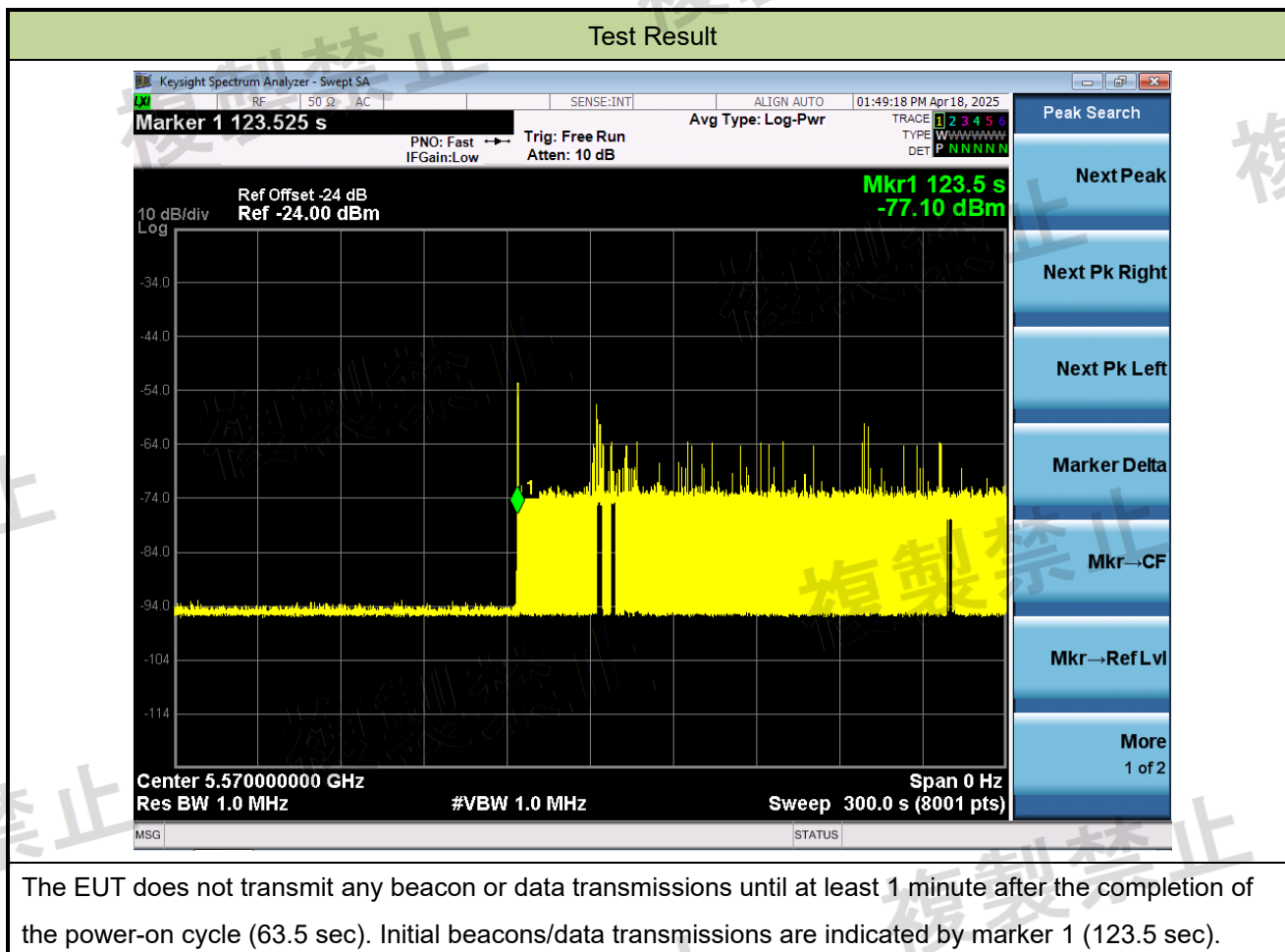
The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute on the intended operating frequency.

5.3.2. Test Procedure

- a. Set the standard signal generator to be in non-transmission state.
- b. Set EUT to be in state of available channel checking by initializing EUT and confirm with the spectrum analyzer that EUT does not radiate emissions.
- c. In a time slot selected randomly from the time period of available channel checking, set the standard signal input generator to be in transmission state and apply quasi radar pulses at the prescribed level to EUT.
- d. Confirm with the spectrum analyzer that EUT does not radiate emissions when quasi radar pulses are input to EUT.
- e. Repeat Steps 1 to 4 four times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected.

5.3.3. Test Result

Test Site	WZ-SR4	Temperature	23.0 °C
Test Engineer	Ant Wang	Humidity	52.1 %RH
Test Item	Initial Channel Availability Check Time	Test Date	2025-04-18



5.4. Radar Burst at the Beginning of the Channel Availability Check Time Measurement

5.4.1. Test Limit

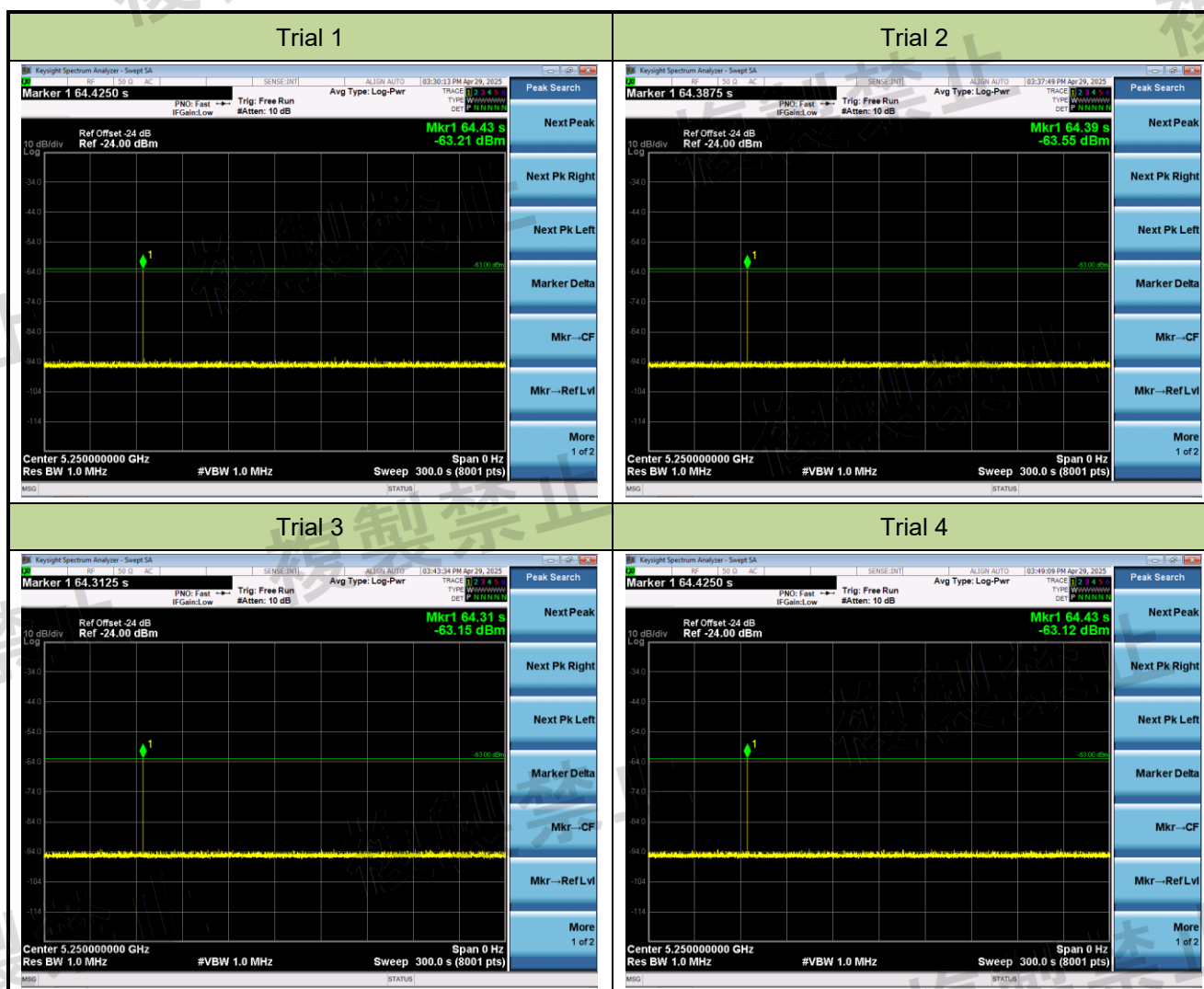
In beginning of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

5.4.2. Test Procedure

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold occurs at the beginning of the Channel Availability Check Time.
2. The EUT is in completion power-up cycle (from T0 to T1). T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of short pulse of radar type 1 at DFS Detection Threshold will commence within a 2 second window starting at T1.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5250MHz and 5570MHz will continue for 1.5 minutes after the radar Burst, Verify that during the 1.5 minute measurement window no EUT transmissions occurred at 5250MHz and 5570MHz.

5.4.3. Test Result

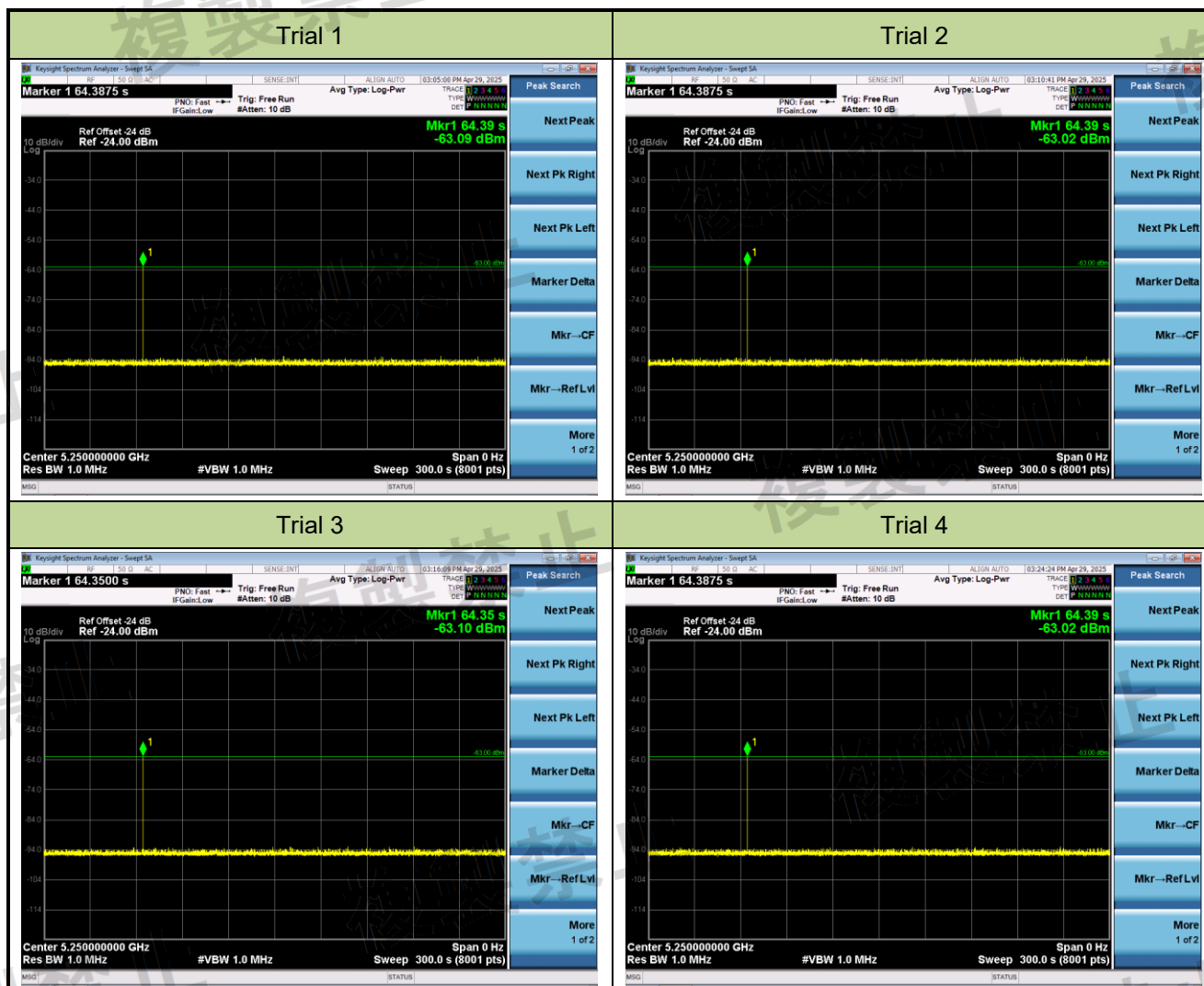
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-1		
Test Mode	Mode 1: Transmit -5250MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-1	1
2	5250	Radar Classification-1	1
3	5250	Radar Classification-1	1

4	5250	Radar Classification-1	1
Aggregate			4
Limit			>3
Test Result			Pass

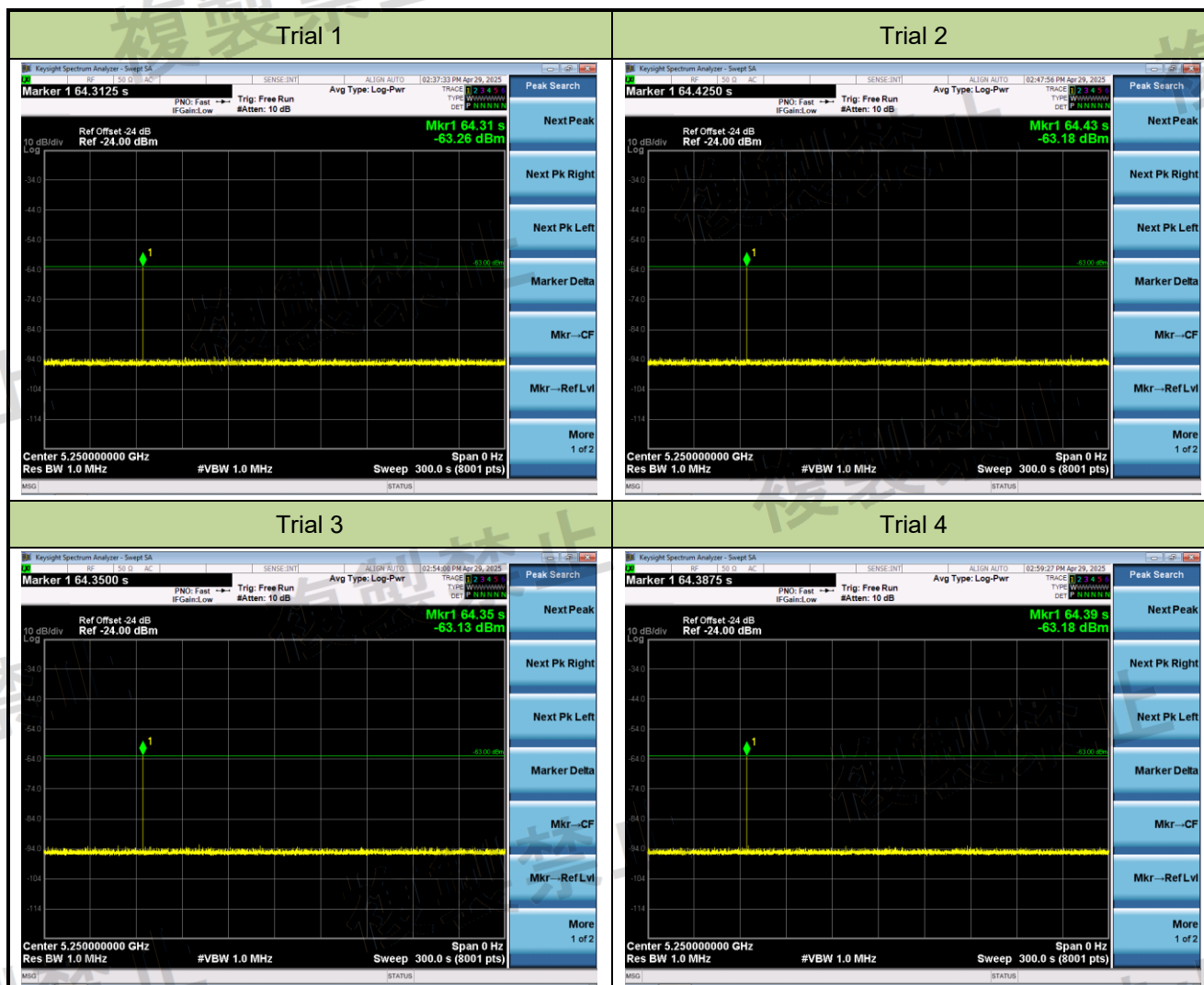
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-2		
Test Mode	Mode 1: Transmit -5250MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-2	1
2	5250	Radar Classification-2	1
3	5250	Radar Classification-2	1
4	5250	Radar Classification-2	1

Aggregate	4
Limit	>3
Test Result	Pass

Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-3		
Test Mode	Mode 1: Transmit -5250MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-3	1
2	5250	Radar Classification-3	1
3	5250	Radar Classification-3	1
4	5250	Radar Classification-3	1

Aggregate	4
Limit	>3
Test Result	Pass

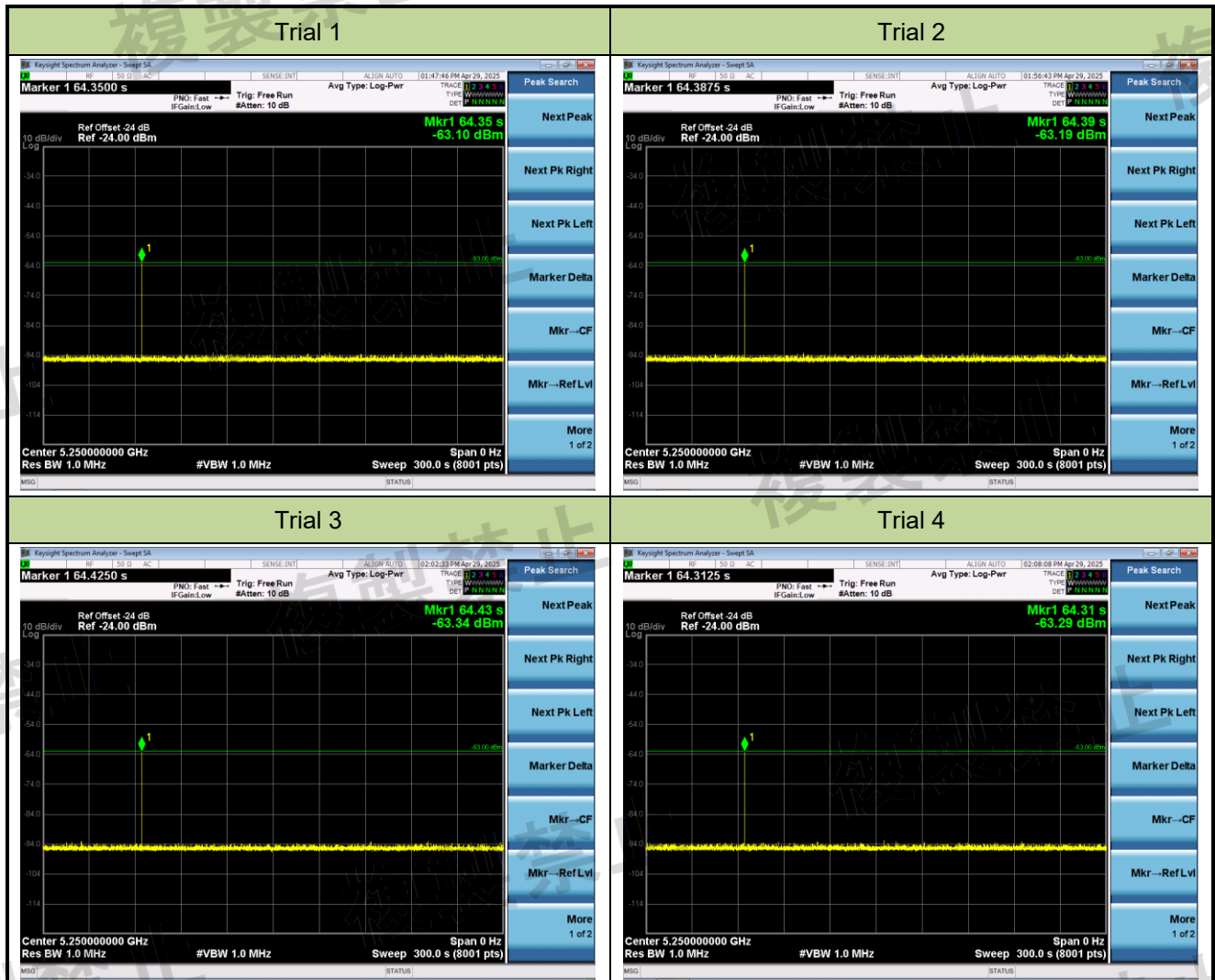
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-4		
Test Mode	Mode 1: Transmit -5250MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-4	1
2	5250	Radar Classification-4	1
3	5250	Radar Classification-4	1
4	5250	Radar Classification-4	1

Aggregate	4
Limit	>3
Test Result	Pass

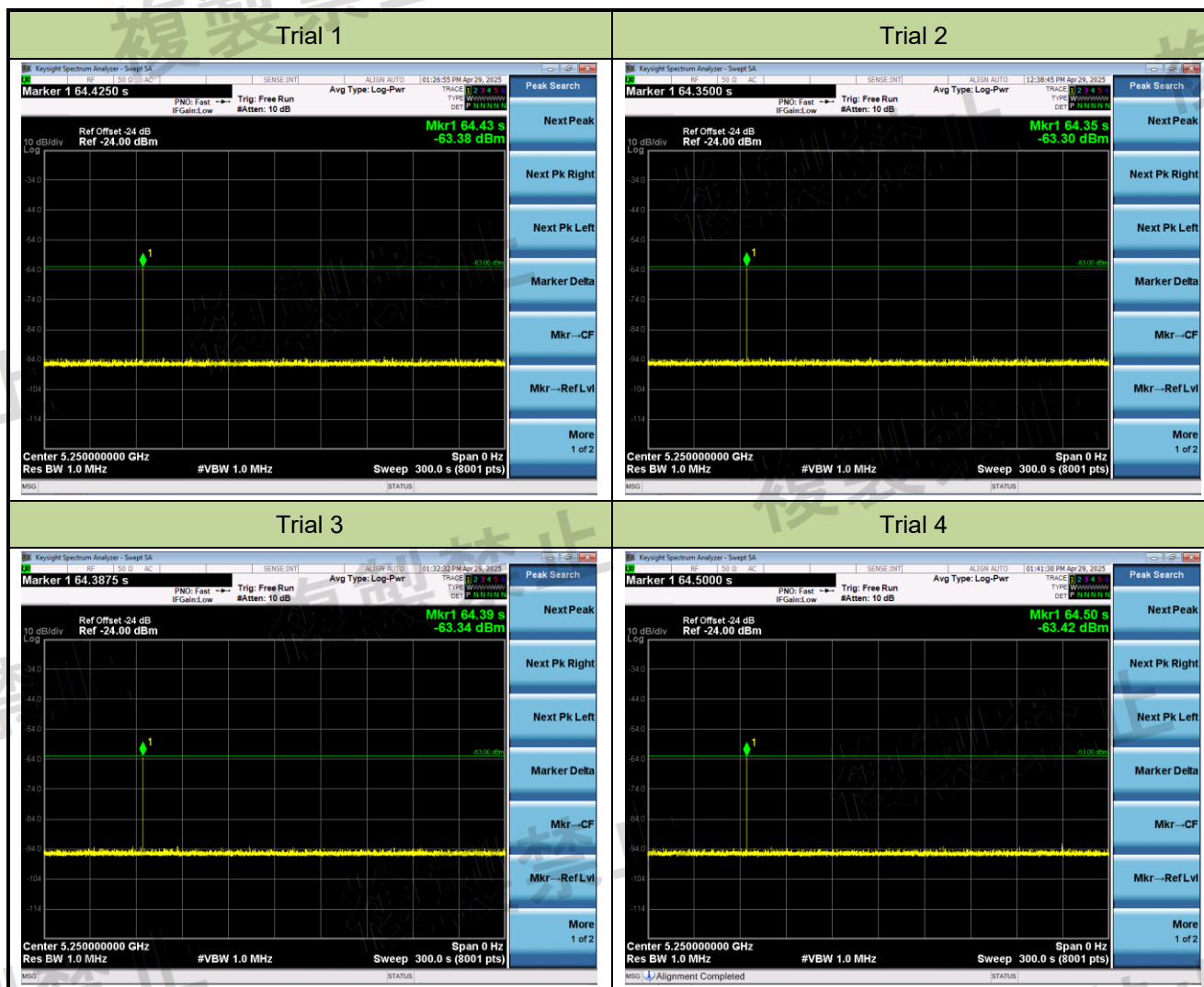
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-5		
Test Mode	Mode 1: Transmit -5250MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-5	1
2	5250	Radar Classification-5	1
3	5250	Radar Classification-5	1
4	5250	Radar Classification-5	1

Aggregate	4
Limit	>3
Test Result	Pass

Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-6		
Test Mode	Mode 1: Transmit -5250MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-6	1
2	5250	Radar Classification-6	1
3	5250	Radar Classification-6	1
4	5250	Radar Classification-6	1

Aggregate	4
Limit	>3
Test Result	Pass

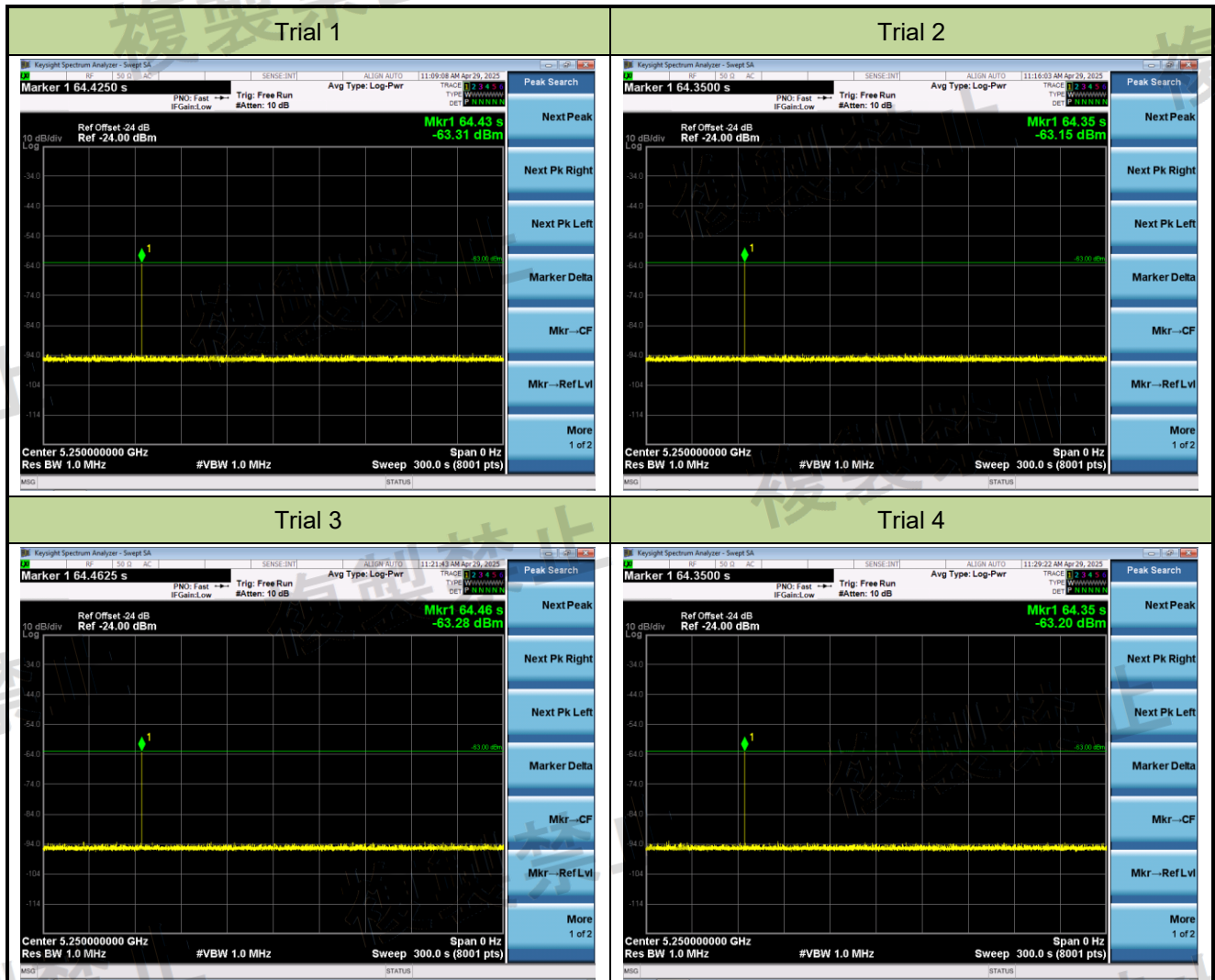
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-7		
Test Mode	Mode 1: Transmit -5250MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-7	1
2	5250	Radar Classification-7	1
3	5250	Radar Classification-7	1
4	5250	Radar Classification-7	1

Aggregate	4
Limit	>3
Test Result	Pass

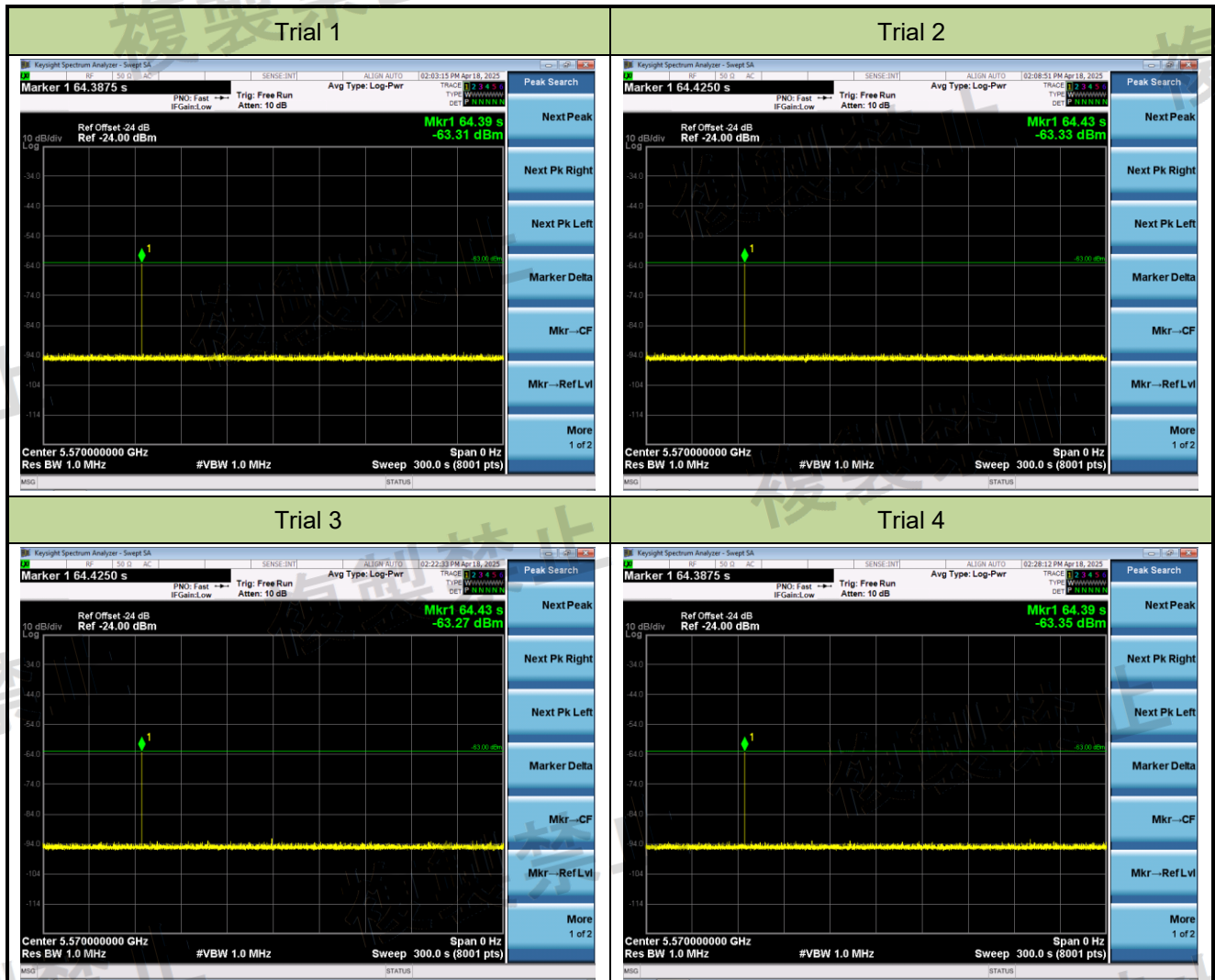
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-8		
Test Mode	Mode 1: Transmit -5250MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-8	1
2	5250	Radar Classification-8	1
3	5250	Radar Classification-8	1
4	5250	Radar Classification-8	1

Aggregate	4
Limit	>3
Test Result	Pass

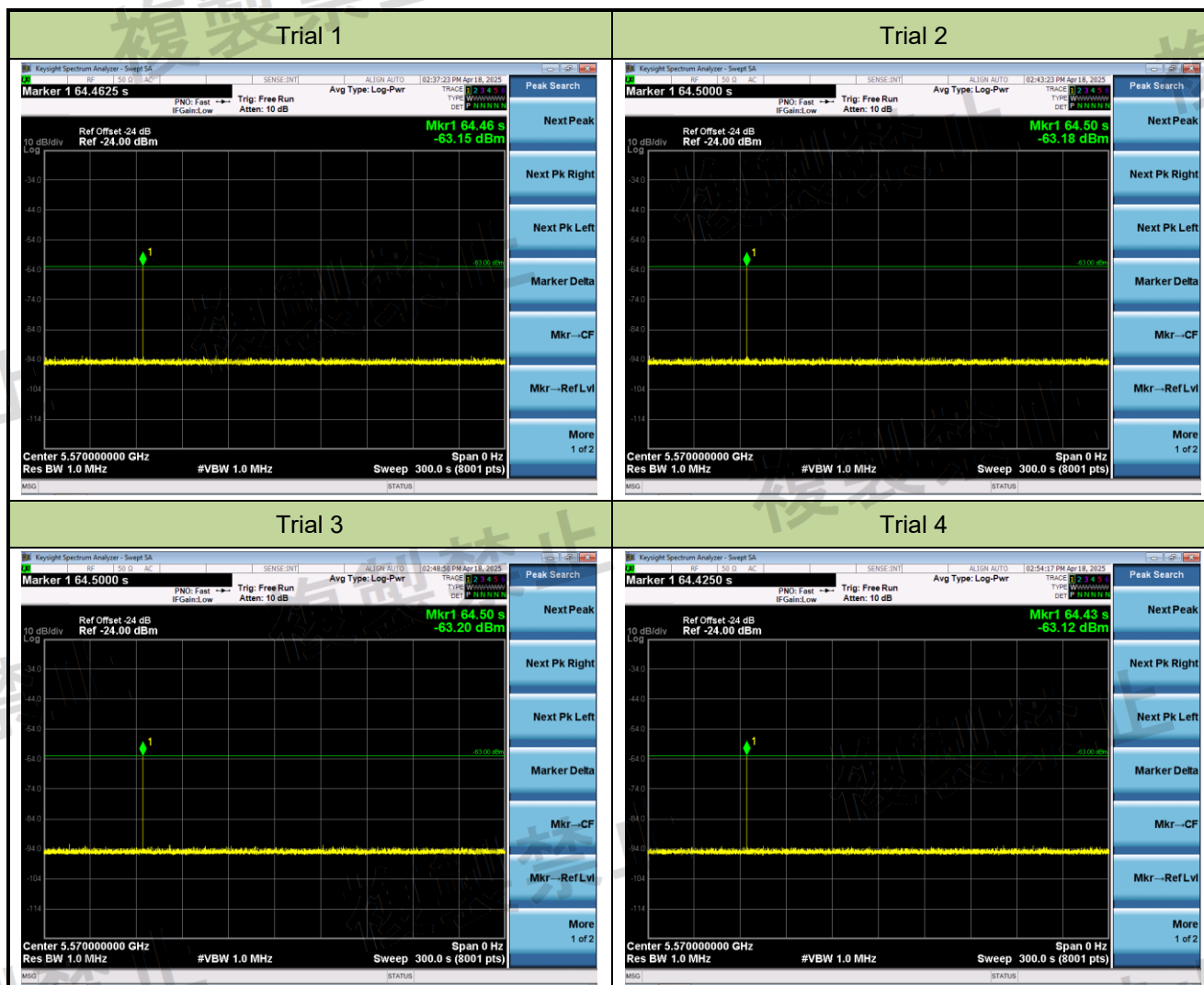
Test Site	WZ-SR4	Temperature	23.0 °C
Test Engineer	Ant Wang	Humidity	52.1 %RH
Test Date	2025-04-18		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-1		
Test Mode	Mode 1: Transmit -5570MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Radar Classification-1	1
2	5570	Radar Classification-1	1
3	5570	Radar Classification-1	1
4	5570	Radar Classification-1	1

Aggregate	4
Limit	>3
Test Result	Pass

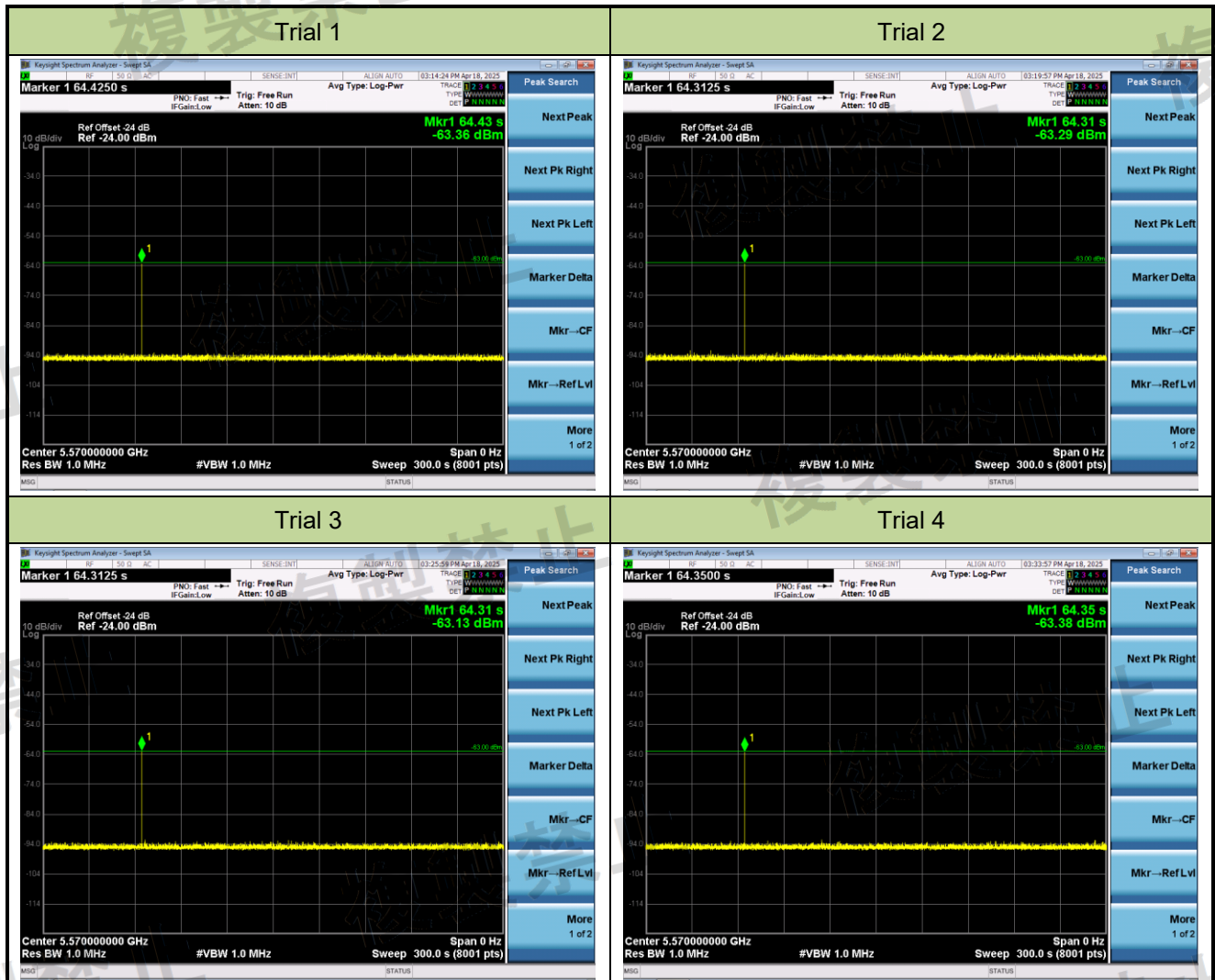
Test Site	WZ-SR4	Temperature	23.0 °C
Test Engineer	Ant Wang	Humidity	52.1 %RH
Test Date	2025-04-18		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-3		
Test Mode	Mode 1: Transmit -5570MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Radar Classification-3	1
2	5570	Radar Classification-3	1
3	5570	Radar Classification-3	1
4	5570	Radar Classification-3	1

Aggregate	4
Limit	>3
Test Result	Pass

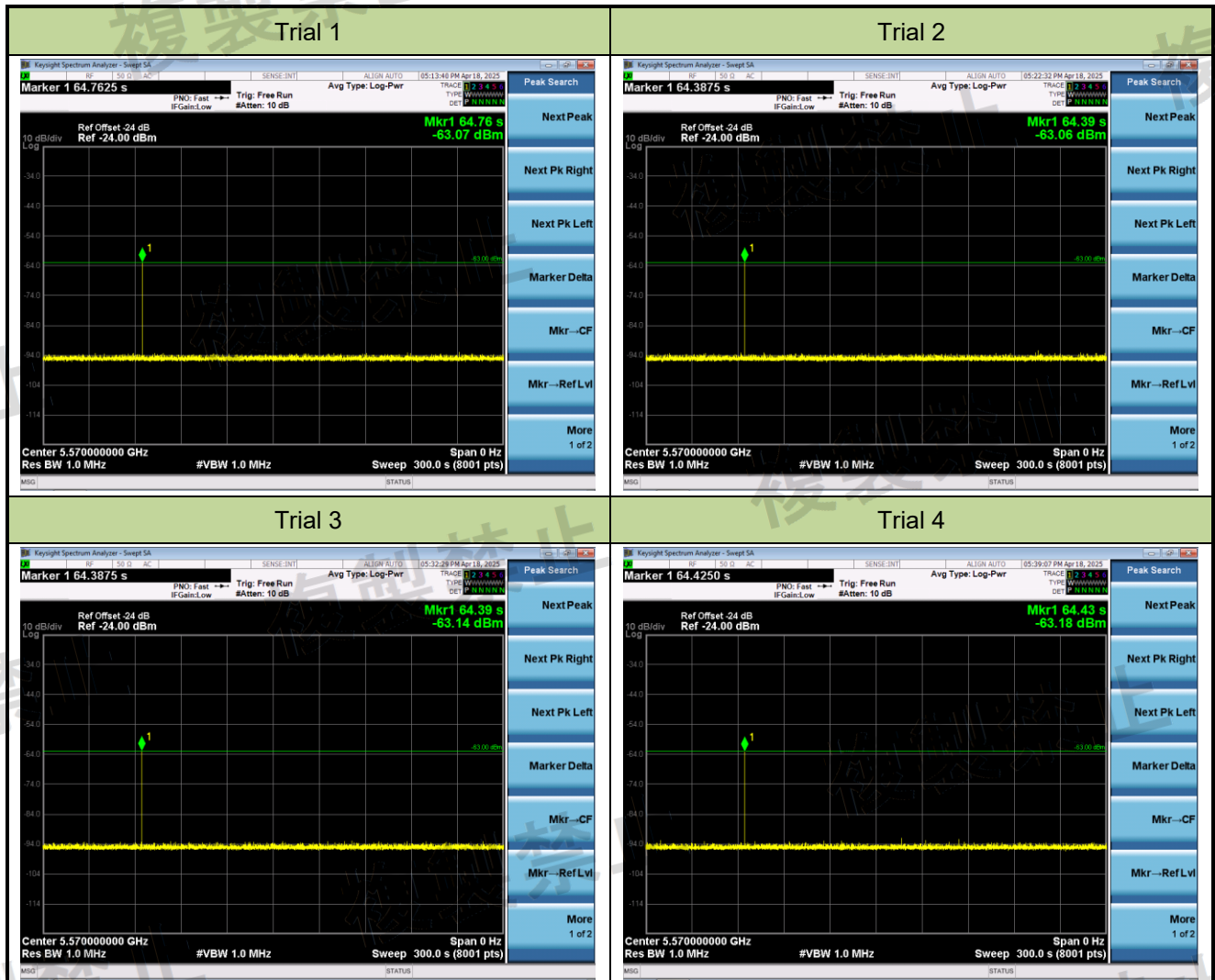
Test Site	WZ-SR4	Temperature	23.0 °C
Test Engineer	Ant Wang	Humidity	52.1 %RH
Test Date	2025-04-18		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-4		
Test Mode	Mode 1: Transmit -5570MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Radar Classification-4	1
2	5570	Radar Classification-4	1
3	5570	Radar Classification-4	1
4	5570	Radar Classification-4	1

Aggregate	4
Limit	>3
Test Result	Pass

Test Site	WZ-SR4	Temperature	23.0 °C
Test Engineer	Ant Wang	Humidity	52.1 %RH
Test Date	2025-04-18		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Radar Classification-5		
Test Mode	Mode 1: Transmit -5570MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Radar Classification-5	1
2	5570	Radar Classification-5	1
3	5570	Radar Classification-5	1
4	5570	Radar Classification-5	1

Aggregate	4
Limit	>3
Test Result	Pass

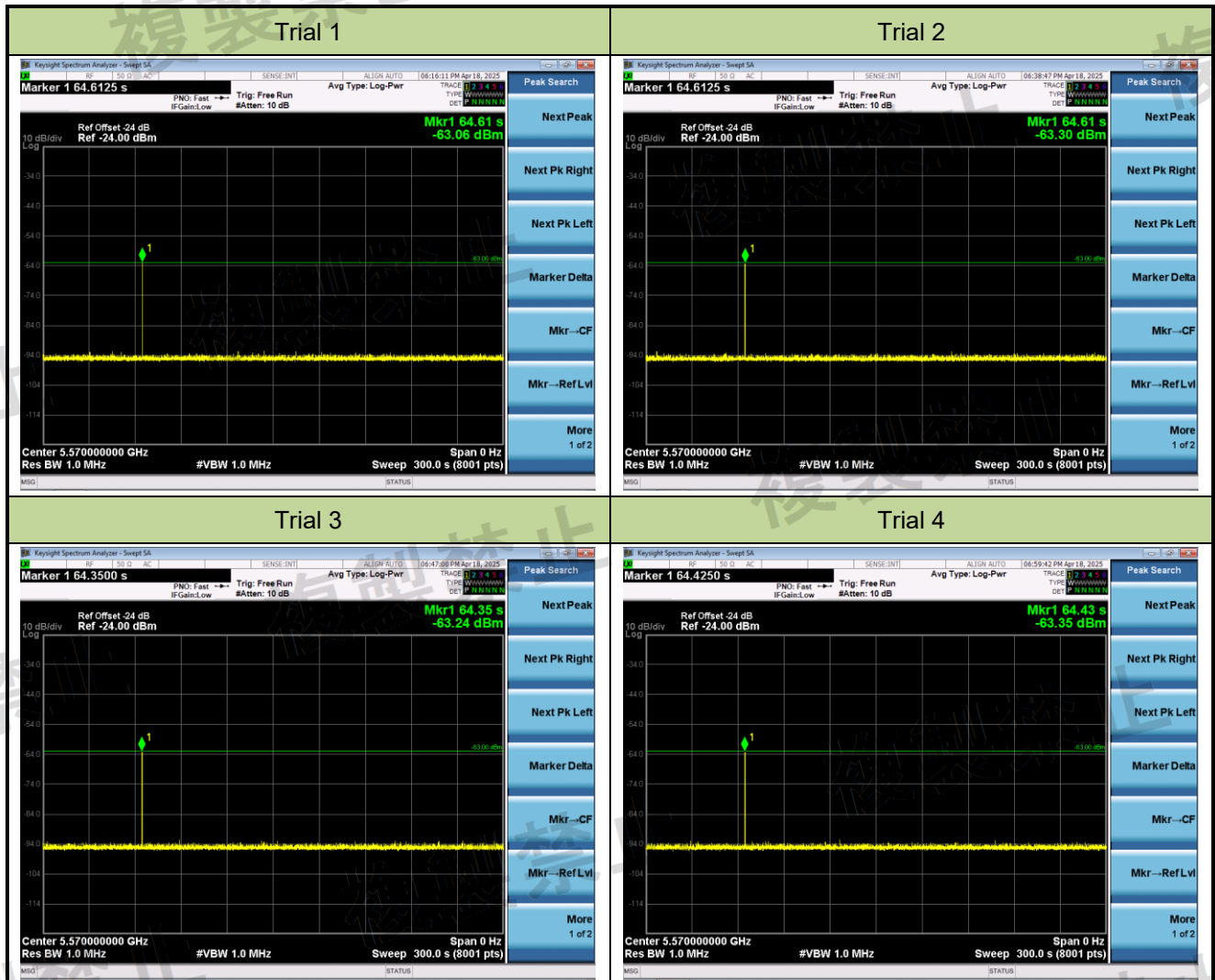
Test Site	WZ-SR4	Temperature	23.0 °C
Test Engineer	Ant Wang	Humidity	52.1 %RH
Test Date	2025-04-18		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Chirp radar		
Test Mode	Mode 1: Transmit -5570MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Radar Classification-7	1
2	5570	Radar Classification-7	1
3	5570	Radar Classification-7	1
4	5570	Radar Classification-7	1

Aggregate	4
Limit	>3
Test Result	Pass

Test Site	WZ-SR4	Temperature	23.0 °C
Test Engineer	Ant Wang	Humidity	52.1 %RH
Test Date	2025-04-18		
Test Item	Radar Burst at the Beginning of the Channel Availability Check Time		
Radar Type	Hopping radar		
Test Mode	Mode 1: Transmit -5570MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Radar Classification-8	1
2	5570	Radar Classification-8	1
3	5570	Radar Classification-8	1
4	5570	Radar Classification-8	1

Aggregate	4
Limit	>3
Test Result	Pass

5.5. Radar Burst at the End of the Channel Availability Check Time Measurement

5.5.1. Test Limit

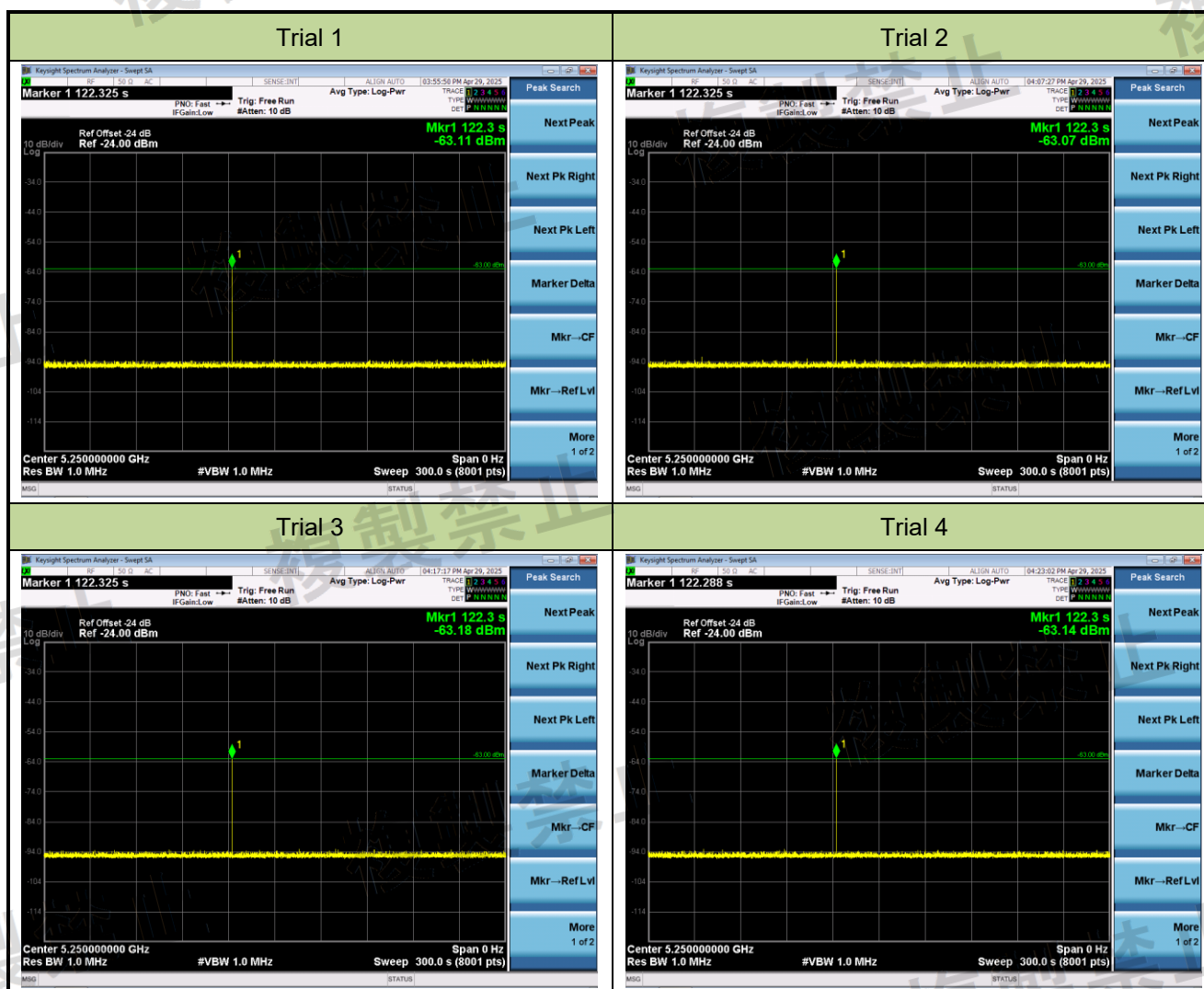
In the end of Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

5.5.2. Test Procedure

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold occurs at the beginning of the Channel Availability Check Time.
2. The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of short pulse of radar type 1 at DFS Detection Threshold will commence within a 2 second window starting at T1+ 58 seconds.
3. Visual indication on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5250MHz and 5570MHz will continue for 1.5 minutes after the radar Burst has been generated.

5.5.3. Test Result

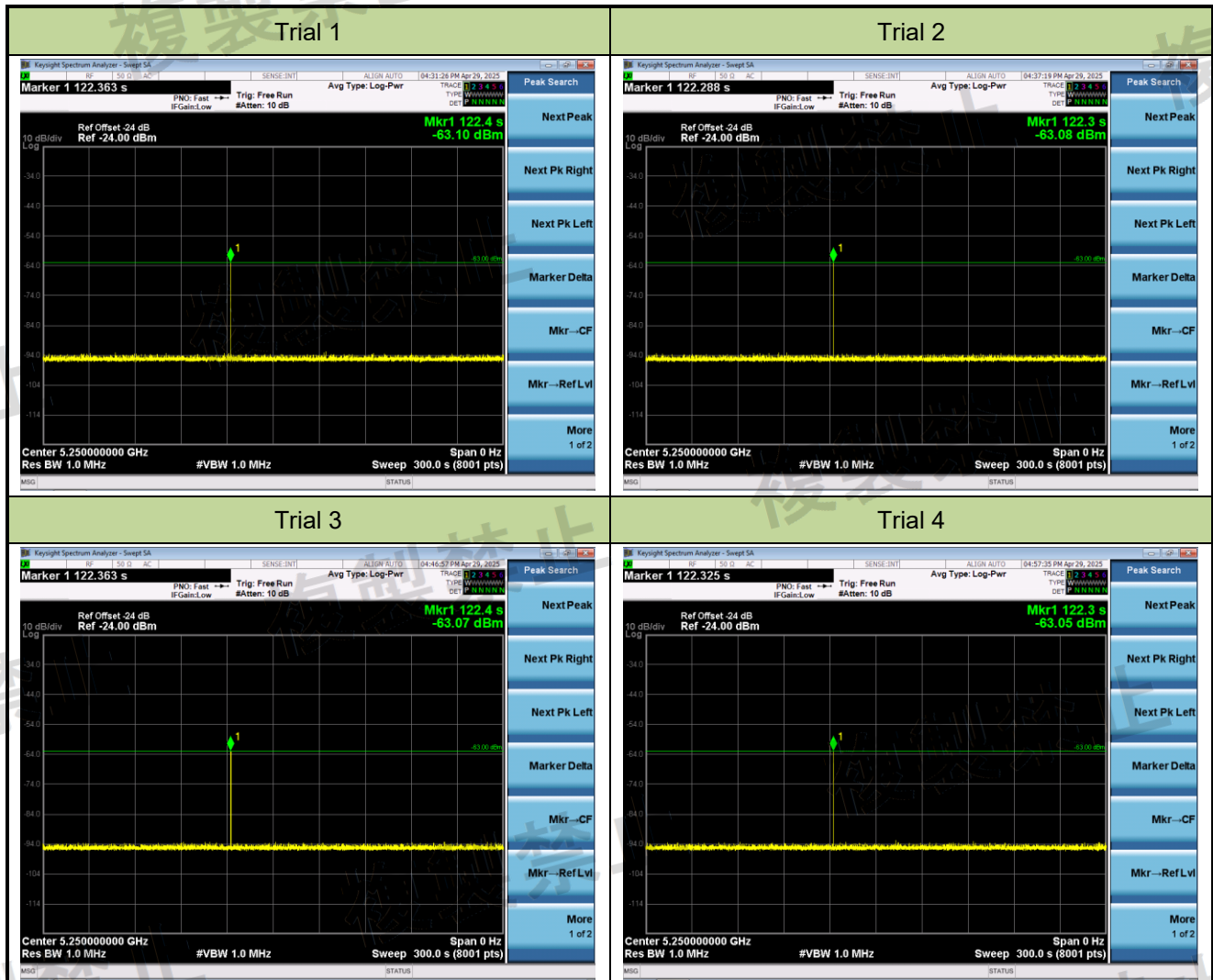
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-1		
Test Mode	Mode 1: Transmit -5250MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-1	1
2	5250	Radar Classification-1	1
3	5250	Radar Classification-1	1

4	5250	Radar Classification-1	1
Aggregate			4
Limit			>3
Test Result			Pass

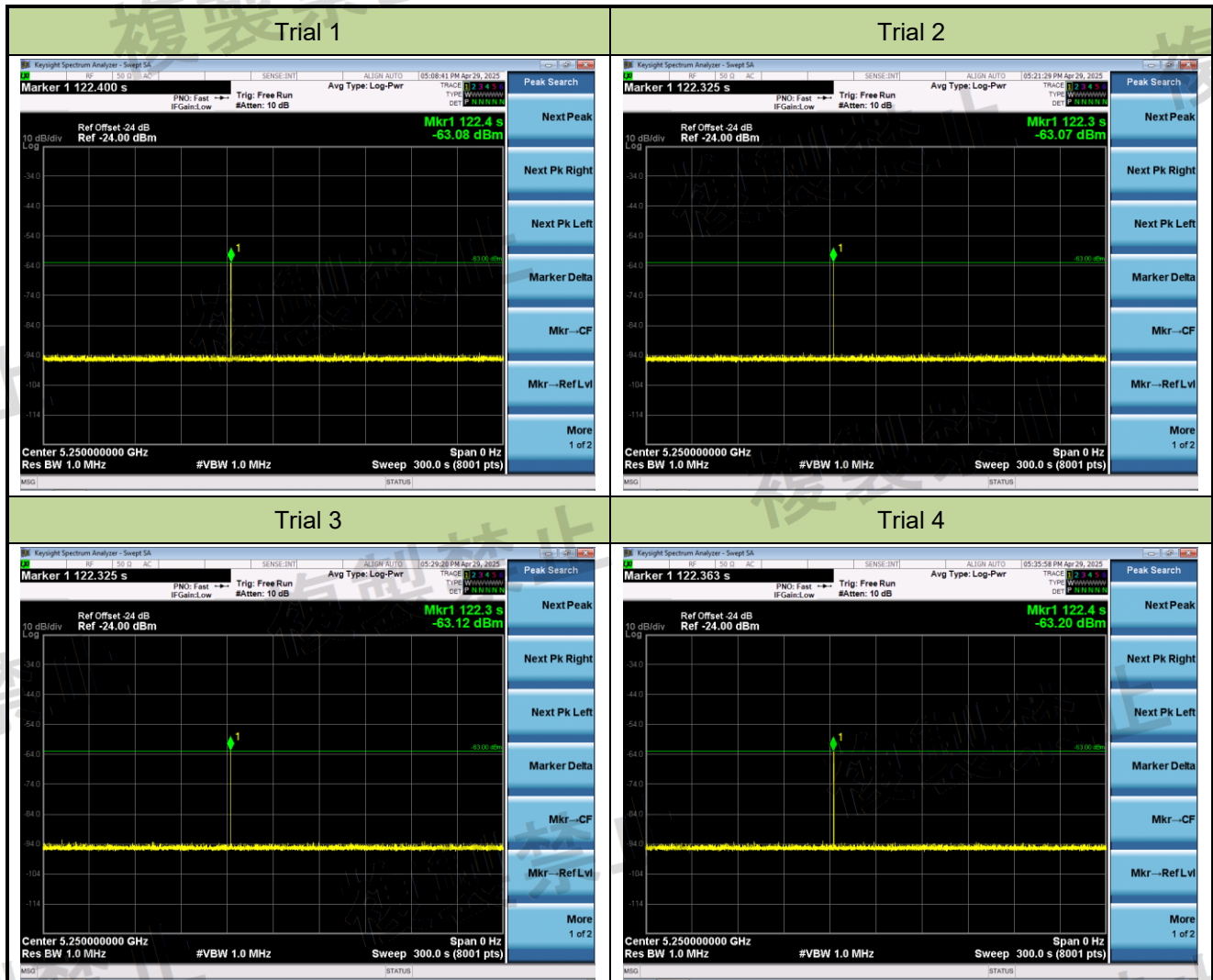
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-2		
Test Mode	Mode 1: Transmit -5250MHz		



Beginning of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-2	1
2	5250	Radar Classification-2	1
3	5250	Radar Classification-2	1
4	5250	Radar Classification-2	1

Aggregate	4
Limit	>3
Test Result	Pass

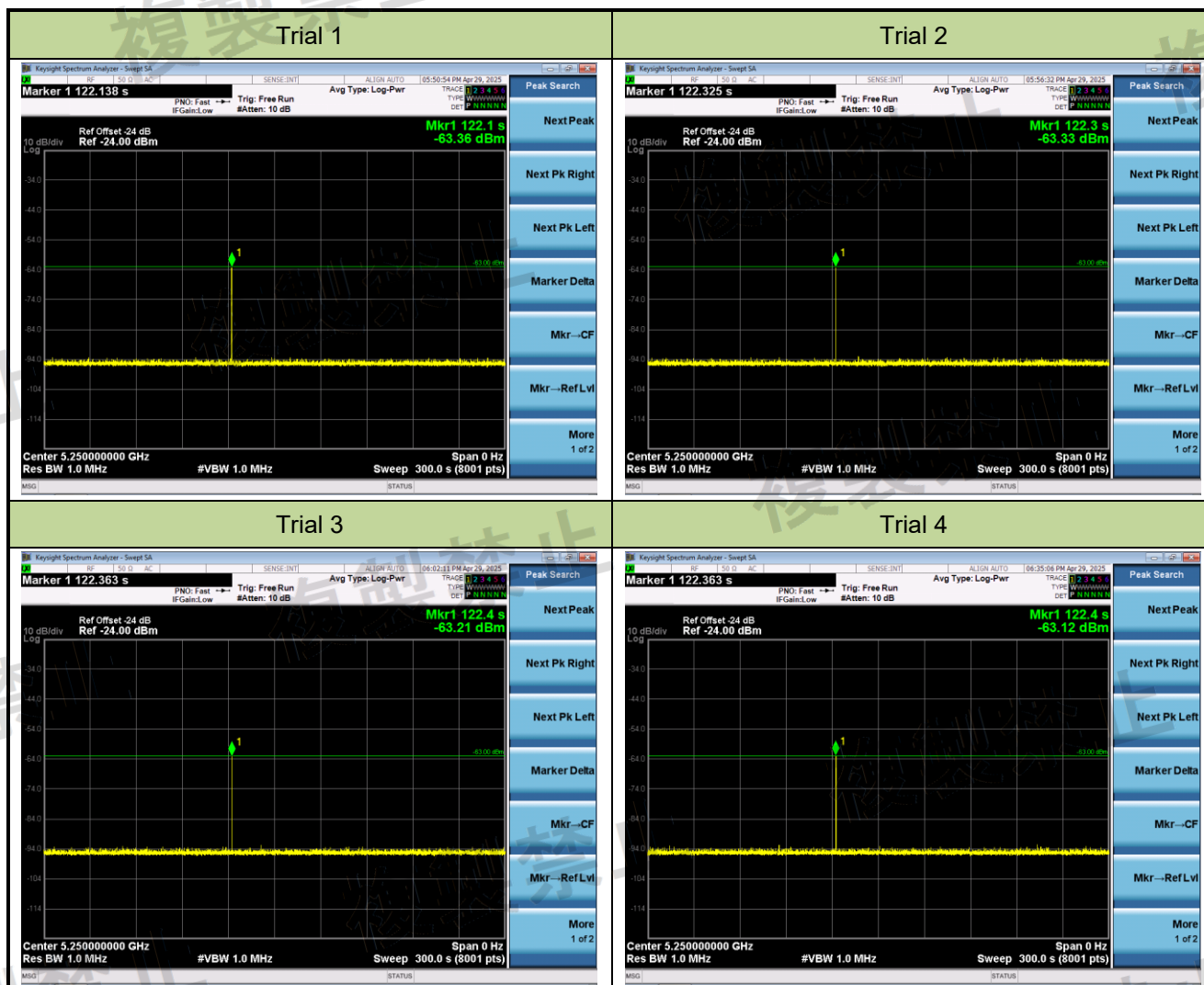
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-3		
Test Mode	Mode 1: Transmit -5250MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-3	1
2	5250	Radar Classification-3	1
3	5250	Radar Classification-3	1
4	5250	Radar Classification-3	1

Aggregate	4
Limit	>3
Test Result	Pass

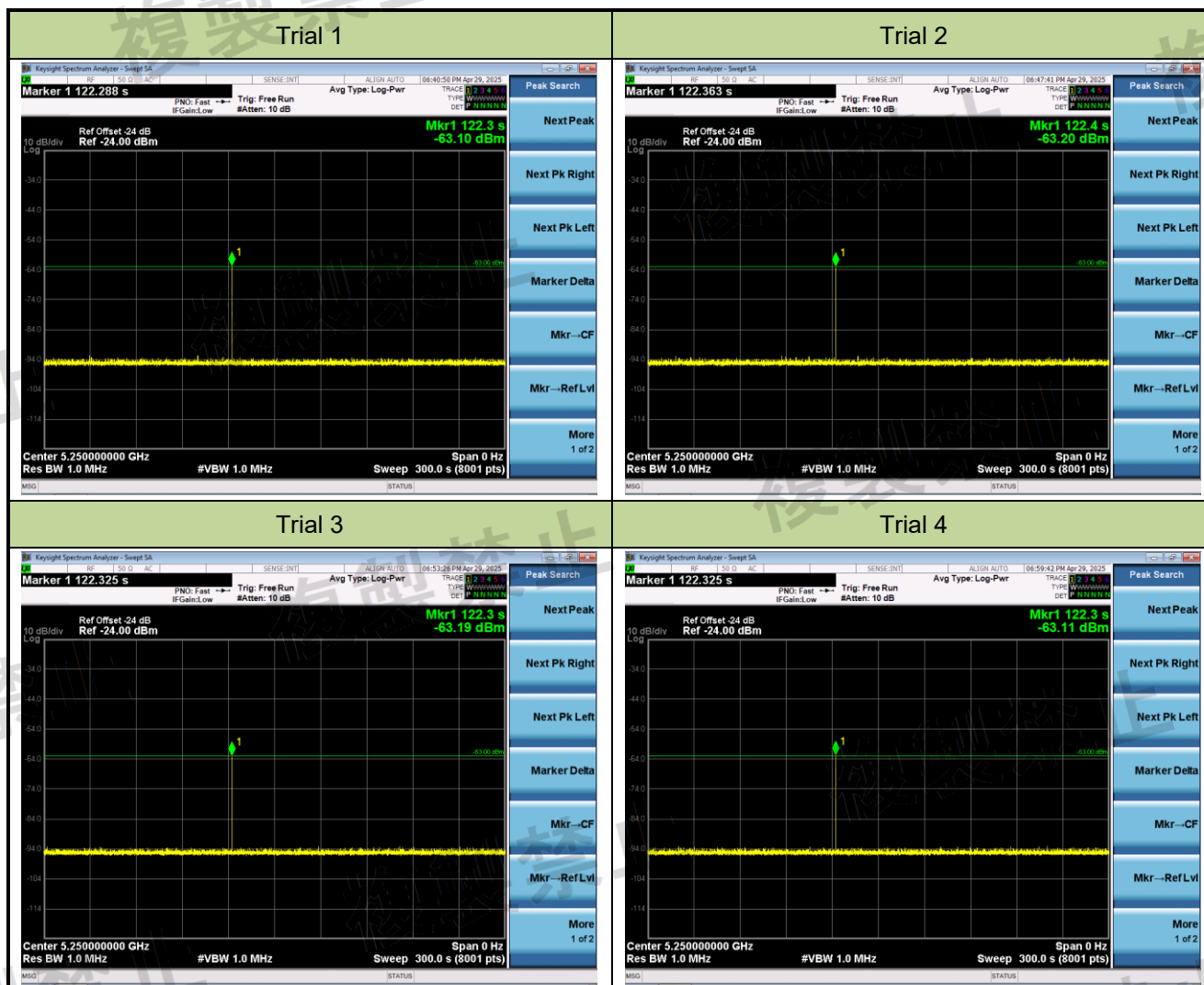
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-4		
Test Mode	Mode 1: Transmit -5250MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-4	1
2	5250	Radar Classification-4	1
3	5250	Radar Classification-4	1
4	5250	Radar Classification-4	1

Aggregate	4
Limit	>3
Test Result	Pass

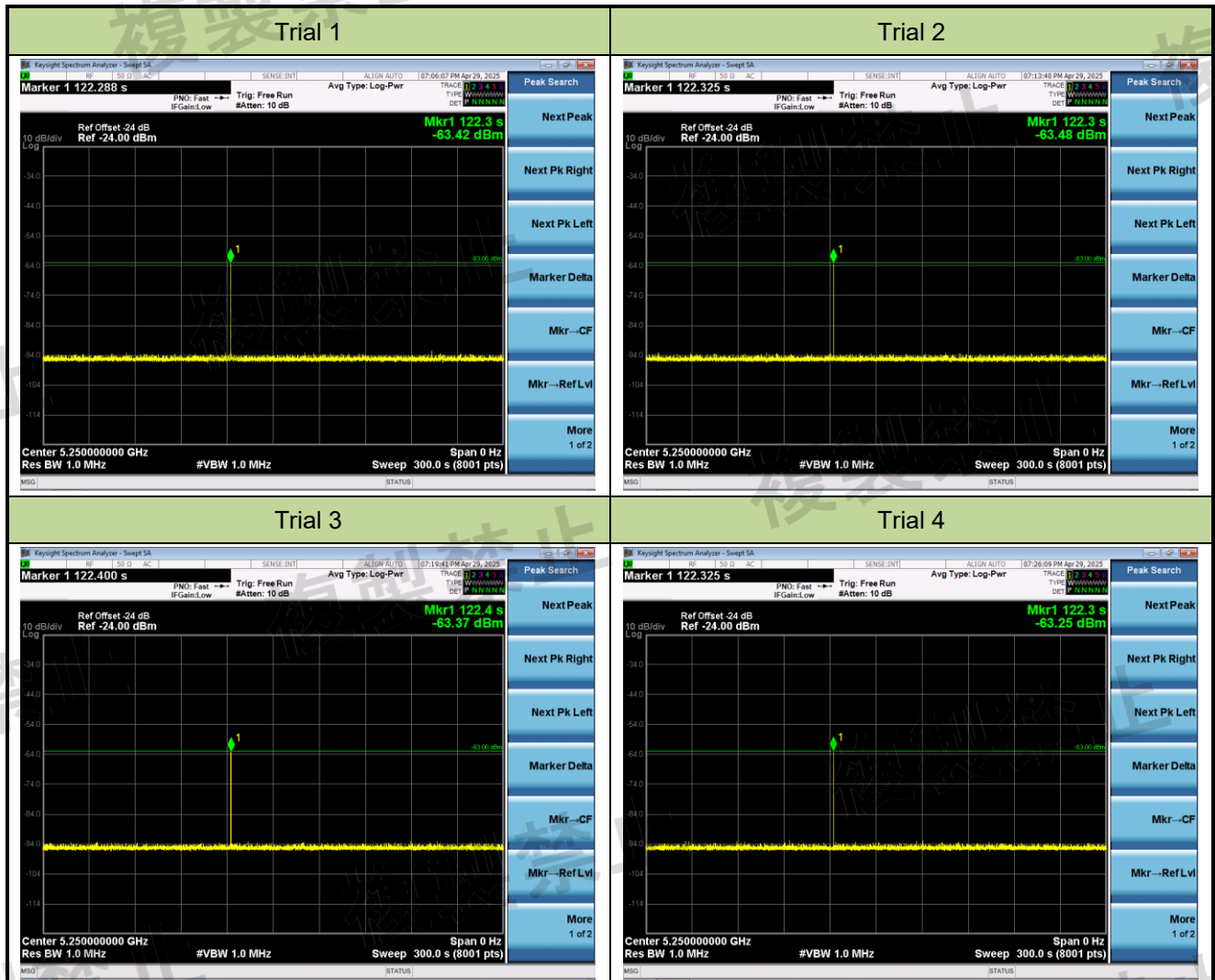
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-5		
Test Mode	Mode 1: Transmit -5250MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-5	1
2	5250	Radar Classification-5	1
3	5250	Radar Classification-5	1
4	5250	Radar Classification-5	1

Aggregate	4
Limit	>3
Test Result	Pass

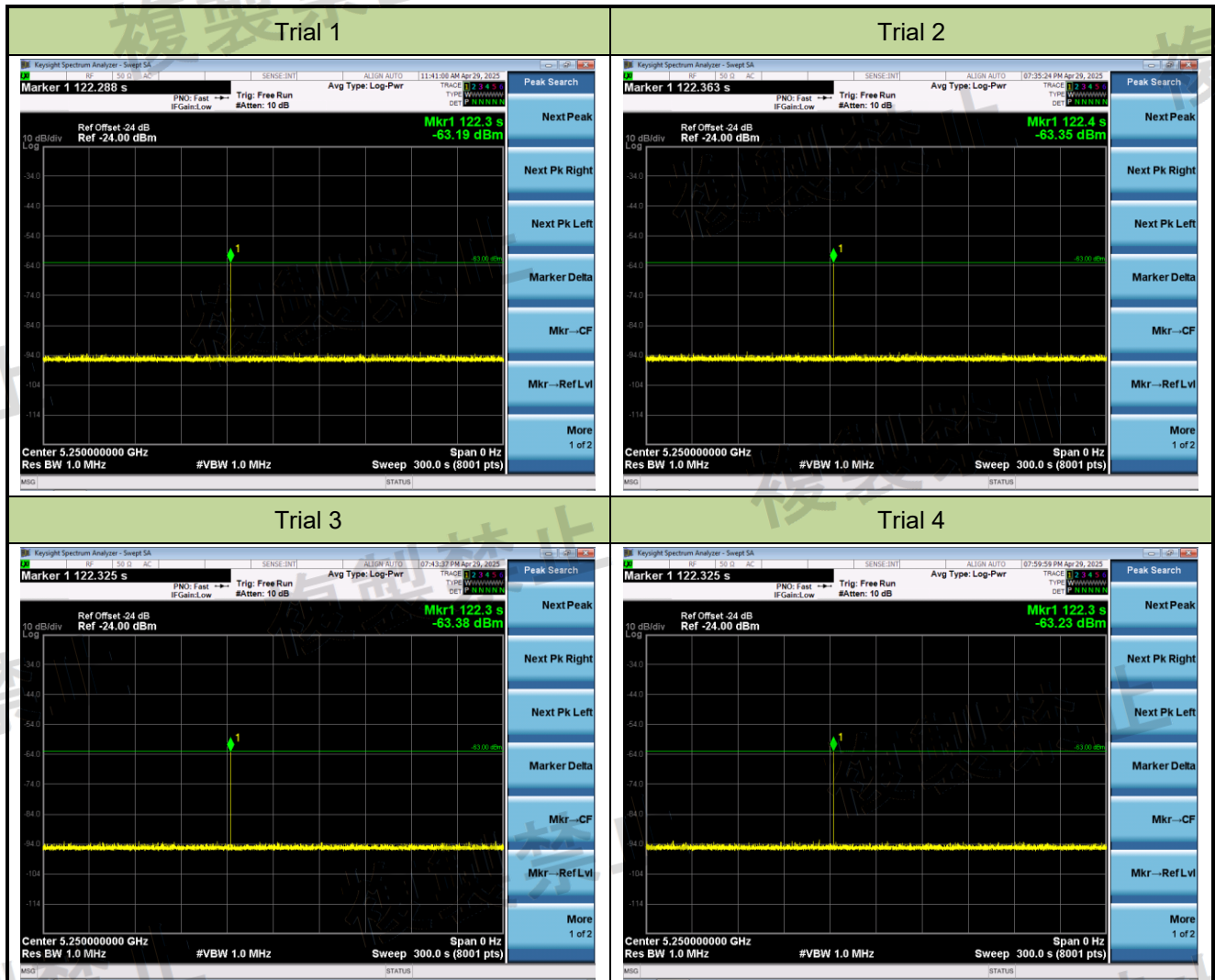
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-6		
Test Mode	Mode 1: Transmit -5250MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-6	1
2	5250	Radar Classification-6	1
3	5250	Radar Classification-6	1
4	5250	Radar Classification-6	1

Aggregate	4
Limit	>3
Test Result	Pass

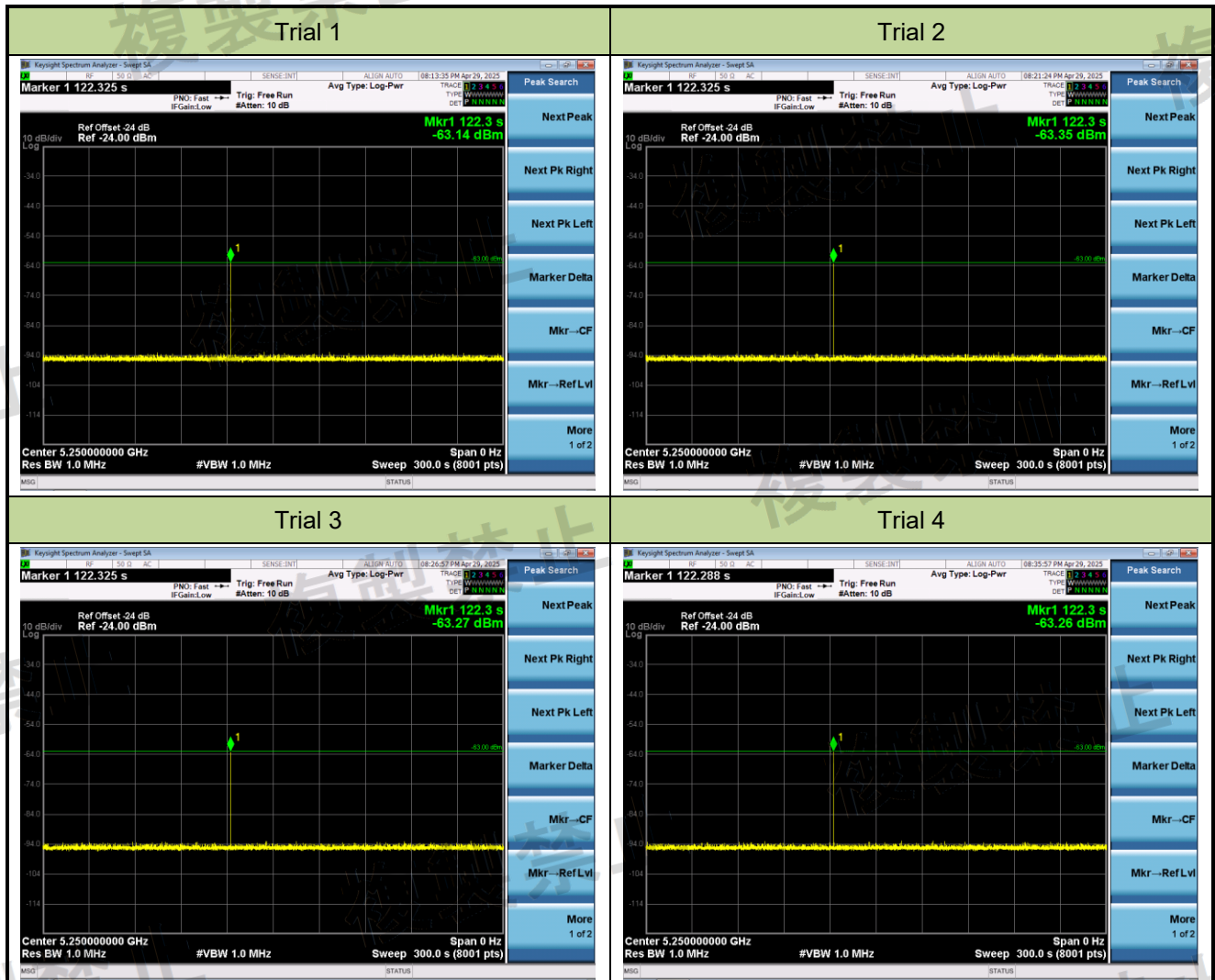
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-7		
Test Mode	Mode 1: Transmit -5250MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-7	1
2	5250	Radar Classification-7	1
3	5250	Radar Classification-7	1
4	5250	Radar Classification-7	1

Aggregate	4
Limit	>3
Test Result	Pass

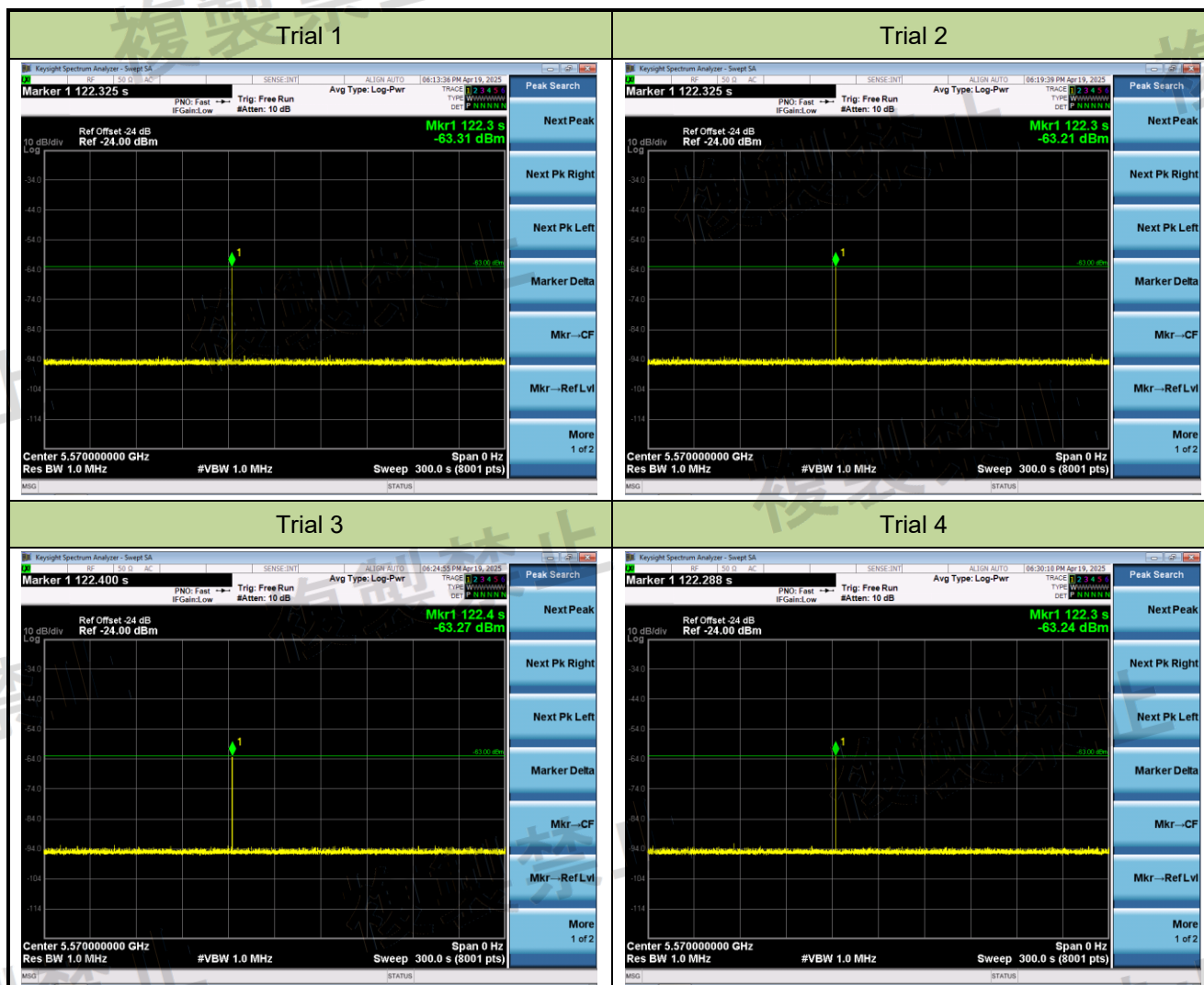
Test Site	WZ-SR4	Temperature	23.4 °C
Test Engineer	Ant Wang	Humidity	49.6 %RH
Test Date	2025-04-29		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-8		
Test Mode	Mode 1: Transmit -5250MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5250	Radar Classification-8	1
2	5250	Radar Classification-8	1
3	5250	Radar Classification-8	1
4	5250	Radar Classification-8	1

Aggregate	4
Limit	>3
Test Result	Pass

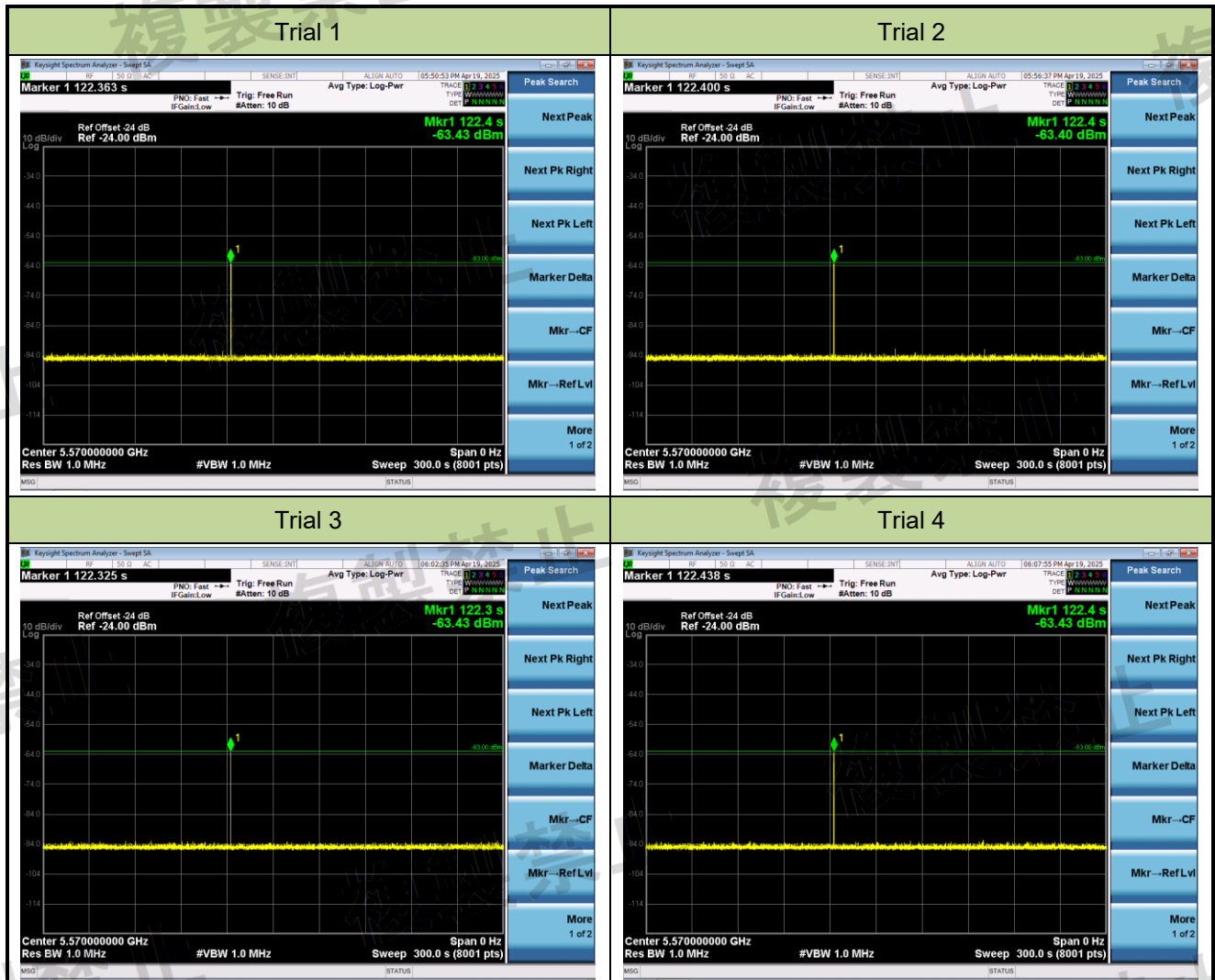
Test Site	WZ-SR4	Temperature	24.0 °C
Test Engineer	Ant Wang	Humidity	56.7 %RH
Test Date	2025-04-19		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-1		
Test Mode	Mode 1: Transmit -5570MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Radar Classification-1	1
2	5570	Radar Classification-1	1
3	5570	Radar Classification-1	1
4	5570	Radar Classification-1	1

Aggregate	4
Limit	>3
Test Result	Pass

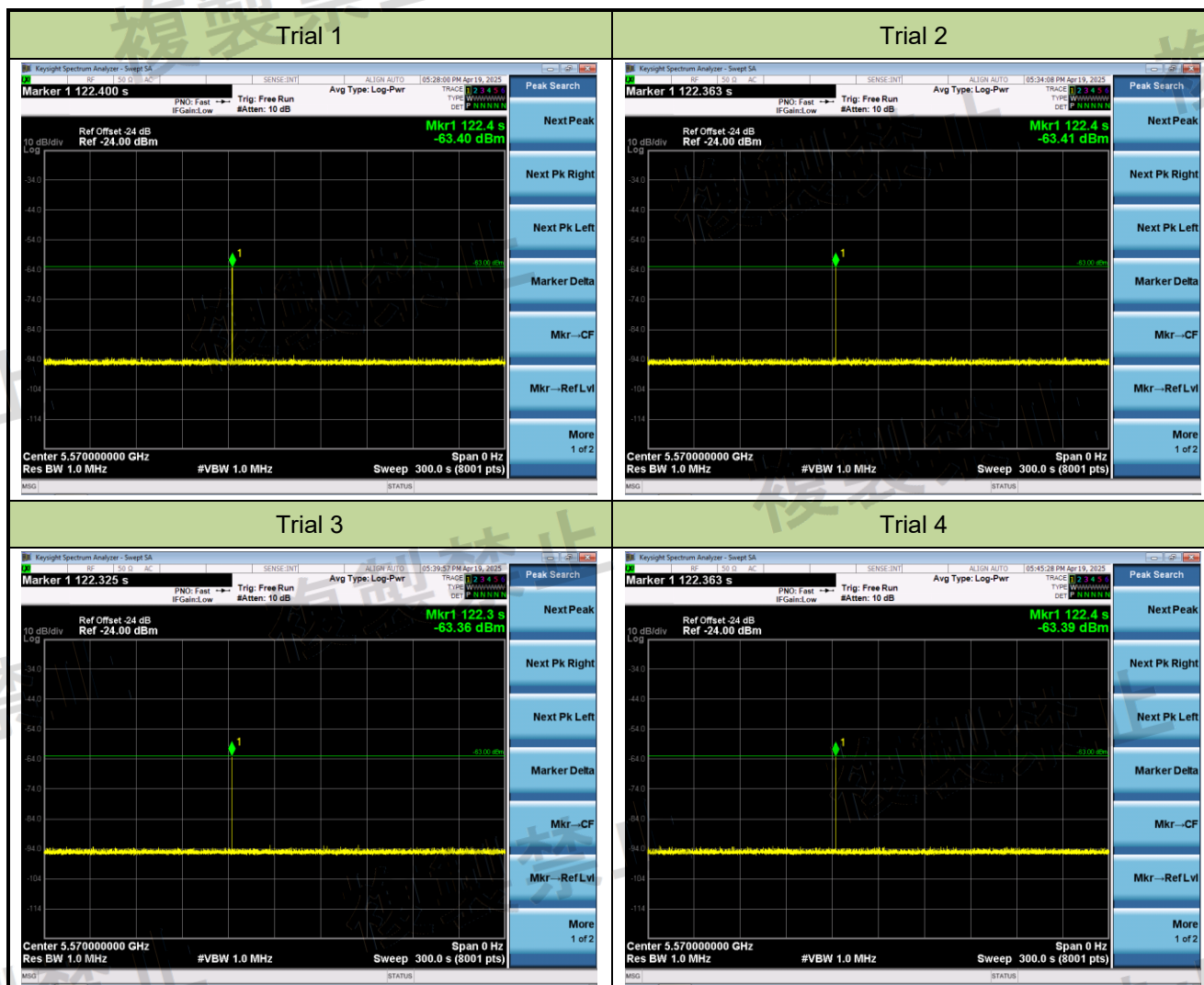
Test Site	WZ-SR4	Temperature	24.0 °C
Test Engineer	Ant Wang	Humidity	56.7 %RH
Test Date	2025-04-19		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-3		
Test Mode	Mode 1: Transmit -5570MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Radar Classification-3	1
2	5570	Radar Classification-3	1
3	5570	Radar Classification-3	1
4	5570	Radar Classification-3	1

Aggregate	4
Limit	>3
Test Result	Pass

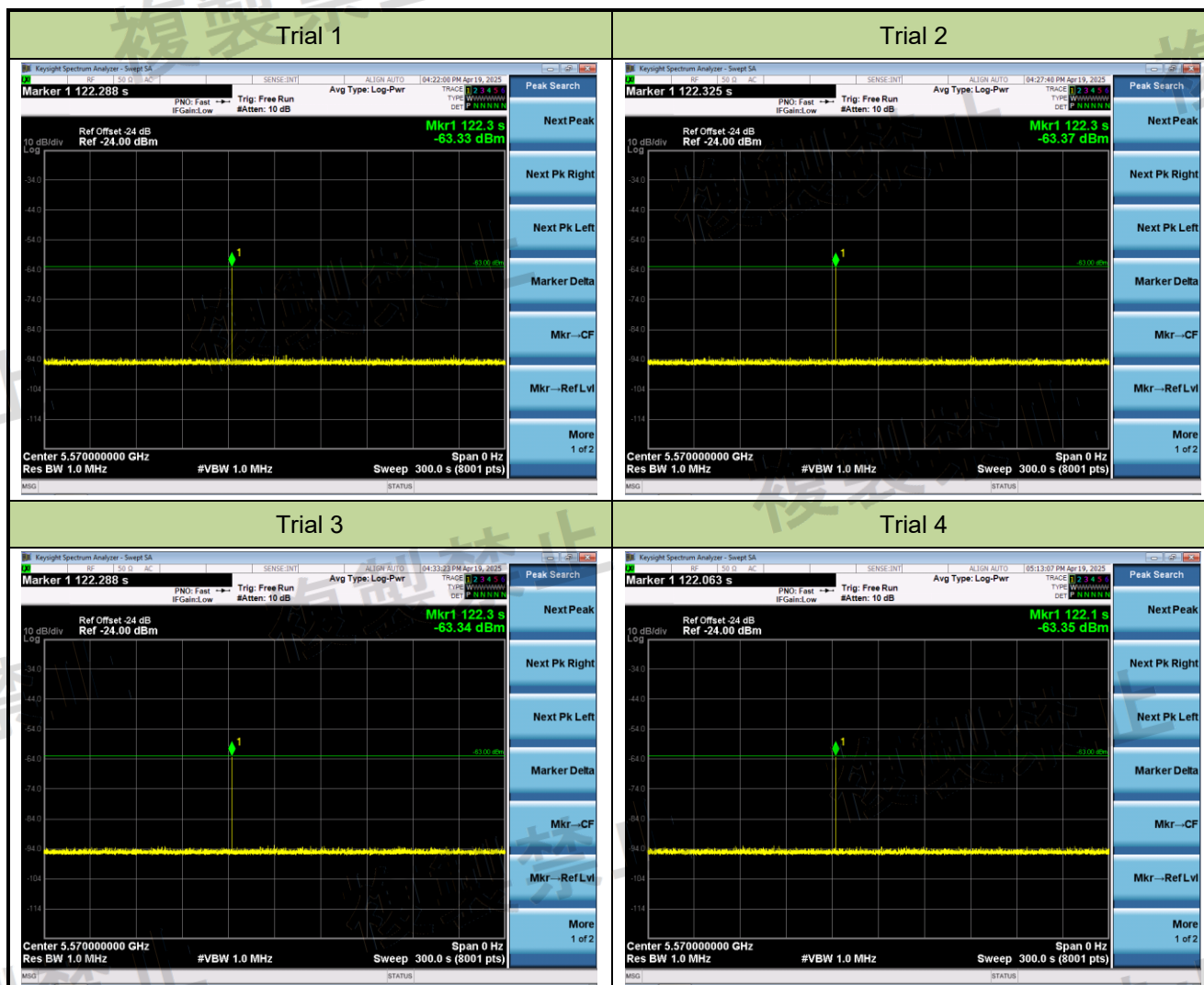
Test Site	WZ-SR4	Temperature	24.0 °C
Test Engineer	Ant Wang	Humidity	56.7 %RH
Test Date	2025-04-19		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-4		
Test Mode	Mode 1: Transmit -5570MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Radar Classification-4	1
2	5570	Radar Classification-4	1
3	5570	Radar Classification-4	1
4	5570	Radar Classification-4	1

Aggregate	4
Limit	>3
Test Result	Pass

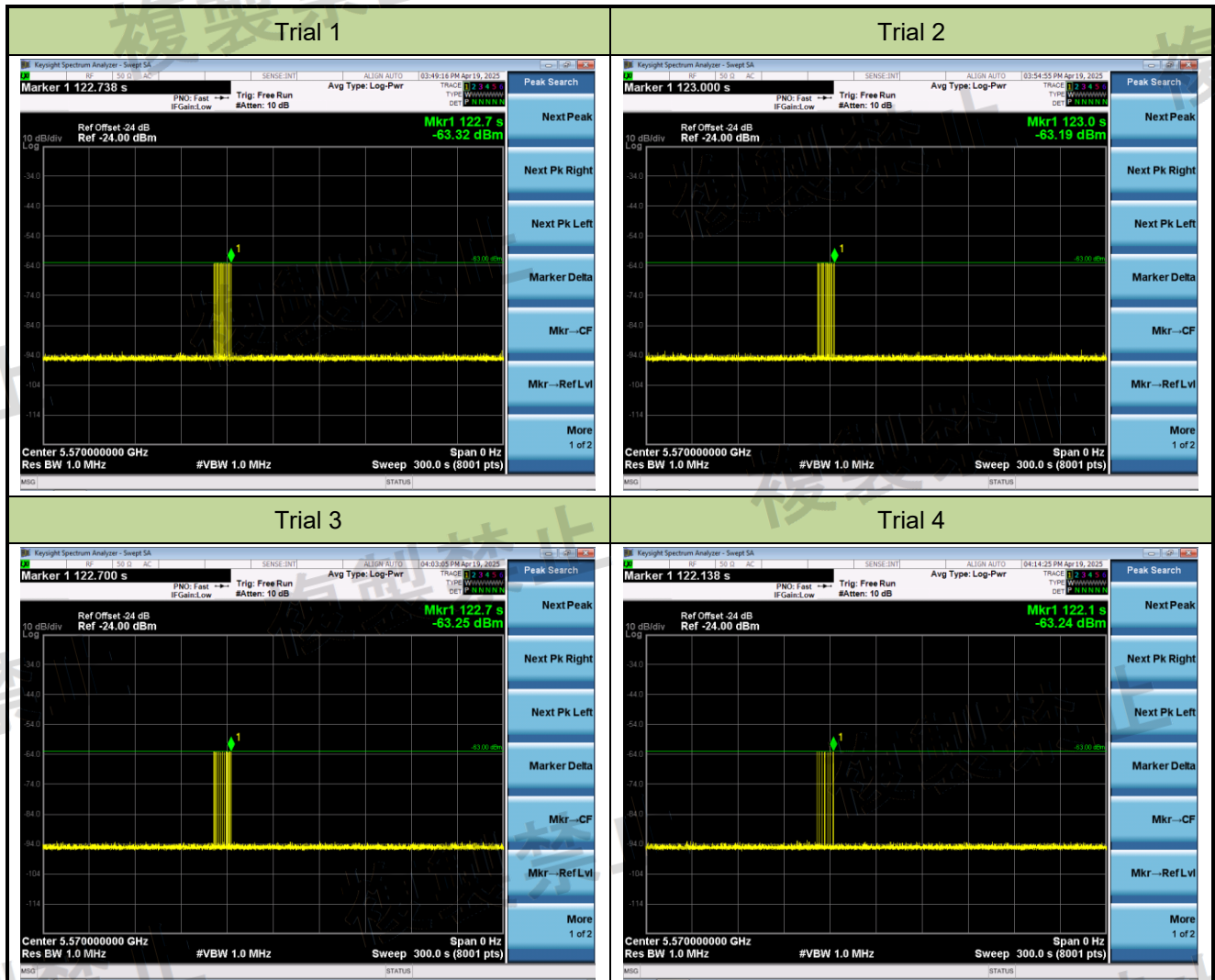
Test Site	WZ-SR4	Temperature	24.0 °C
Test Engineer	Ant Wang	Humidity	56.7 %RH
Test Date	2025-04-19		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Radar Classification-5		
Test Mode	Mode 1: Transmit -5570MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Radar Classification-5	1
2	5570	Radar Classification-5	1
3	5570	Radar Classification-5	1
4	5570	Radar Classification-5	1

Aggregate	4
Limit	>3
Test Result	Pass

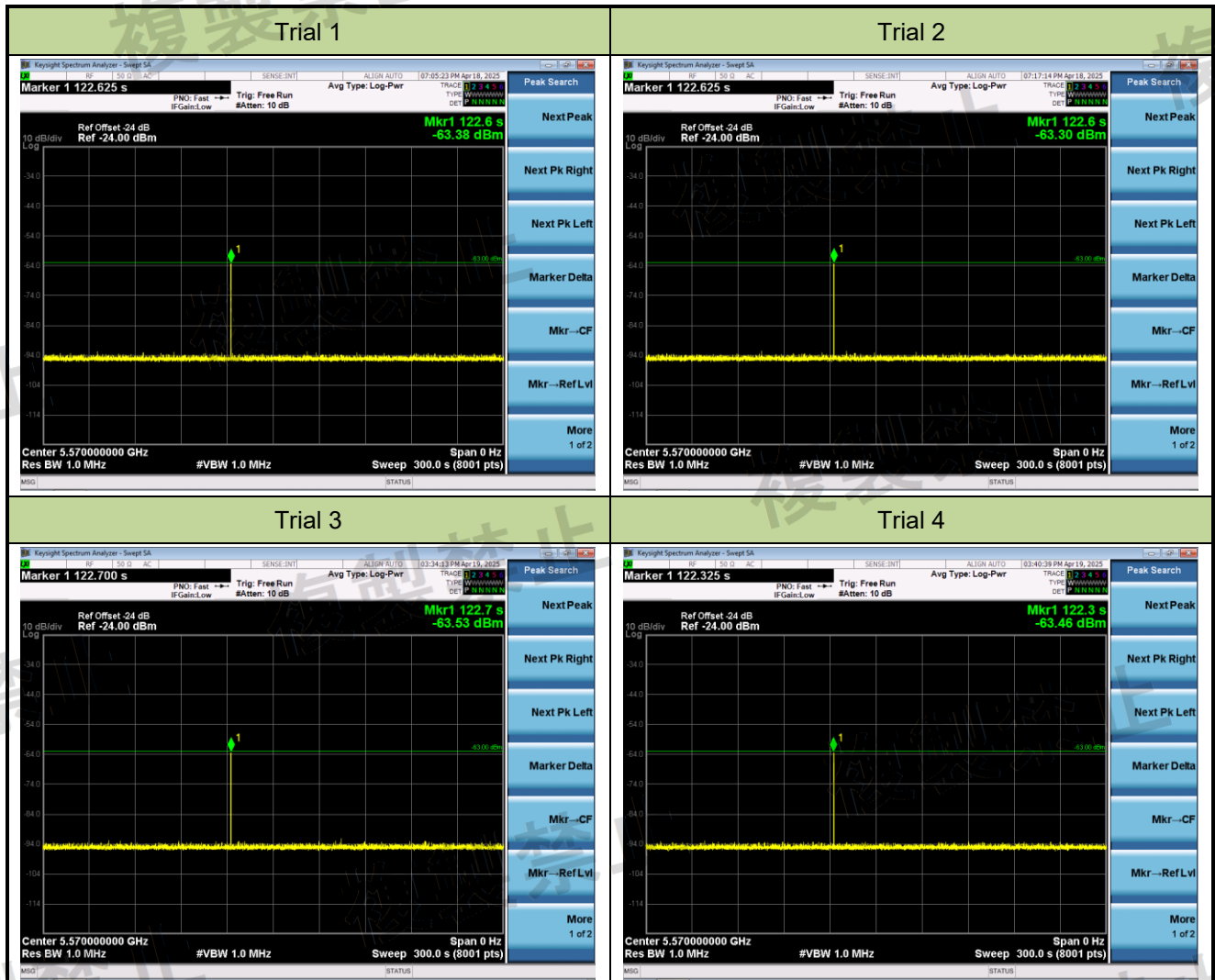
Test Site	WZ-SR4	Temperature	24.0 °C
Test Engineer	Ant Wang	Humidity	56.7 %RH
Test Date	2025-04-19		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Chirp radar		
Test Mode	Mode 1: Transmit -5570MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Chirp radar	1
2	5570	Chirp radar	1
3	5570	Chirp radar	1
4	5570	Chirp radar	1

Aggregate	4
Limit	>3
Test Result	Pass

Test Site	WZ-SR4	Temperature	23.0 ~ 24.0 °C
Test Engineer	Ant Wang	Humidity	52.1 ~ 56.7 %RH
Test Date	2025-04-18 ~ 2025-04-19		
Test Item	Radar Burst at the End of the Channel Availability Check Time		
Radar Type	Hopping radar		
Test Mode	Mode 1: Transmit -5570MHz		



End of the Channel Availability Check			
Trial #	Frequency (MHz)	Radar Type	1= Detection 0= No Detection
1	5570	Hopping radar	1
2	5570	Hopping radar	1
3	5570	Hopping radar	1
4	5570	Hopping radar	1

Aggregate	4
Limit	>3
Test Result	Pass

5.6. Statistical Performance Check

5.6.1. Test Limit

A. Indicate the test result with "Pass" if EUT has detected a quasi radar pulse 15 times or more in Step (4)-(ii)-F and with "Fail" if it has detected the pulse 10 times or less.

B. If you followed Step (4)-(ii)-G, indicate the test result with "Pass" when EUT detected a quasi radar pulse 24 times or more and with "Fail" when it detected the pulse 23 times or less.

C. In conjunction with "Pass" or "Fail" in A and B above, indicate the number of pulse detections and the number of tests for each of Fixed Pulse 1 and Fixed Pulse 2.

D. Regarding "control function from master station to slave station," "operating channel monitoring function and transmission stop time," and "time period during which transmission stops when radar emissions have been detected by monitoring operating channels," confirm them with the application document.

For W56 band

A. In the case of the fixed pulse and variable pulse radar wave test signals

(a) For the six types of test signals prescribed in (2)-(ii)-A and -B, describe the test result with "Pass" if EUT has detected a quasi radar pulse 18 times or more in Step (4)-(ii)-F-(a) and with "Fail" if it has detected the pulse 10 times or less.

(b) If you followed Step (4)-(ii)-F-(c), describe the test result with "Pass" when the total number of occurrences of quasi radar pulse detection is 32 or more and with "Fail" when it is 23 or less.

(c) If you followed Step (4)-(ii)-G, find the detection probability with the number of instances of detecting a quasi radar pulse and the number of tests for each of the six types of test signals prescribed in (2)-(ii)-A and -B. Then, describe the test result with "Pass" when the mean detection probability is 80% or more and with "Fail" when it is less than 80%.

(d) In (a) to (c) above, describe the number of pulse detections and the number of tests for each of the test signals prescribed in (2)-(ii)-A and -B in conjunction with "Pass" or "Fail"

B. In the case of the chirp radar wave test signal

(a) Describe the test result with "Pass" if EUT has detected a quasi radar pulse 18 times or more in Step (4)-(ii)-H-(a) and with "Fail" if it has detected the pulse 14 times or less.

(b) If you followed Step (4)-(ii)-H-(c), describe the test result with "Pass" when the total number of occurrences of quasi radar pulse detection is 32 or more and with "Fail" when it is 31 or less.

(c) In (a) and (b) above, describe the number of pulse detections and the number of tests in conjunction with "Pass" or "Fail"

C. In the case of frequency hopping radar wave test signals

- (a) Describe the test result with "Pass" if EUT has detected a quasi radar pulse 16 times or more in Step (4)-(ii)-I-(a) and with "Fail" if it has detected the pulse 12 times or less.
- (b) If you followed Step (4)-(ii)-I-(c), describe the test result with "Pass" when the total number of occurrences of quasi radar pulse detection is 28 or more and with "Fail" when it is 27 or less.
- (c) In (a) and (b) above, describe the number of pulse detections and the number of tests in conjunction with "Pass" or "Fail" Minimum percentage of successful detections

W53 band

Radar Type	Minimum Percentage of Successful Detection	Minimum Number of Trials
Classification-1	60%	20
Classification-2	60%	20
Classification-3	60%	20
Classification-4	60%	20
Classification-5	60%	20
Classification-6	60%	20
Classification-7	60%	20
Classification-8	60%	20

W56 band

Radar Type	Minimum Percentage of Successful Detection	Minimum Number of Trials
Classification-1	60%	20
Classification-2	60%	20
Classification-3	60%	20
Classification-4	60%	20
Classification-5	60%	20
Classification-6	60%	20
Aggregate (Radar Types 1-6)	80%	120
Chirp radar	80%	20
hopping radar	70%	20

The percentage of successful detection is calculated by: $\text{Total Waveform Detections} / \text{Total Waveform Trials} * 100$

5.6.2. Test Procedure

For W53 band

- A. Set the standard signal generator to be in non-transmission state.
- B. Set EUT to be in state of operating channel monitoring by initializing it and transmit waves at the test frequency.
- C. Set the communication load conditions for EUT so that the transmission speed for signals that do not include error correction and control signals may amount to 50% of the Maximum signal transmission speed for radio equipment, and establish communications with the external test device.
- D. Set the standard signal generator to be in transmission state and apply quasi radar pulses at the prescribed input level to EUT.
- E. Confirm with the spectrum analyzer that EUT stops radiating emissions when quasi radar pulses are input to EUT.
- F. Repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected.

The measurement operation, however, shall be terminated when a quasi radar pulse has been detected 15 times.

- G. If the number of occurrences of quasi radar signal detection is 11 to 14 in Step F, repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not.

If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find the number of occurrences of quasi radar pulse detection by adding the value in Step F and the one in this step.

For W56 band

- A. Set the standard signal generator to be in non-transmission state.
- B. Set EUT to be in state of operating channel monitoring by initializing it and transmit waves at the test frequency.
- C. Establish communications with the external test device under the prescribed communication load conditions.
- D. Set the output of the standard signal generator to be in transmission state and apply quasi radar pulses at the prescribed input level to EUT.
- E. Confirm with the spectrum analyzer that EUT stops radiating emissions when quasi radar pulses are input to EUT.
- F. Find the number of occurrences of quasi radar pulse detection by following Steps (a) to (c) for test signals prescribed in (2)-(ii)-A and (2)-(ii)-B.

(a) Repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected. The measurement operation, however, shall be terminated when a quasi radar pulse has been detected 18 times.

(b) If the number of occurrences of quasi radar signal detection is 11 to 14 in Step (a), go to Step G below. If the number is 15 to 17, go to Step (c) below.

(c) Repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected.

G. Find the mean of probabilities of detecting quasi radar pulses.

(a) Repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected.

(b) Find a total of the numbers of occurrences of quasi radar signal detection and a total of the numbers of tests for each of six types of test signals listed in (2)-(ii)-A and -B.

H. Find the number of occurrences of quasi radar signal detection for the test signal listed in (2)-(ii)-C by following Steps (a) to (c) below.

(a) Repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected. The measurement operation, however, shall be terminated when a quasi radar pulse has been detected 18 times.

(b) If the number of occurrences of quasi radar signal detection is 15 to 17 in Step (a), go to Step (c) below.

(c) Repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. Find the number of occurrences of quasi radar signal detection by adding the value in Step (a) and the one in this step.

I. Find the number of occurrences of quasi radar signal detection for the test signal listed in (2)-(ii)-D by following Steps (a) to (c) below.

(a) Repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected. The measurement operation, however, shall be terminated when a quasi radar pulse has been detected 16 times.

(b) If the number of occurrences of quasi radar signal detection is 13 to 15 in Step (a), go to Step (c) below.

(c) Repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected.

5.6.3. Test Result

Test Site	WZ-SR4	Temperature	23.4 ~ 23.8 °C
Test Engineer	Ant Wang	Humidity	47.1 ~ 49.6 %RH
Test Date	2025-04-29 ~ 2025-04-30		
Test Item	Statistical Performance Check		
Test Mode	Transmit – 5250MHz		

Frequency (MHz)	Radar Type	Test Result	Limit
5250	Classification-1	100%	60%
5250	Classification-2	95%	60%
5250	Classification-3	100%	60%
5250	Classification-4	100%	60%
5250	Classification-5	100%	60%
5250	Classification-6	100%	60%
5250	Classification-7	95%	60%
5250	Classification-8	100%	60%

Radar Classification-1						
	Trial Id	Radar Type	Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Continuous Pulses	Repetition Cycle (s)
Download	0	W53 Variable Pul...	3.2	673	28	12.0000000
Download	1	W53 Variable Pul...	1.5	385	17	12.0000000
Download	2	W53 Variable Pul...	1.7	412	18	12.0000000
Download	3	W53 Variable Pul...	1.8	431	18	12.0000000
Download	4	W53 Variable Pul...	2.0	464	20	12.0000000
Download	5	W53 Variable Pul...	2.6	572	24	12.0000000
Download	6	W53 Variable Pul...	3.3	701	29	12.0000000
Download	7	W53 Variable Pul...	3.8	780	32	12.0000000
Download	8	W53 Variable Pul...	4.3	862	35	12.0000000
Download	9	W53 Variable Pul...	1.7	414	18	12.0000000
Download	10	W53 Variable Pul...	2.6	581	24	12.0000000
Download	11	W53 Variable Pul...	2.1	491	21	12.0000000
Download	12	W53 Variable Pul...	4.0	811	33	12.0000000
Download	13	W53 Variable Pul...	4.9	980	40	12.0000000
Download	14	W53 Variable Pul...	4.4	884	36	12.0000000
Download	15	W53 Variable Pul...	4.3	870	35	12.0000000
Download	16	W53 Variable Pul...	3.3	704	29	12.0000000
Download	17	W53 Variable Pul...	2.7	592	25	12.0000000
Download	18	W53 Variable Pul...	4.3	861	35	12.0000000
Download	19	W53 Variable Pul...	1.3	345	15	12.0000000

Radar Classification-2

	Trial Id	Radar Type	Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Continuous Pulses	Repetition Cycle (s)
Download	0	W53 Variable Pul...	9.1	1028	30	12.0000000
Download	1	W53 Variable Pul...	3.8	524	21	12.0000000
Download	2	W53 Variable Pul...	4.3	572	21	12.0000000
Download	3	W53 Variable Pul...	4.7	604	22	12.0000000
Download	4	W53 Variable Pul...	5.3	663	23	12.0000000
Download	5	W53 Variable Pul...	7.2	850	27	12.0000000
Download	6	W53 Variable Pul...	9.6	1077	31	12.0000000
Download	7	W53 Variable Pul...	11.0	1215	33	12.0000000
Download	8	W53 Variable Pul...	12.5	1358	36	12.0000000
Download	9	W53 Variable Pul...	4.4	574	21	12.0000000
Download	10	W53 Variable Pul...	7.4	866	27	12.0000000
Download	11	W53 Variable Pul...	5.8	710	24	12.0000000
Download	12	W53 Variable Pul...	11.6	1269	34	12.0000000
Download	13	W53 Variable Pul...	14.7	1565	40	12.0000000
Download	14	W53 Variable Pul...	12.9	1397	37	12.0000000
Download	15	W53 Variable Pul...	12.7	1372	36	12.0000000
Download	16	W53 Variable Pul...	9.6	1082	31	12.0000000
Download	17	W53 Variable Pul...	7.6	886	27	12.0000000
Download	18	W53 Variable Pul...	12.5	1357	36	12.0000000
Download	19	W53 Variable Pul...	3.1	454	19	12.0000000

Radar Classification-3

	Trial Id	Radar Type	Short Pulse Width (us)	Blank Time T1 (us)	Long Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Pairs of Pulses	Chirp Bandwidth (MHz)	Repetition Cycle (s)
Download	0	W53 Chirp 5	3.2	99.6	52.8	673	28	1.59	12.0000000
Download	1	W53 Chirp 5	1.5	81.6	49.8	385	28	1.23	12.0000000
Download	2	W53 Chirp 5	1.7	83.3	61.8	412	30	1.26	12.0000000
Download	3	W53 Chirp 5	1.8	84.5	61.8	431	30	1.29	12.0000000
Download	4	W53 Chirp 5	2.0	86.5	76.4	464	33	1.33	12.0000000
Download	5	W53 Chirp 5	2.6	93.3	44.1	572	27	1.46	12.0000000
Download	6	W53 Chirp 5	3.3	101.4	88.8	701	36	1.63	12.0000000
Download	7	W53 Chirp 5	3.8	106.3	97.1	780	38	1.73	12.0000000
Download	8	W53 Chirp 5	4.3	111.5	76.8	862	34	1.83	12.0000000
Download	9	W53 Chirp 5	1.7	83.4	61.8	414	30	1.27	12.0000000
Download	10	W53 Chirp 5	2.6	93.8	44.1	581	27	1.48	12.0000000
Download	11	W53 Chirp 5	2.1	88.2	85.3	491	35	1.36	12.0000000
Download	12	W53 Chirp 5	4.0	108.3	95.4	811	37	1.77	12.0000000
Download	13	W53 Chirp 5	4.9	118.9	36.3	980	28	1.98	12.0000000
Download	14	W53 Chirp 5	4.4	112.9	64.2	884	31	1.86	12.0000000
Download	15	W53 Chirp 5	4.3	112.0	76.8	870	34	1.84	12.0000000
Download	16	W53 Chirp 5	3.3	101.6	88.8	704	36	1.63	12.0000000
Download	17	W53 Chirp 5	2.7	94.6	44.1	592	27	1.49	12.0000000
Download	18	W53 Chirp 5	4.3	111.4	76.8	861	34	1.83	12.0000000
Download	19	W53 Chirp 5	1.3	79.1	46.0	345	27	1.18	12.0000000

Radar Classification-4

	Trial Id	Radar Type	Short Pulse Width (us)	Blank Time T1 (us)	Long Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Pairs of Pulses	Chirp Bandwidth (MHz)	Repetition Cycle (s)
Download	0	#53 Chirp 6	9.1	99.6	55.4	1028	32	1.59	12.0000000
Download	1	#53 Chirp 6	3.8	81.6	49.8	624	28	1.23	12.0000000
Download	2	#53 Chirp 6	4.3	83.3	61.8	572	30	1.26	12.0000000
Download	3	#53 Chirp 6	4.7	84.5	61.8	604	30	1.29	12.0000000
Download	4	#53 Chirp 6	5.3	86.5	76.5	663	33	1.33	12.0000000
Download	5	#53 Chirp 6	7.2	93.3	45.7	850	27	1.46	12.0000000
Download	6	#53 Chirp 6	9.6	101.4	89.9	1077	38	1.63	12.0000000
Download	7	#53 Chirp 6	11.0	106.3	97.9	1215	39	1.73	12.0000000
Download	8	#53 Chirp 6	12.5	111.5	79.5	1358	36	1.83	12.0000000
Download	9	#53 Chirp 6	4.4	83.4	61.8	574	30	1.27	12.0000000
Download	10	#53 Chirp 6	7.4	93.8	45.8	886	27	1.48	12.0000000
Download	11	#53 Chirp 6	5.8	88.2	85.5	710	35	1.36	12.0000000
Download	12	#53 Chirp 6	11.6	108.3	96.5	1269	39	1.77	12.0000000
Download	13	#53 Chirp 6	14.7	118.9	44.2	1585	31	1.98	12.0000000
Download	14	#53 Chirp 6	12.9	112.9	68.2	1397	35	1.86	12.0000000
Download	15	#53 Chirp 6	12.7	112.0	79.6	1372	36	1.84	12.0000000
Download	16	#53 Chirp 6	9.6	101.6	89.9	1082	38	1.63	12.0000000
Download	17	#53 Chirp 6	7.6	94.6	46.0	886	28	1.49	12.0000000
Download	18	#53 Chirp 6	12.5	111.4	79.5	1357	36	1.83	12.0000000
Download	19	#53 Chirp 6	3.1	79.1	46.0	454	27	1.18	12.0000000

Radar Classification-5

	Trial Id	Radar Type	Short Pulse Width (us)	Blank Time T1 (us)	Long Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Pairs of Pulses	Chirp Bandwidth (MHz)	Repetition Cycle (s)
Download	0	#53 Chirp 7	1.2	162.4	31.2	1116	36	1.59	12.0000000
Download	1	#53 Chirp 7	0.7	93.9	30.4	1115	32	1.23	12.0000000
Download	2	#53 Chirp 7	0.8	100.5	30.5	1115	32	1.26	12.0000000
Download	3	#53 Chirp 7	0.8	104.9	30.6	1115	33	1.29	12.0000000
Download	4	#53 Chirp 7	0.8	112.8	30.6	1115	33	1.33	12.0000000
Download	5	#53 Chirp 7	1.0	138.3	30.9	1116	35	1.46	12.0000000
Download	6	#53 Chirp 7	1.2	169.0	31.3	1117	36	1.63	12.0000000
Download	7	#53 Chirp 7	1.3	187.8	31.5	1117	37	1.73	12.0000000
Download	8	#53 Chirp 7	1.4	207.3	31.7	1118	39	1.83	12.0000000
Download	9	#53 Chirp 7	0.8	100.8	30.5	1115	32	1.27	12.0000000
Download	10	#53 Chirp 7	1.0	140.5	30.9	1116	35	1.48	12.0000000
Download	11	#53 Chirp 7	0.9	119.2	30.7	1115	34	1.36	12.0000000
Download	12	#53 Chirp 7	1.4	195.1	31.6	1117	38	1.77	12.0000000
Download	13	#53 Chirp 7	1.5	235.4	32.0	1118	40	1.98	12.0000000
Download	14	#53 Chirp 7	1.5	212.5	31.7	1118	39	1.86	12.0000000
Download	15	#53 Chirp 7	1.5	209.1	31.7	1118	39	1.84	12.0000000
Download	16	#53 Chirp 7	1.2	169.8	31.3	1117	36	1.63	12.0000000
Download	17	#53 Chirp 7	1.0	143.2	31.0	1116	35	1.49	12.0000000
Download	18	#53 Chirp 7	1.4	207.1	31.7	1118	39	1.83	12.0000000
Download	19	#53 Chirp 7	0.7	84.5	30.3	1114	31	1.18	12.0000000

Radar Classification-6

	Trial Id	Radar Type	Short Pulse Width (us)	Blank Time T1 (us)	Long Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Pairs of Pulses	Chirp Bandwidth (MHz)	Repetition Cycle (s)
Download	0	W53 Chirp 8	1.2	162.4	31.2	930	34	1.59	12.0000000
Download	1	W53 Chirp 8	0.7	93.9	30.4	929	28	1.23	12.0000000
Download	2	W53 Chirp 8	0.8	100.5	30.5	929	29	1.26	12.0000000
Download	3	W53 Chirp 8	0.8	104.9	30.6	929	29	1.29	12.0000000
Download	4	W53 Chirp 8	0.8	112.8	30.6	929	30	1.33	12.0000000
Download	5	W53 Chirp 8	1.0	138.3	30.9	930	32	1.46	12.0000000
Download	6	W53 Chirp 8	1.2	169.0	31.3	931	35	1.63	12.0000000
Download	7	W53 Chirp 8	1.3	187.8	31.5	931	36	1.73	12.0000000
Download	8	W53 Chirp 8	1.4	207.3	31.7	932	38	1.83	12.0000000
Download	9	W53 Chirp 8	0.8	100.8	30.5	929	29	1.27	12.0000000
Download	10	W53 Chirp 8	1.0	140.5	30.9	930	32	1.46	12.0000000
Download	11	W53 Chirp 8	0.9	119.2	30.7	929	30	1.36	12.0000000
Download	12	W53 Chirp 8	1.4	195.1	31.6	931	37	1.77	12.0000000
Download	13	W53 Chirp 8	1.5	235.4	32.0	932	40	1.98	12.0000000
Download	14	W53 Chirp 8	1.5	212.5	31.7	932	38	1.86	12.0000000
Download	15	W53 Chirp 8	1.5	209.1	31.7	932	38	1.84	12.0000000
Download	16	W53 Chirp 8	1.2	169.8	31.3	931	35	1.63	12.0000000
Download	17	W53 Chirp 8	1.0	143.2	31.0	930	32	1.49	12.0000000
Download	18	W53 Chirp 8	1.4	207.1	31.7	932	38	1.83	12.0000000
Download	19	W53 Chirp 8	0.7	84.5	30.3	928	27	1.18	12.0000000

Radar Classification-7

	Trial Id	Radar Type	Short Pulse Width (us)	Blank Time T1 (us)	Long Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Pairs of Pulses	Chirp Bandwidth (MHz)	Repetition Cycle (s)
Download	0	W53 Chirp 9	1.2	162.4	31.2	888	34	1.59	12.0000000
Download	1	W53 Chirp 9	0.7	93.9	30.4	887	27	1.23	12.0000000
Download	2	W53 Chirp 9	0.8	100.5	30.5	887	28	1.26	12.0000000
Download	3	W53 Chirp 9	0.8	104.9	30.6	887	28	1.29	12.0000000
Download	4	W53 Chirp 9	0.8	112.8	30.6	887	29	1.33	12.0000000
Download	5	W53 Chirp 9	1.0	138.3	30.9	888	31	1.46	12.0000000
Download	6	W53 Chirp 9	1.2	169.0	31.3	889	34	1.63	12.0000000
Download	7	W53 Chirp 9	1.3	187.8	31.5	889	36	1.73	12.0000000
Download	8	W53 Chirp 9	1.4	207.3	31.7	890	38	1.83	12.0000000
Download	9	W53 Chirp 9	0.8	100.8	30.5	887	28	1.27	12.0000000
Download	10	W53 Chirp 9	1.0	140.5	30.9	888	32	1.48	12.0000000
Download	11	W53 Chirp 9	0.9	119.2	30.7	887	30	1.36	12.0000000
Download	12	W53 Chirp 9	1.4	195.1	31.6	889	36	1.77	12.0000000
Download	13	W53 Chirp 9	1.5	235.4	32.0	890	40	1.98	12.0000000
Download	14	W53 Chirp 9	1.5	212.5	31.7	890	38	1.86	12.0000000
Download	15	W53 Chirp 9	1.5	209.1	31.7	890	38	1.84	12.0000000
Download	16	W53 Chirp 9	1.2	169.8	31.3	889	34	1.63	12.0000000
Download	17	W53 Chirp 9	1.0	143.2	31.0	888	32	1.49	12.0000000
Download	18	W53 Chirp 9	1.4	207.1	31.7	890	38	1.83	12.0000000
Download	19	W53 Chirp 9	0.7	84.5	30.3	886	27	1.18	12.0000000

Radar Classification-8

	Trial Id	Radar Type	Short Pulse Width (us)	Blank Time T1 (us)	Long Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Pairs of Pulses	Chirp Bandwidth (MHz)	Repetition Cycle (s)
Download	0	W53 Chirp 10	1.2	162.4	31.2	740	32	1.59	12.0000000
Download	1	W53 Chirp 10	0.7	93.9	30.4	739	24	1.23	12.0000000
Download	2	W53 Chirp 10	0.8	100.5	30.5	739	25	1.26	12.0000000
Download	3	W53 Chirp 10	0.8	104.9	30.6	739	26	1.29	12.0000000
Download	4	W53 Chirp 10	0.8	112.8	30.6	739	26	1.33	12.0000000
Download	5	W53 Chirp 10	1.0	138.3	30.9	740	29	1.46	12.0000000
Download	6	W53 Chirp 10	1.2	169.0	31.3	741	33	1.63	12.0000000
Download	7	W53 Chirp 10	1.3	187.8	31.5	741	35	1.73	12.0000000
Download	8	W53 Chirp 10	1.4	207.3	31.7	742	37	1.83	12.0000000
Download	9	W53 Chirp 10	0.8	100.8	30.5	739	25	1.27	12.0000000
Download	10	W53 Chirp 10	1.0	140.5	30.9	740	29	1.48	12.0000000
Download	11	W53 Chirp 10	0.9	119.2	30.7	739	27	1.36	12.0000000
Download	12	W53 Chirp 10	1.4	195.1	31.6	741	36	1.77	12.0000000
Download	13	W53 Chirp 10	1.5	235.4	32.0	742	40	1.96	12.0000000
Download	14	W53 Chirp 10	1.5	212.5	31.7	742	37	1.86	12.0000000
Download	15	W53 Chirp 10	1.5	209.1	31.7	742	37	1.84	12.0000000
Download	16	W53 Chirp 10	1.2	169.8	31.3	741	33	1.63	12.0000000
Download	17	W53 Chirp 10	1.0	143.2	31.0	740	30	1.49	12.0000000
Download	18	W53 Chirp 10	1.4	207.1	31.7	742	37	1.83	12.0000000
Download	19	W53 Chirp 10	0.7	84.5	30.3	738	23	1.18	12.0000000

Test Site	WZ-SR4	Temperature	22.9 ~ 25.4 °C
Test Engineer	Ant Wang	Humidity	46.5 ~ 56.7 %RH
Test Date	2025-04-18 ~ 2025-04-29		
Test Item	Statistical Performance Check		
Test Mode	Transmit – 5570MHz		

Frequency (MHz)	Radar Type	Test Result	Limit
5570	Classification-1	100%	60%
5570	Classification-2	100%	60%
5570	Classification-3	100%	60%
5570	Classification-4	80%	60%
5570	Classification-5	90%	60%
5570	Classification-6	65%	60%
5570	Aggregate (Radar Types 1-6)	89.2%	80%
5570	Chirp radar	95%	80%
5570	Hopping radar	100%	70%

Radar Classification-1						
	Trial Id	Radar Type	Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Continuous Pulses	Repetition Cycle (s)
Download	0	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	1	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	2	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	3	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	4	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	5	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	6	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	7	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	8	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	9	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	10	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	11	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	12	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	13	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	14	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	15	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	16	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	17	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	18	W56 Fixed Pulse 1	0.5	720	18	15.0000000
Download	19	W56 Fixed Pulse 1	0.5	720	18	15.0000000

Radar Classification-2

	Trial Id	Radar Type	Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Continuous Pulses	Repetition Cycle (s)
Download	0	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	1	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	2	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	3	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	4	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	5	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	6	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	7	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	8	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	9	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	10	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	11	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	12	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	13	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	14	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	15	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	16	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	17	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	18	W56 Fixed Pulse 2	1.0	700	18	15.0000000
Download	19	W56 Fixed Pulse 2	1.0	700	18	15.0000000

Radar Classification-3

	Trial Id	Radar Type	Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Continuous Pulses	Repetition Cycle (s)
Download	0	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	1	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	2	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	3	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	4	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	5	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	6	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	7	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	8	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	9	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	10	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	11	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	12	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	13	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	14	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	15	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	16	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	17	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	18	W56 Fixed Pulse 3	2.0	250	18	15.0000000
Download	19	W56 Fixed Pulse 3	2.0	250	18	15.0000000

Radar Classification-4

	Trial Id	Radar Type	Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Continuous Pulses	Repetition Cycle (s)
Download	0	W56 Variable Pul...	5.0	6127	28	15.0000000
Download	1	W56 Variable Pul...	3.0	5274	25	15.0000000
Download	2	W56 Variable Pul...	1.0	4351	23	15.0000000
Download	3	W56 Variable Pul...	3.0	5255	25	15.0000000
Download	4	W56 Variable Pul...	1.0	4429	23	15.0000000
Download	5	W56 Variable Pul...	5.0	6162	28	15.0000000
Download	6	W56 Variable Pul...	3.0	5217	25	15.0000000
Download	7	W56 Variable Pul...	5.0	6491	29	15.0000000
Download	8	W56 Variable Pul...	2.0	4900	24	15.0000000
Download	9	W56 Variable Pul...	5.0	6155	28	15.0000000
Download	10	W56 Variable Pul...	5.0	6179	28	15.0000000
Download	11	W56 Variable Pul...	2.0	4751	24	15.0000000
Download	12	W56 Variable Pul...	2.0	5067	25	15.0000000
Download	13	W56 Variable Pul...	1.0	4680	24	15.0000000
Download	14	W56 Variable Pul...	5.0	5961	27	15.0000000
Download	15	W56 Variable Pul...	1.0	4670	23	15.0000000
Download	16	W56 Variable Pul...	3.0	5484	26	15.0000000
Download	17	W56 Variable Pul...	1.0	4665	23	15.0000000
Download	18	W56 Variable Pul...	1.0	4693	24	15.0000000
Download	19	W56 Variable Pul...	3.0	5300	25	15.0000000

Radar Classification-5

	Trial Id	Radar Type	Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Continuous Pulses	Repetition Cycle (s)
Download	0	W56 Variable Pul...	10.0	4302	18	15.0000000
Download	1	W56 Variable Pul...	8.0	3199	17	15.0000000
Download	2	W56 Variable Pul...	6.0	2005	16	15.0000000
Download	3	W56 Variable Pul...	8.0	3175	17	15.0000000
Download	4	W56 Variable Pul...	6.0	2106	16	15.0000000
Download	5	W56 Variable Pul...	10.0	4347	18	15.0000000
Download	6	W56 Variable Pul...	8.0	3125	17	15.0000000
Download	7	W56 Variable Pul...	10.0	4772	18	15.0000000
Download	8	W56 Variable Pul...	7.0	2715	16	15.0000000
Download	9	W56 Variable Pul...	10.0	4338	18	15.0000000
Download	10	W56 Variable Pul...	10.0	4369	18	15.0000000
Download	11	W56 Variable Pul...	7.0	2522	16	15.0000000
Download	12	W56 Variable Pul...	7.0	2931	16	15.0000000
Download	13	W56 Variable Pul...	6.0	2431	16	15.0000000
Download	14	W56 Variable Pul...	10.0	4087	18	15.0000000
Download	15	W56 Variable Pul...	6.0	2417	16	15.0000000
Download	16	W56 Variable Pul...	8.0	3470	17	15.0000000
Download	17	W56 Variable Pul...	6.0	2412	16	15.0000000
Download	18	W56 Variable Pul...	6.0	2447	16	15.0000000
Download	19	W56 Variable Pul...	8.0	3232	17	15.0000000

Radar Classification-6

	Trial Id	Radar Type	Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Continuous Pulses	Repetition Cycle (s)
Download	0	W56 Variable Pul...	19.0	4302	15	15.0000000
Download	1	W56 Variable Pul...	15.0	3199	13	15.0000000
Download	2	W56 Variable Pul...	11.0	2005	12	15.0000000
Download	3	W56 Variable Pul...	15.0	3175	13	15.0000000
Download	4	W56 Variable Pul...	11.0	2106	12	15.0000000
Download	5	W56 Variable Pul...	19.0	4347	15	15.0000000
Download	6	W56 Variable Pul...	15.0	3125	13	15.0000000
Download	7	W56 Variable Pul...	20.0	4772	16	15.0000000
Download	8	W56 Variable Pul...	13.0	2715	13	15.0000000
Download	9	W56 Variable Pul...	19.0	4338	15	15.0000000
Download	10	W56 Variable Pul...	19.0	4369	15	15.0000000
Download	11	W56 Variable Pul...	12.0	2522	12	15.0000000
Download	12	W56 Variable Pul...	14.0	2931	13	15.0000000
Download	13	W56 Variable Pul...	12.0	2431	12	15.0000000
Download	14	W56 Variable Pul...	18.0	4087	15	15.0000000
Download	15	W56 Variable Pul...	12.0	2417	12	15.0000000
Download	16	W56 Variable Pul...	16.0	3470	14	15.0000000
Download	17	W56 Variable Pul...	12.0	2412	12	15.0000000
Download	18	W56 Variable Pul...	12.0	2447	12	15.0000000
Download	19	W56 Variable Pul...	15.0	3232	14	15.0000000

Chirp radar

	Trial Id	Radar Type	Number of Bursts	Burst Period (s)	Repetition Cycle (s)
Download	0	W56 Chirp	17	0.7058824	12.0000000
Download	1	W56 Chirp	13	0.9230769	12.0000000
Download	2	W56 Chirp	8	1.5000000	12.0000000
Download	3	W56 Chirp	13	0.9230769	12.0000000
Download	4	W56 Chirp	8	1.5000000	12.0000000
Download	5	W56 Chirp	18	0.6666667	12.0000000
Download	6	W56 Chirp	12	1.0000000	12.0000000
Download	7	W56 Chirp	20	0.6000000	12.0000000
Download	8	W56 Chirp	11	1.0909091	12.0000000
Download	9	W56 Chirp	18	0.6666667	12.0000000
Download	10	W56 Chirp	18	0.6666667	12.0000000
Download	11	W56 Chirp	10	1.2000000	12.0000000
Download	12	W56 Chirp	12	1.0000000	12.0000000
Download	13	W56 Chirp	9	1.3333333	12.0000000
Download	14	W56 Chirp	17	0.7058824	12.0000000
Download	15	W56 Chirp	9	1.3333333	12.0000000
Download	16	W56 Chirp	14	0.8571429	12.0000000
Download	17	W56 Chirp	9	1.3333333	12.0000000
Download	18	W56 Chirp	9	1.3333333	12.0000000
Download	19	W56 Chirp	13	0.9230769	12.0000000

Hopping radar

		Trial Id	Radar Type	Pulse Width (us)	Pulse Repetition Frequency (Hz)	Number of Continuous Pulses	Burst Interval (ms)	All Hopping Interval (ms)	Visible Frequency Number	Repetition Cycle (s)
☒	Download	0	W56 Hopping	1.0	3000	9	3.0	300.0	35	10.0000000
☒	Download	1	W56 Hopping	1.0	3000	9	3.0	300.0	36	10.0000000
☒	Download	2	W56 Hopping	1.0	3000	9	3.0	300.0	30	10.0000000
☒	Download	3	W56 Hopping	1.0	3000	9	3.0	300.0	35	10.0000000
☒	Download	4	W56 Hopping	1.0	3000	9	3.0	300.0	30	10.0000000
☒	Download	5	W56 Hopping	1.0	3000	9	3.0	300.0	38	10.0000000
☒	Download	6	W56 Hopping	1.0	3000	9	3.0	300.0	28	10.0000000
☒	Download	7	W56 Hopping	1.0	3000	9	3.0	300.0	25	10.0000000
☒	Download	8	W56 Hopping	1.0	3000	9	3.0	300.0	20	10.0000000
☒	Download	9	W56 Hopping	1.0	3000	9	3.0	300.0	33	10.0000000
☒	Download	10	W56 Hopping	1.0	3000	9	3.0	300.0	33	10.0000000
☒	Download	11	W56 Hopping	1.0	3000	9	3.0	300.0	31	10.0000000
☒	Download	12	W56 Hopping	1.0	3000	9	3.0	300.0	43	10.0000000
☒	Download	13	W56 Hopping	1.0	3000	9	3.0	300.0	36	10.0000000
☒	Download	14	W56 Hopping	1.0	3000	9	3.0	300.0	46	10.0000000
☒	Download	15	W56 Hopping	1.0	3000	9	3.0	300.0	30	10.0000000
☒	Download	16	W56 Hopping	1.0	3000	9	3.0	300.0	34	10.0000000
☒	Download	17	W56 Hopping	1.0	3000	9	3.0	300.0	33	10.0000000
☒	Download	18	W56 Hopping	1.0	3000	9	3.0	300.0	31	10.0000000
☒	Download	19	W56 Hopping	1.0	3000	9	3.0	300.0	32	10.0000000

5.7. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement

5.7.1. Test Limit

The EUT has In-Service Monitoring function to continuously monitor the radar signals, If radar is detected, must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of Channel Closing Transmission Time is 260ms, consisting of data signals and the aggregate of control signals, during the Channel Move Time. The Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

5.7.2. Test Procedure

These tests define how the following DFS parameters are verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time, and Non-Occupancy Period. The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold is generated on the Operating Channel of the U-NII device.

At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at a detection threshold.

Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing

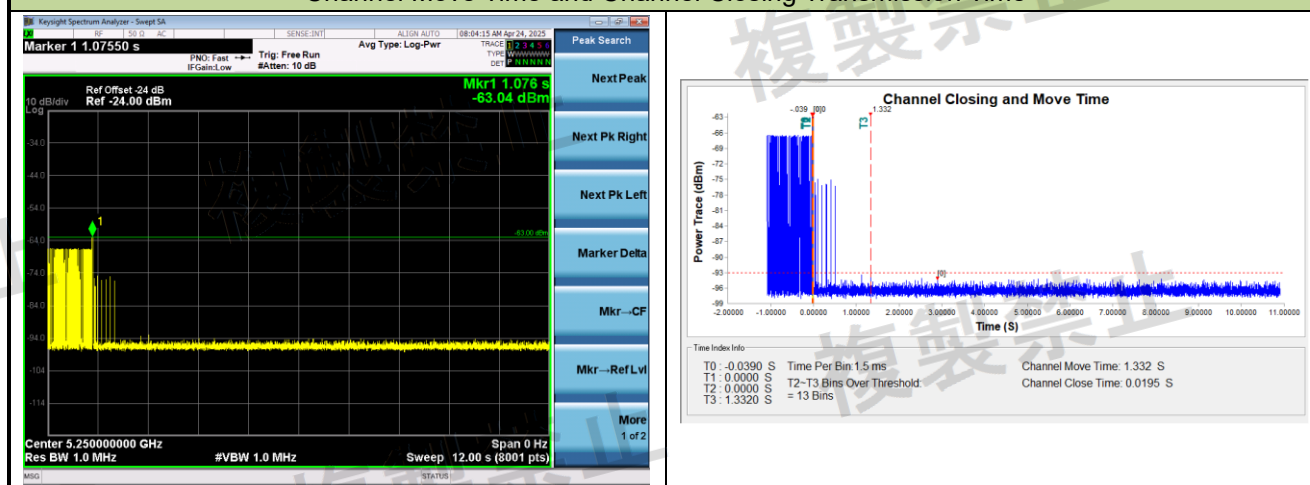
Transmission Time results to the limits defined in the DFS Response requirement values table.

Measure the UUT for more than 30 minutes following the channel close/move time to verify that the UUT does not resume any transmissions on this Channel.

5.7.3. Test Result

Test Site	WZ-SR4	Temperature	22.9 ~ 25.4 °C
Test Engineer	Ant Wang	Humidity	46.5 ~ 54.2 %RH
Test Date	2025-04-24 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-1		
Test Mode	Transmit – 5250MHz		

Channel Move Time and Channel Closing Transmission Time



Non-Occupancy Period

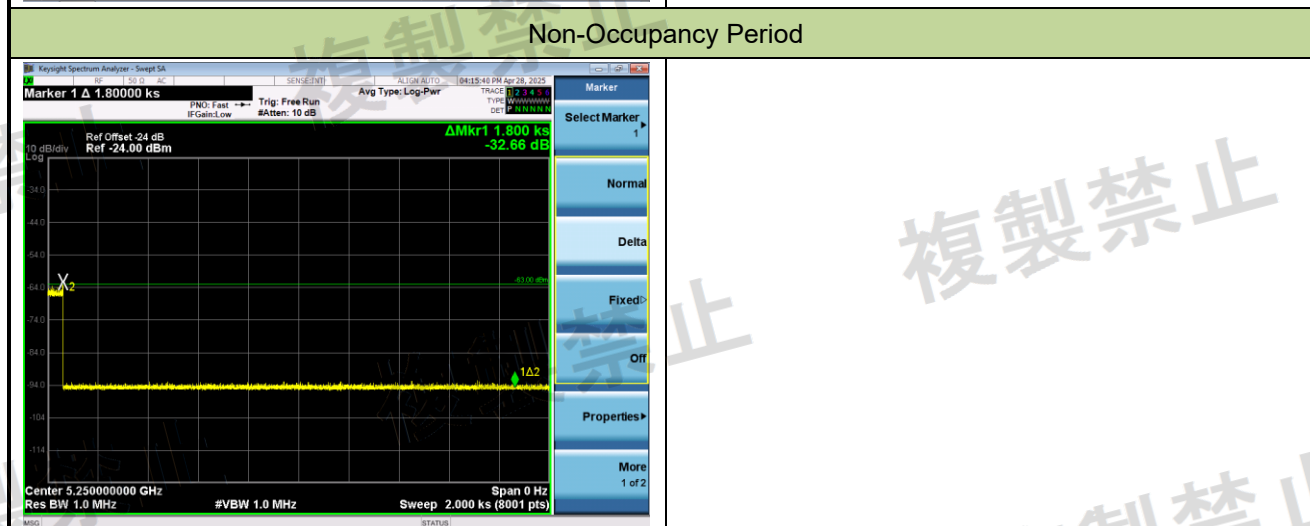
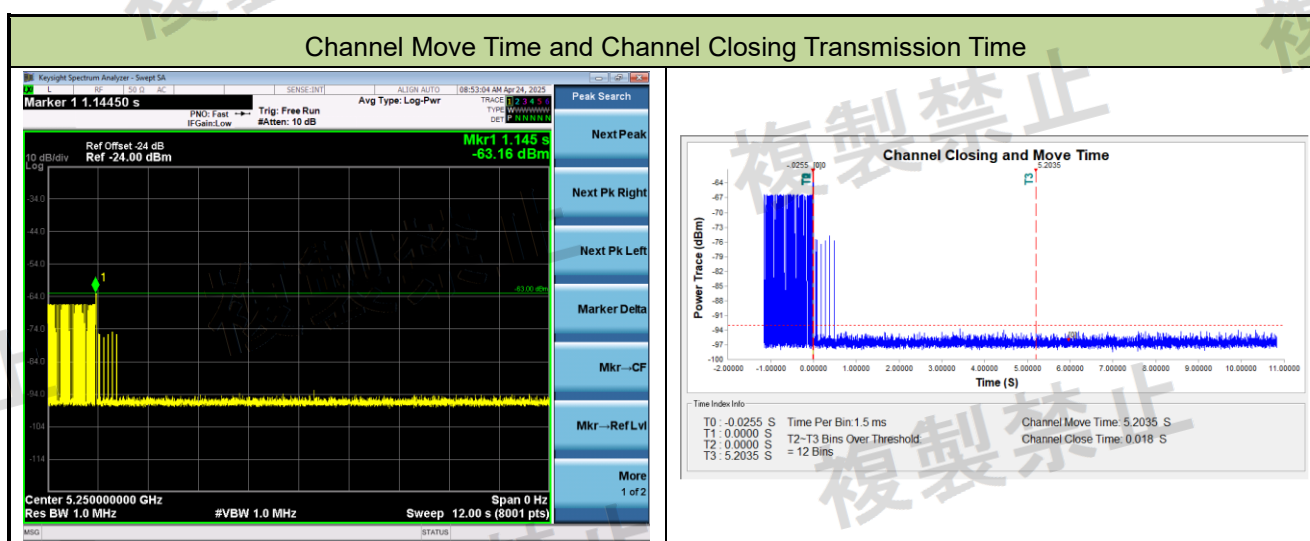


Parameter	Test Result	Limit
Channel Move Time (s)	1.332s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	19.5ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of

control signals will not count quiet periods in between transmissions.

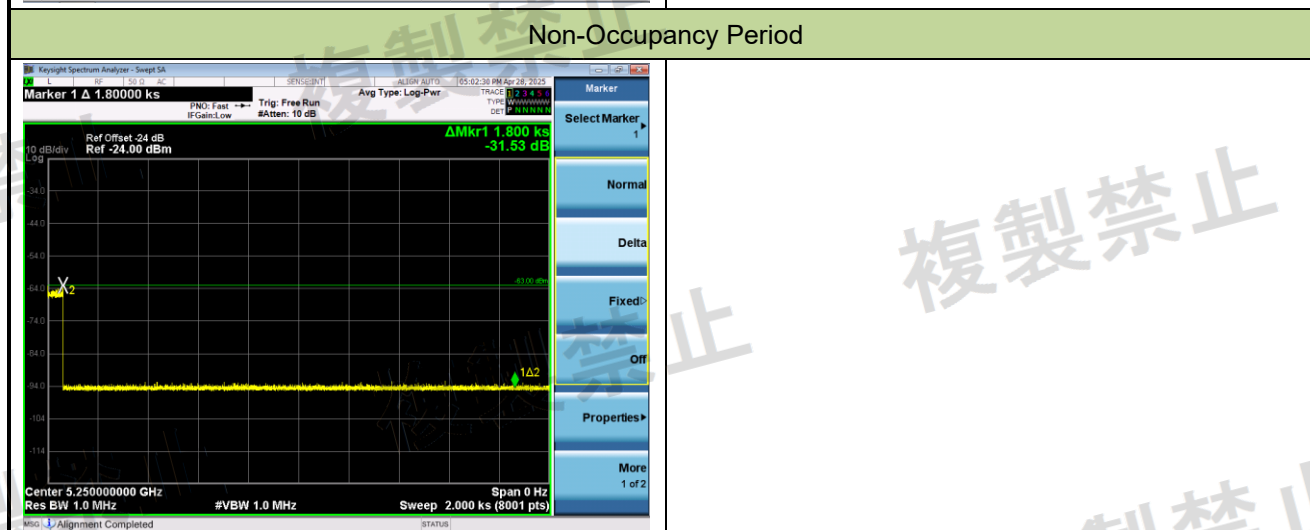
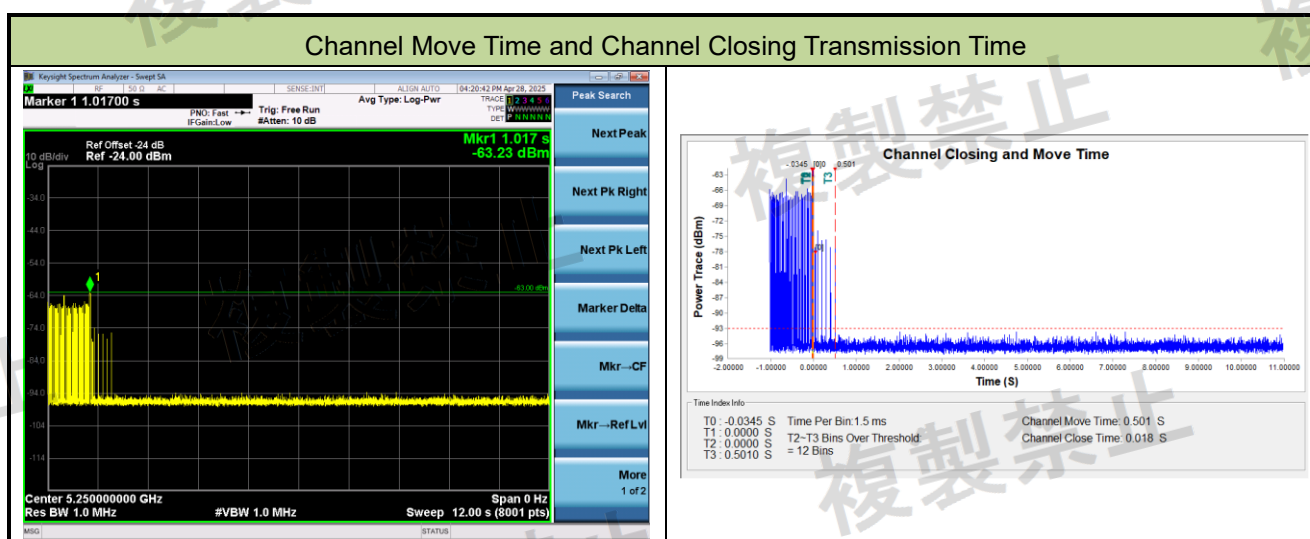
Test Site	WZ-SR4	Temperature	22.9 ~ 25.4 °C
Test Engineer	Ant Wang	Humidity	46.5 ~ 54.2 %RH
Test Date	2025-04-24 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-2		
Test Mode	Transmit – 5250MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	5.2035s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	18.0ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

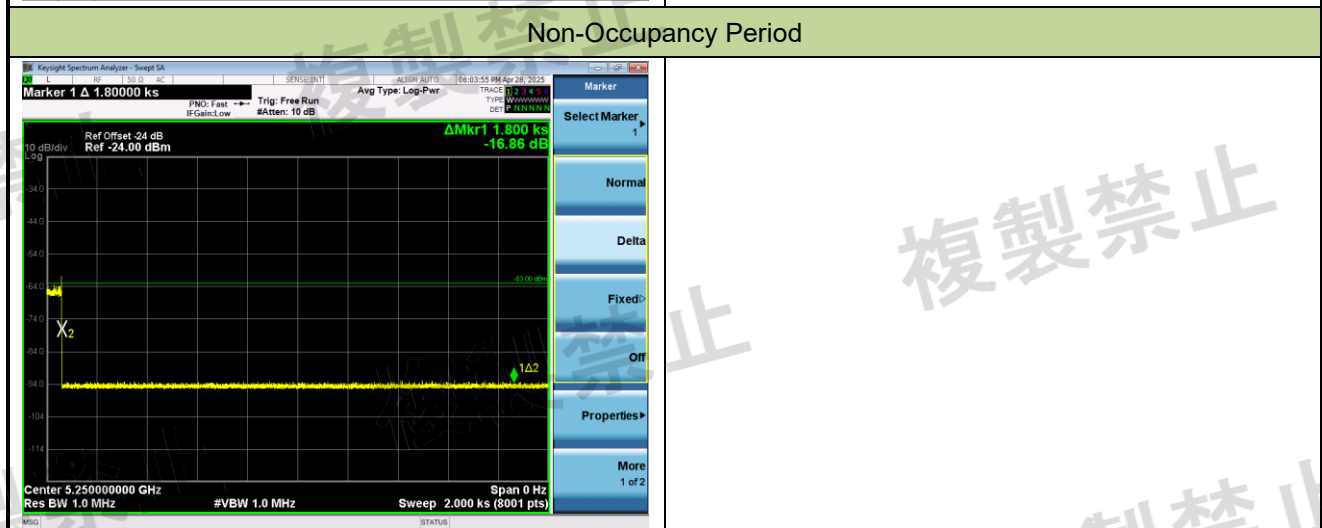
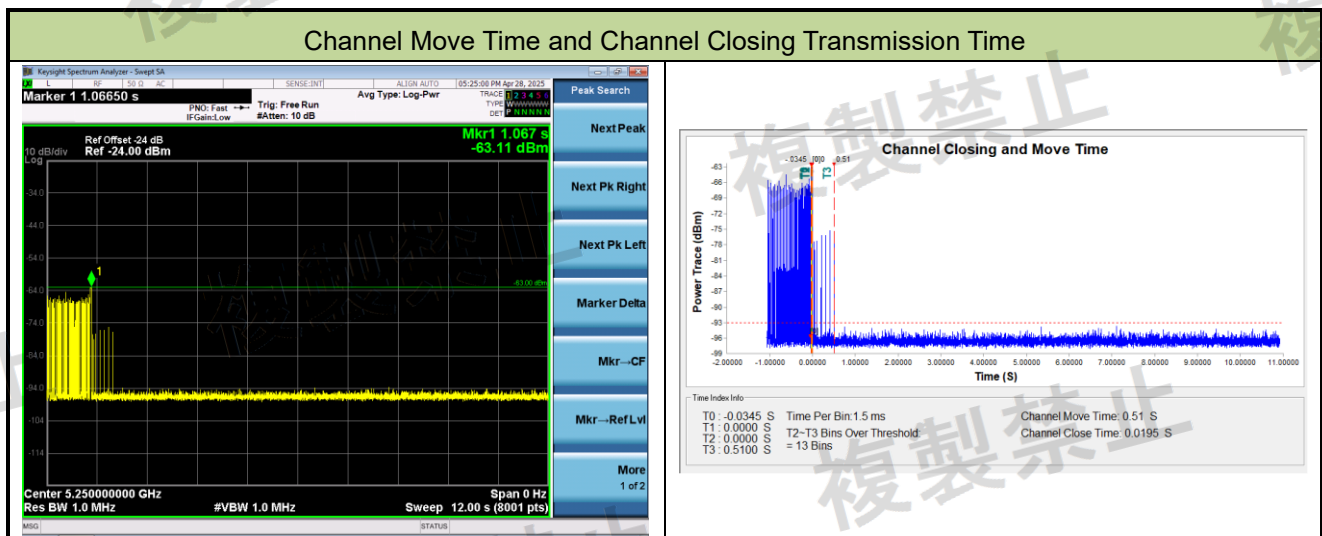
Test Site	WZ-SR4	Temperature	23.4 ~ 24.2 °C
Test Engineer	Ant Wang	Humidity	47.1 ~ 49.6 %RH
Test Date	2025-04-28 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-3		
Test Mode	Transmit – 5250MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.501s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	18.0ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

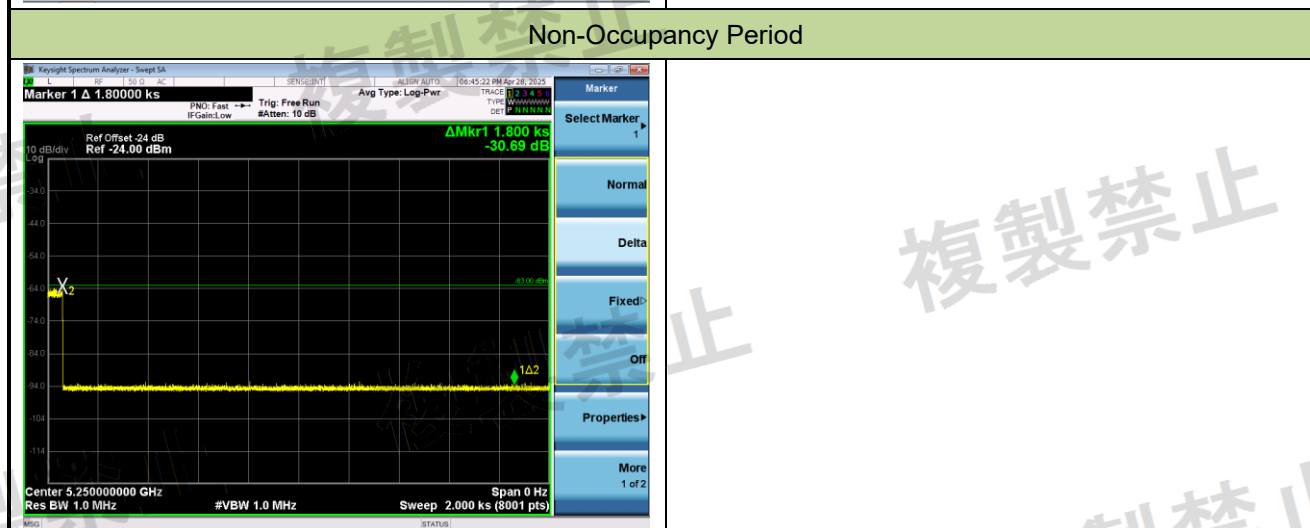
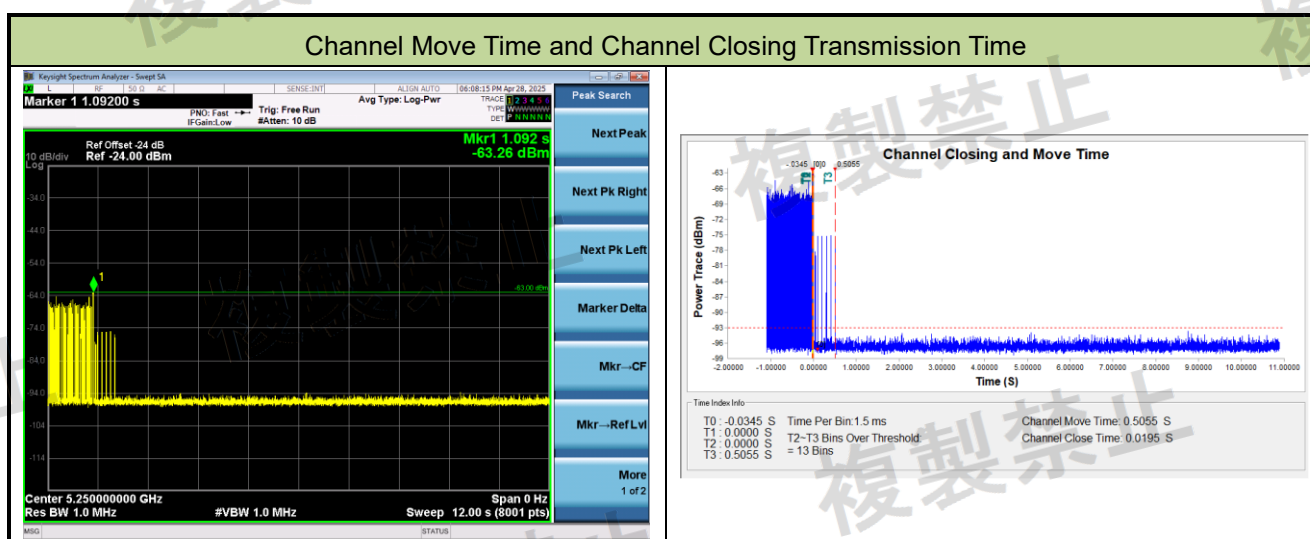
Test Site	WZ-SR4	Temperature	23.4 ~ 24.2 °C
Test Engineer	Ant Wang	Humidity	47.1 ~ 49.6 %RH
Test Date	2025-04-28 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-4		
Test Mode	Transmit – 5250MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.51s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	19.5ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

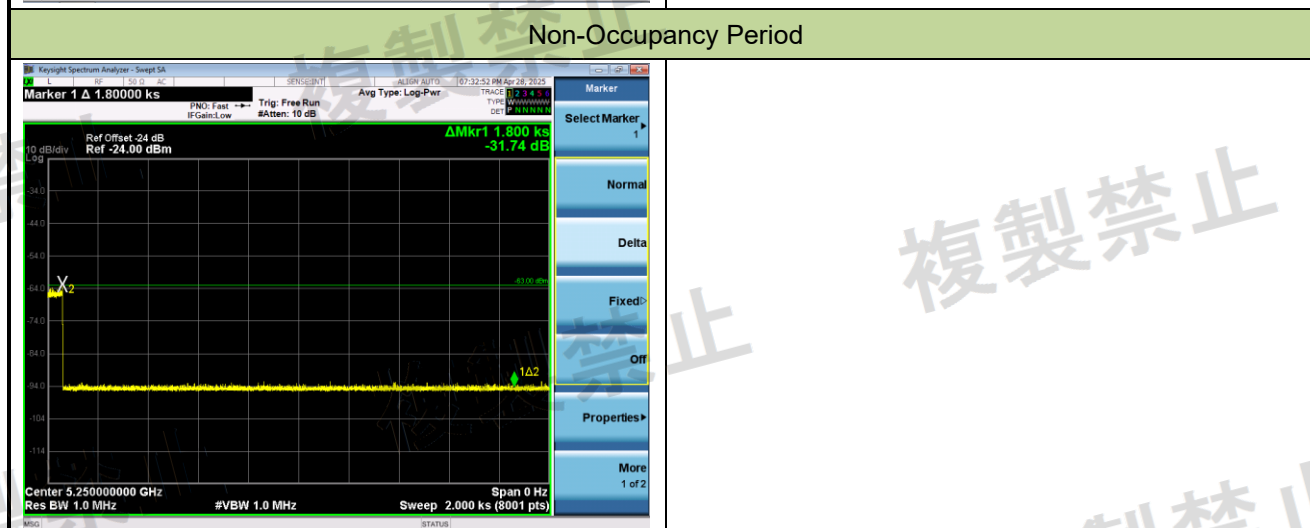
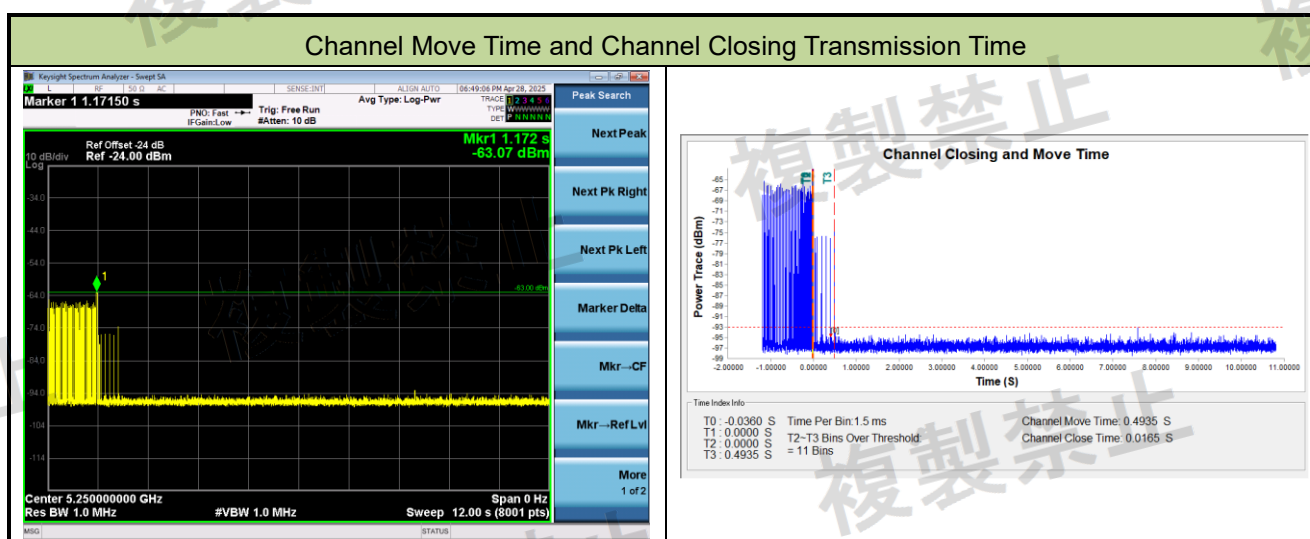
Test Site	WZ-SR4	Temperature	23.4 ~ 24.2 °C
Test Engineer	Ant Wang	Humidity	47.1 ~ 49.6 %RH
Test Date	2025-04-28 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-5		
Test Mode	Transmit – 5250MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.5055s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	19.5ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

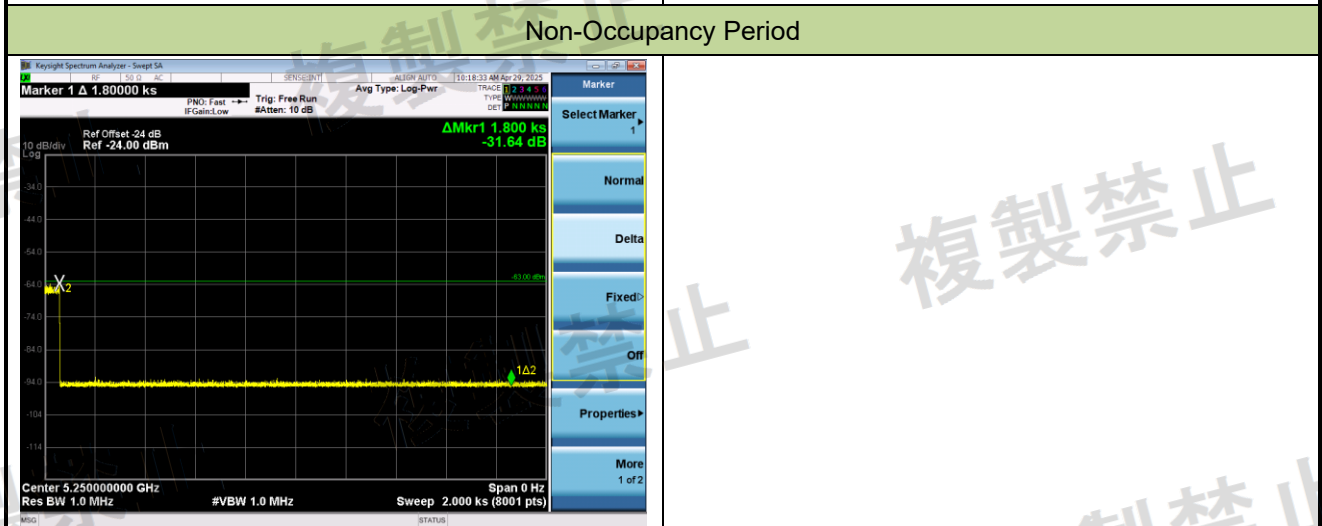
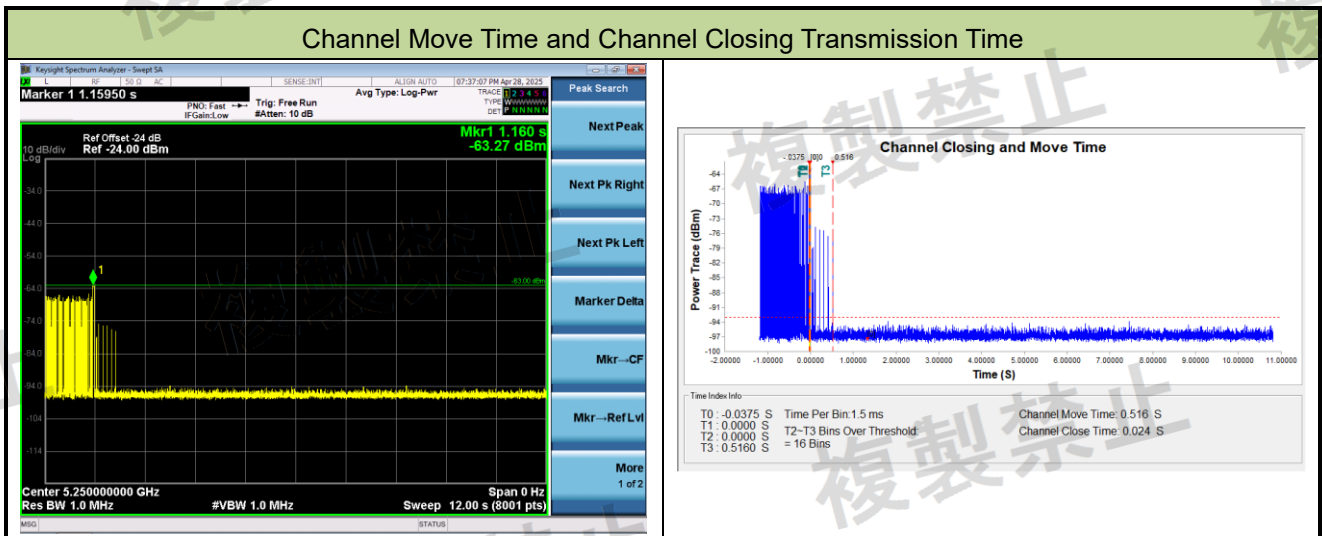
Test Site	WZ-SR4	Temperature	23.4 ~ 24.2 °C
Test Engineer	Ant Wang	Humidity	47.1 ~ 49.6 %RH
Test Date	2025-04-28 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-6		
Test Mode	Transmit – 5250MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.4935s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	16.5ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

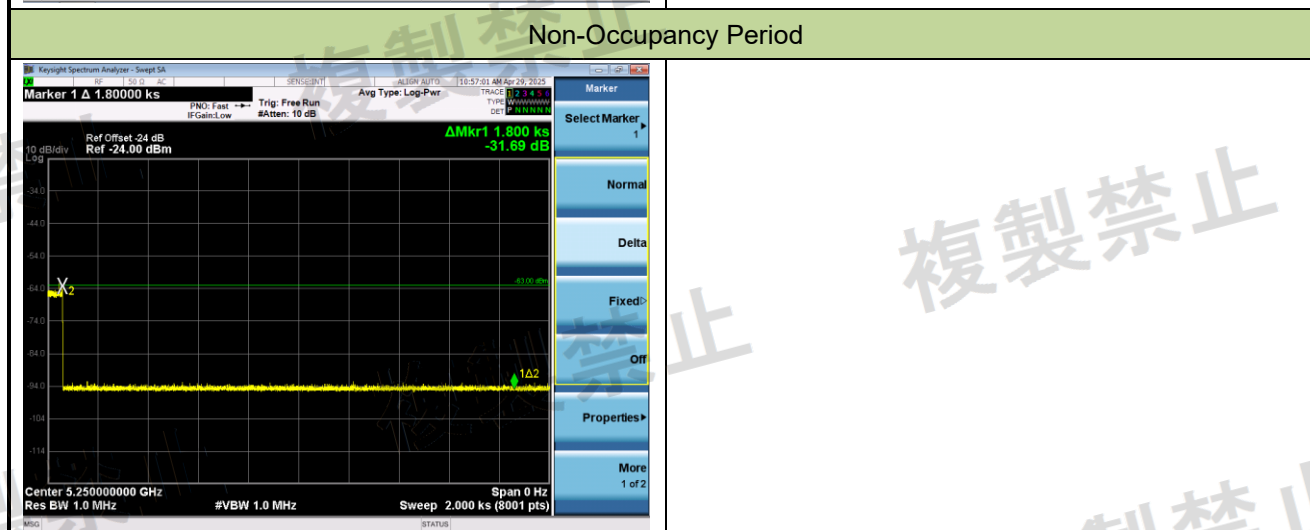
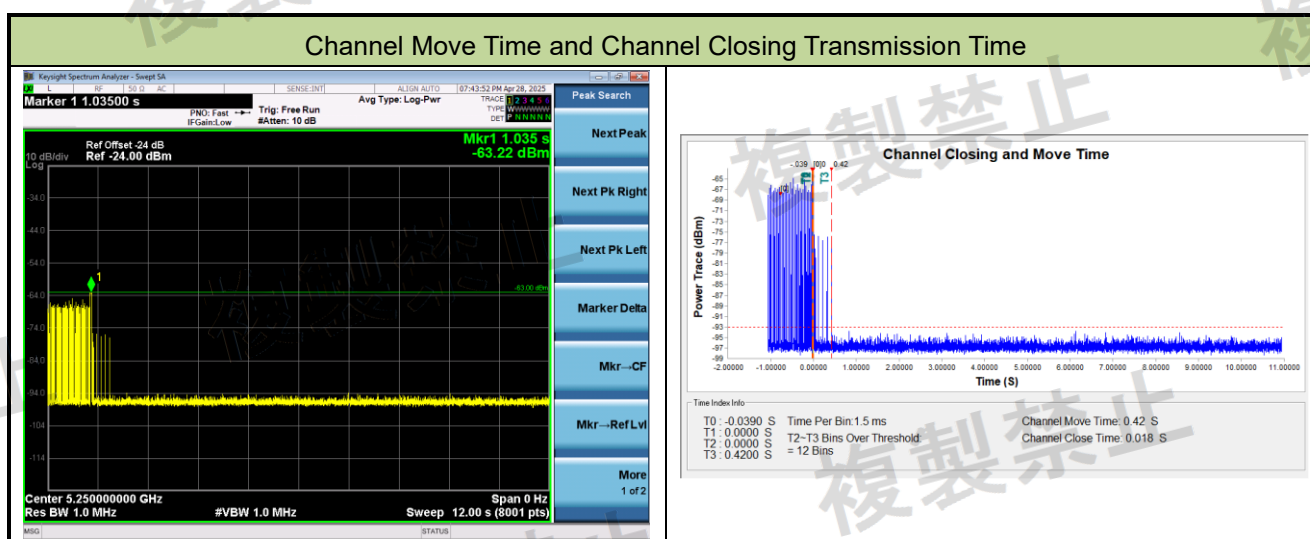
Test Site	WZ-SR4	Temperature	23.4 ~ 24.2 °C
Test Engineer	Ant Wang	Humidity	47.1 ~ 49.6 %RH
Test Date	2025-04-28 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-7		
Test Mode	Transmit – 5250MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.516s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	24.0ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

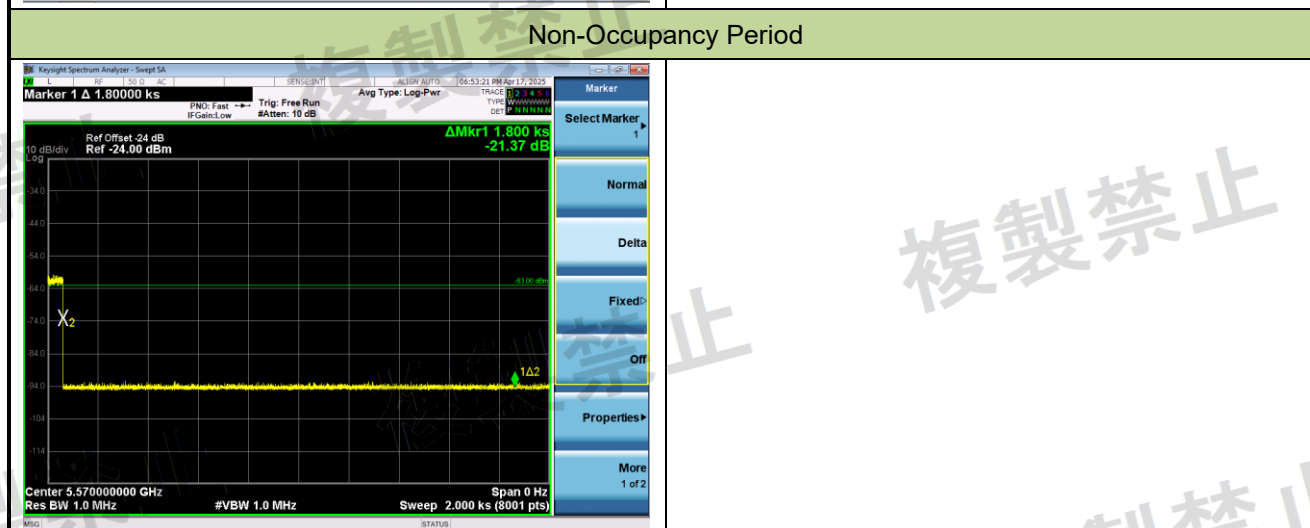
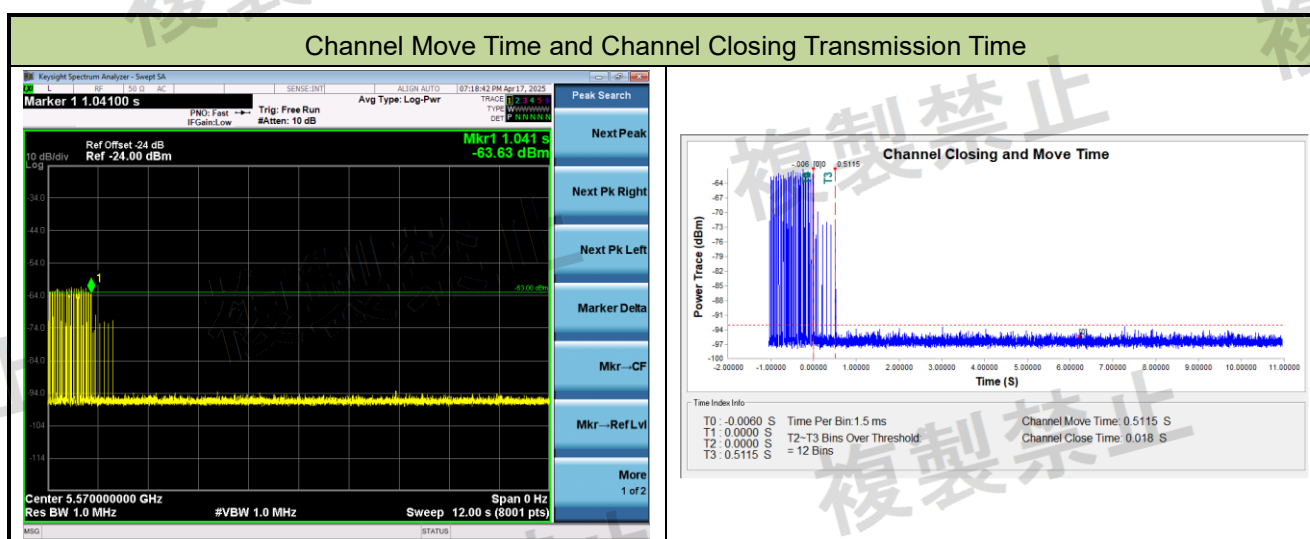
Test Site	WZ-SR4	Temperature	23.4 ~ 24.2 °C
Test Engineer	Ant Wang	Humidity	47.1 ~ 49.6 %RH
Test Date	2025-04-28 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-8		
Test Mode	Transmit – 5250MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.42s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	18.0ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

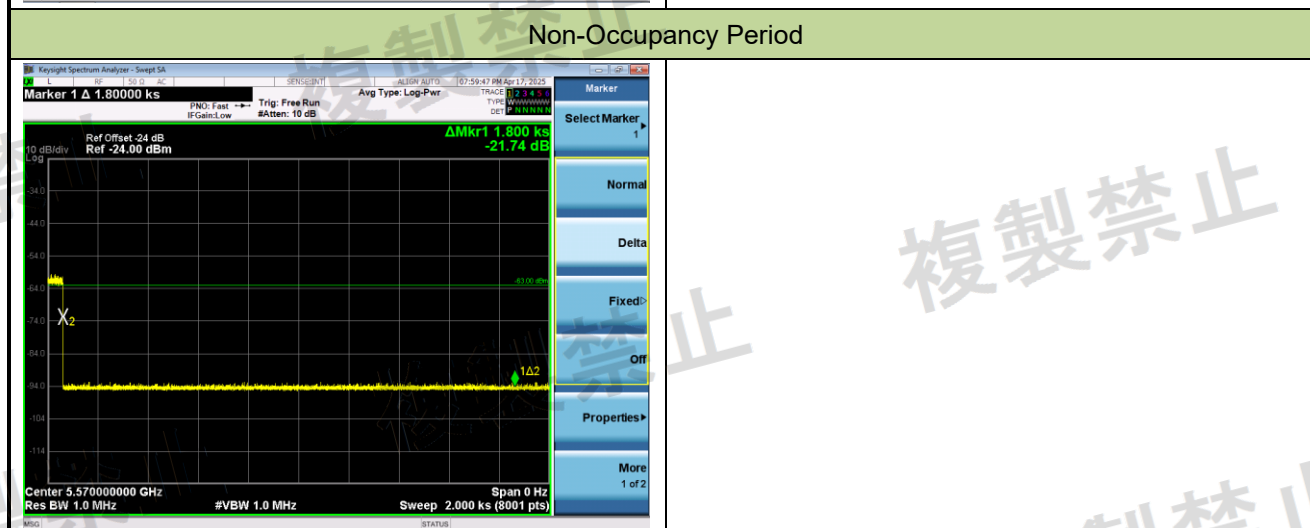
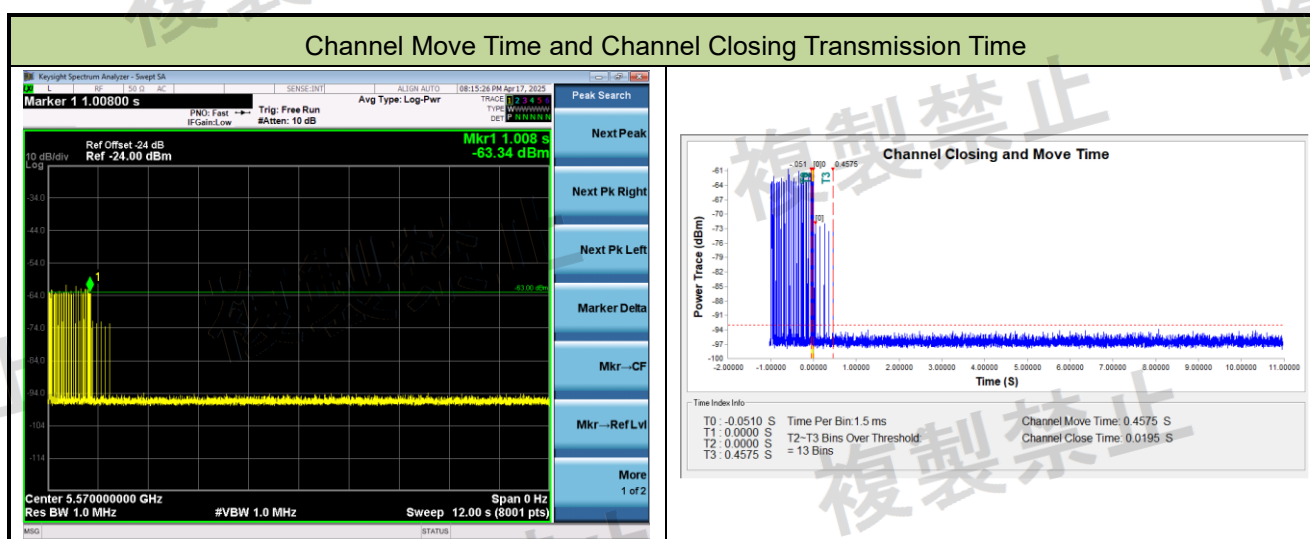
Test Site	WZ-SR4	Temperature	22.9 ~ 25.4 °C
Test Engineer	Ant Wang	Humidity	46.2 ~ 56.7 %RH
Test Date	2025-04-17 ~ 2025-04-29		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-1		
Test Mode	Transmit – 5570MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.5115s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	18.0ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

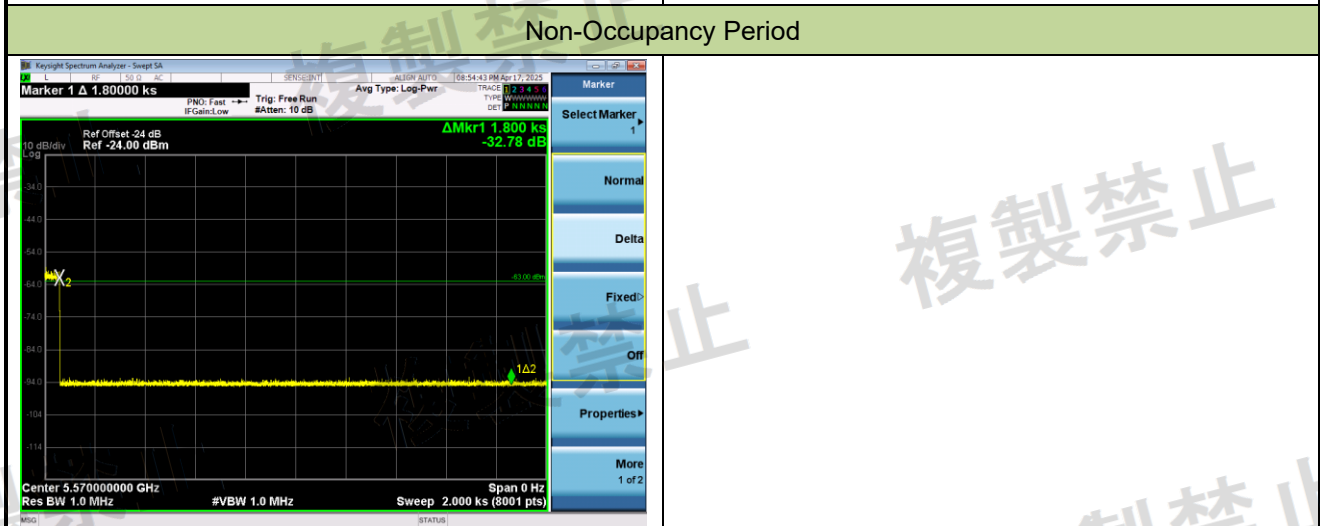
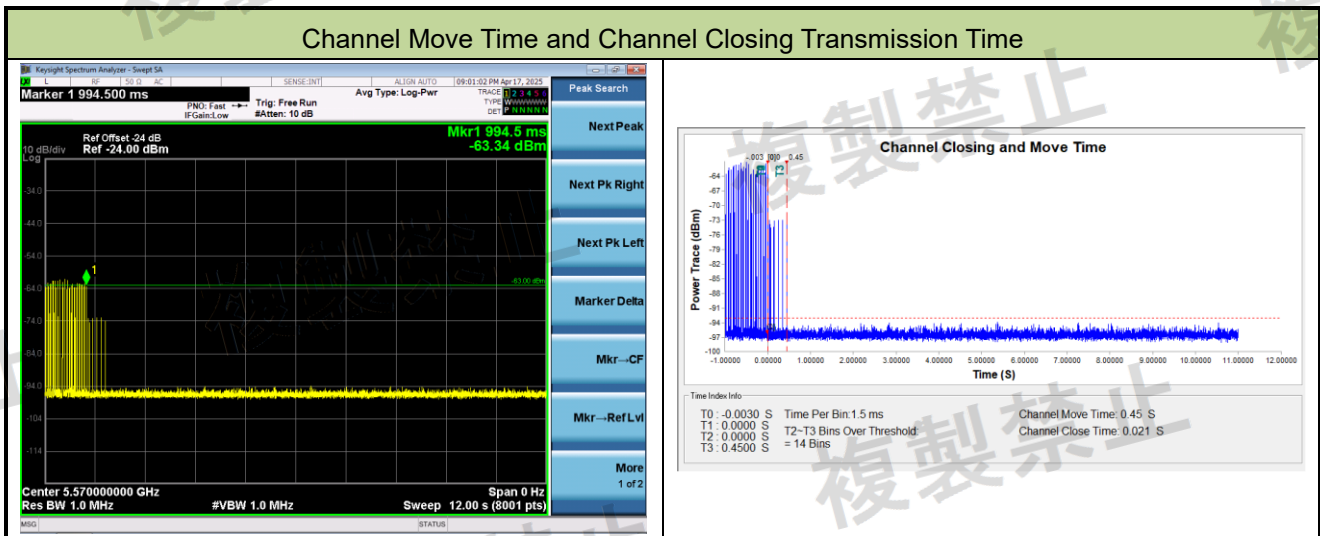
Test Site	WZ-SR4	Temperature	22.9 ~ 25.4 °C
Test Engineer	Ant Wang	Humidity	46.2 ~ 56.7 %RH
Test Date	2025-04-17 ~ 2025-04-29		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-3		
Test Mode	Transmit – 5570MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.4575s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	19.5ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

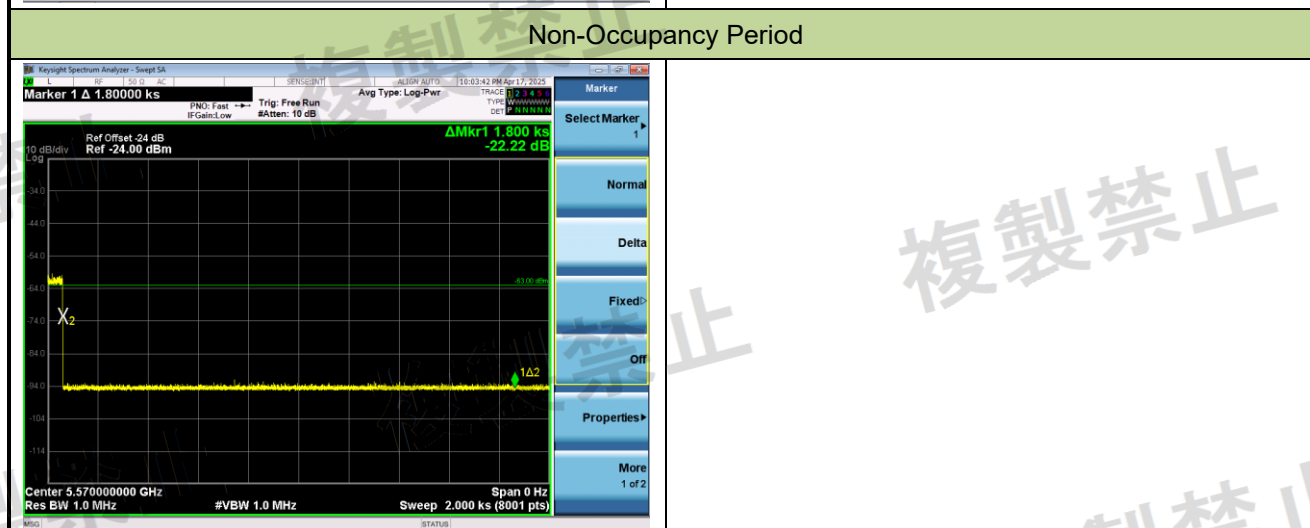
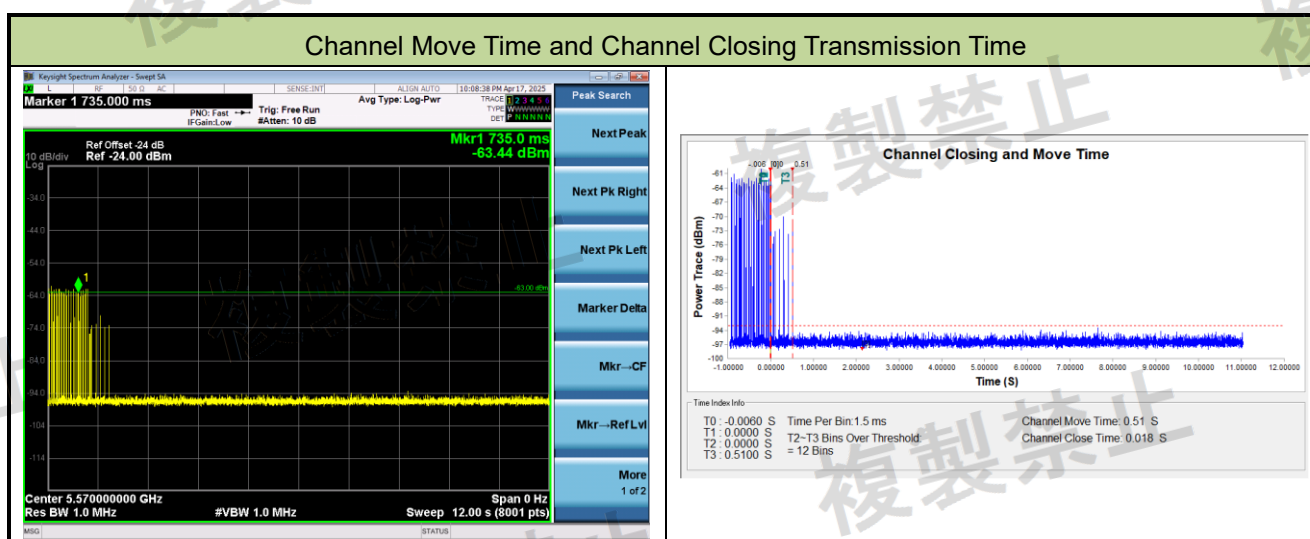
Test Site	WZ-SR4	Temperature	22.9 ~ 25.4 °C
Test Engineer	Ant Wang	Humidity	46.2 ~ 56.7 %RH
Test Date	2025-04-17 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-4		
Test Mode	Transmit – 5570MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.45s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	21.0ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

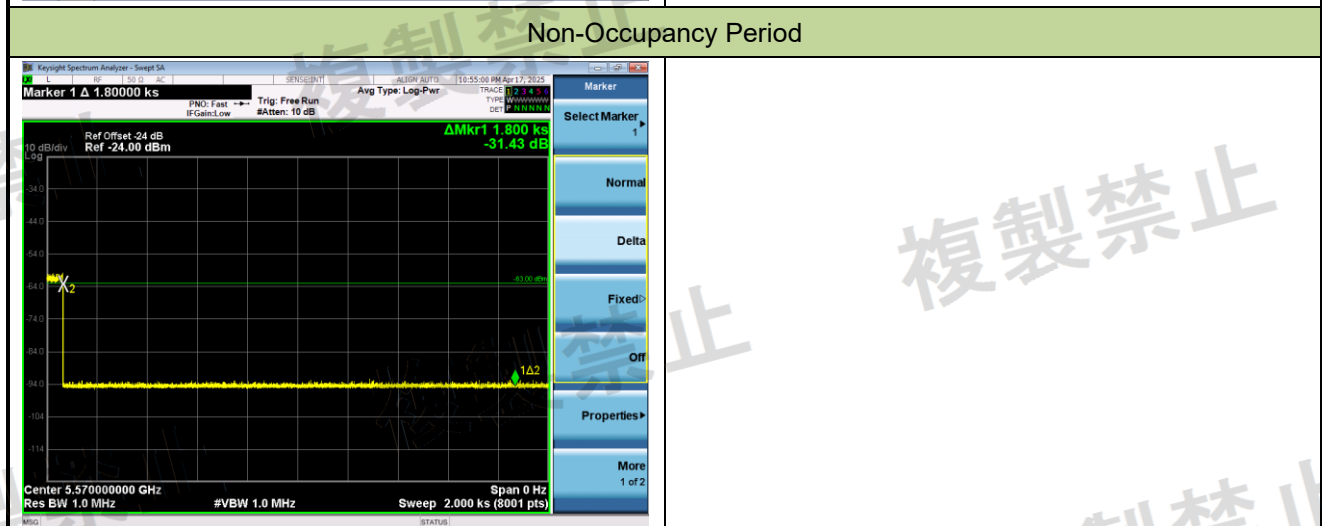
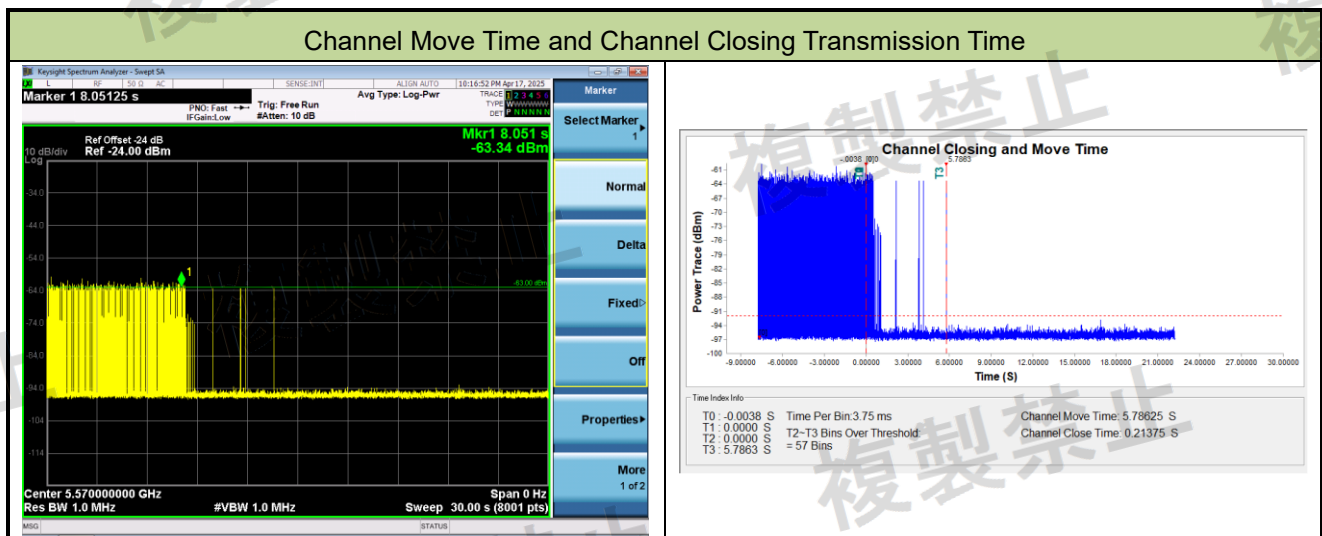
Test Site	WZ-SR4	Temperature	22.9 ~ 25.4 °C
Test Engineer	Ant Wang	Humidity	46.2 ~ 56.7 %RH
Test Date	2025-04-17 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Radar Classification-5		
Test Mode	Transmit – 5570MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.51s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	18.0ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

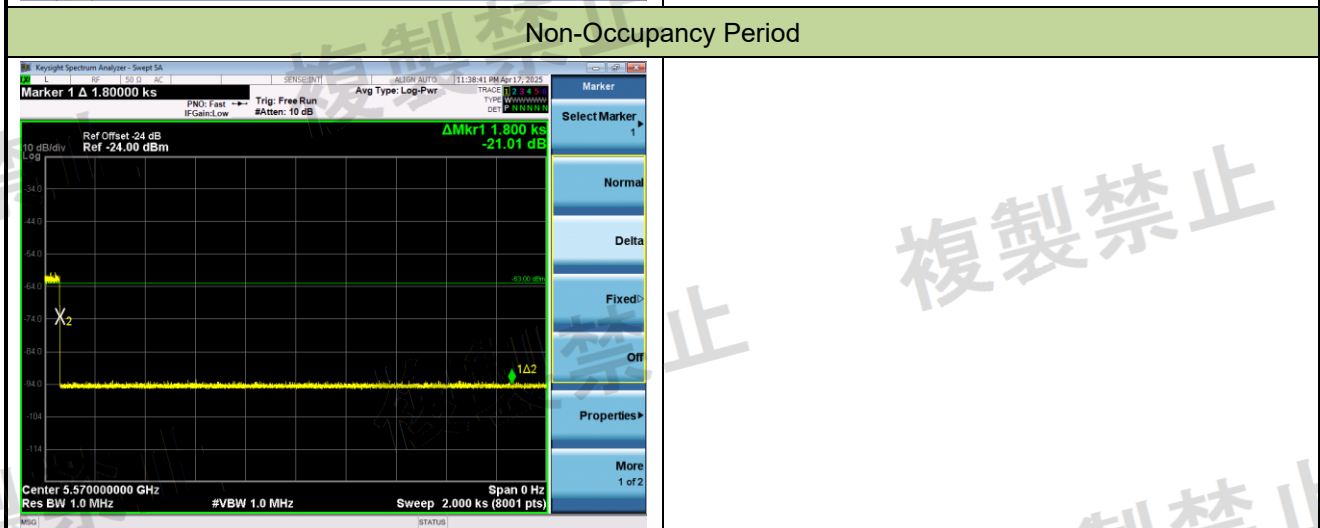
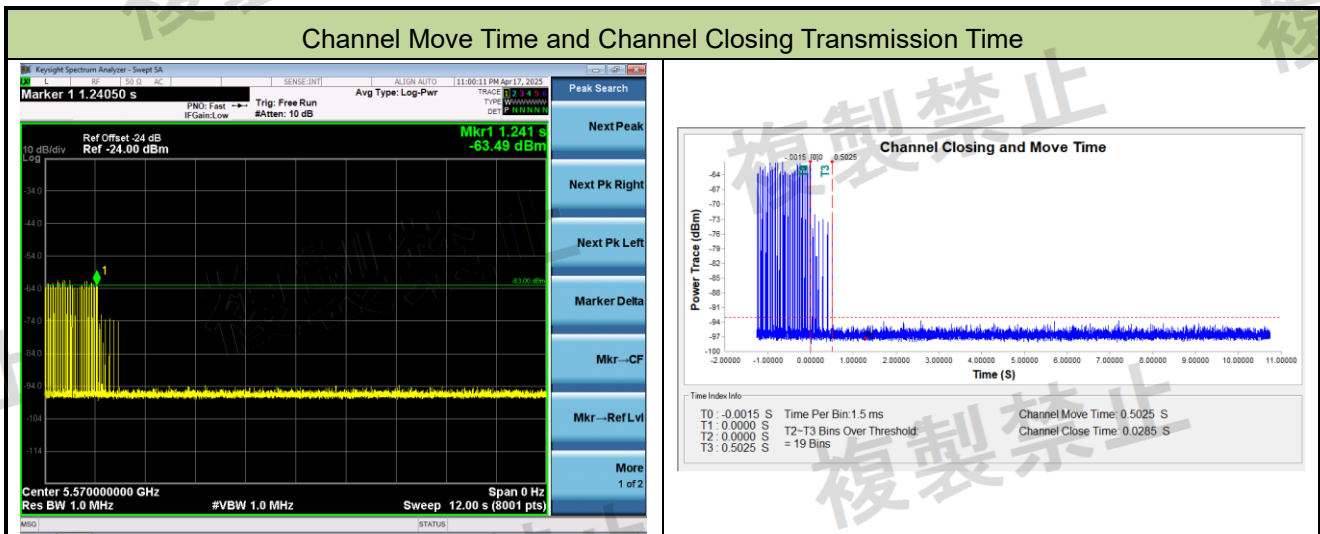
Test Site	WZ-SR4	Temperature	22.9 ~ 25.4 °C
Test Engineer	Ant Wang	Humidity	46.2 ~ 56.7 %RH
Test Date	2025-04-17 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Chirp Radar		
Test Mode	Transmit – 5570MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	5.78625s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	213.75ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Test Site	WZ-SR4	Temperature	22.9 ~ 25.4 °C
Test Engineer	Ant Wang	Humidity	46.2 ~ 56.7 %RH
Test Date	2025-04-17 ~ 2025-04-30		
Test Item	Channel Move Time, Channel Closing Transmission Time and Non-Occupancy		
	Period		
Radar Type	Hopping Radar		
Test Mode	Transmit – 5570MHz		



Parameter	Test Result	Limit
Channel Move Time (s)	0.5025s	< 10s
Channel Closing Transmission Time (ms) ^{Note}	28.5ms	< 260ms
Non-Occupancy Period (min)	≥ 30min	≥ 30min

Note: The Channel Closing Transmission Time is comprised of 260 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Appendix A - Test Setup Photograph

Refer to “R25S1013037-JT” file.

Appendix B - EUT Photograph

Refer to "R25S1013037-JE" file.