

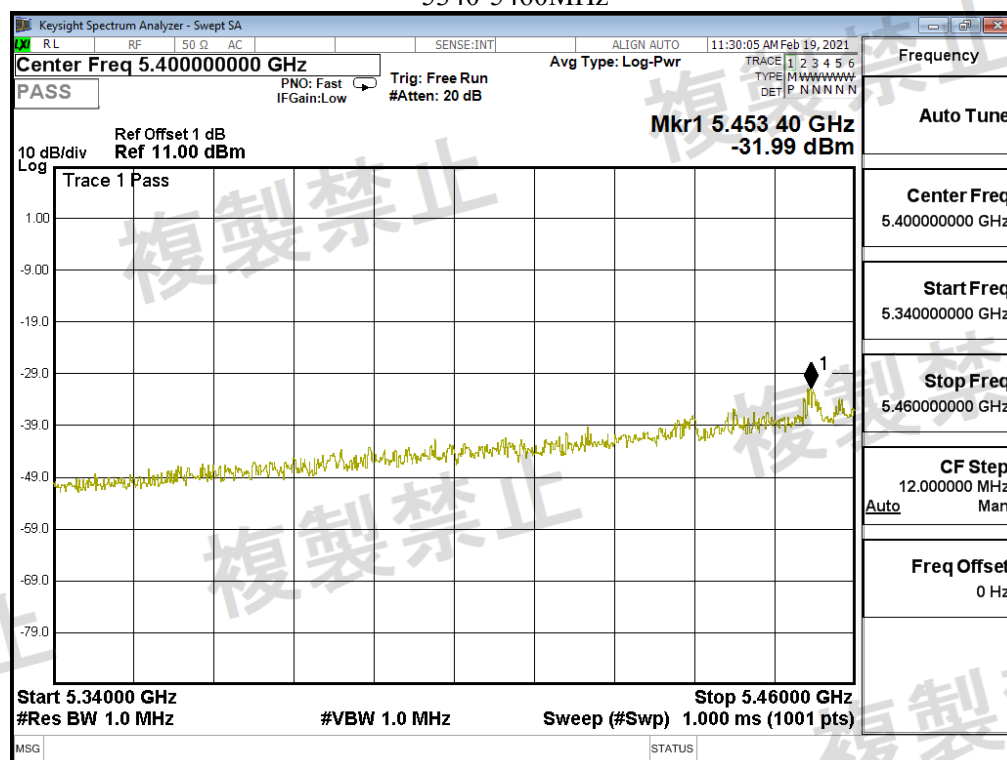
Product : Wireless module
 Test Item : Out-Band Leakage Power
 Test Mode : Mode 1: Transmit (802.11ac-80BW) 5610MHz_Chain A (Dipole) (Panel)

Antenna gain: 8.87dBi

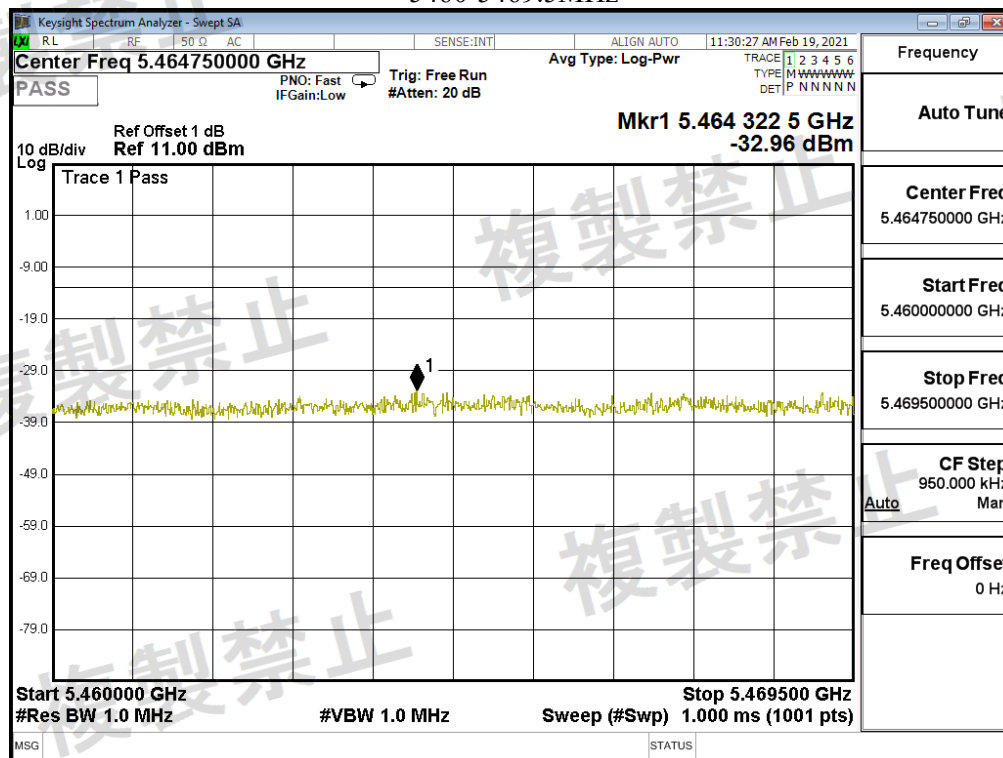
Chain A					
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Measurement Level (uW)	Limit (uW/MHz)
Tnom (25 °C)	Vnom (100 V)	5340 to 5460MHz	-31.99	4.8753	≤ 12.5
		5460 to 5469.5MHz	-32.96	3.8994	≤ 50
		5469.5 to 5470MHz	-32.78	4.0644	≤ 51.2
		5770 to 5800MHz	-32.76	4.0832	≤ 12.5

Measurement Level (uW) = $10^{((\text{Reading Value (dBm)} + \text{Antenna Gain} + \text{Cable loss})/10)*1000}$

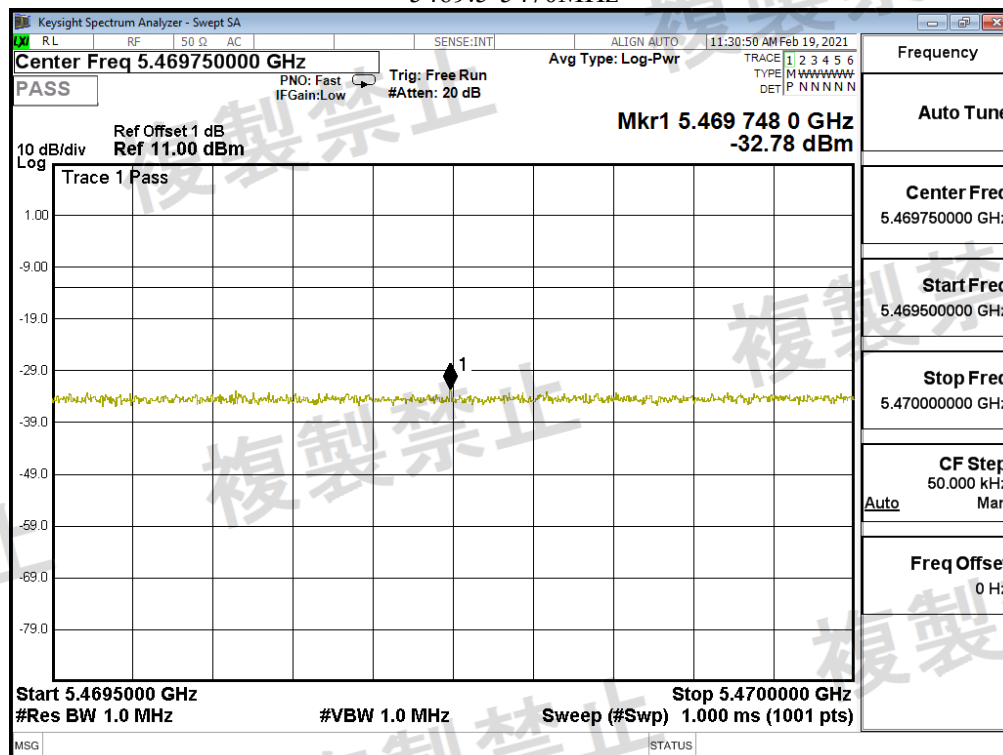
5340-5460MHz



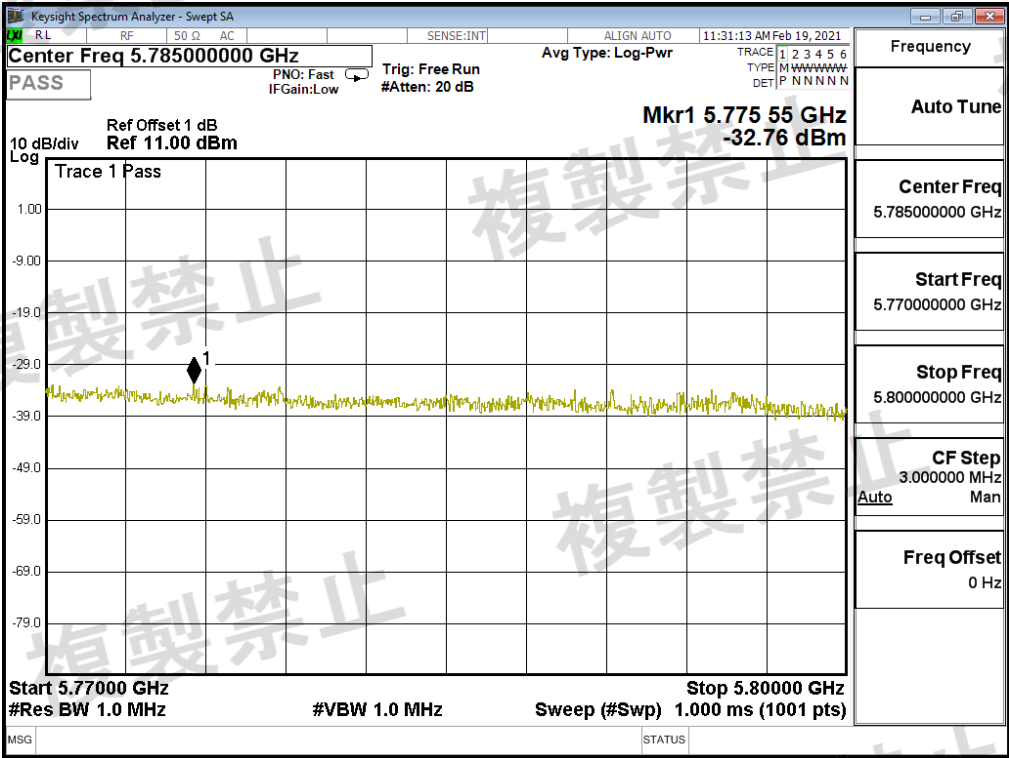
5460-5469.5MHz



5469.5-5470MHz



5770 - 5800MHz



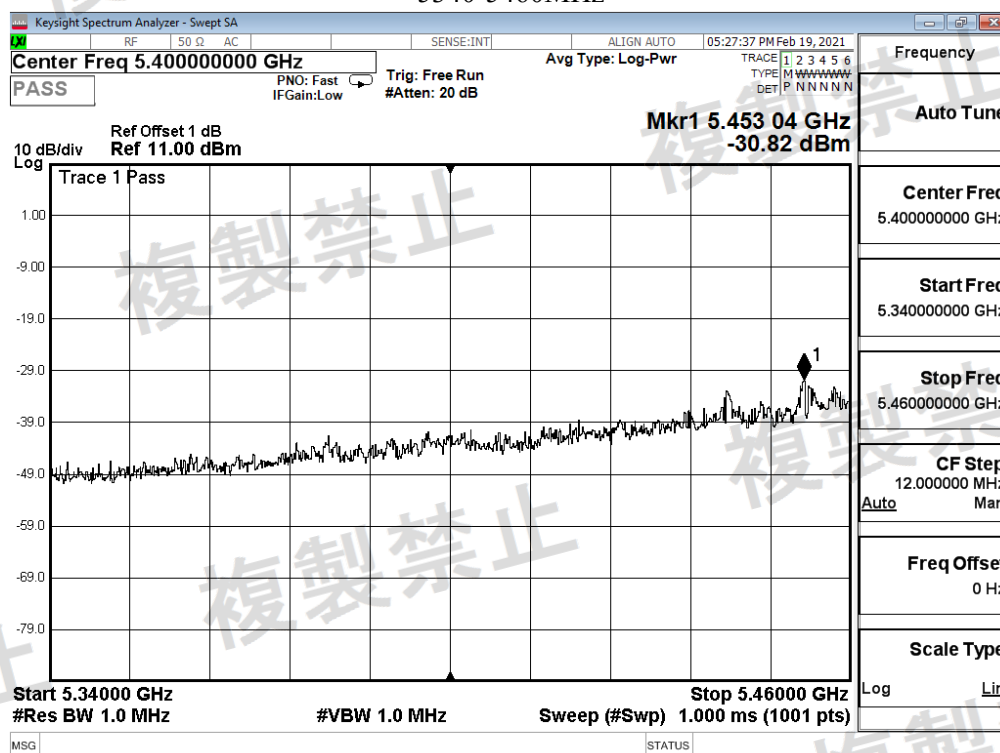
Product : Wireless module
 Test Item : Out-Band Leakage Power
 Test Mode : Mode 1: Transmit (802.11ac-80BW) 5610MHz_Chain B (Dipole) (Panel)

Antenna gain: 8.87dBi

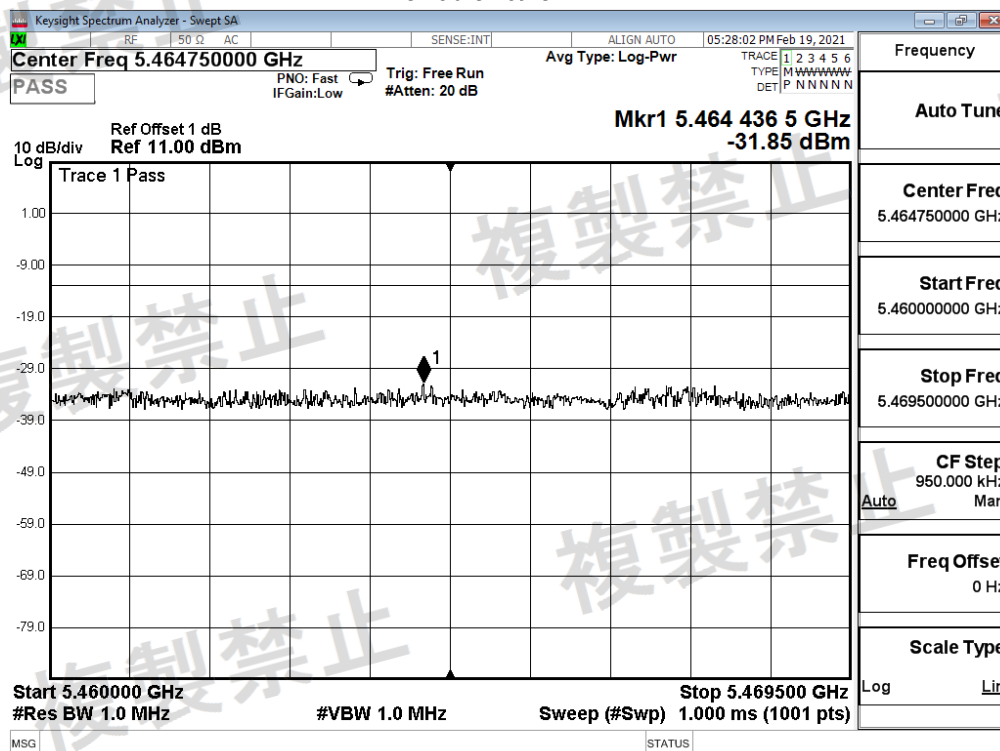
Chain B					
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Measurement Level (uW)	Limit (uW/MHz)
Tnom (25 °C)	Vnom (100 V)	5340 to 5460MHz	-30.82	6.3826	≤ 12.5
		5460 to 5469.5MHz	-31.85	5.0350	≤ 50
		5469.5 to 5470MHz	-31.89	4.9888	≤ 51.2
		5770 to 5800MHz	-31.33	5.6754	≤ 12.5

Measurement Level (uW) = $10^{((\text{Reading Value (dBm)} + \text{Antenna Gain} + \text{Cable loss})/10)*1000}$

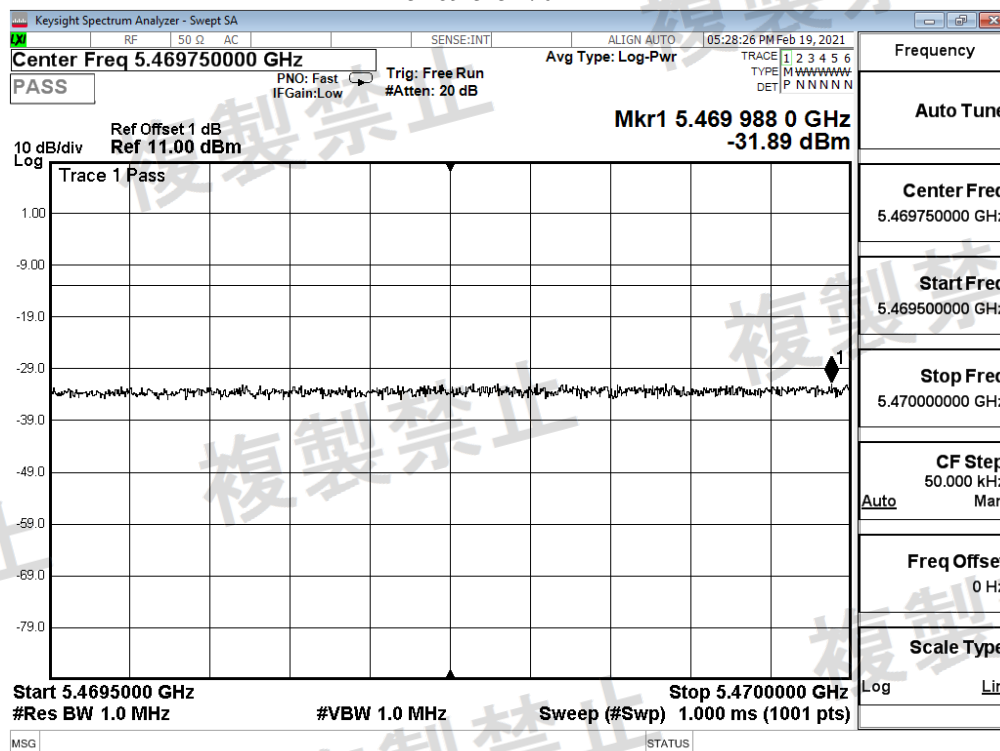
5340-5460MHz



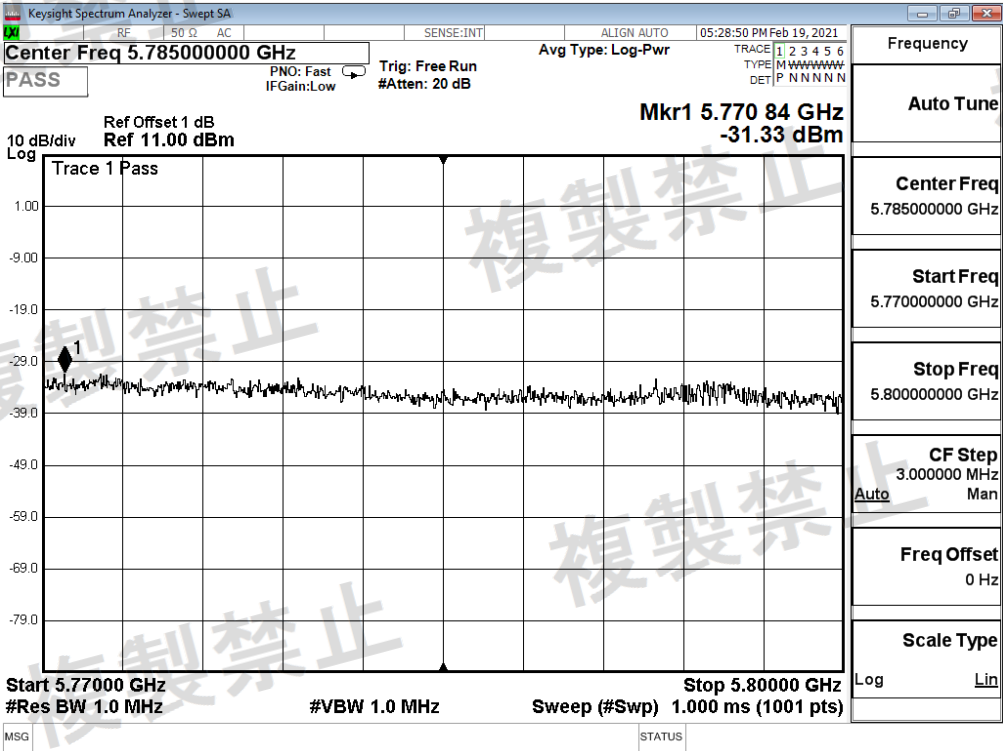
5460-5469.5MHz



5469.5-5470MHz



5770 - 5800MHz

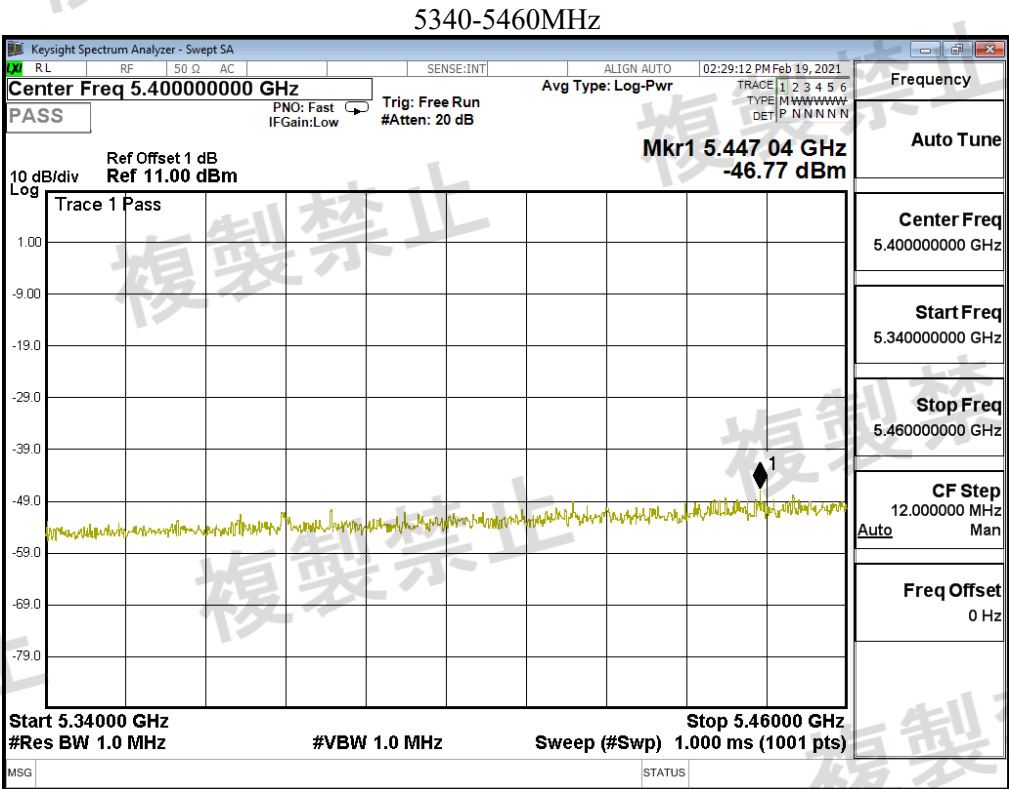


Product : Wireless module
Test Item : Out-Band Leakage Power
Test Mode : Mode 1: Transmit (802.11ac-80BW) 5690MHz_Chain A (Dipole) (Panel)

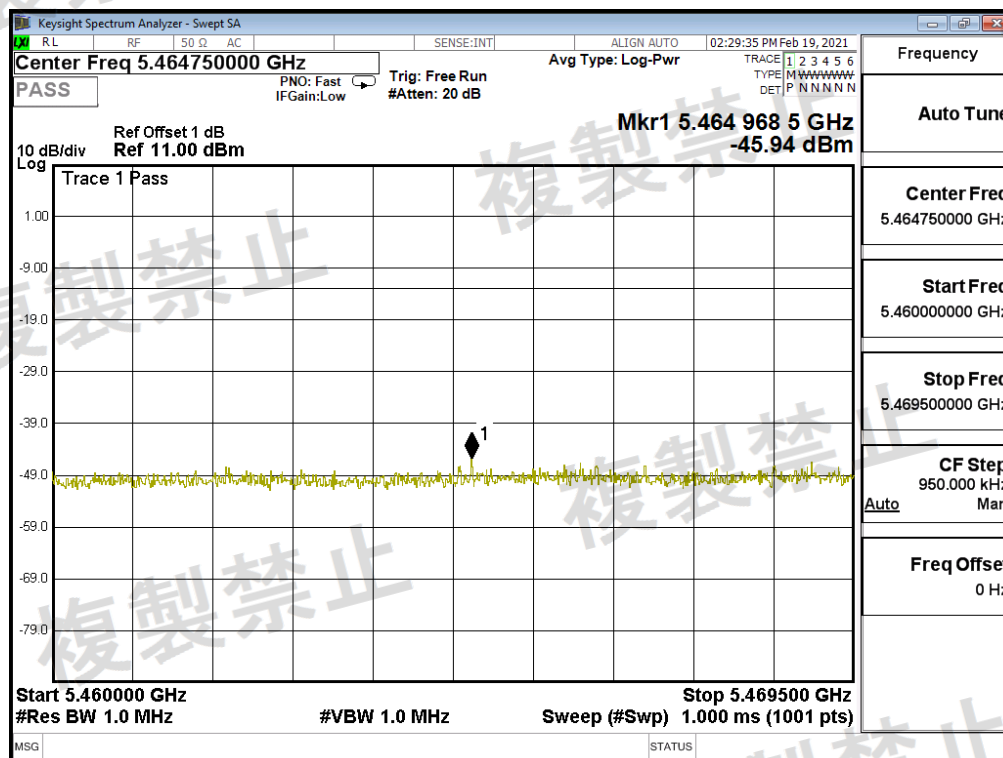
Antenna gain: 8.87dBi

Chain A					
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Measurement Level (uW)	Limit (uW/MHz)
Tnom (25 °C)	Vnom (100 V)	5340 to 5460MHz	-46.77	0.1622	≤ 12.5
		5460 to 5469.5MHz	-45.94	0.1963	≤ 50
		5469.5 to 5470MHz	-45.60	0.2123	≤ 51.2
		5770 to 5800MHz	-39.83	0.8009	≤ 12.5

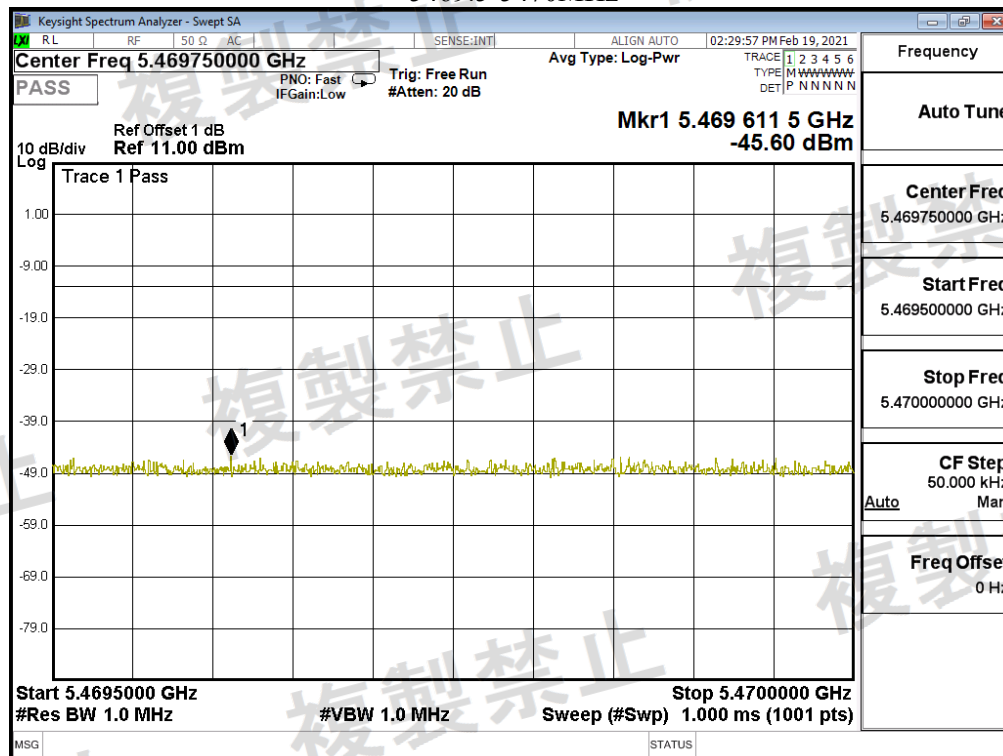
Measurement Level (uW) = $10^{((\text{Reading Value (dBm)} + \text{Antenna Gain} + \text{Cable loss})/10)*1000}$



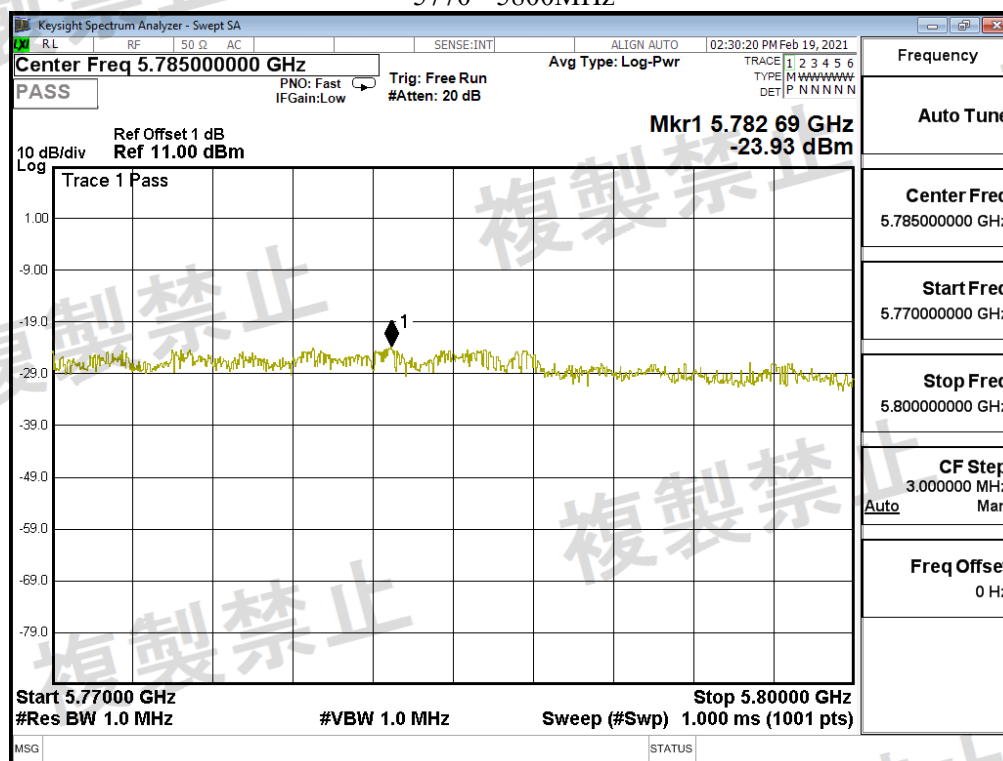
5460-5469.5MHz



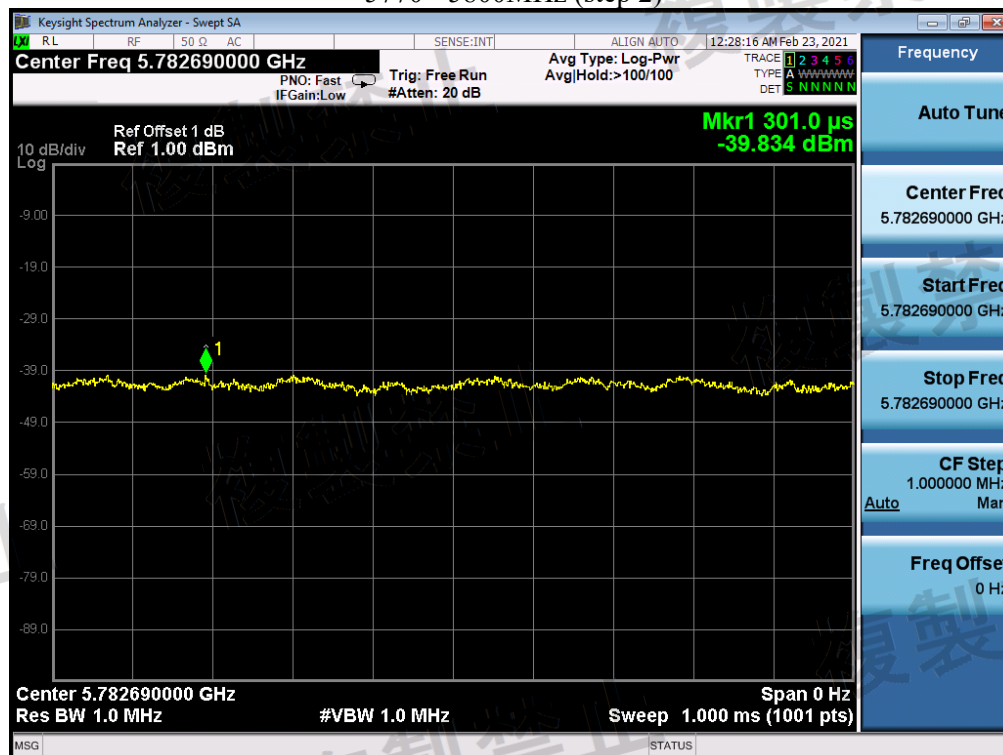
5469.5-5470MHz



5770 - 5800MHz



5770 - 5800MHz (step 2)



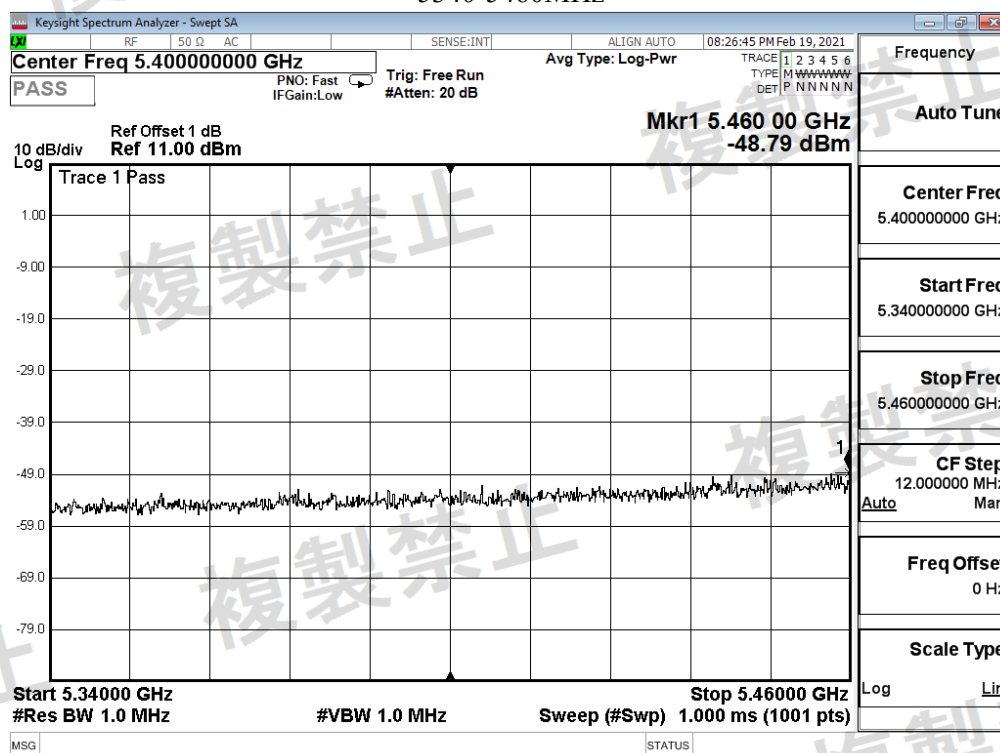
Product : Wireless module
 Test Item : Out-Band Leakage Power
 Test Mode : Mode 1: Transmit (802.11ac-80BW) 5690MHz_Chain B (Dipole) (Panel)

Antenna gain: 8.87dBi

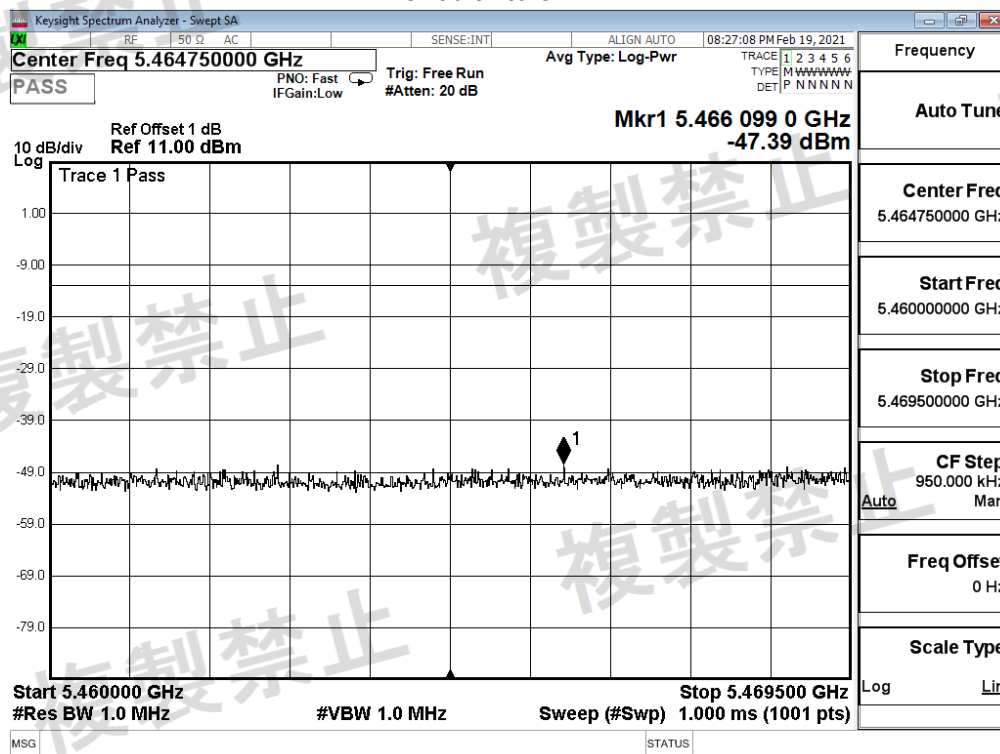
Chain B					
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Measurement Level (uW)	Limit (uW/MHz)
Tnom (25 °C)	Vnom (100 V)	5340 to 5460MHz	-48.79	0.1019	≤ 12.5
		5460 to 5469.5MHz	-47.39	0.1406	≤ 50
		5469.5 to 5470MHz	-44.94	0.2472	≤ 51.2
		5770 to 5800MHz	-37.19	1.4710	≤ 12.5

Measurement Level (uW) = $10^{((\text{Reading Value (dBm)} + \text{Antenna Gain} + \text{Cable loss})/10)*1000}$

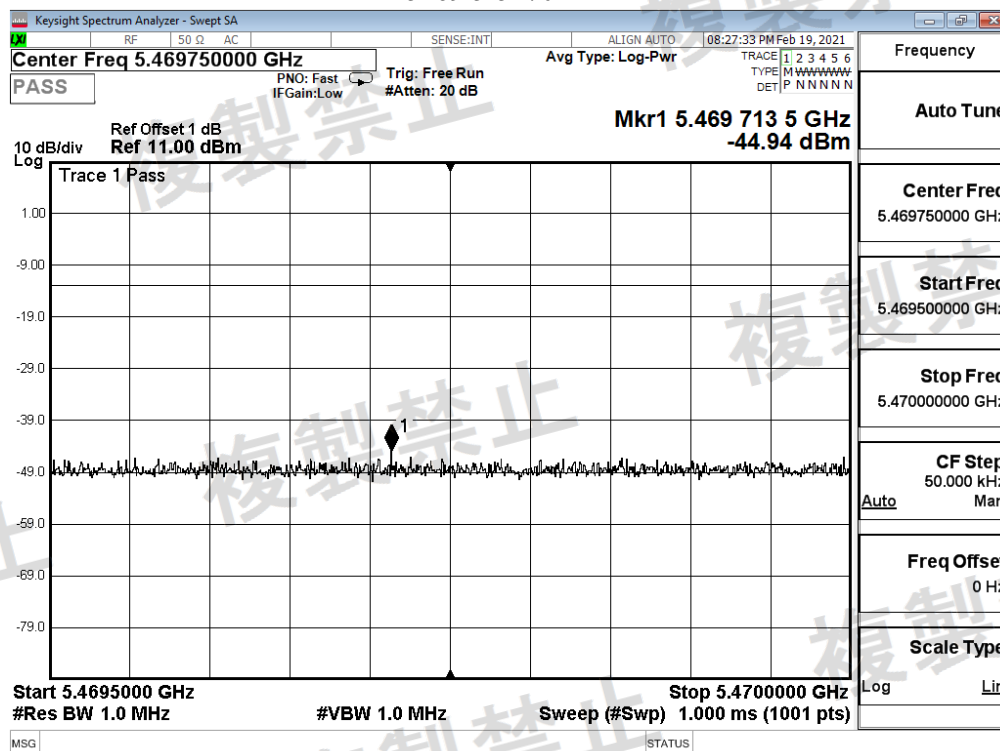
5340-5460MHz



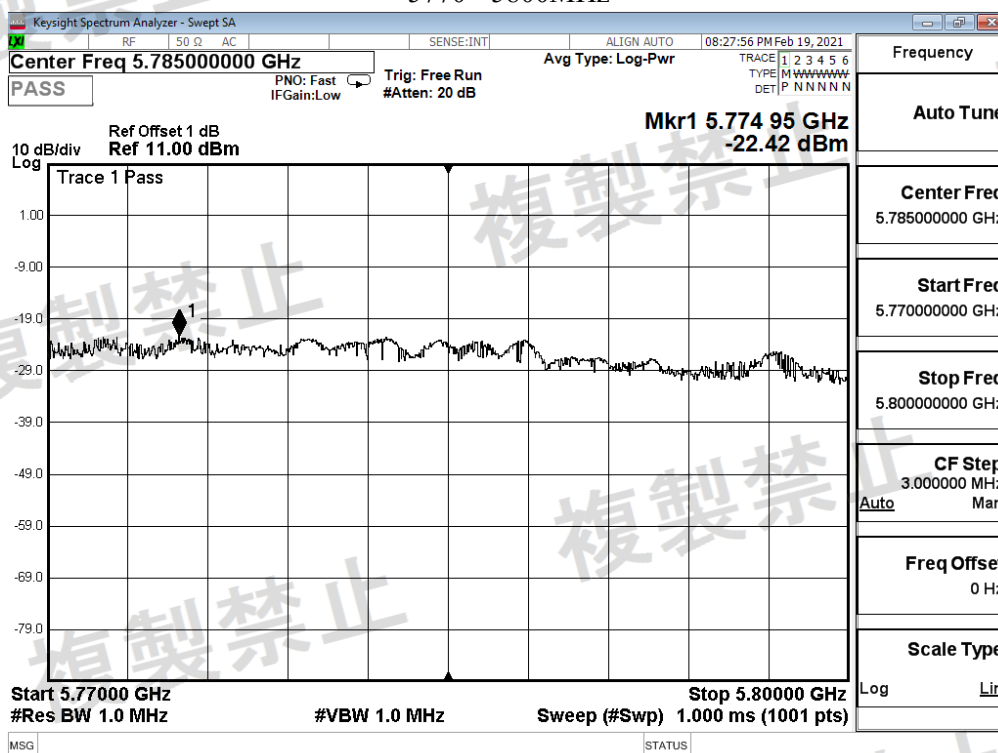
5460-5469.5MHz



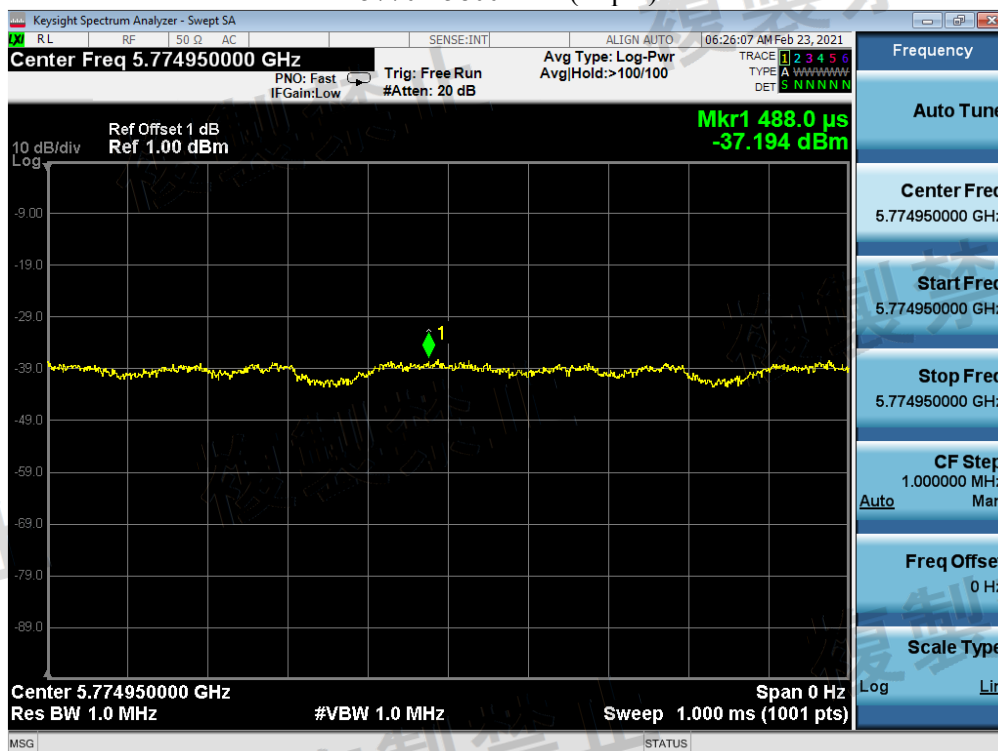
5469.5-5470MHz



5770 - 5800MHz



5770 - 5800MHz (step 2)



9. Receiver Spurious Emissions

9.1. Test Setup



9.2. Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- (a) A positive peak detector function must be used.
- (b) The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- (c) 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

9.3. Limits

$\leq 4\text{nW}$ for 30 – 1000 MHz

$\leq 20\text{nW}$ for 1000 – 26000MHz

9.4. Uncertainty

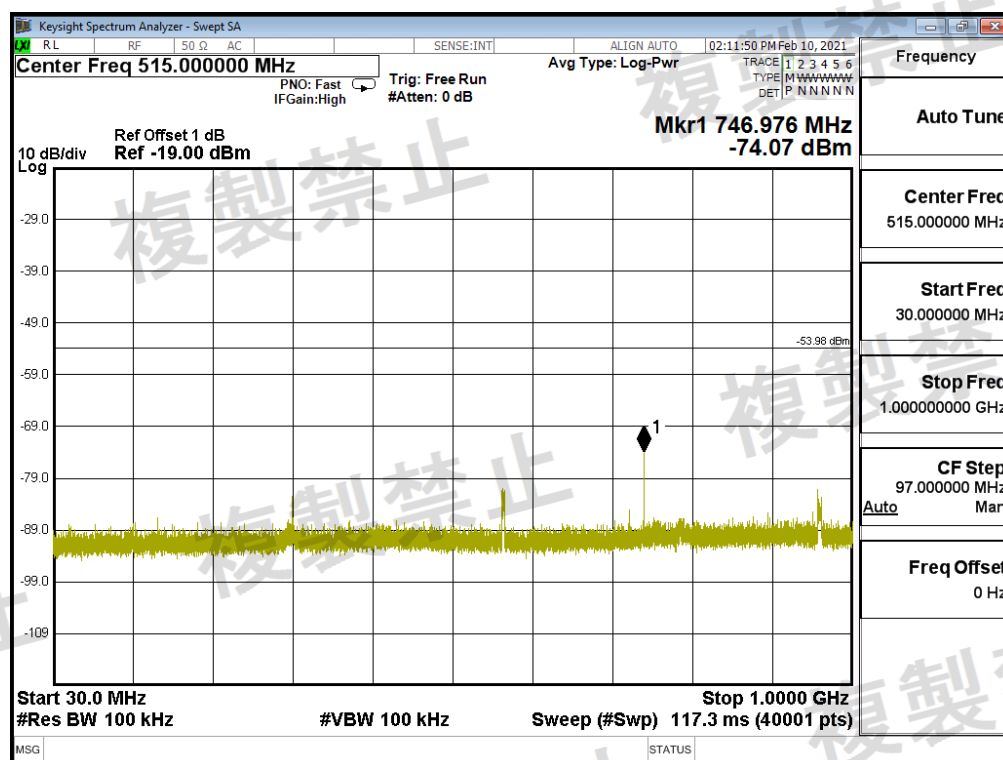
$\pm 1.30\text{dB}$

9.5. Test Result of Receiver Spurious Emissions

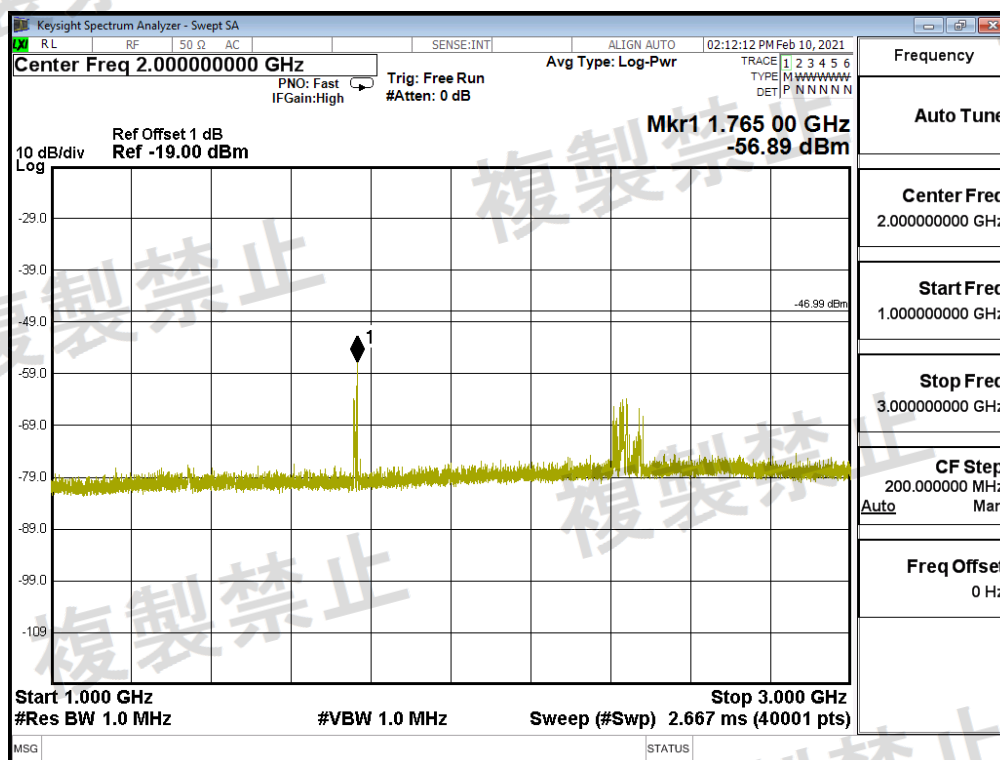
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11a) 5180MHz z_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 –1000	-74.07	-54 (4nW)
		1000 – 3000	-56.89	-47 (20nW)
		3000 – 16000	-70.82	-47 (20nW)
		16000 – 26000	-59.87	-47 (20nW)

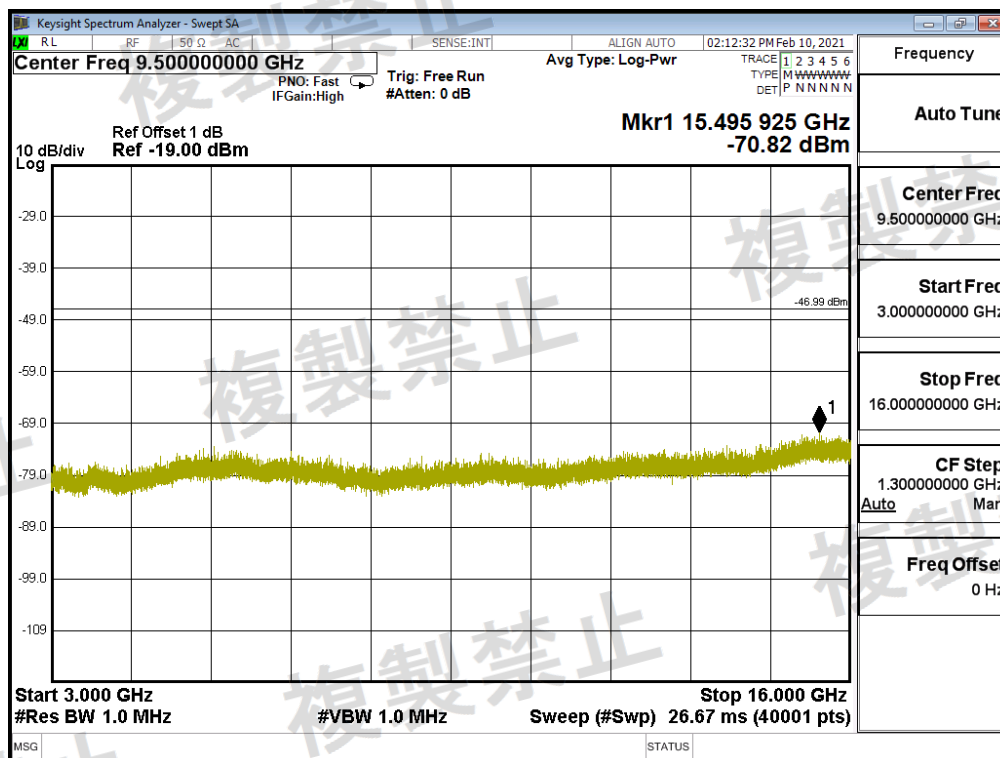
30 – 1000MHz



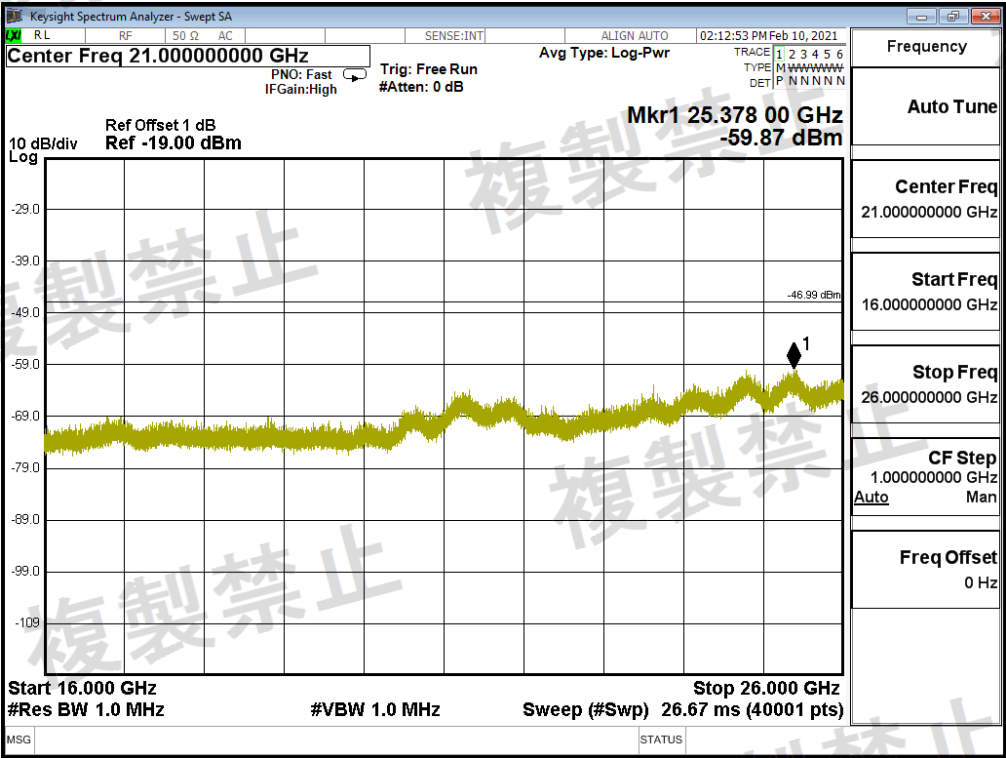
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz



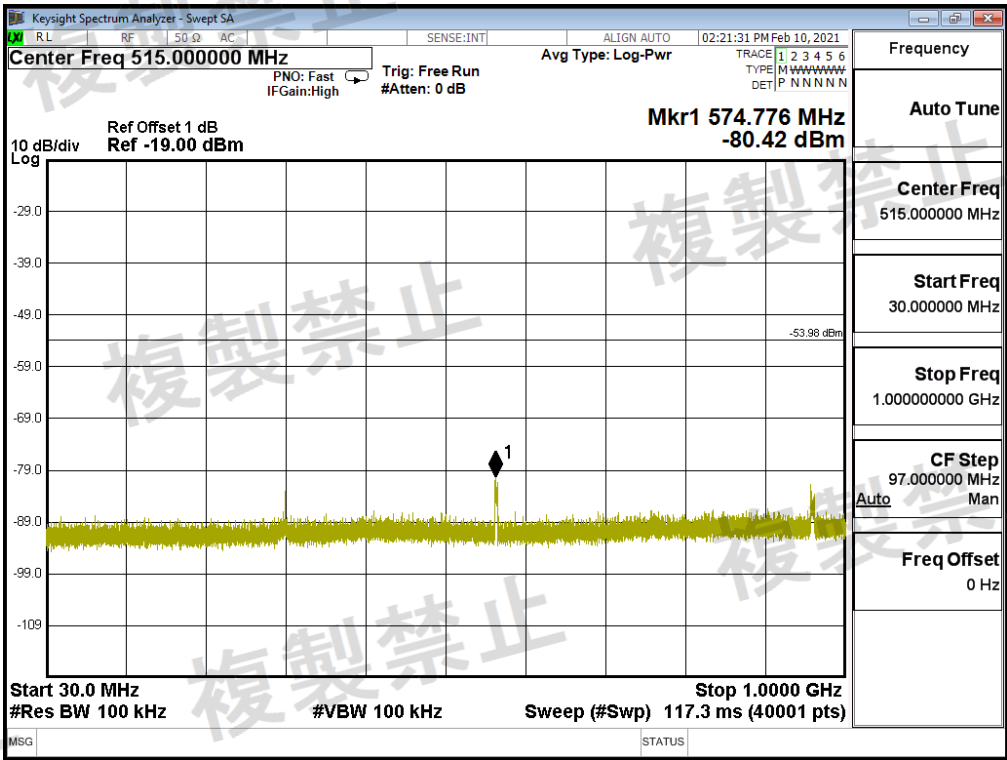
Test Result

PASS

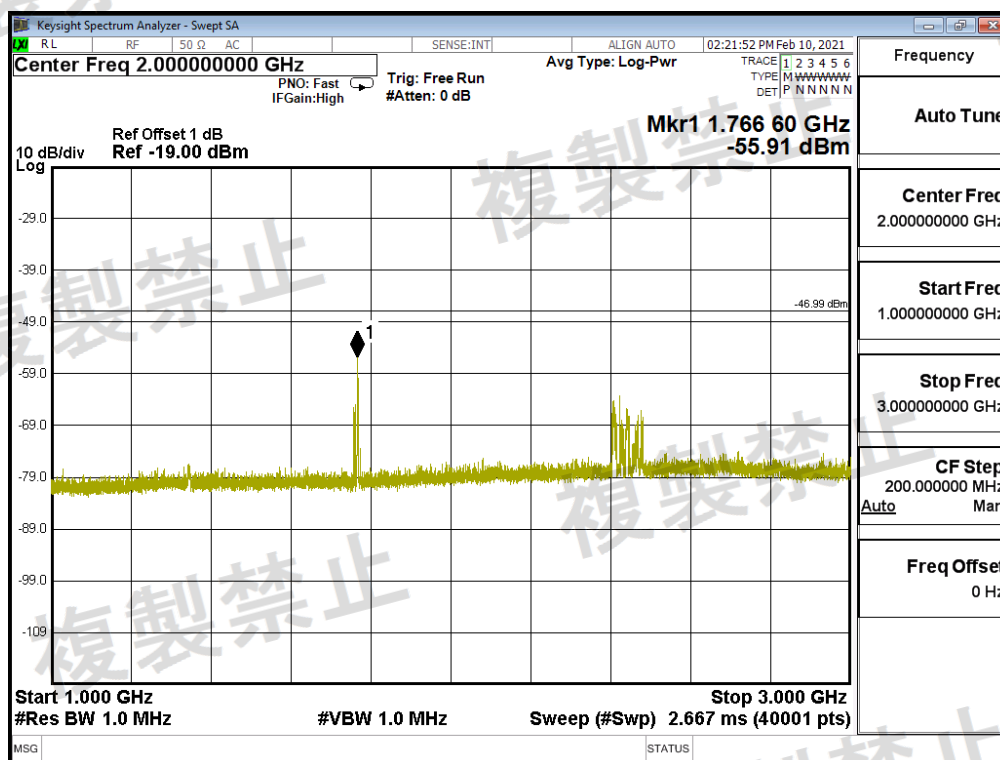
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11a) 5240MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

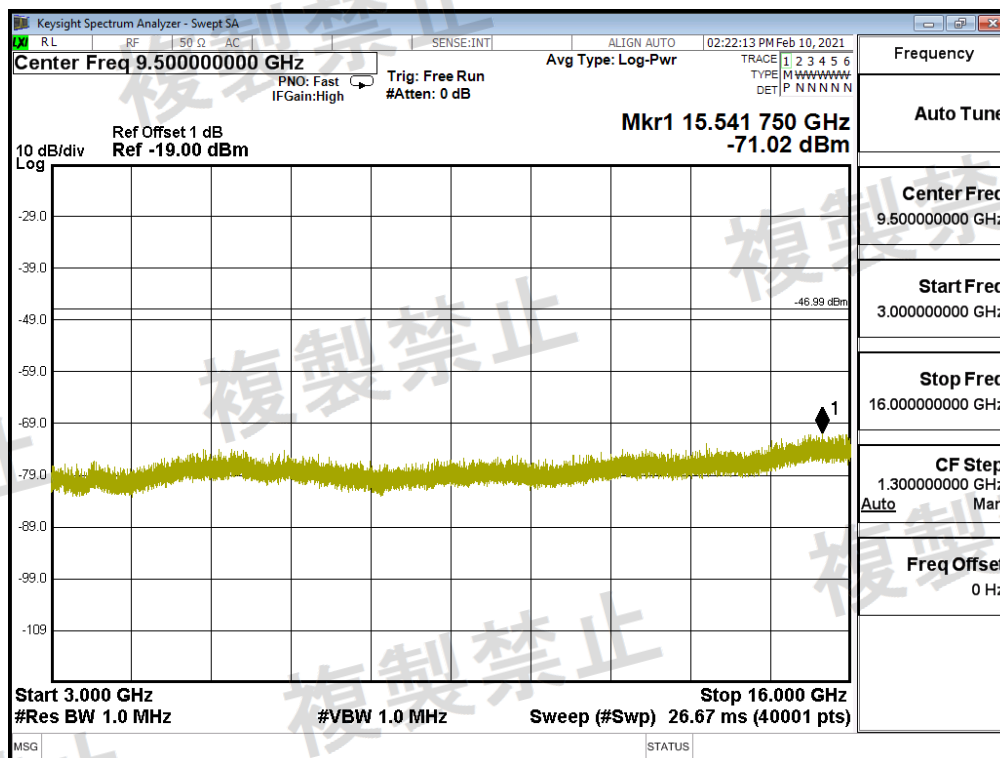
30 - 1000MHz



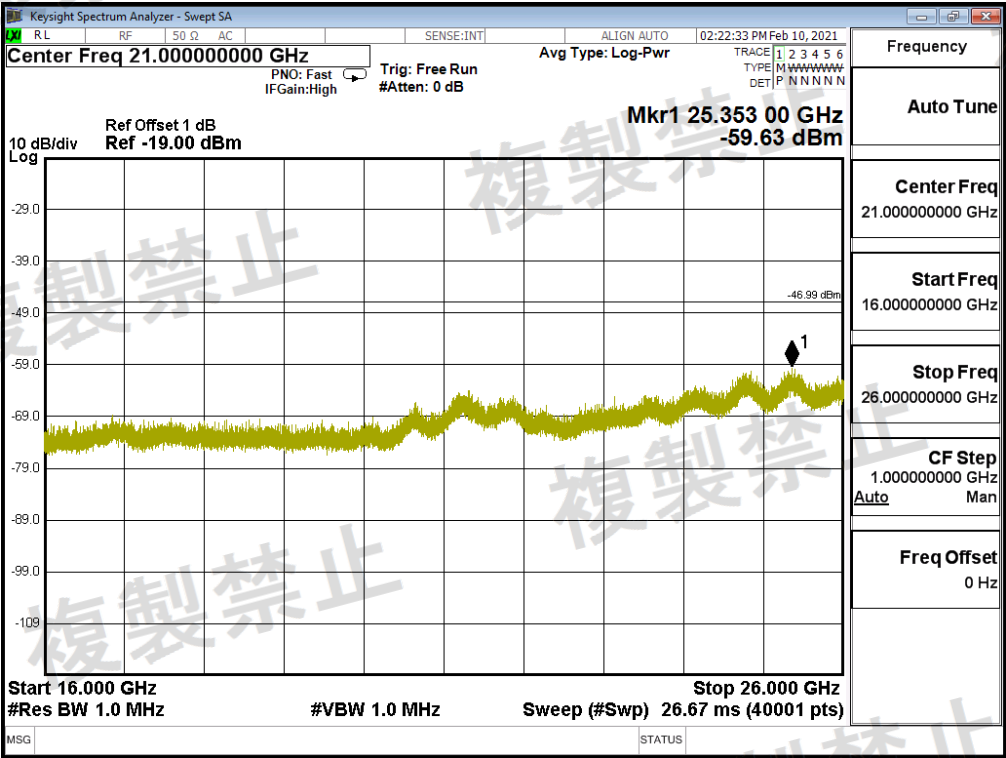
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

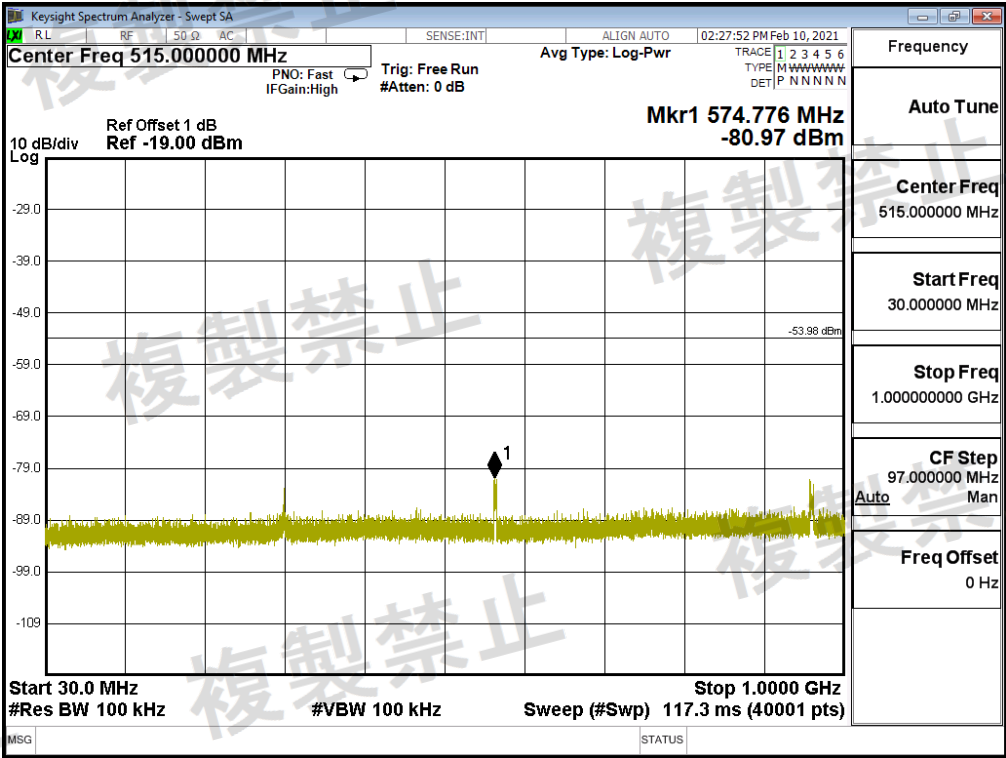


Test Result	PASS
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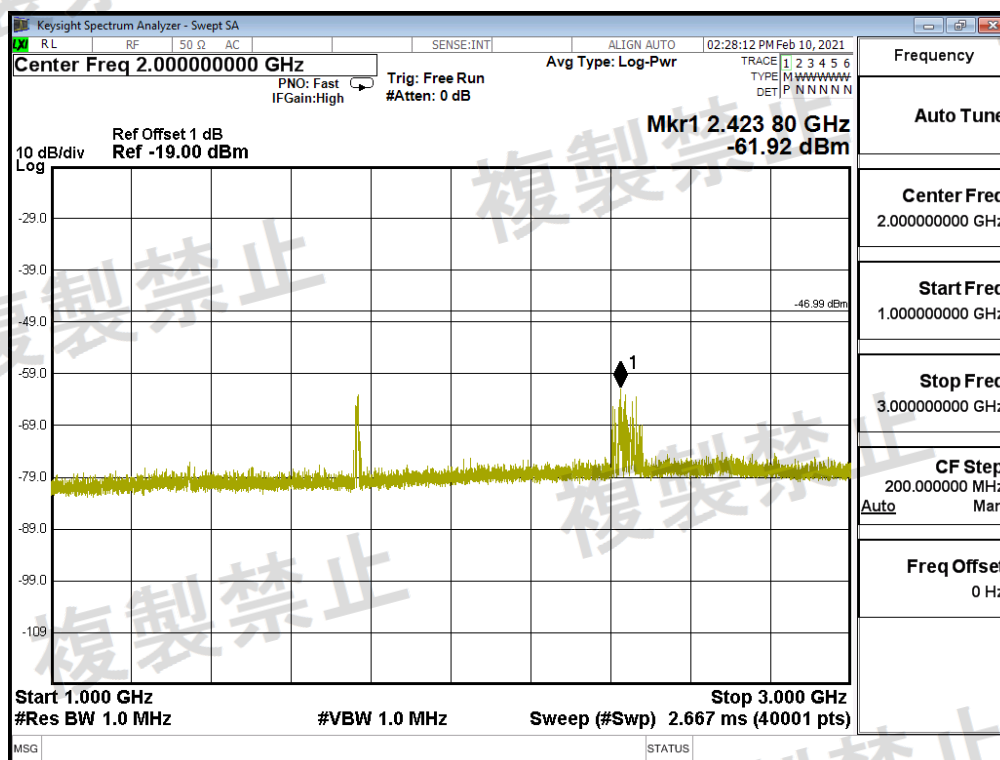
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11a) 5260MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C) Vnom (100 V)		30 - 1000	-80.97
		1000 - 3000	-61.92
		3000 - 16000	-70.62
		16000 - 26000	-59.86

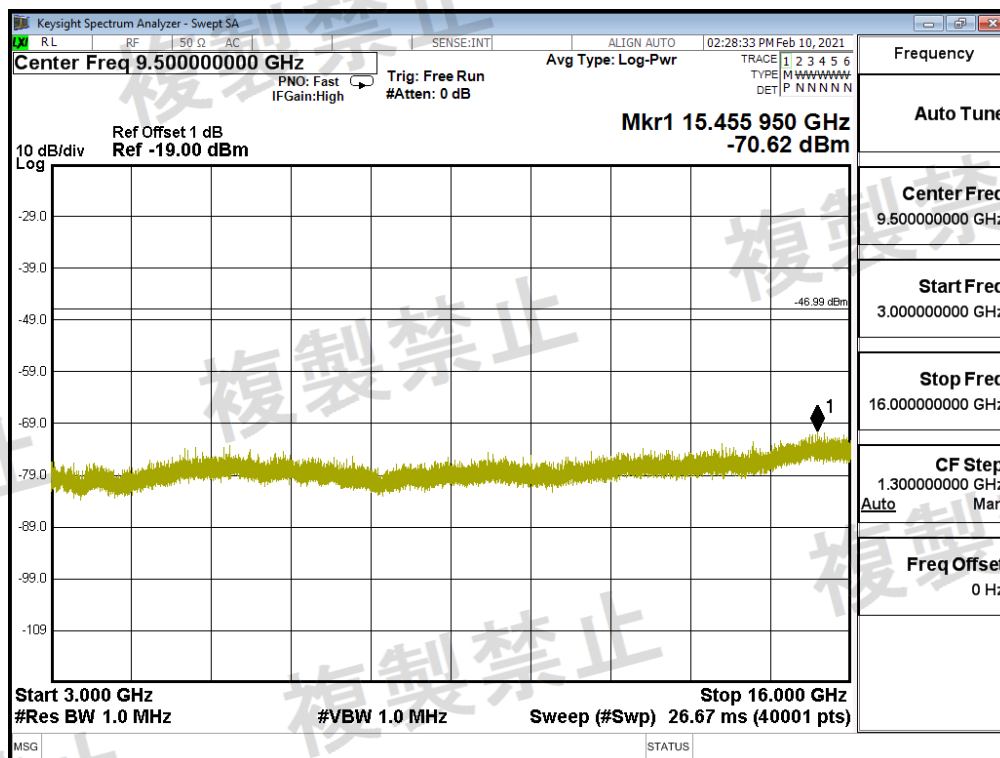
30 – 1000MHz



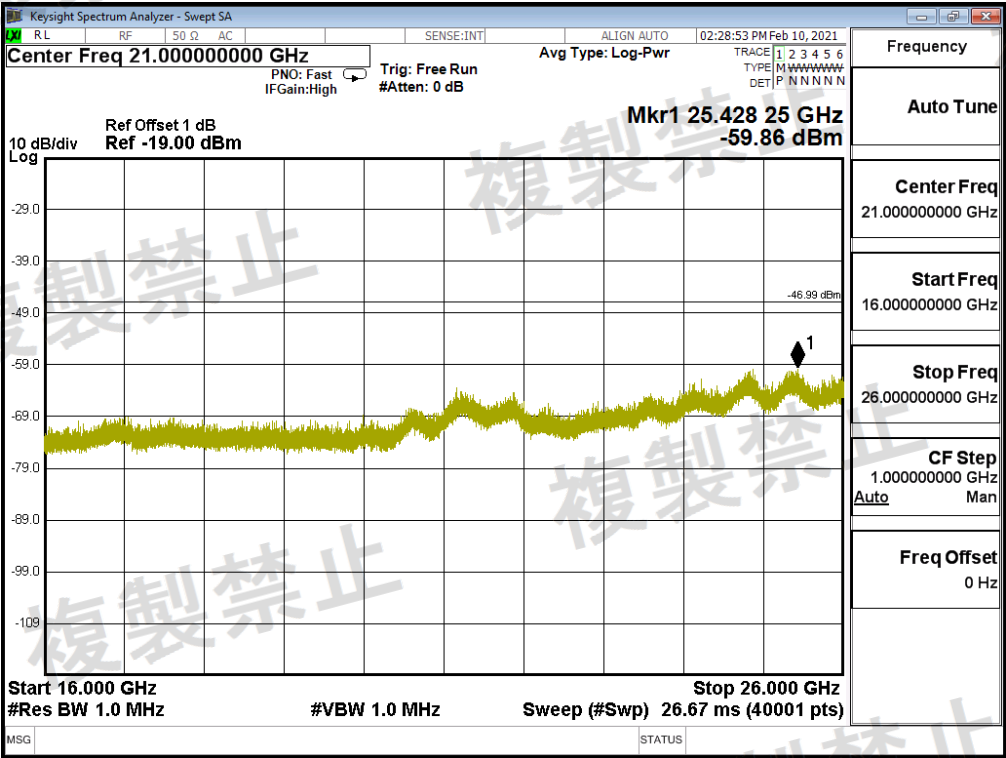
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

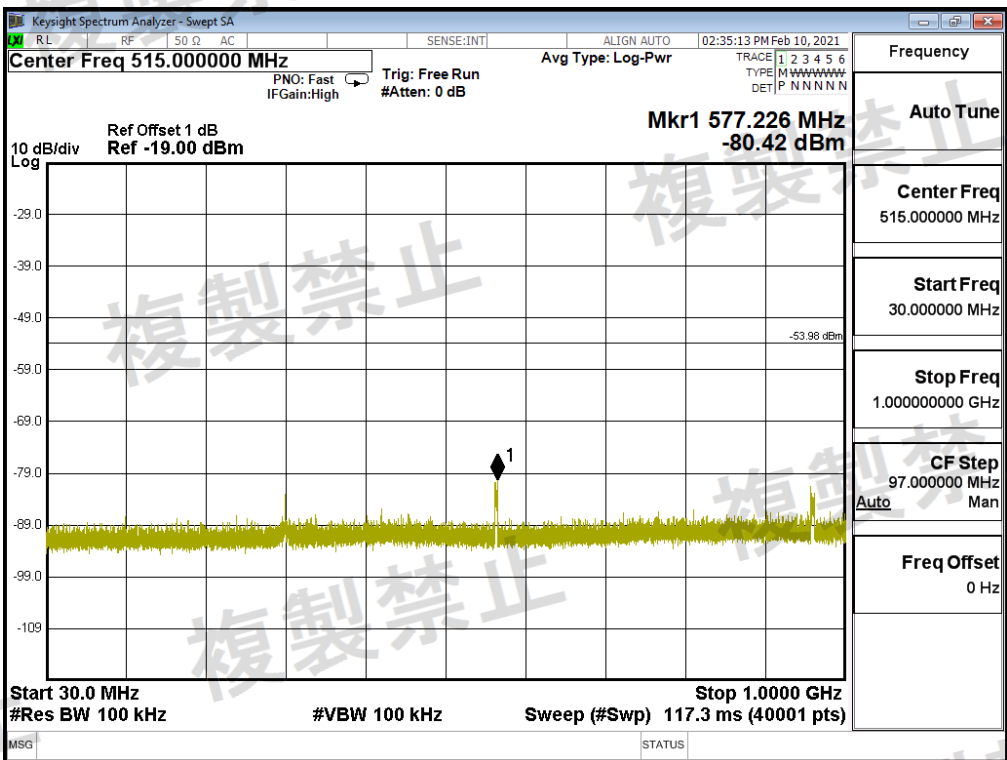


Test Result	PASS
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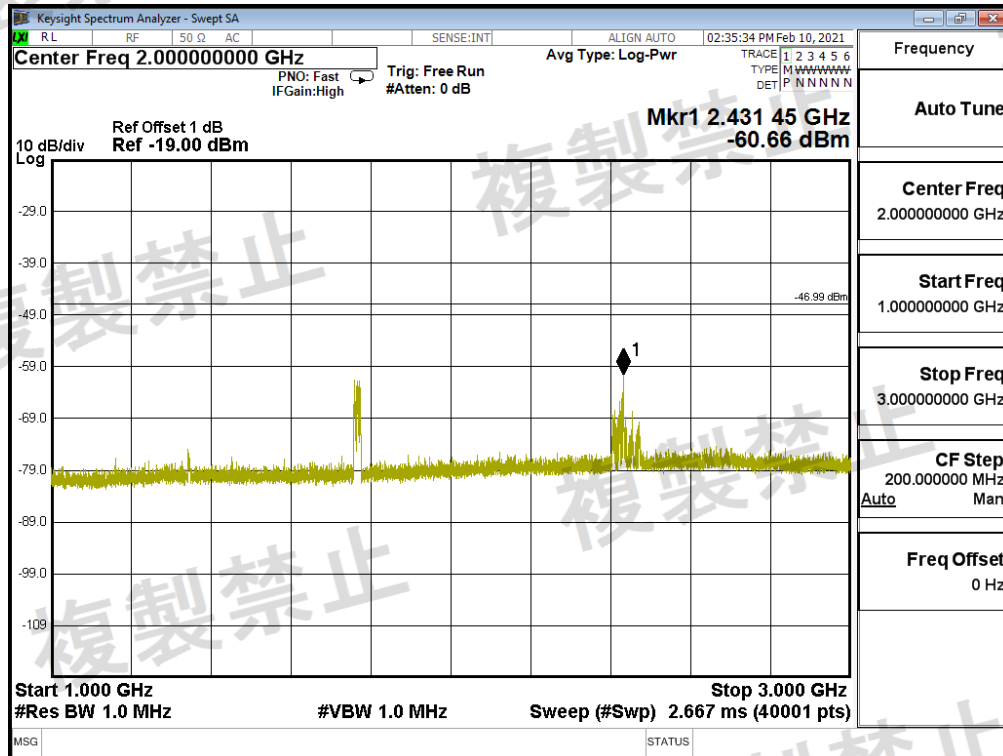
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11a) 5320MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-80.42	-54 (4nW)
		1000 - 3000	-60.66	-47 (20nW)
		3000 - 16000	-70.76	-47 (20nW)
		16000 - 26000	-59.32	-47 (20nW)

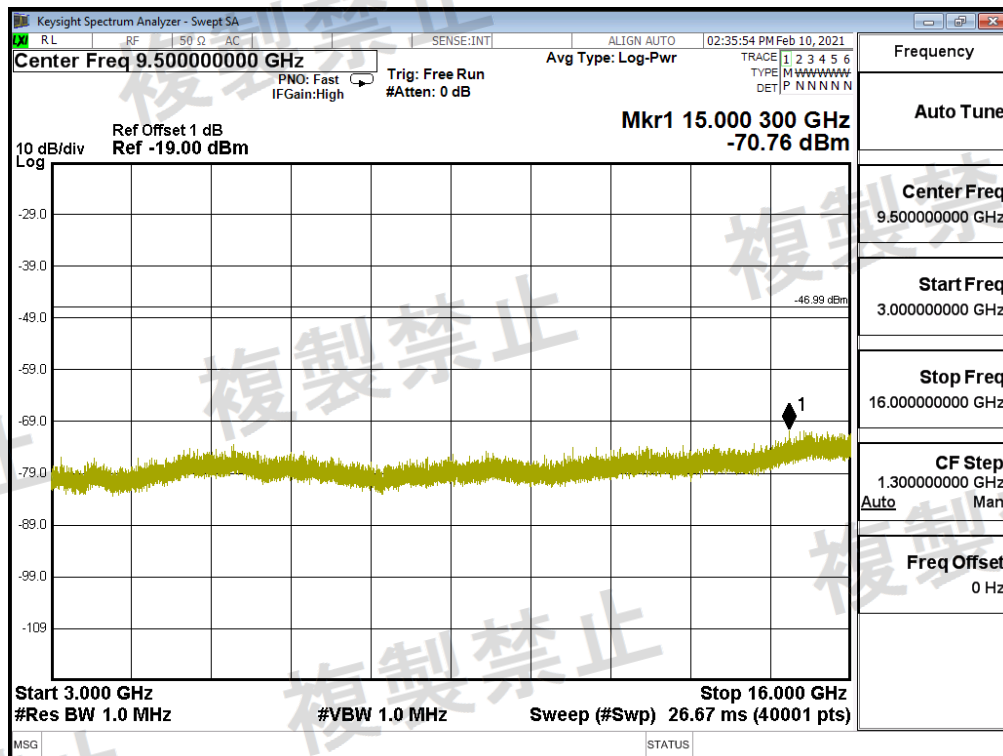
30 - 1000MHz



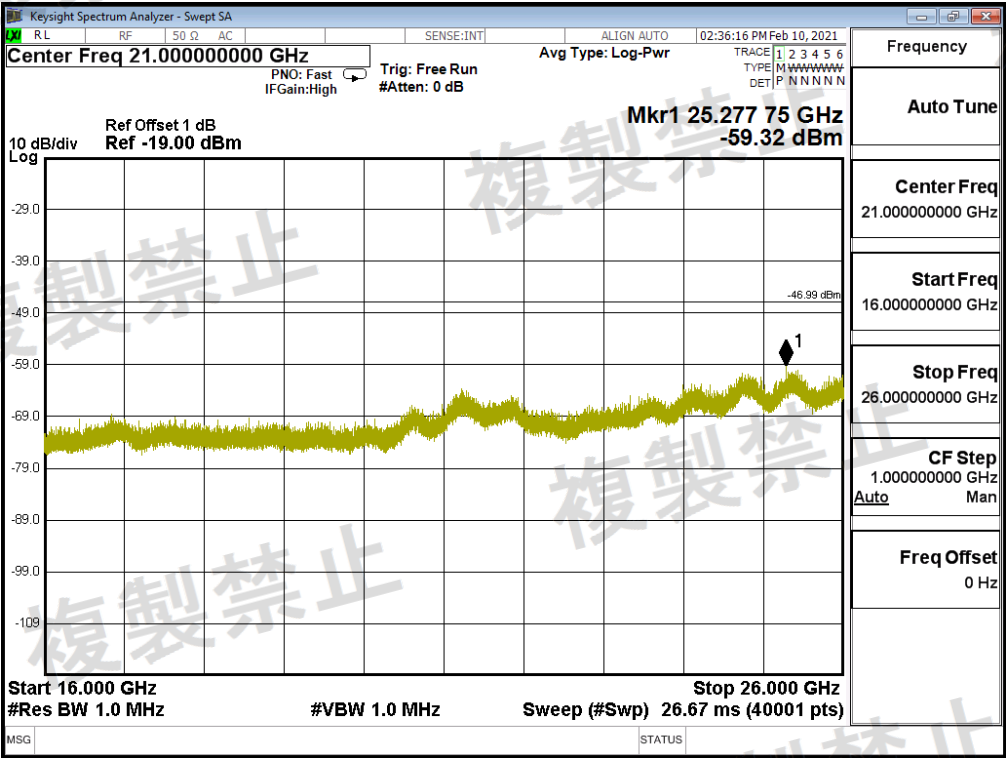
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

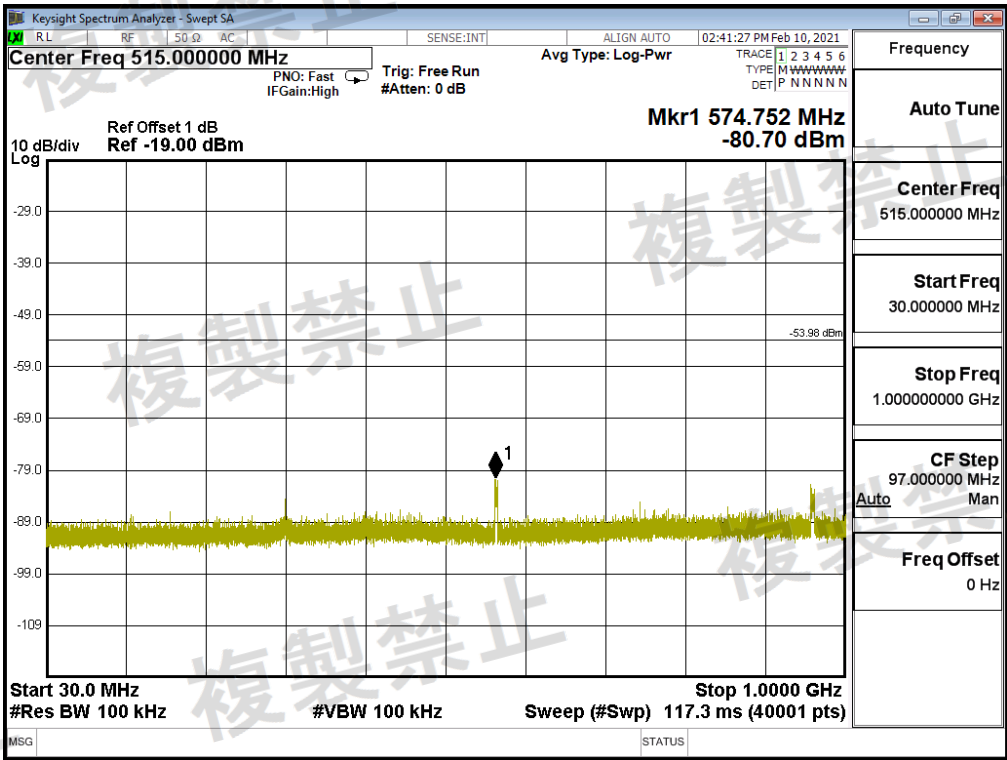


Test Result	PASS
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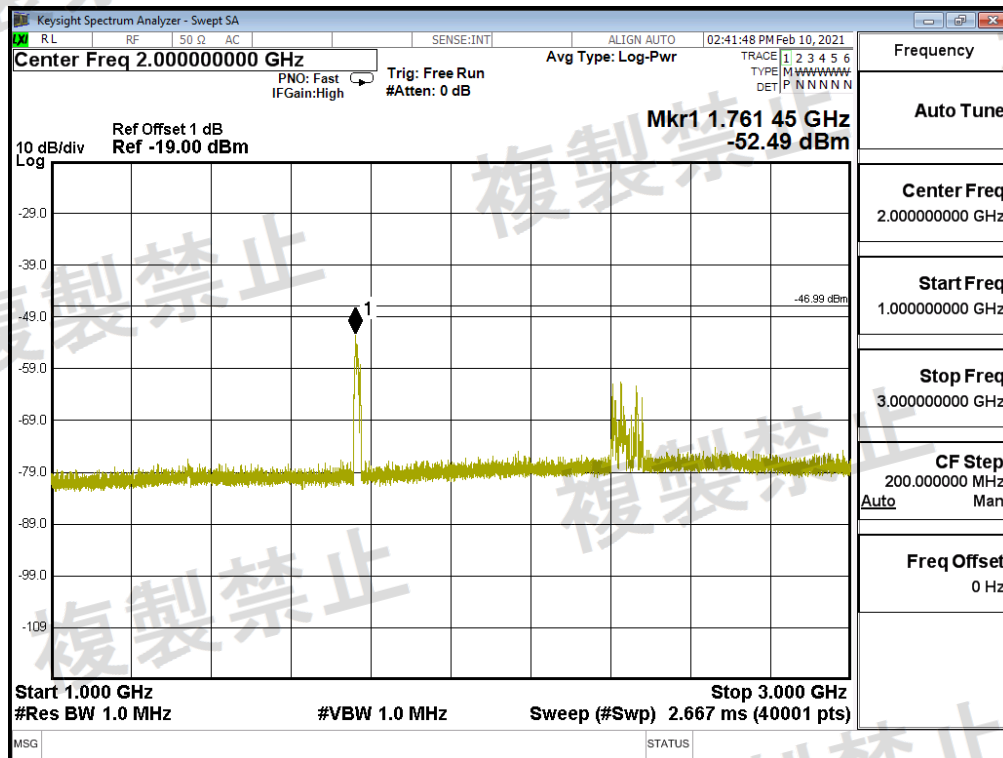
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11a) 5500MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

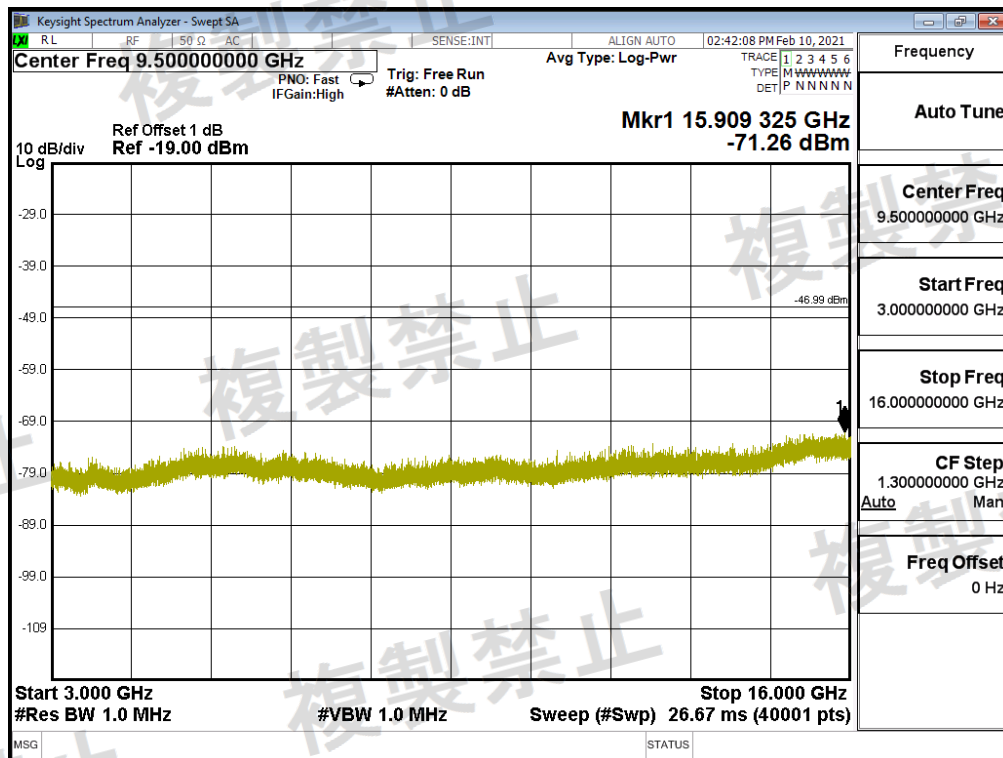
30 - 1000MHz



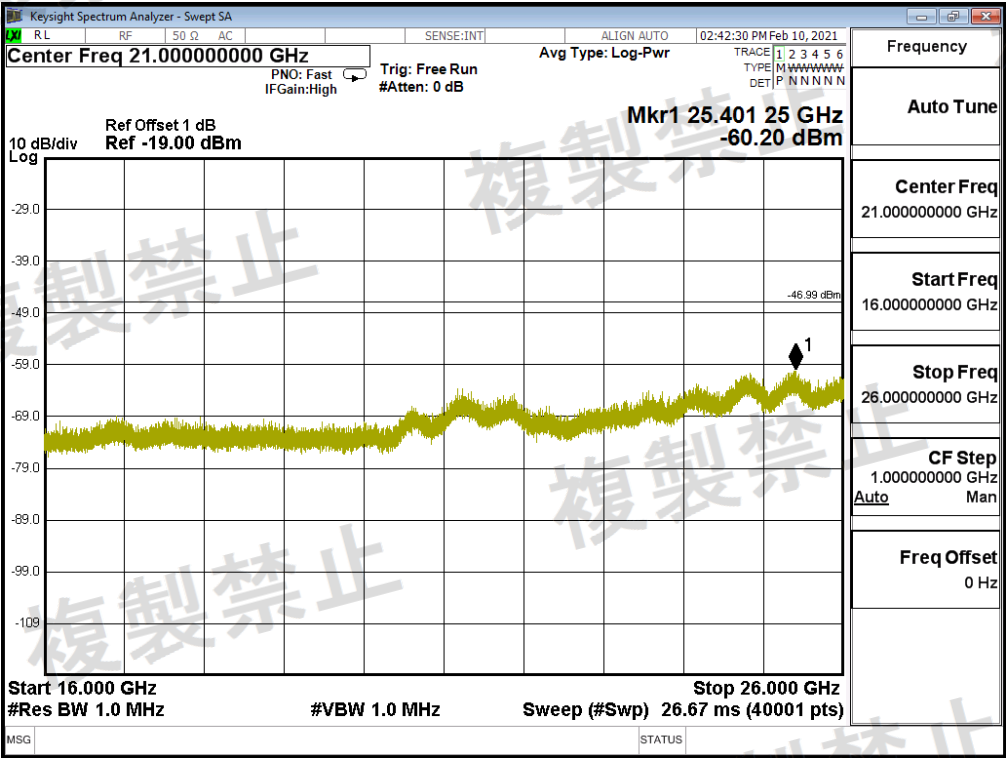
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

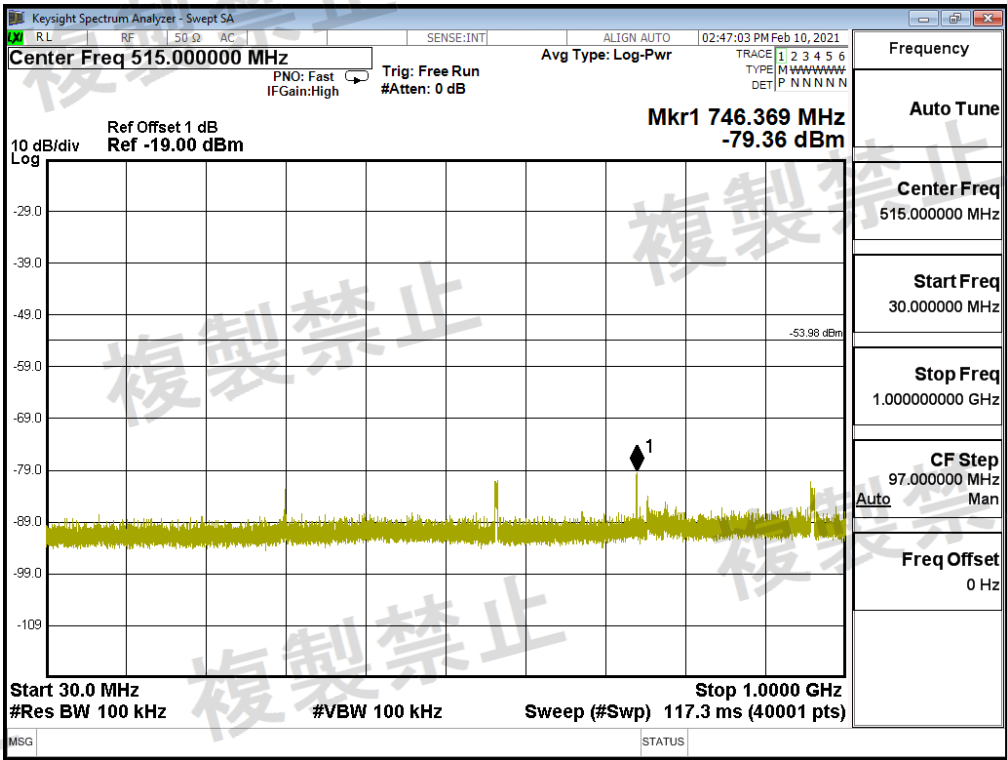


Test Result	PASS
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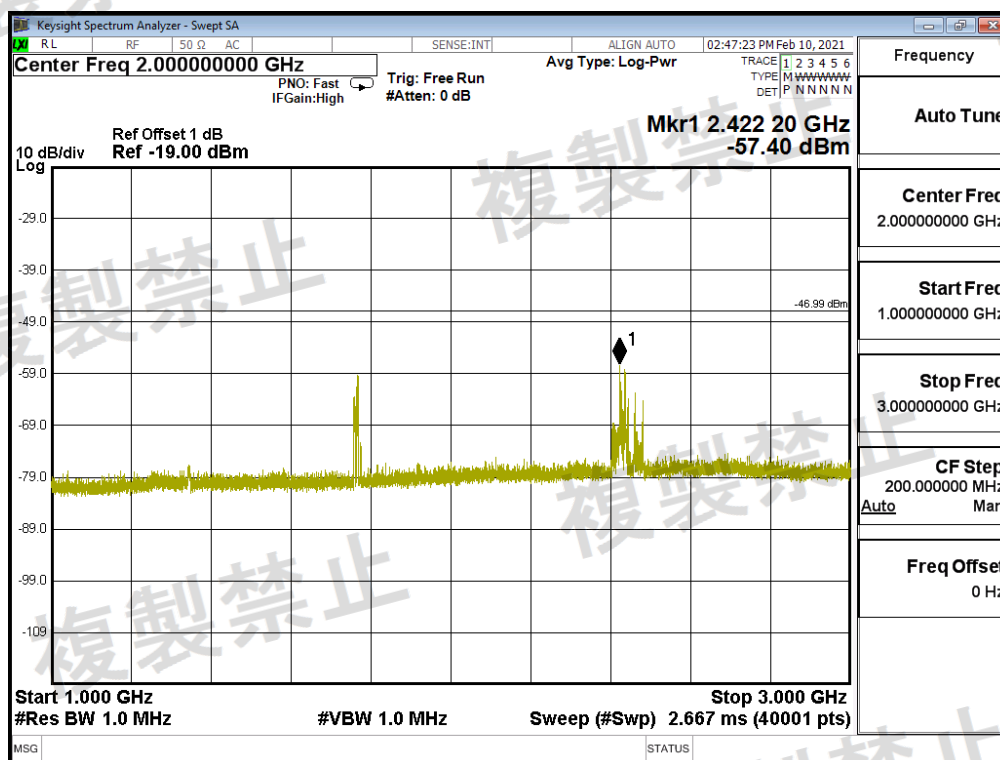
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11a) 5600MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

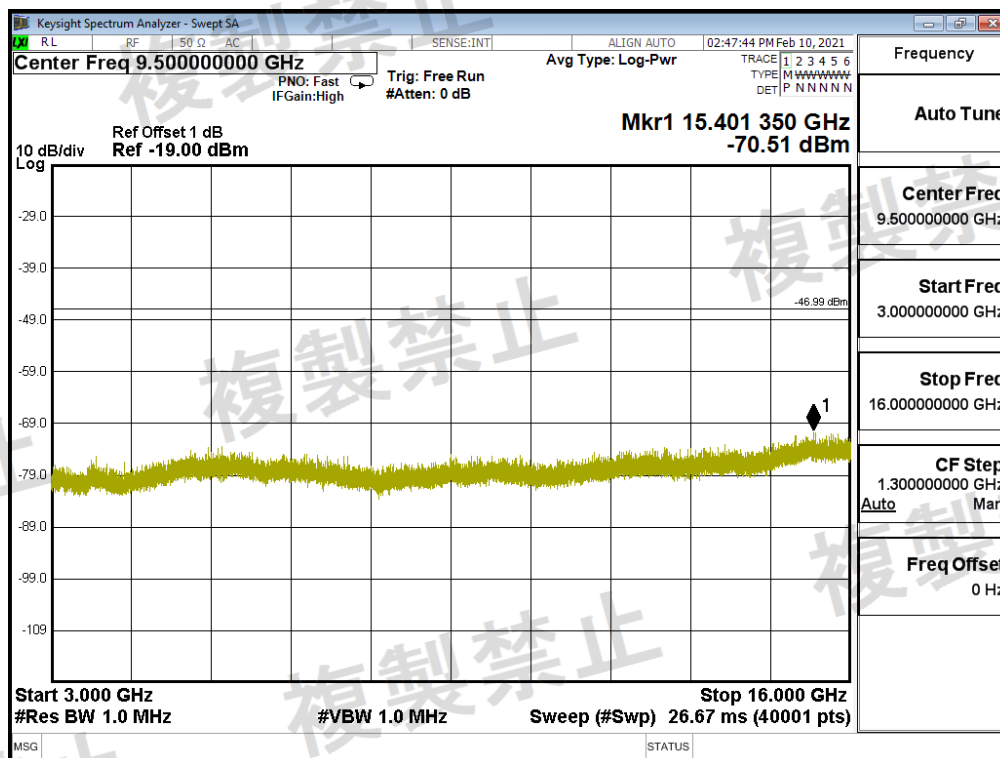
30 - 1000MHz



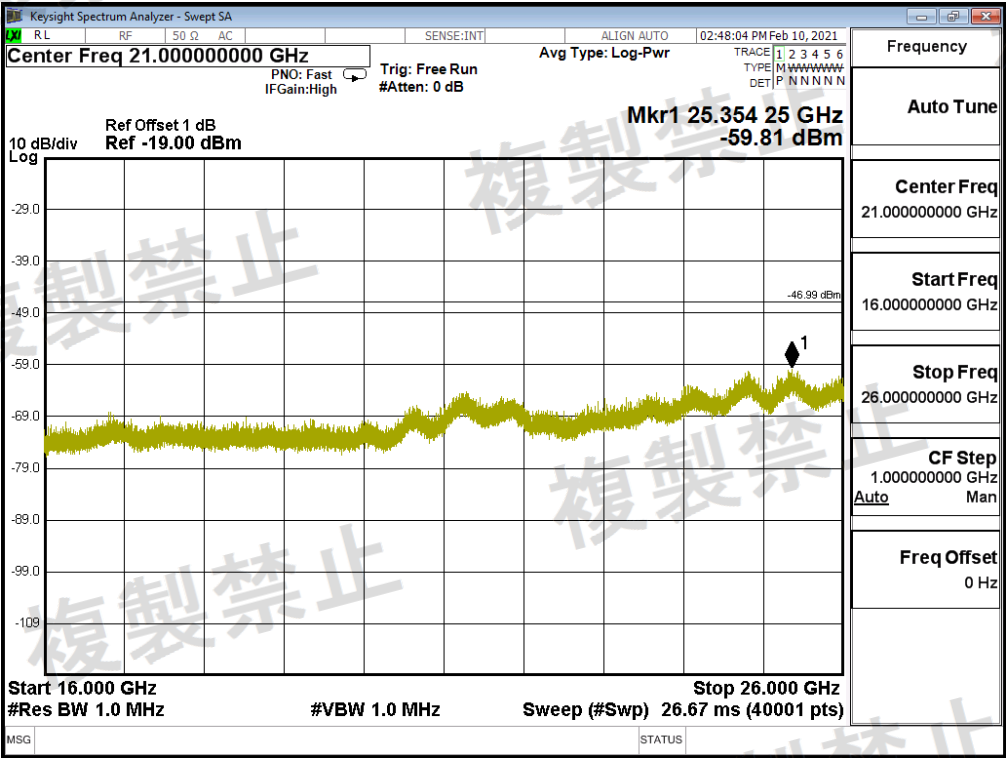
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz



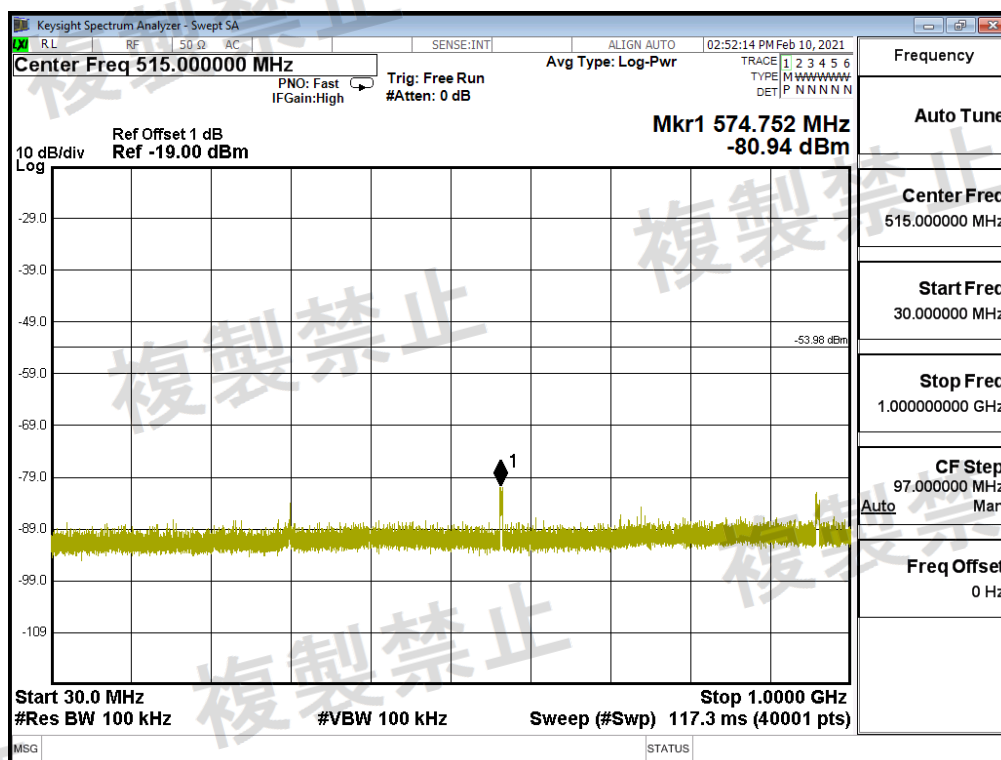
Test Result

PASS

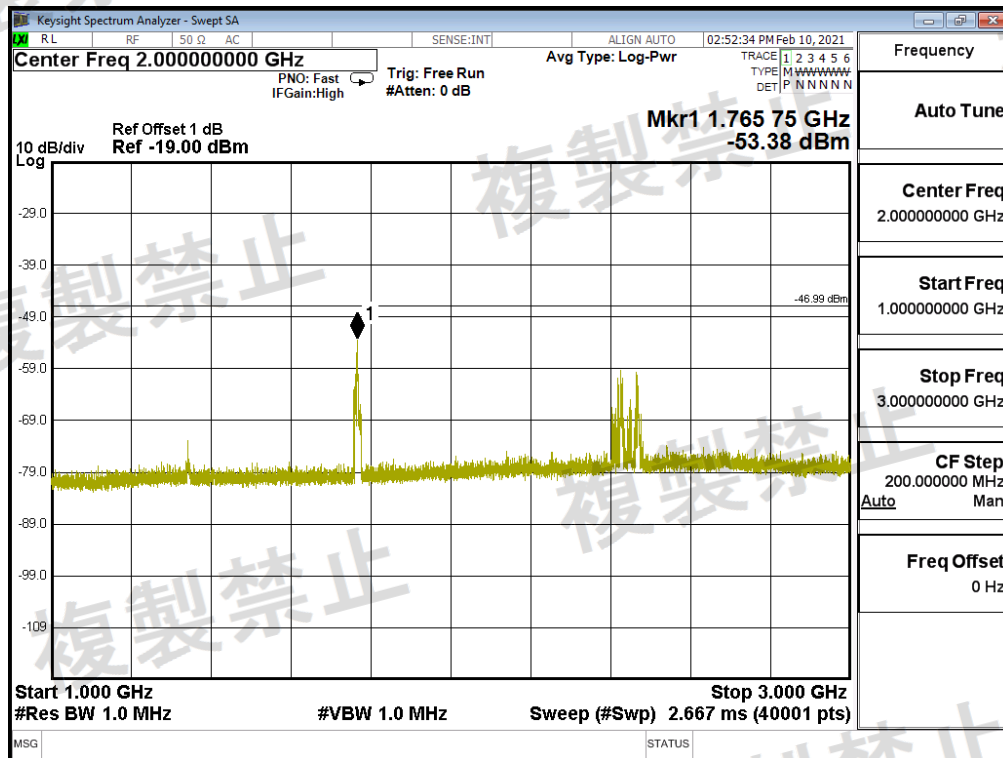
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11a) 5700MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

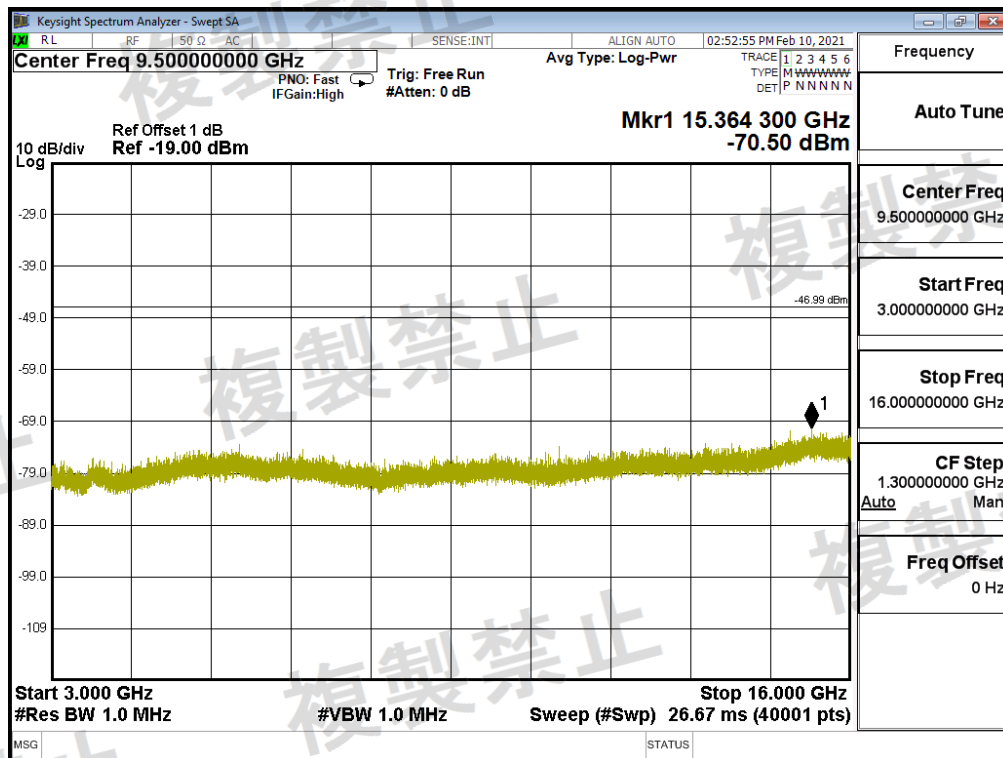
30 - 1000MHz



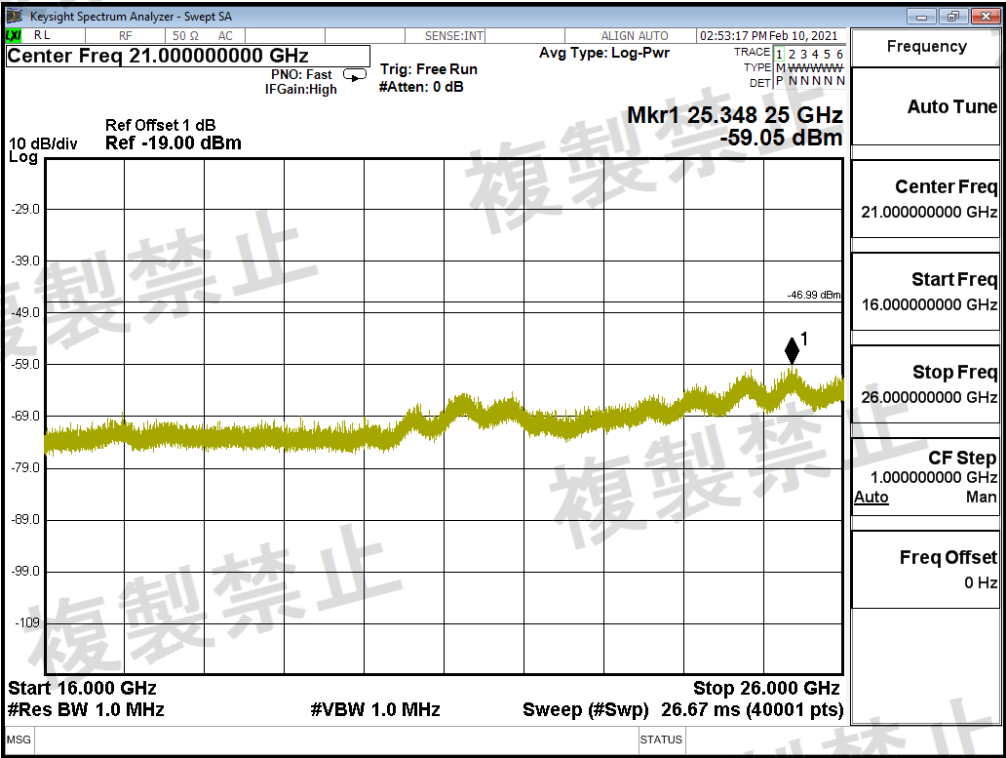
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

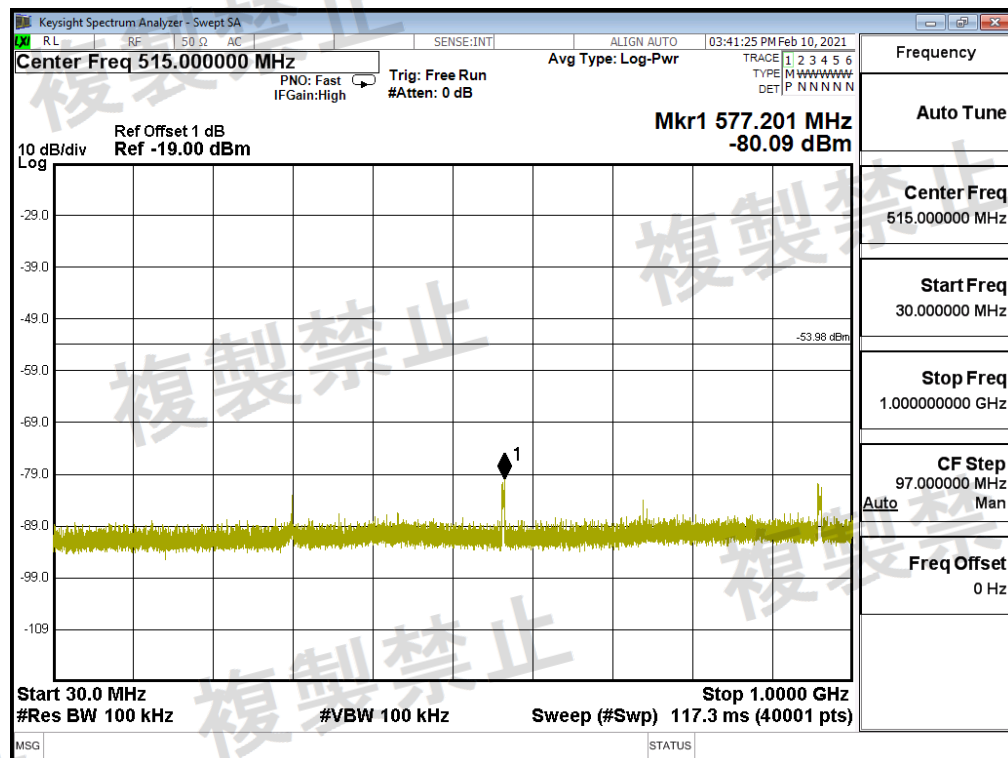


Test Result	PASS
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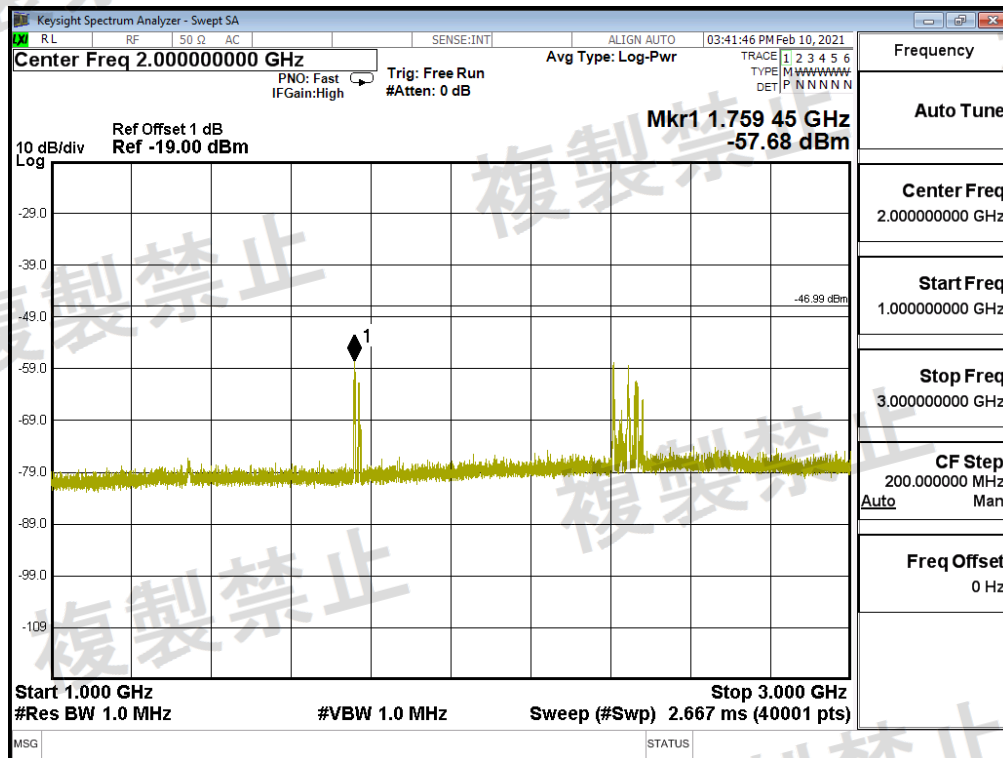
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-20BW) 5180MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-80.09	-54 (4nW)
		1000 - 3000	-57.68	-47 (20nW)
		3000 - 16000	-70.22	-47 (20nW)
		16000 - 26000	-59.26	-47 (20nW)

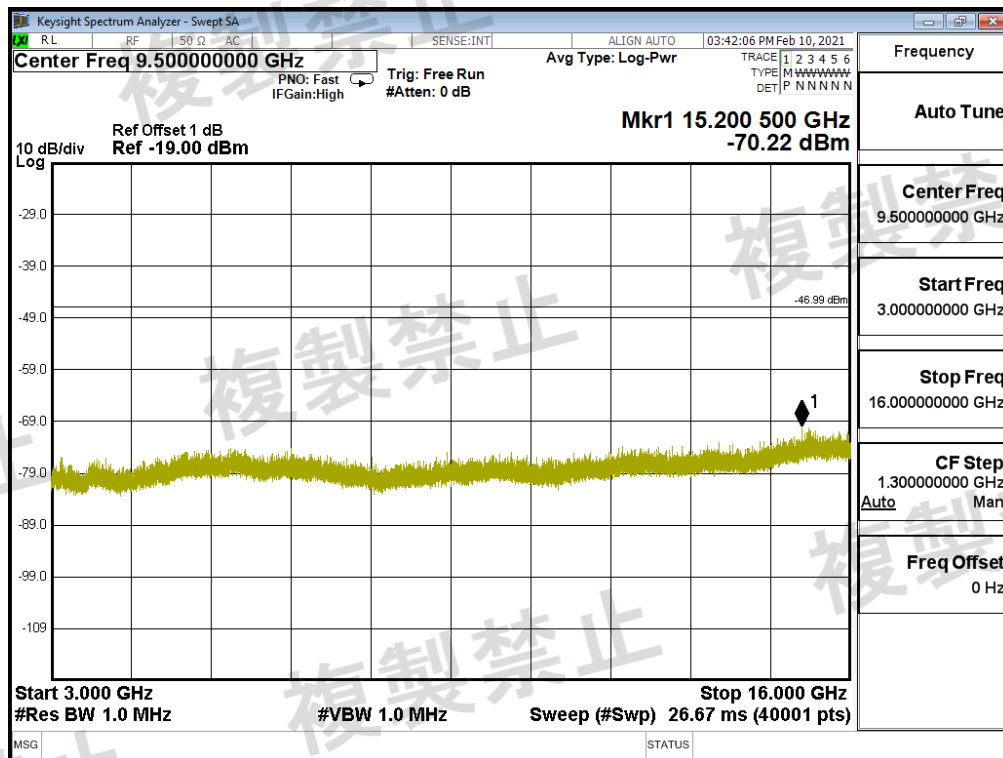
30 - 1000MHz



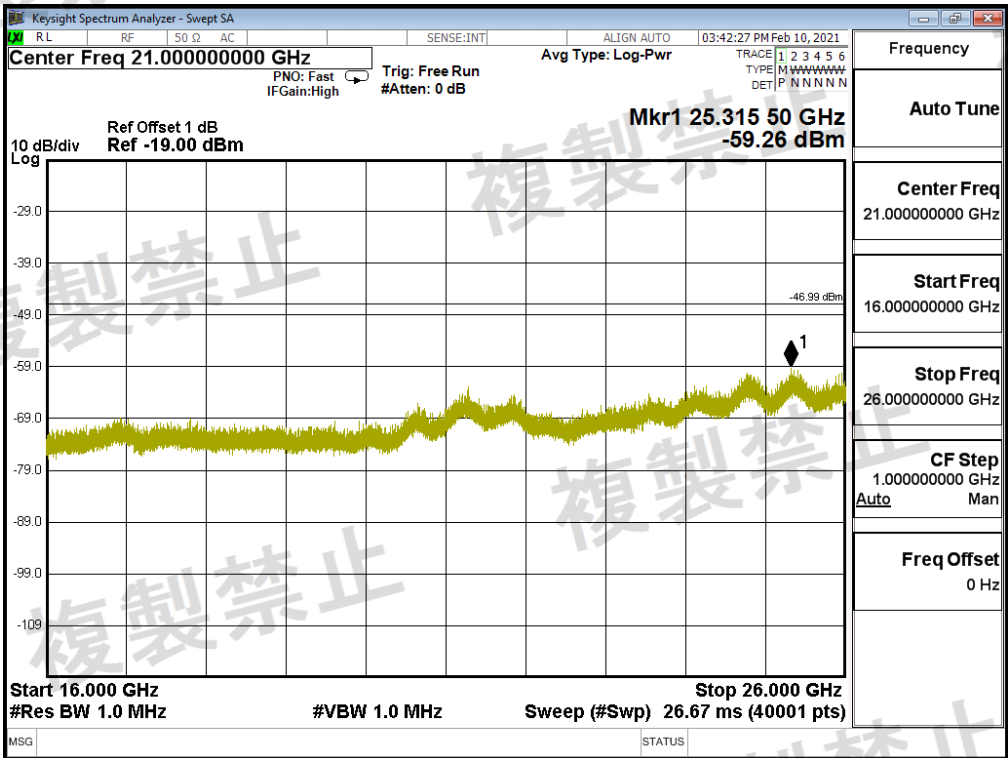
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz



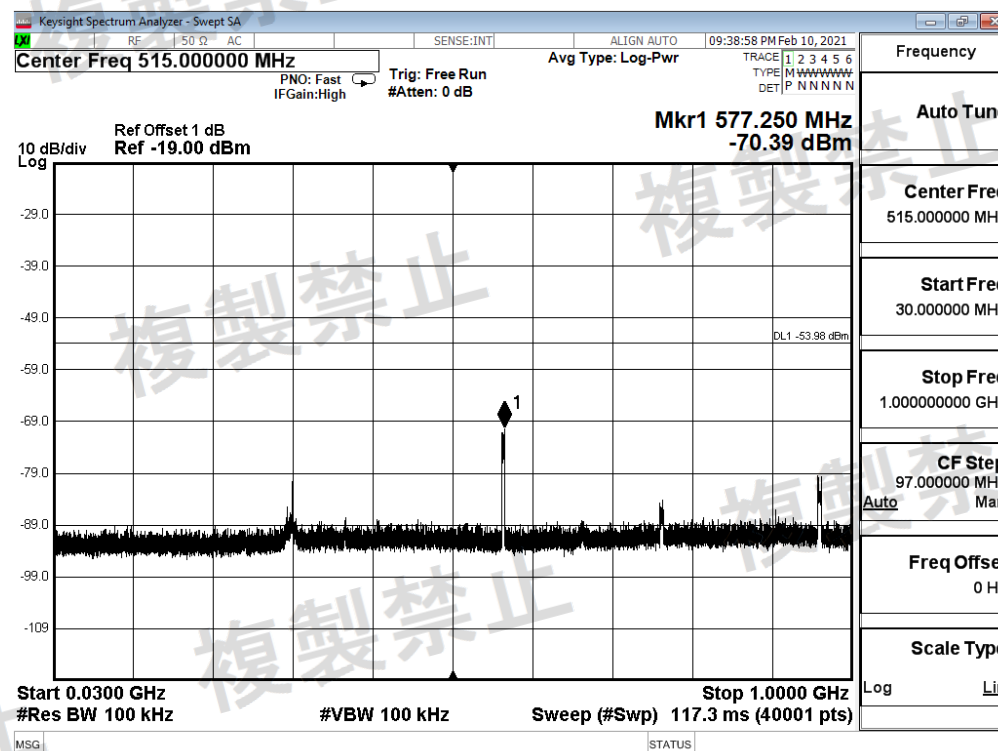
Test Result

PASS

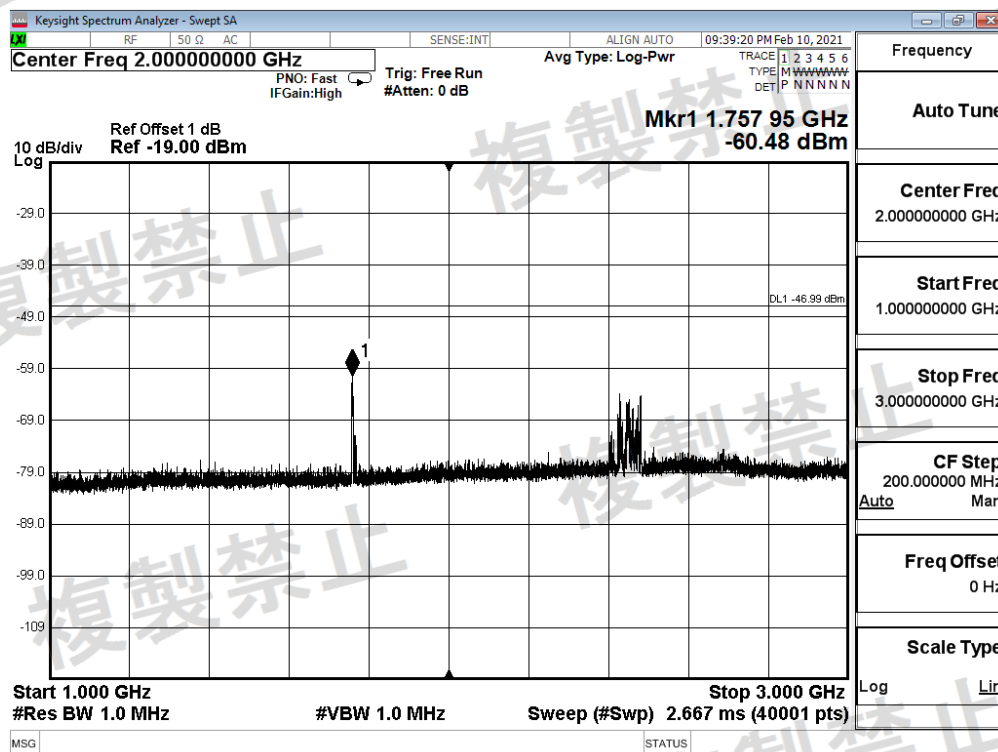
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-20BW) 5180MHz_Chain B (Dipole) (Panel)

Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.39	-54 (4nW)
		1000 – 3000	-60.48	-47 (20nW)
		3000 – 16000	-70.79	-47 (20nW)
		16000 – 26000	-61.01	-47 (20nW)

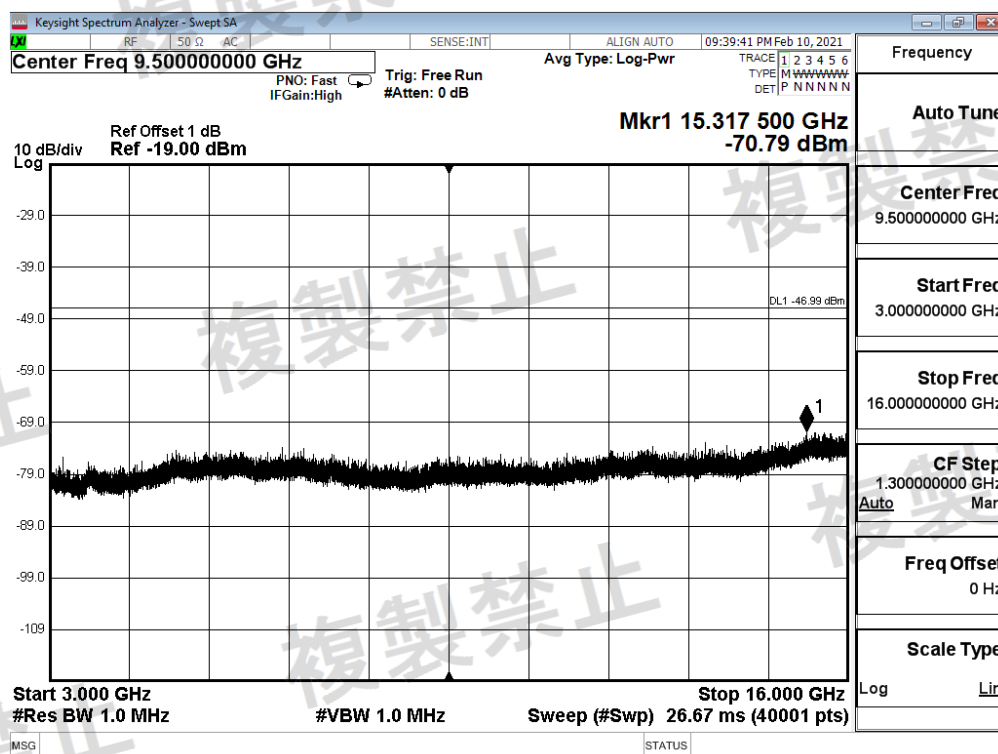
30 - 1000MHz



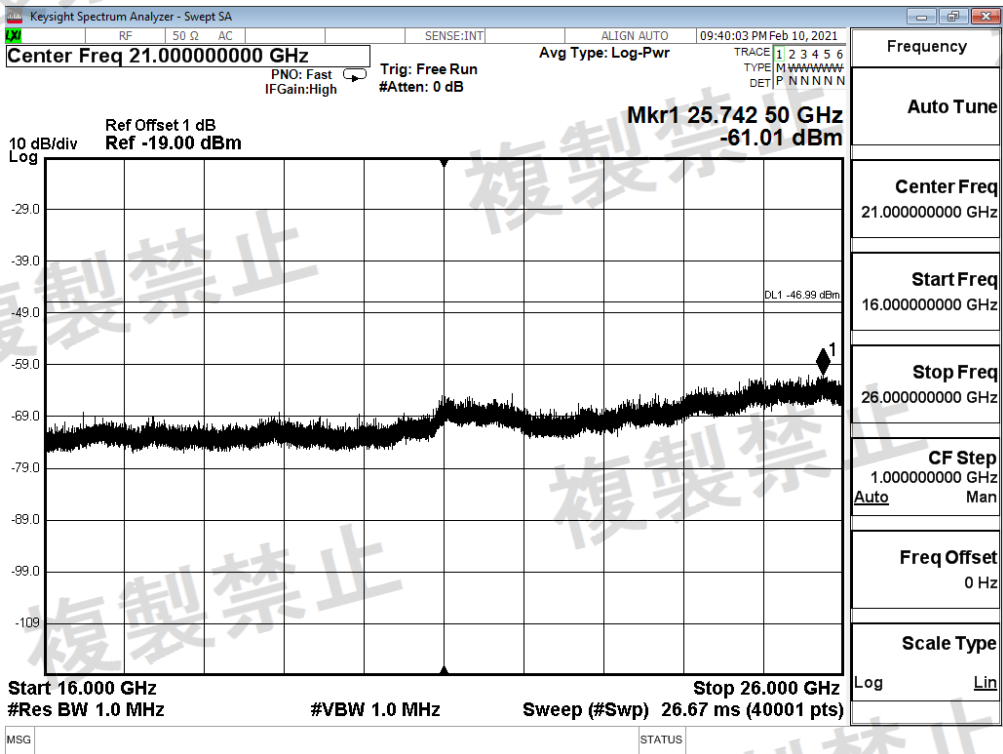
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz



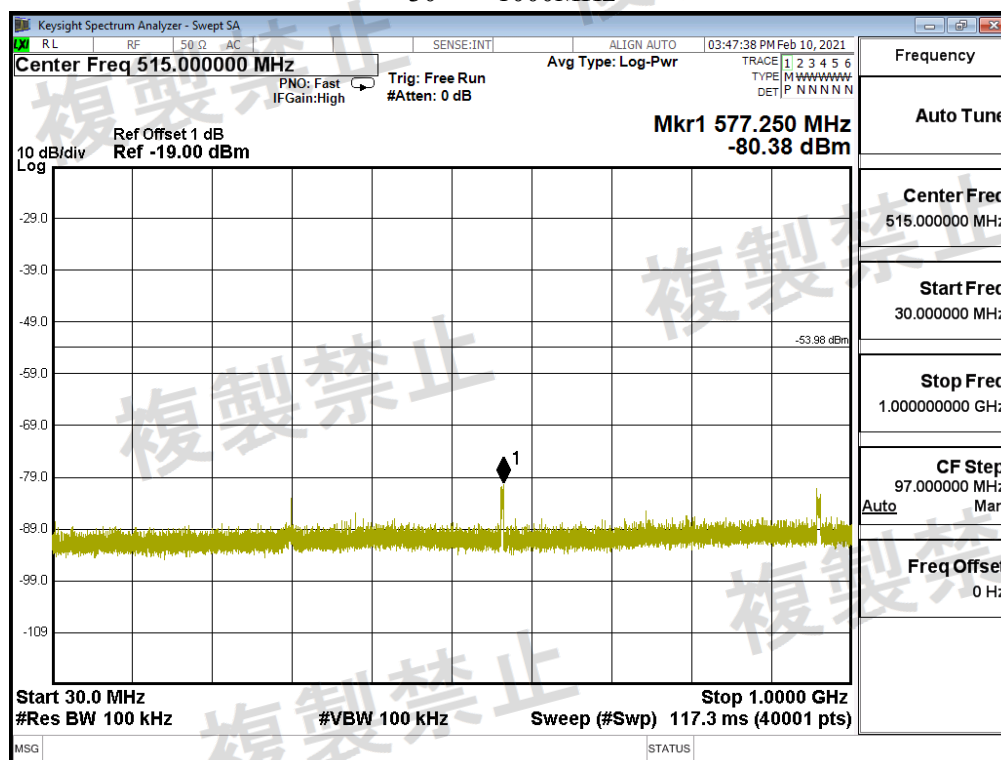
Test Result

PASS

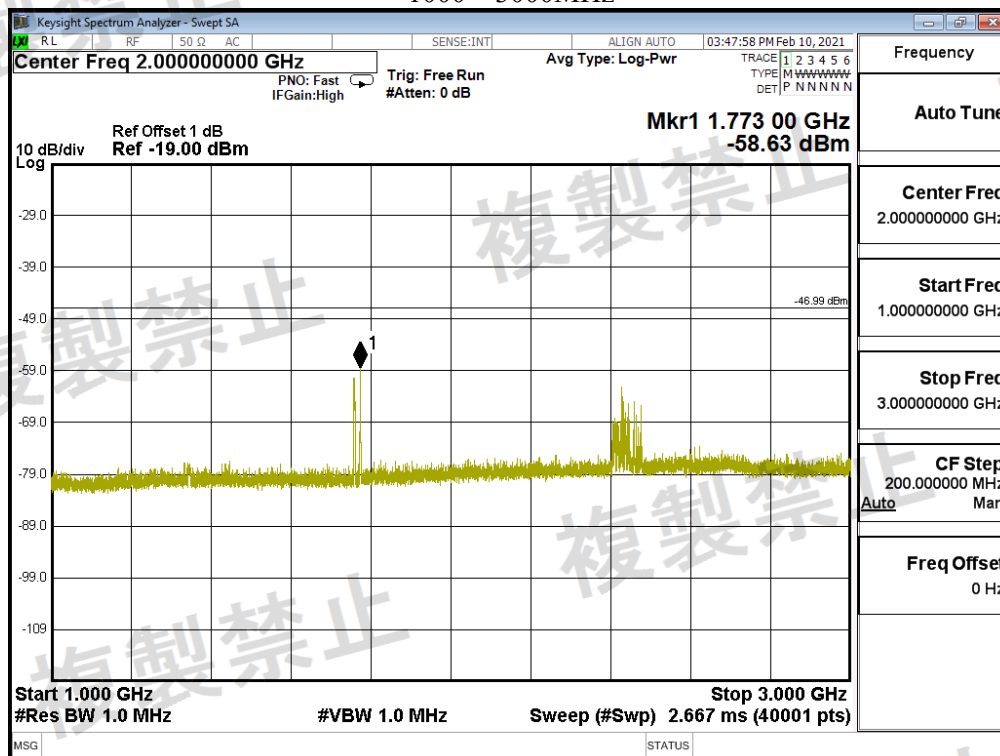
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-20BW) 5240MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 – 1000	-54 (4nW)
		1000 – 3000	-47 (20nW)
		3000 – 16000	-47 (20nW)
		16000 – 26000	-47 (20nW)

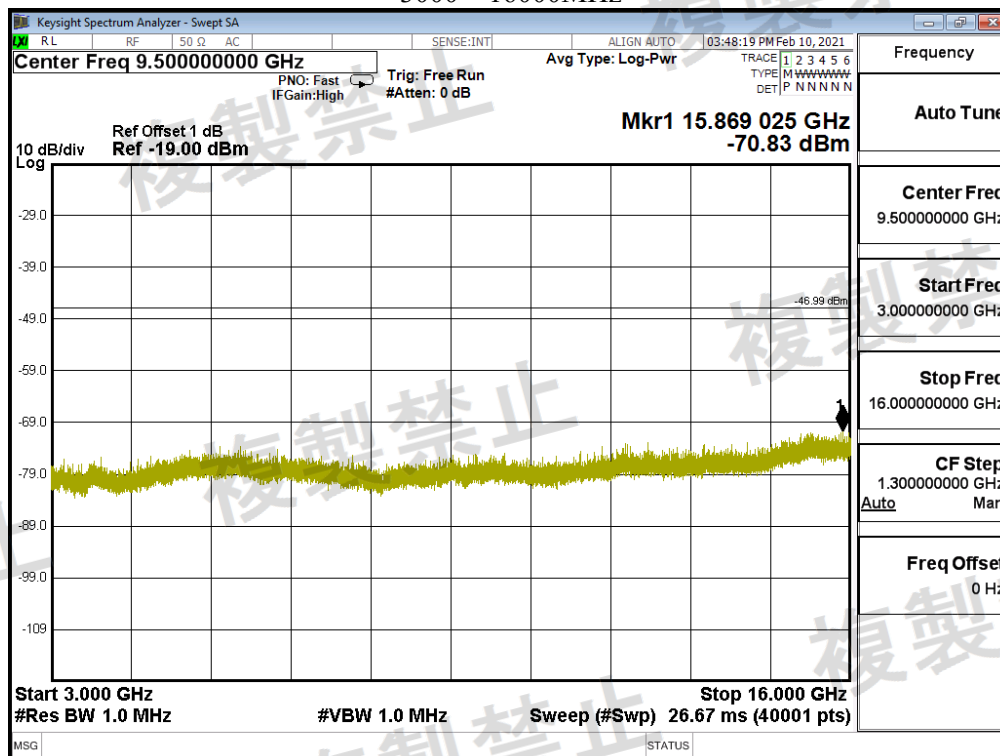
30 – 1000MHz



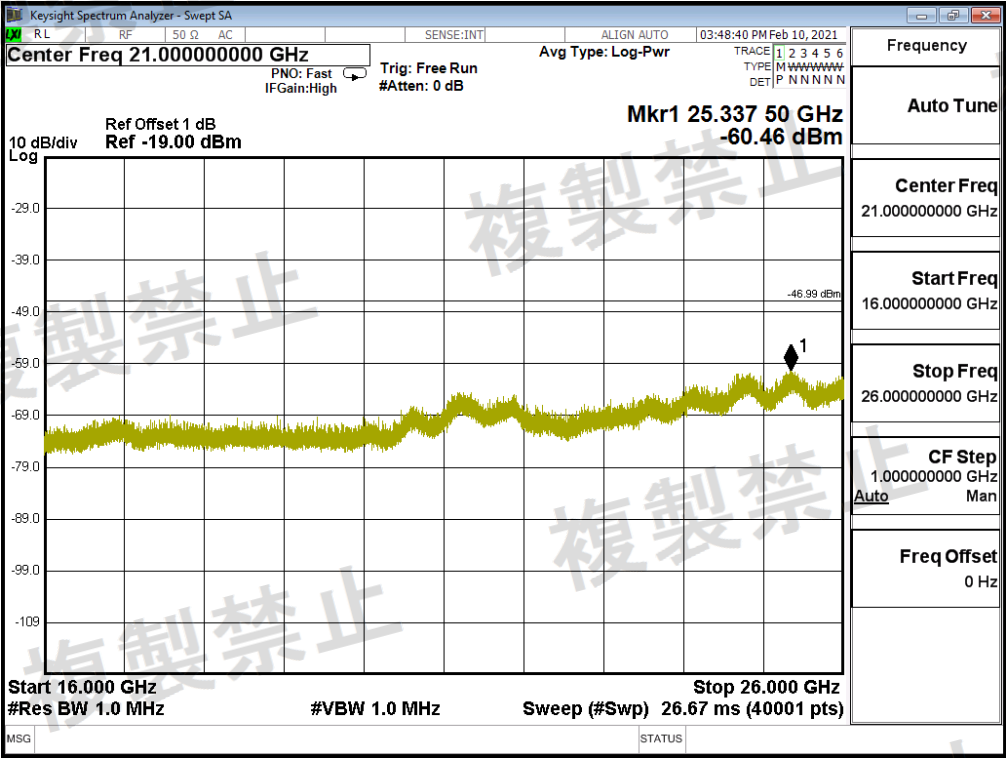
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

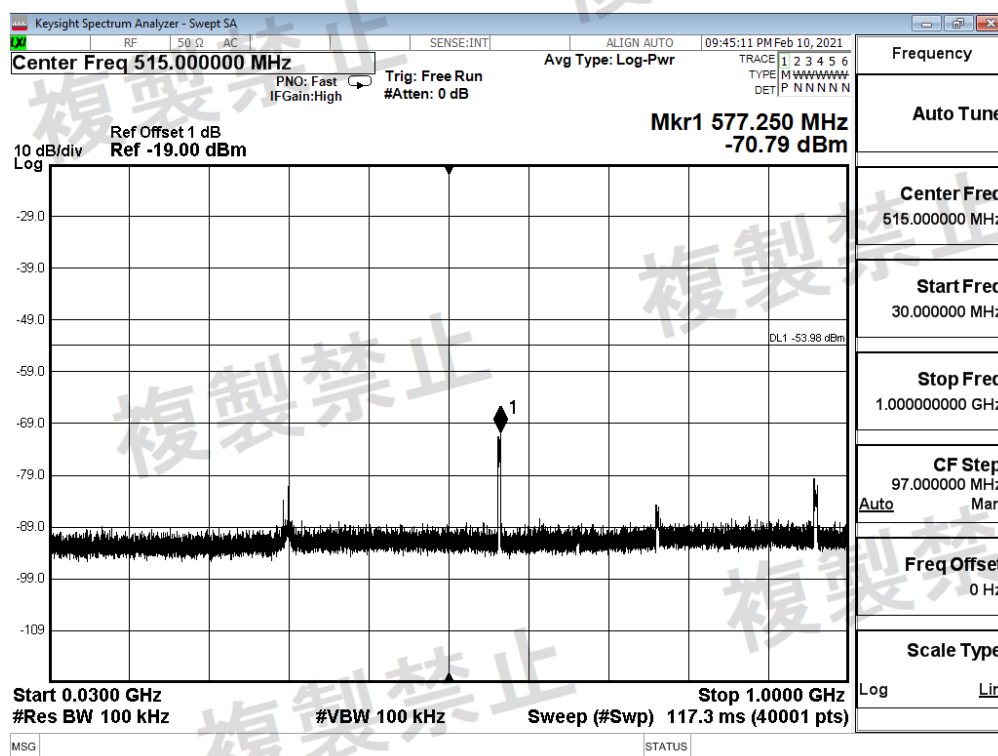


Test Result	PASS
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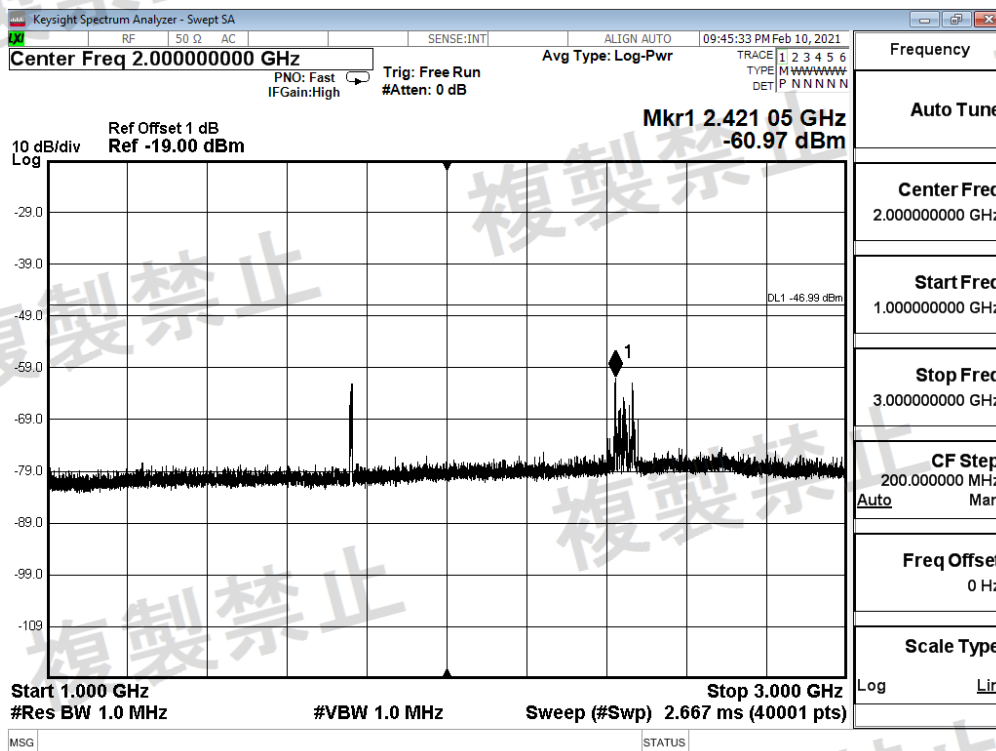
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-20BW) 5240MHz_Chain B (Dipole) (Panel)

Chain B			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 – 1000	-54 (4nW)
		1000 – 3000	-47 (20nW)
		3000 – 16000	-47 (20nW)
		16000 – 26000	-47 (20nW)

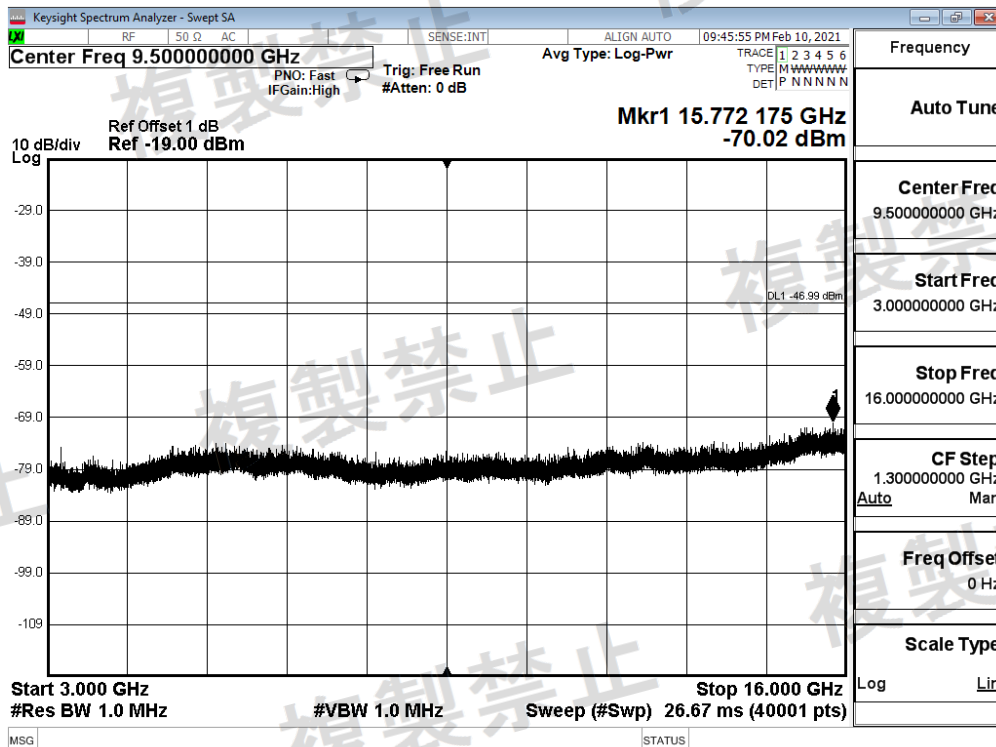
30 – 1000MHz



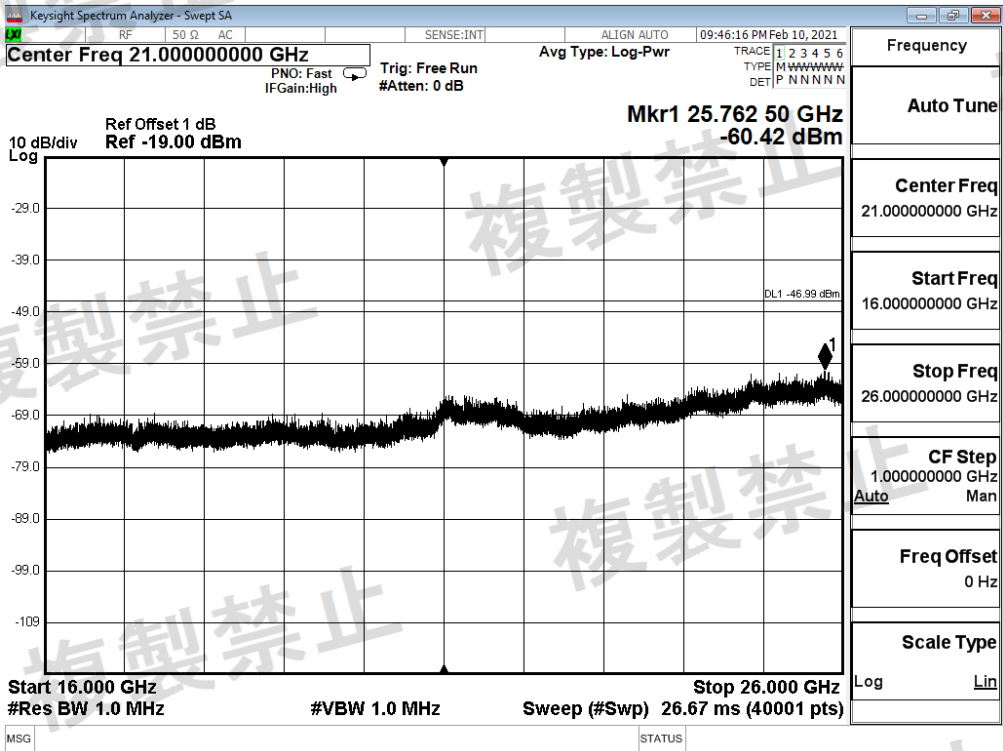
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

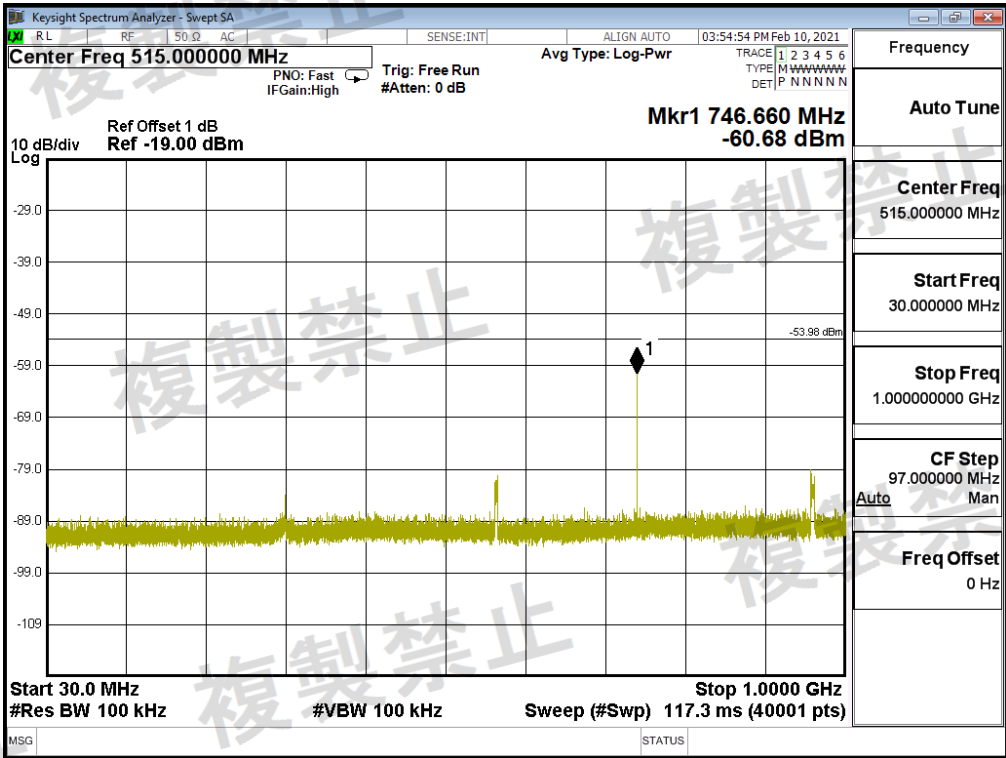


Test Result	PASS
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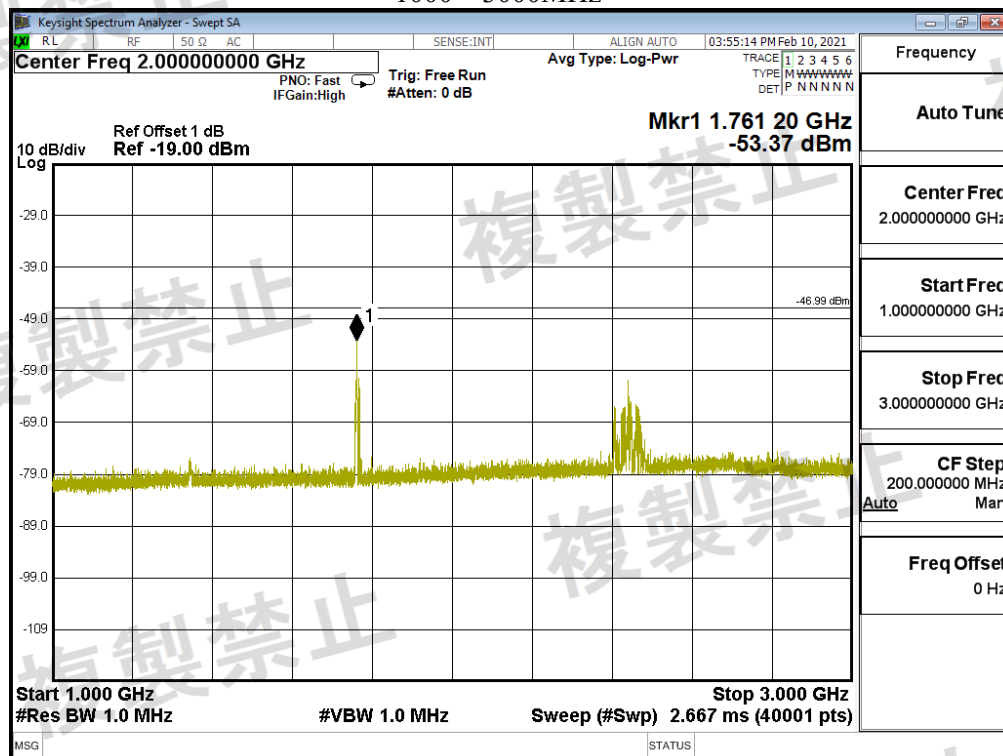
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-20BW) 5260MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-60.68	-54 (4nW)
		1000 - 3000	-53.37	-47 (20nW)
		3000 - 16000	-70.56	-47 (20nW)
		16000 - 26000	-58.94	-47 (20nW)

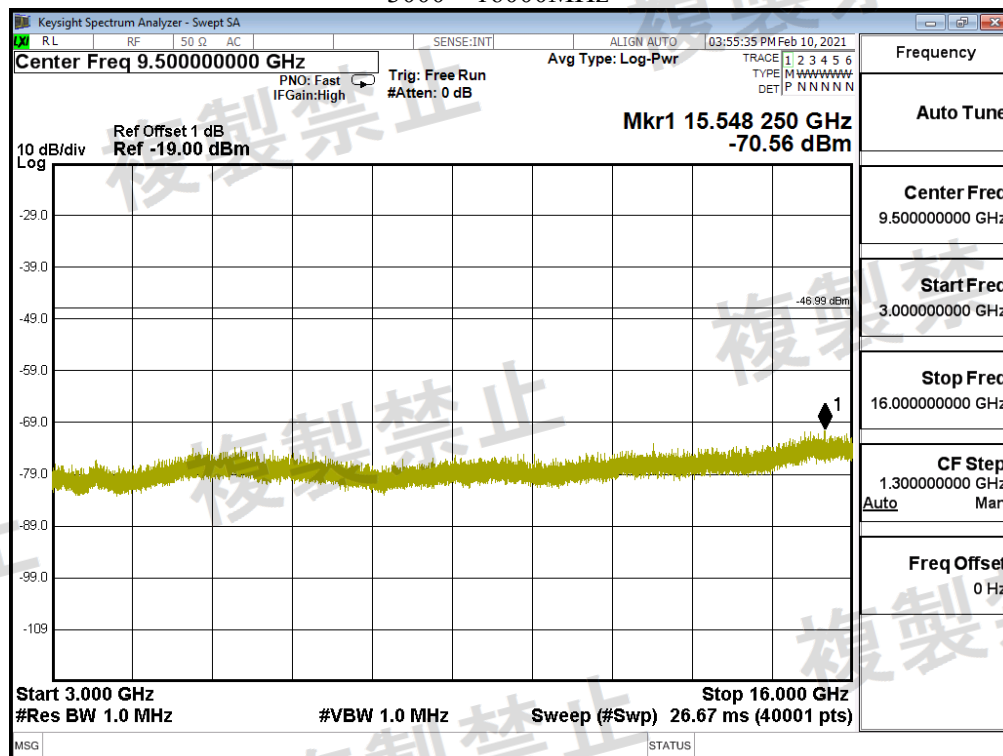
30 - 1000MHz



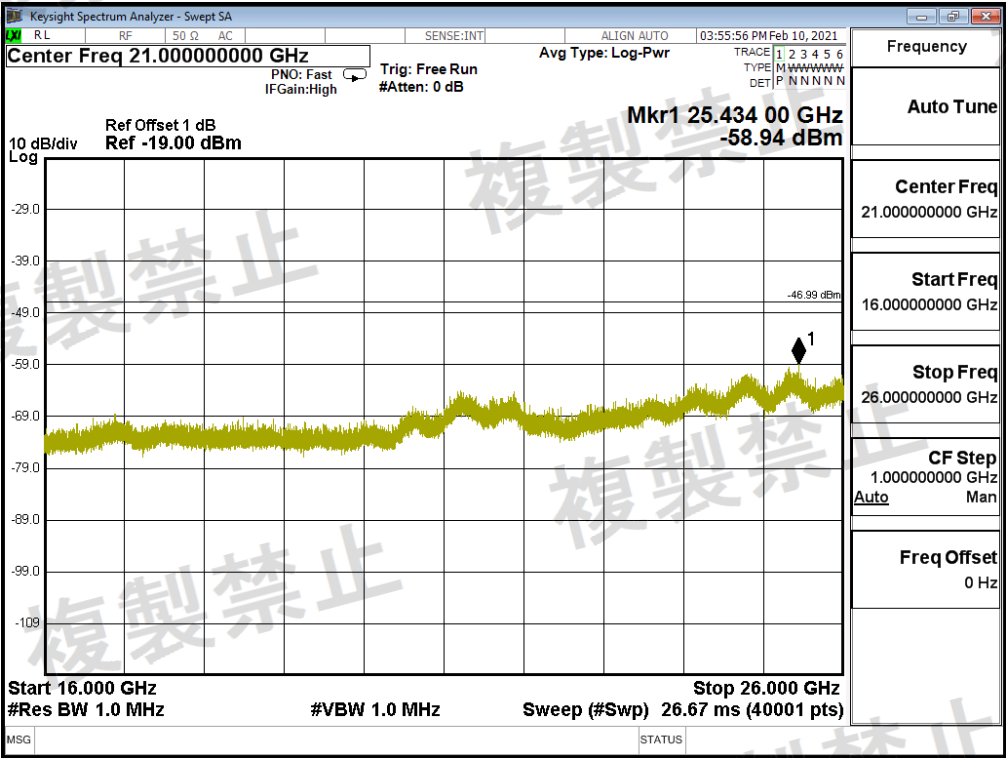
1000 – 3000MHz



3000 – 16000MHz



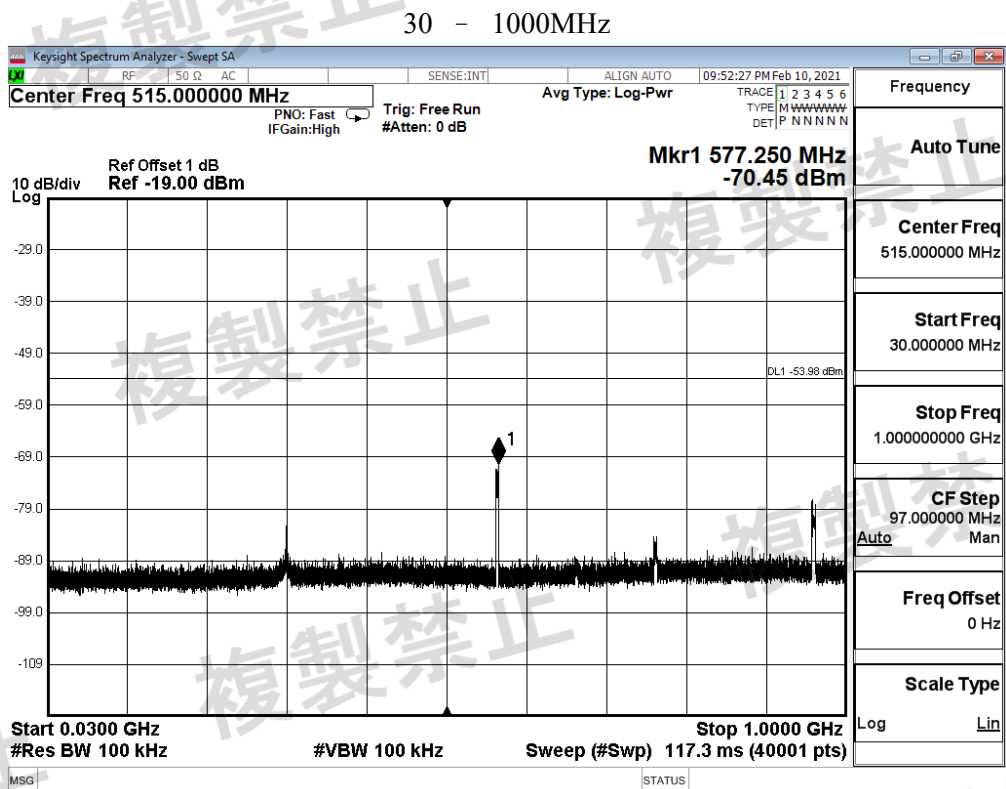
16000 – 26000MHz



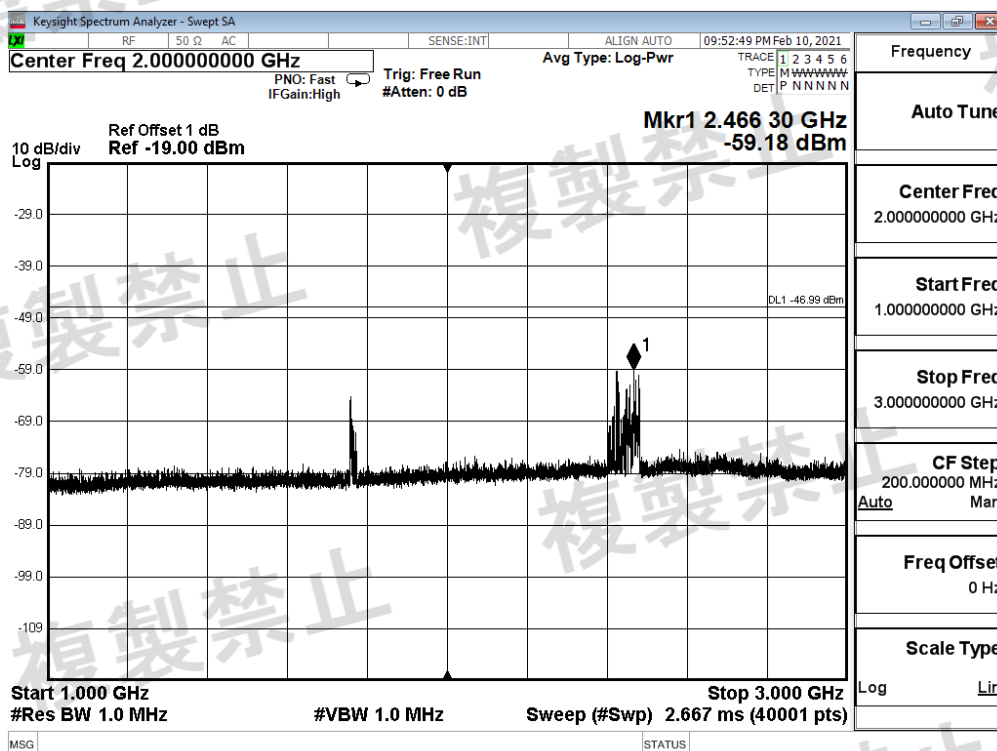
Test Result	PASS
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Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-20BW) 5260MHz_Chain B (Dipole) (Panel)

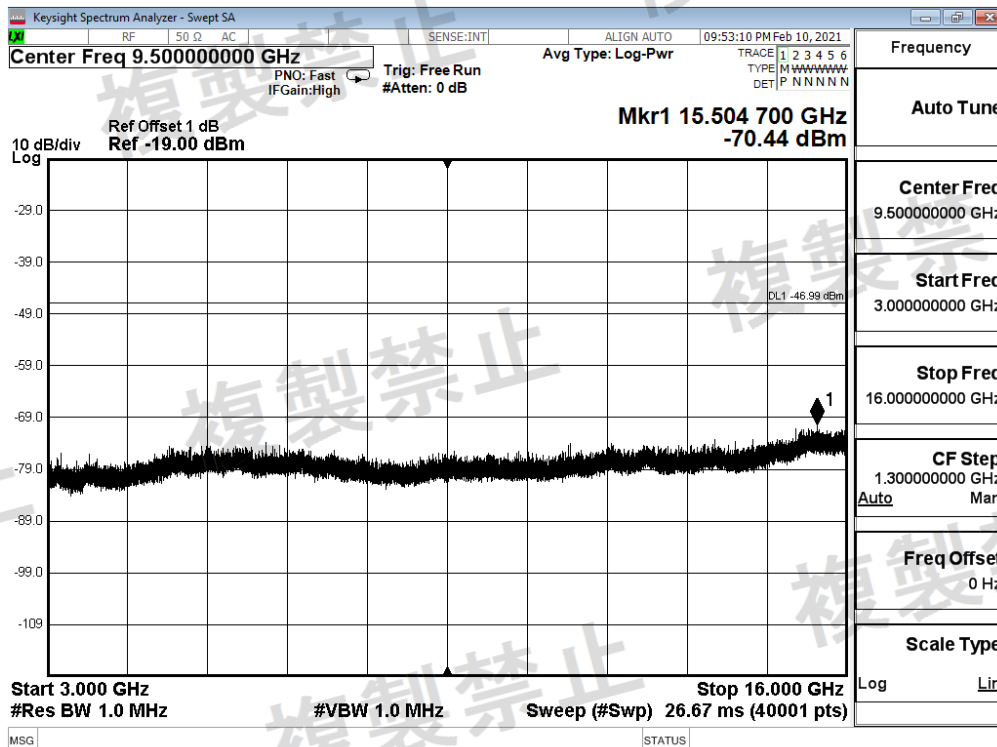
Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.45	-54 (4nW)
		1000 - 3000	-59.18	-47 (20nW)
		3000 - 16000	-70.44	-47 (20nW)
		16000 - 26000	-60.66	-47 (20nW)



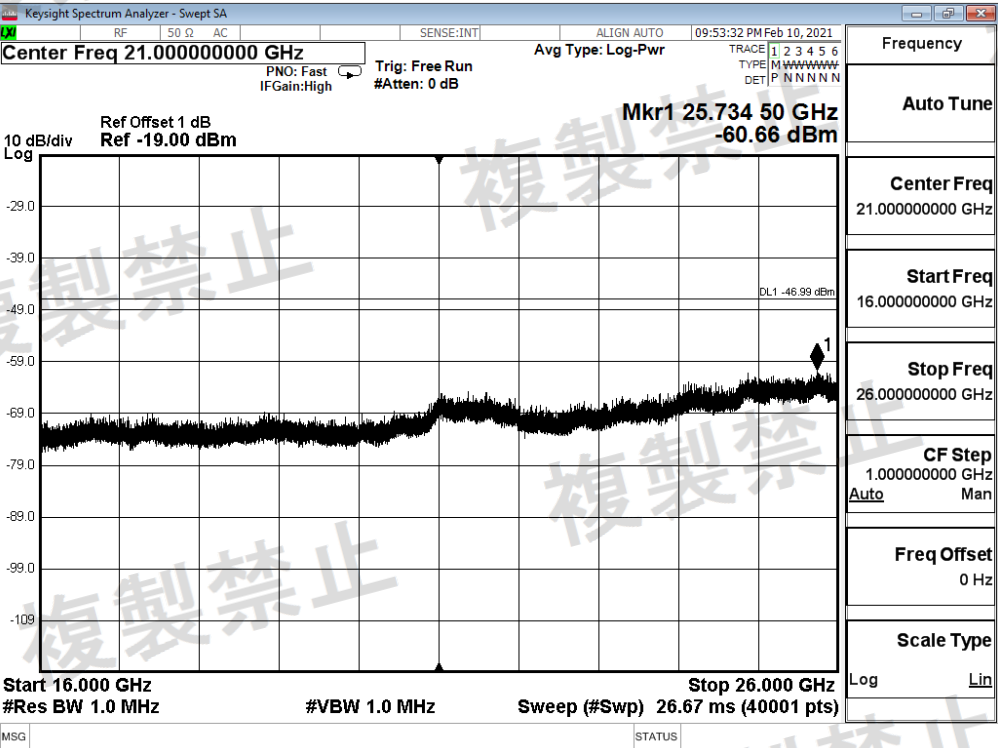
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

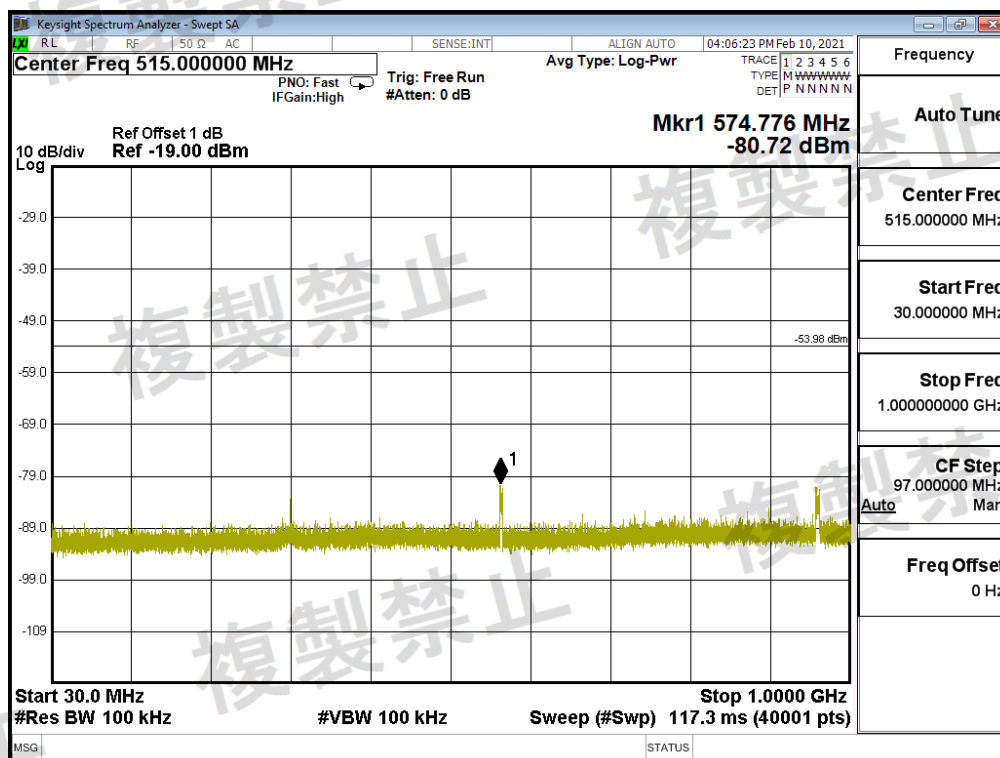


Test Result	PASS
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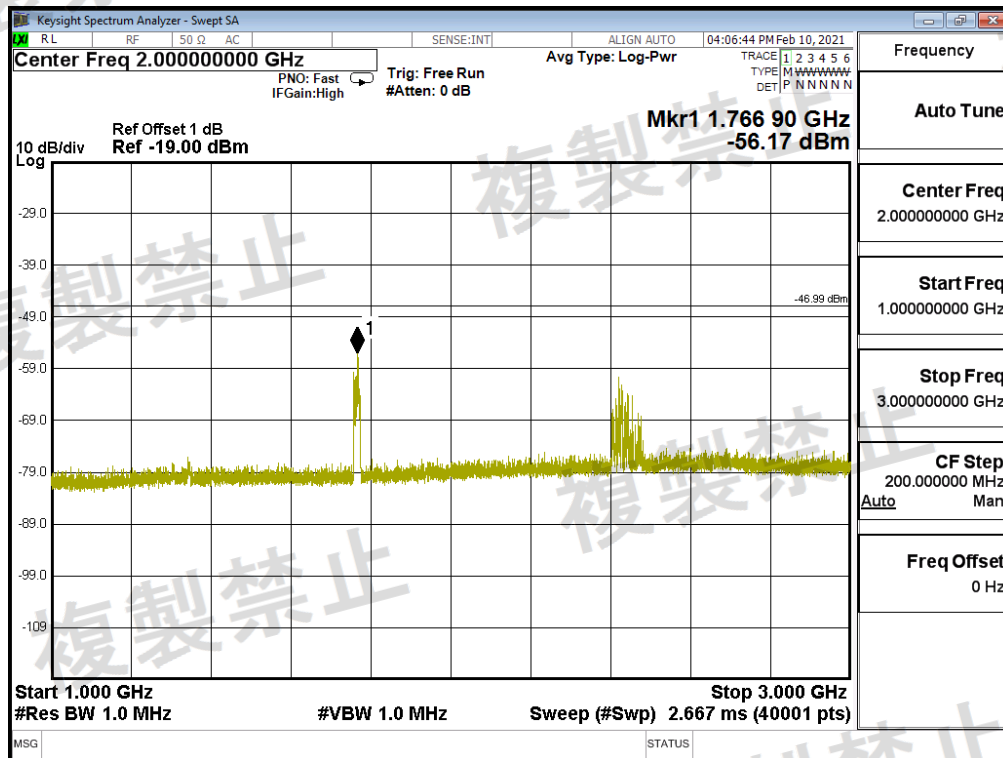
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-20BW) 5320MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-80.72	-54 (4nW)
		1000 – 3000	-56.17	-47 (20nW)
		3000 – 16000	-71.06	-47 (20nW)
		16000 – 26000	-59.91	-47 (20nW)

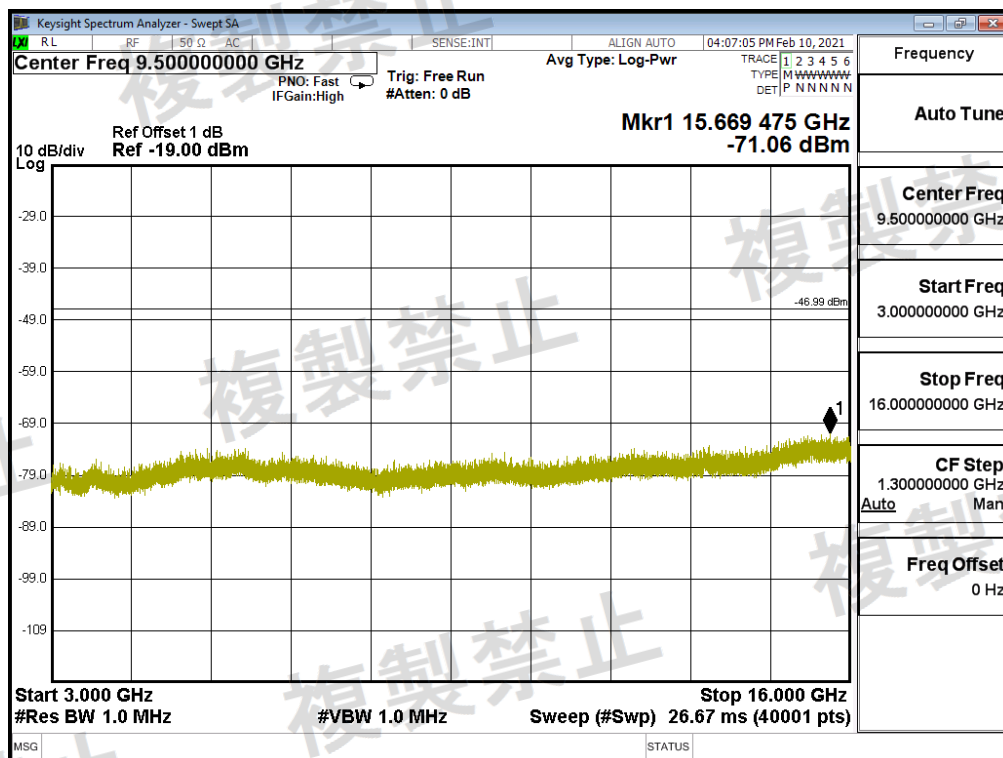
30 - 1000MHz



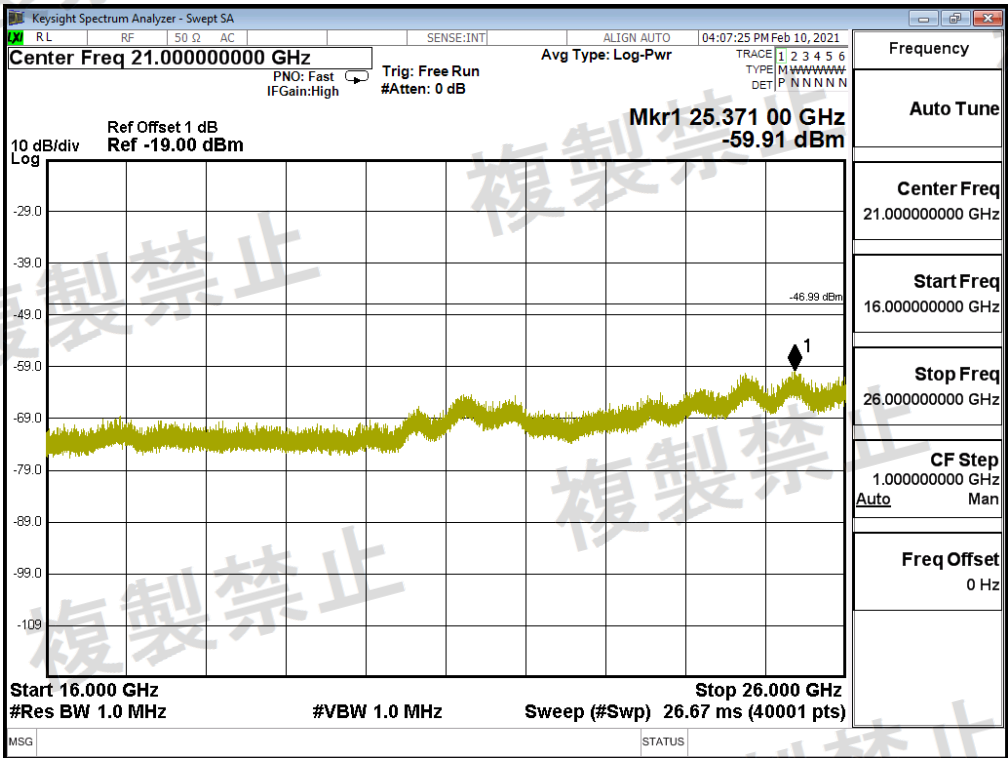
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

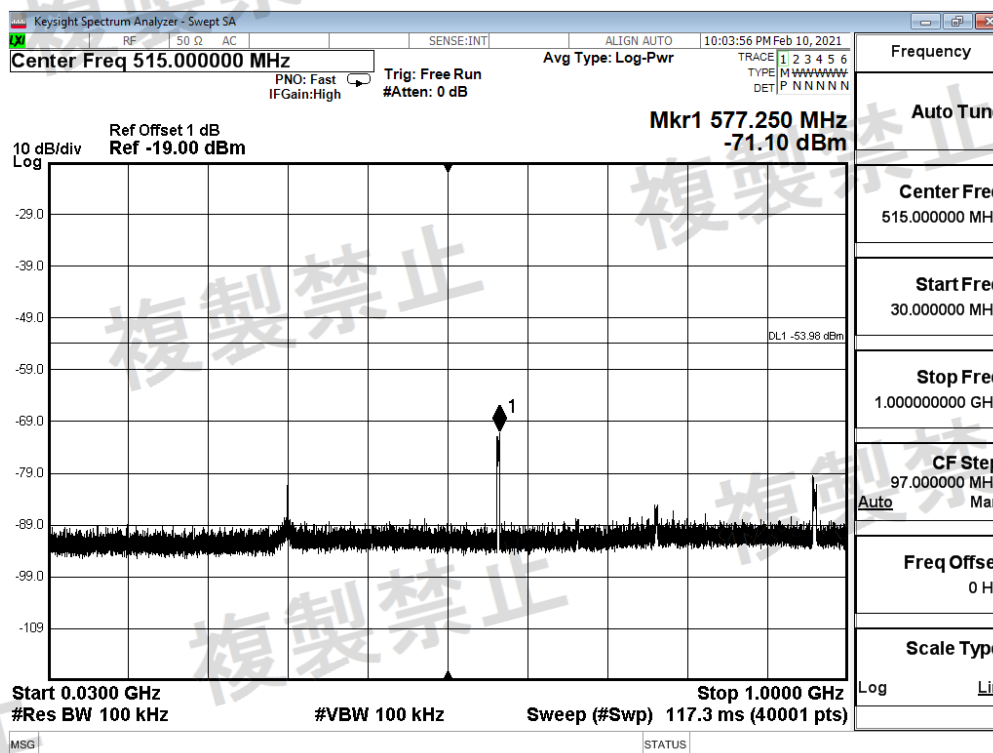


Test Result	PASS
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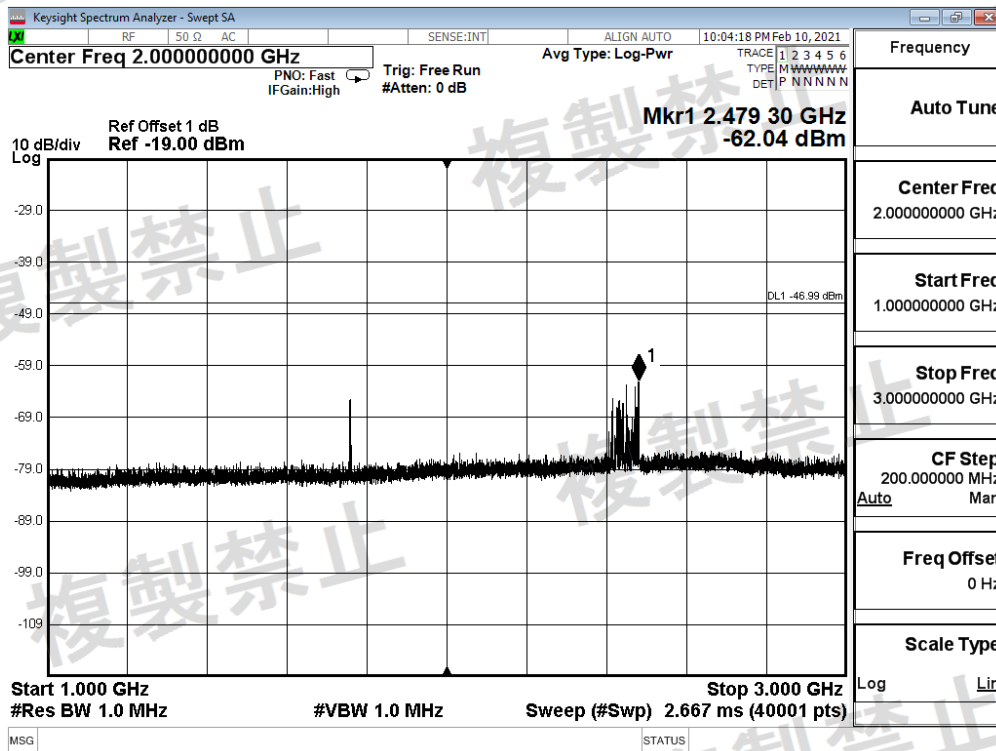
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-20BW) 5320MHz_Chain B (Dipole) (Panel)

Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-71.10	-54 (4nW)
		1000 – 3000	-62.04	-47 (20nW)
		3000 – 16000	-70.79	-47 (20nW)
		16000 – 26000	-60.41	-47 (20nW)

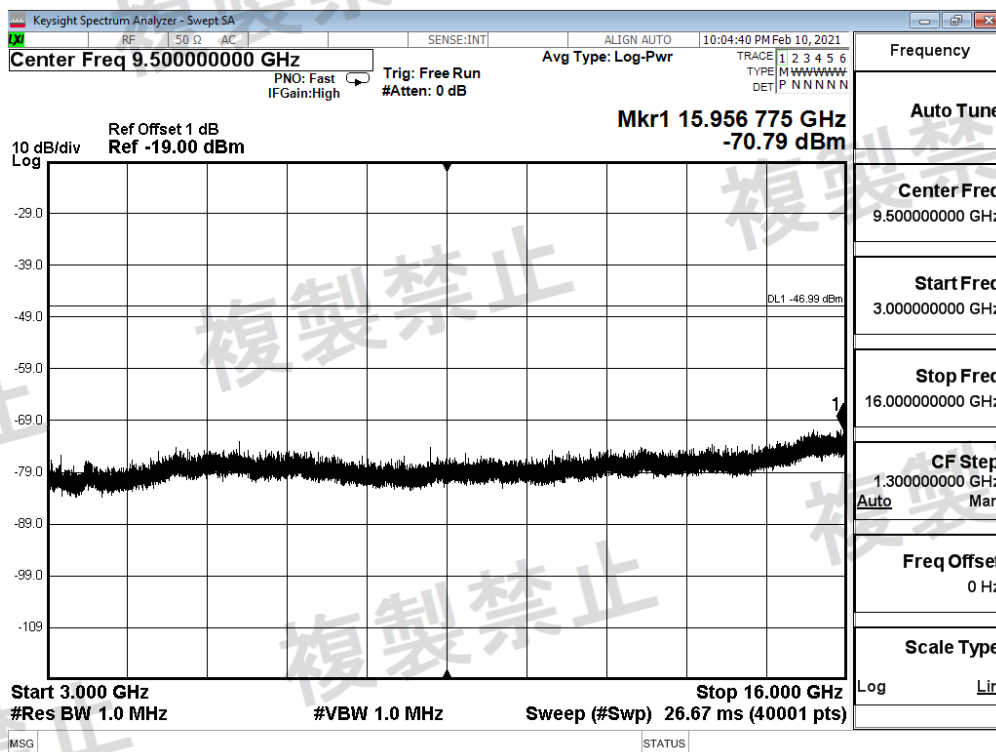
30 - 1000MHz



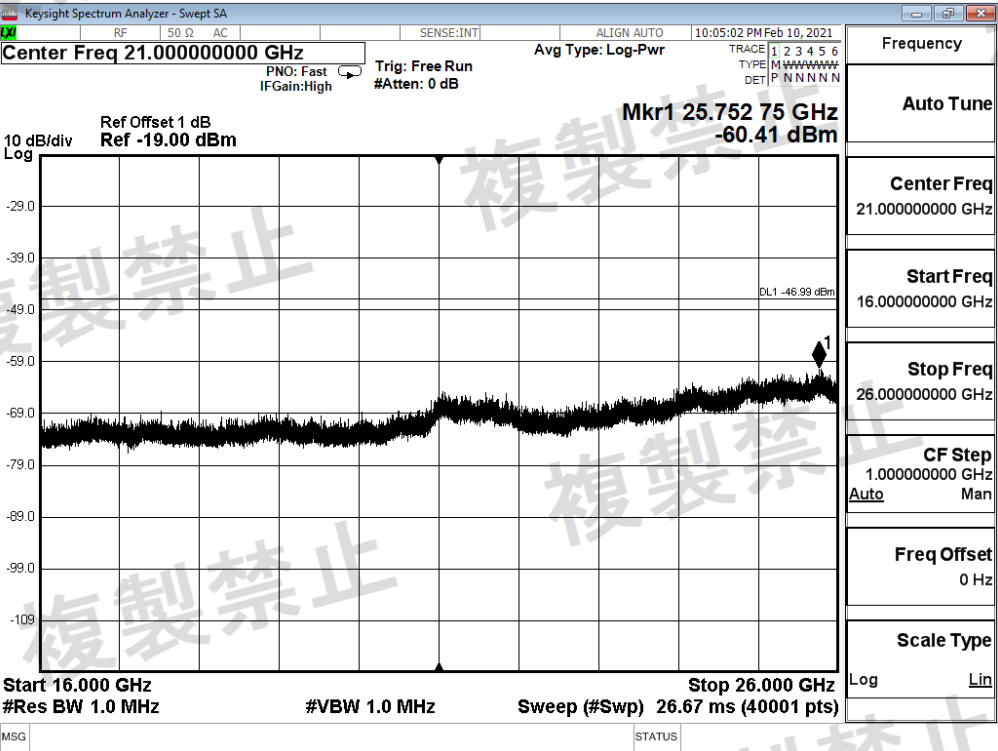
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

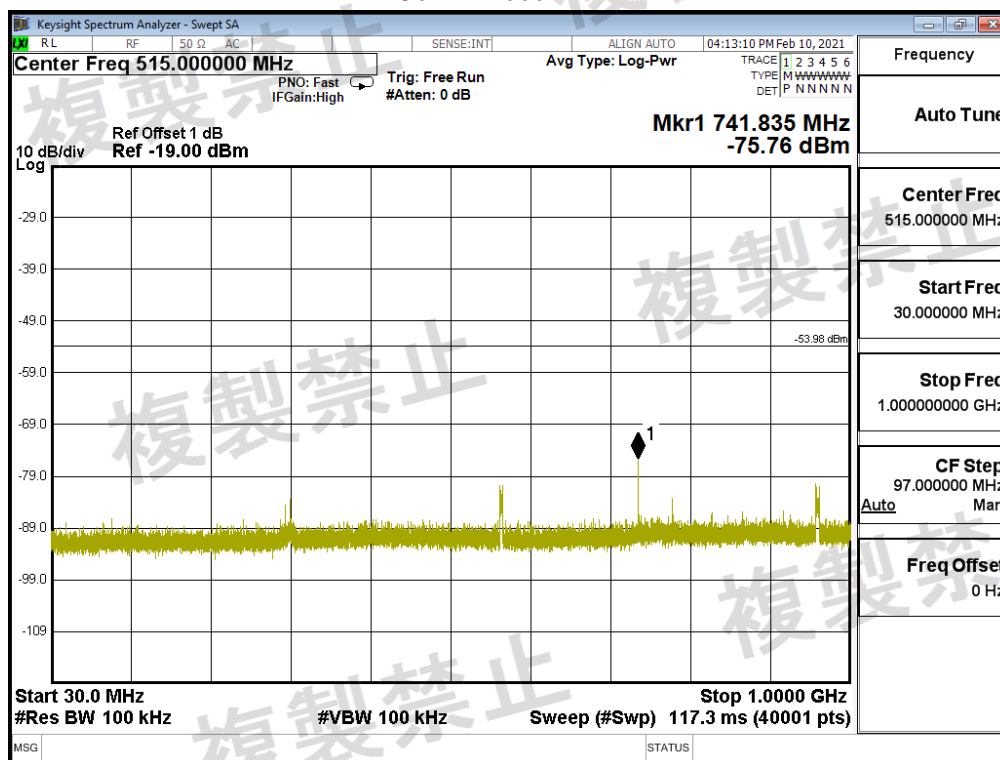


Test Result	PASS
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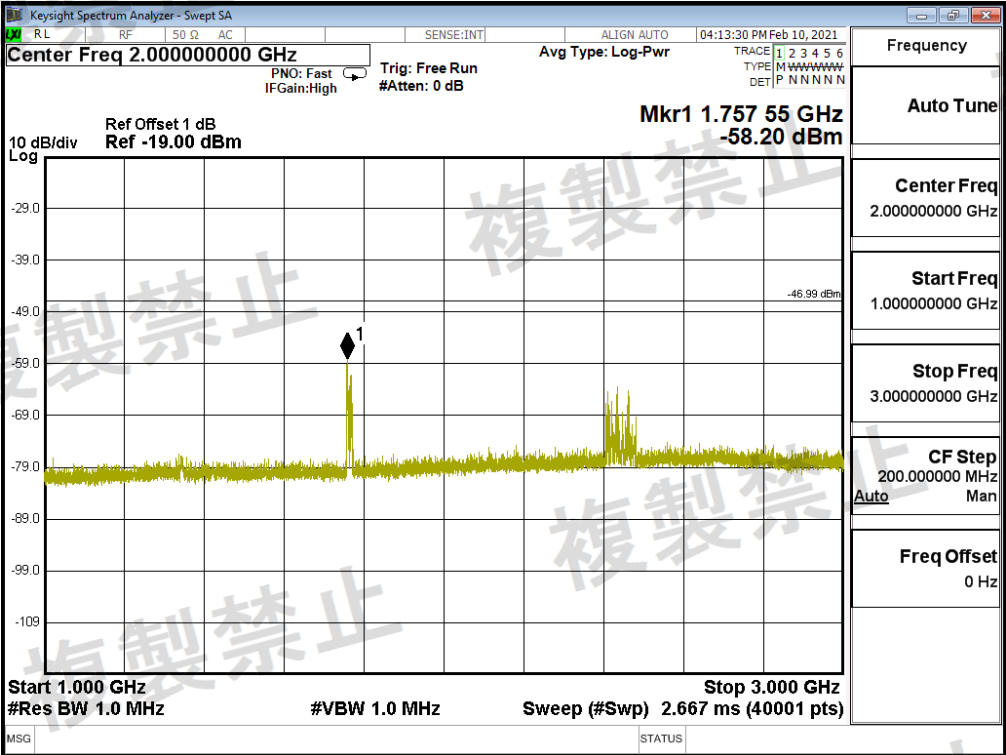
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-20BW) 5500MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-75.76	-54 (4nW)
		1000 - 3000	-58.20	-47 (20nW)
		3000 - 16000	-70.84	-47 (20nW)
		16000 - 26000	-59.77	-47 (20nW)

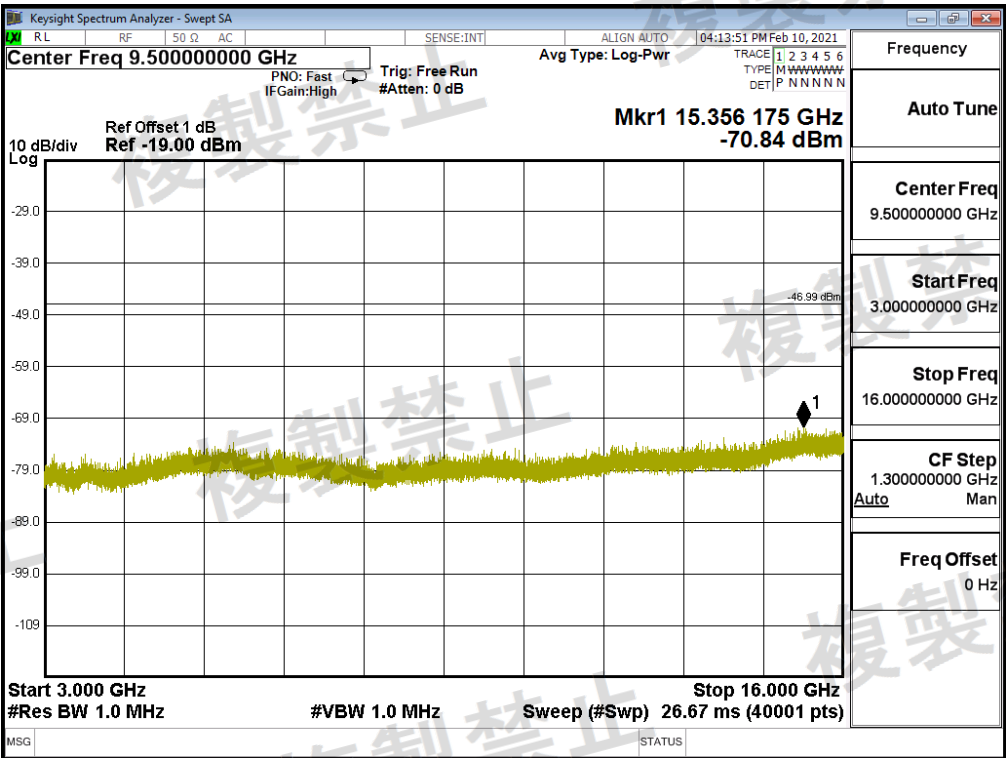
30 - 1000MHz



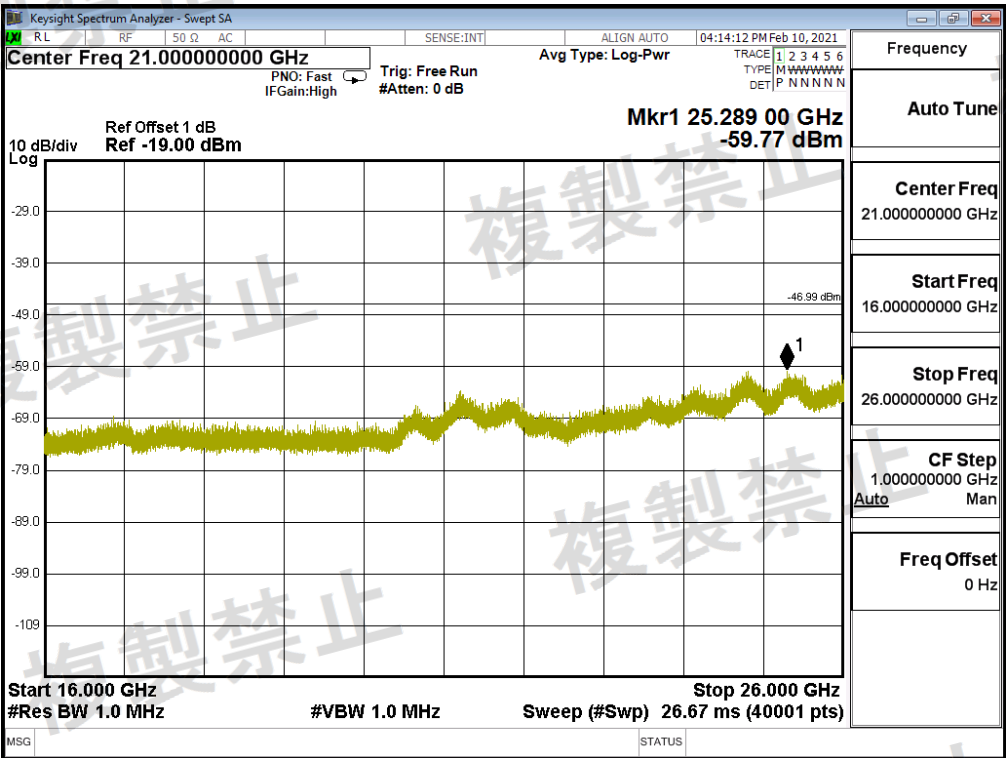
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

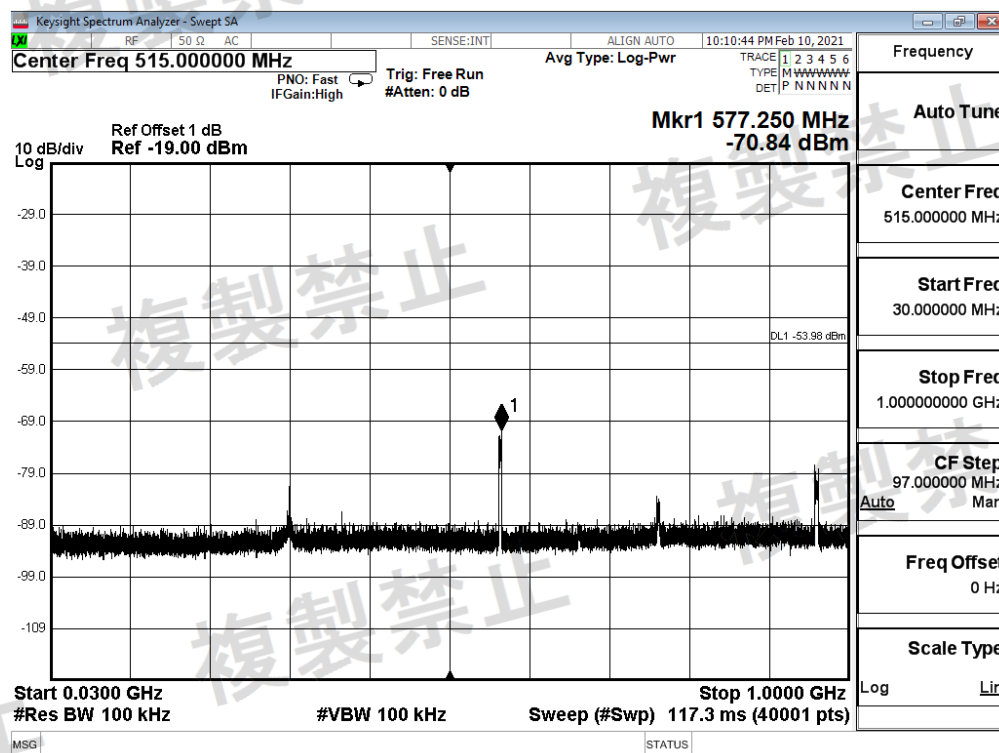


Test Result	PASS
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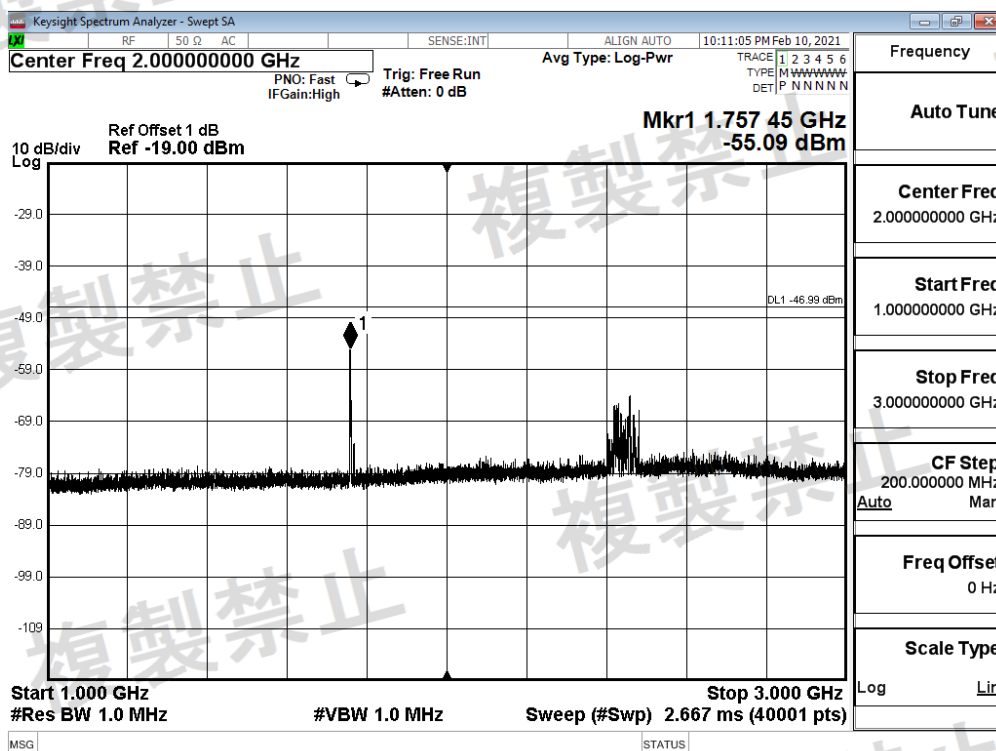
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-20BW) 5500MHz_Chain B (Dipole) (Panel)

Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.84	-54 (4nW)
		1000 - 3000	-55.09	-47 (20nW)
		3000 - 16000	-69.72	-47 (20nW)
		16000 - 26000	-60.44	-47 (20nW)

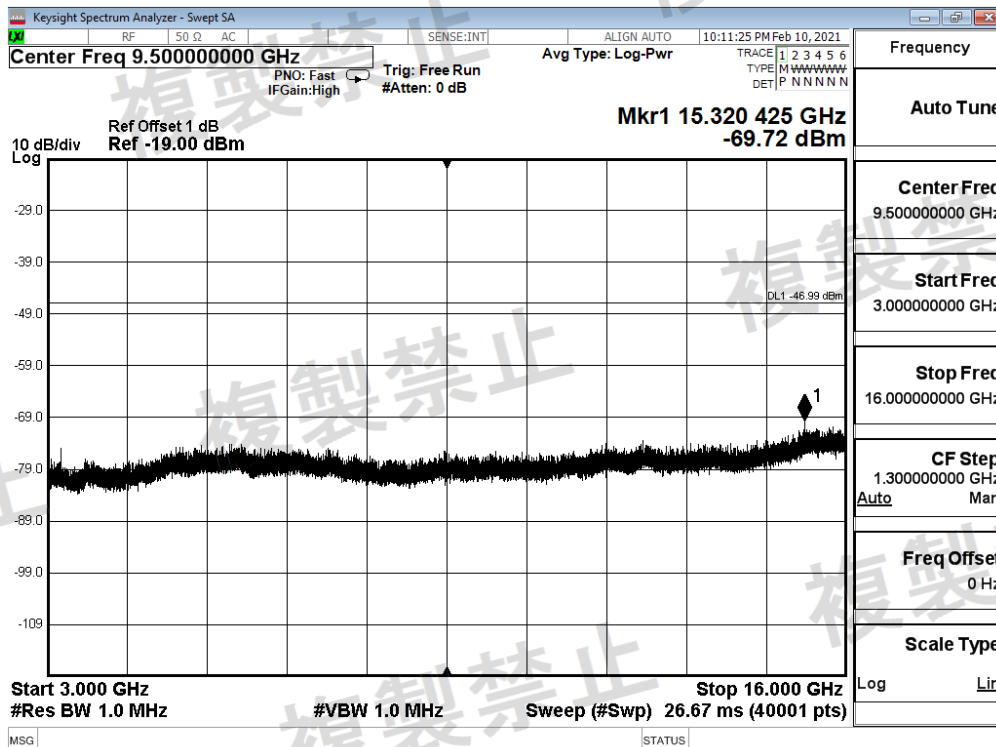
30 - 1000MHz



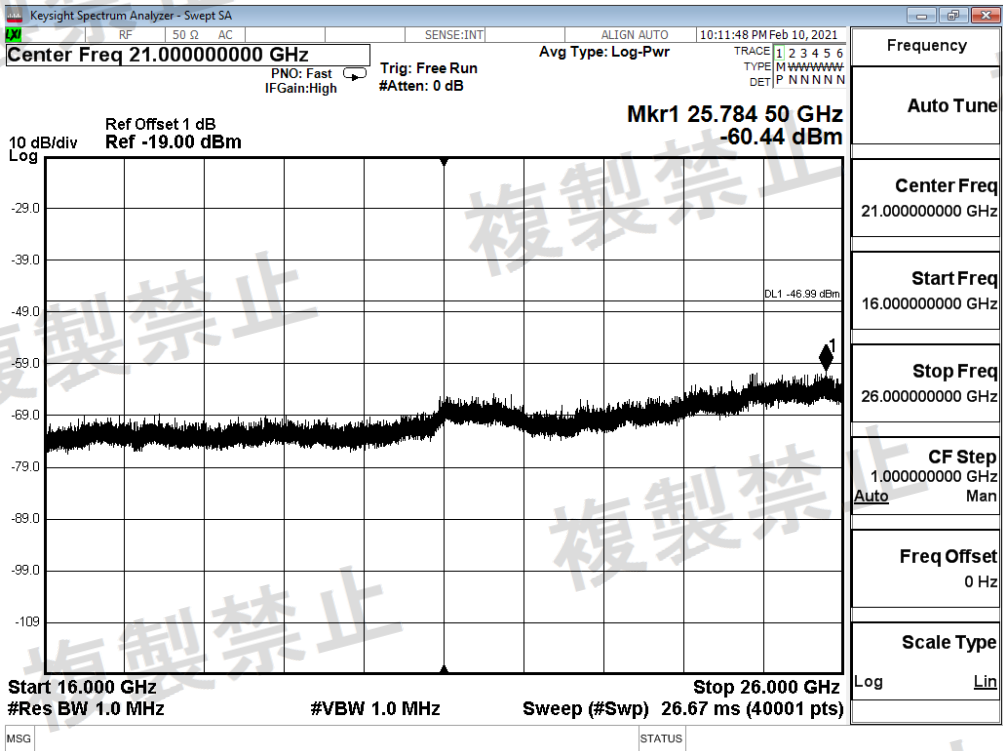
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

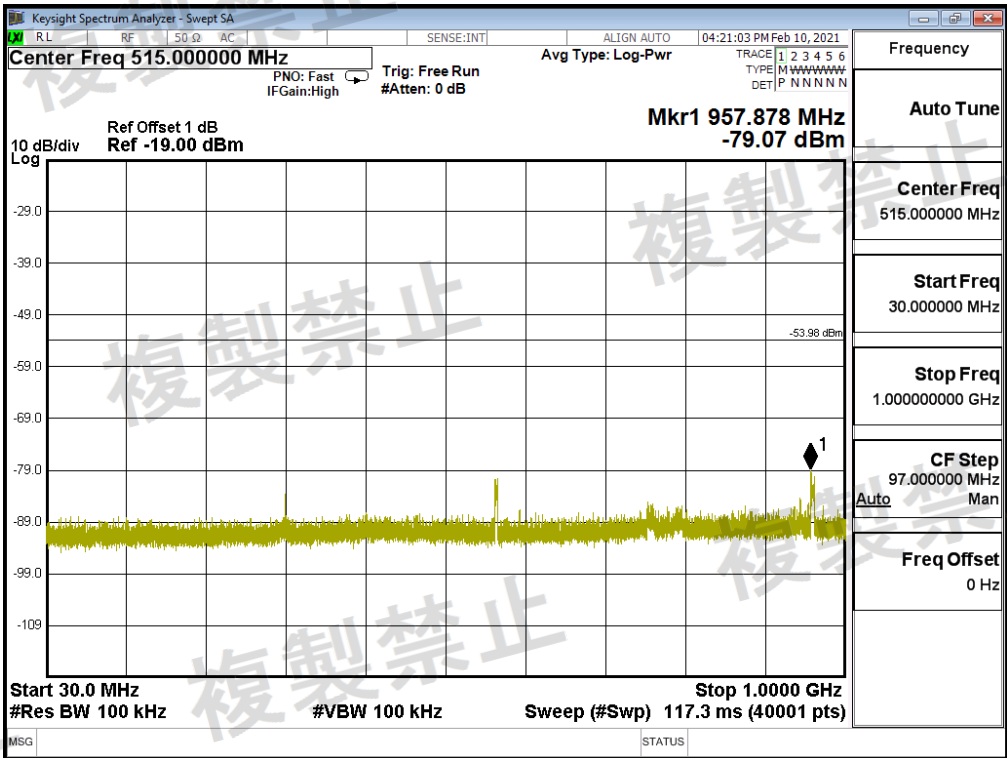


Test Result	PASS
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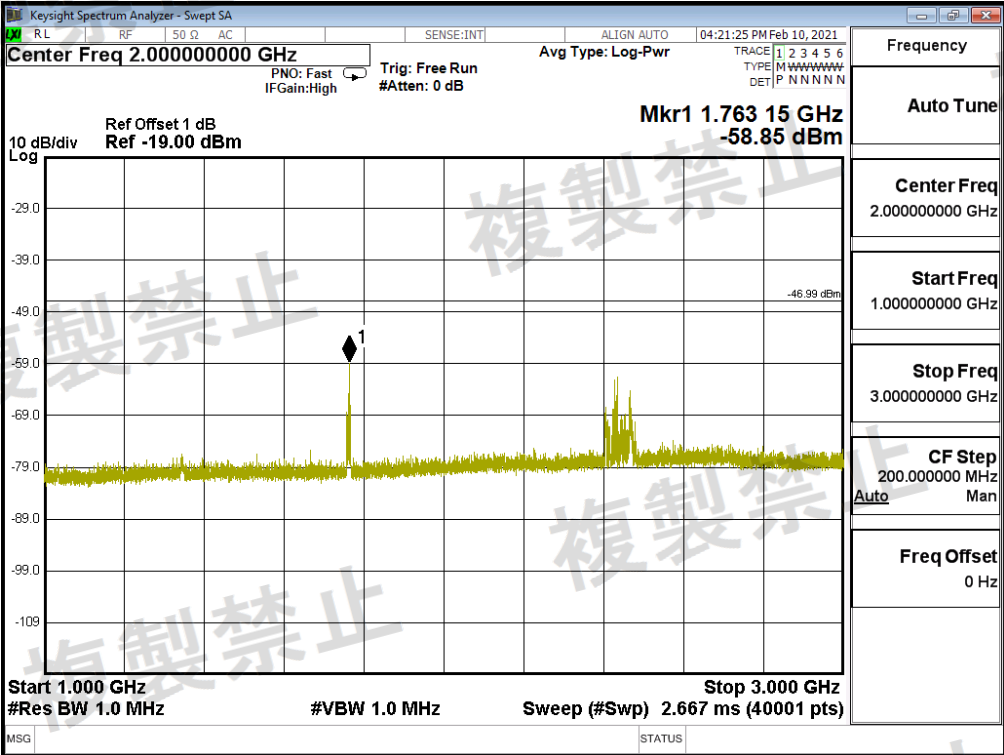
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-20BW) 5600MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

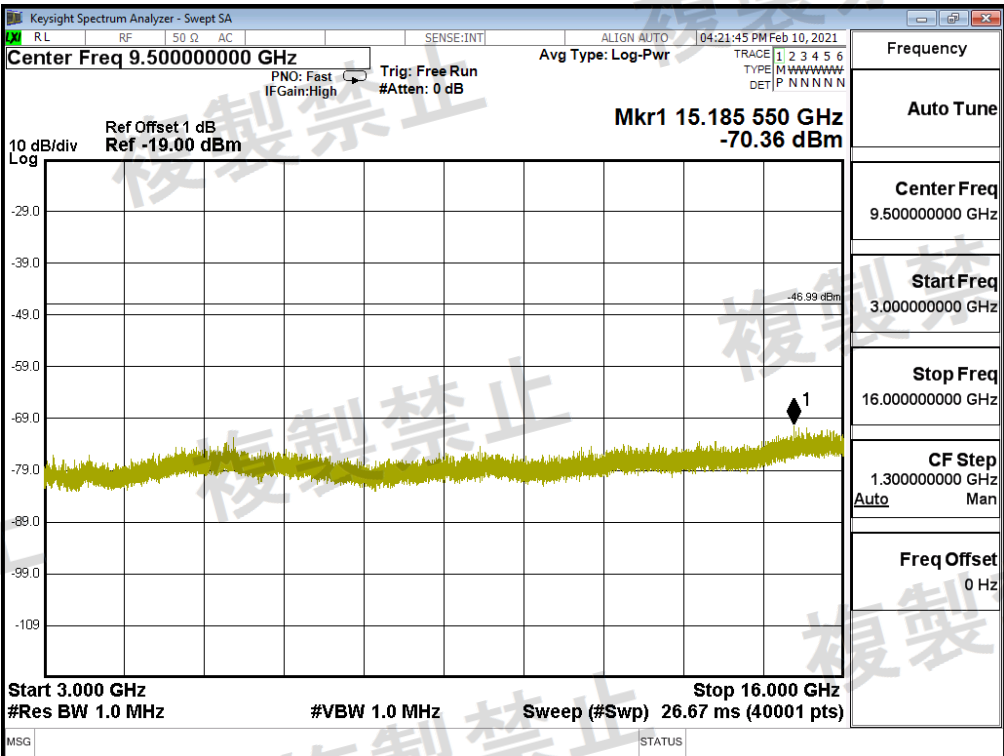
30 - 1000MHz



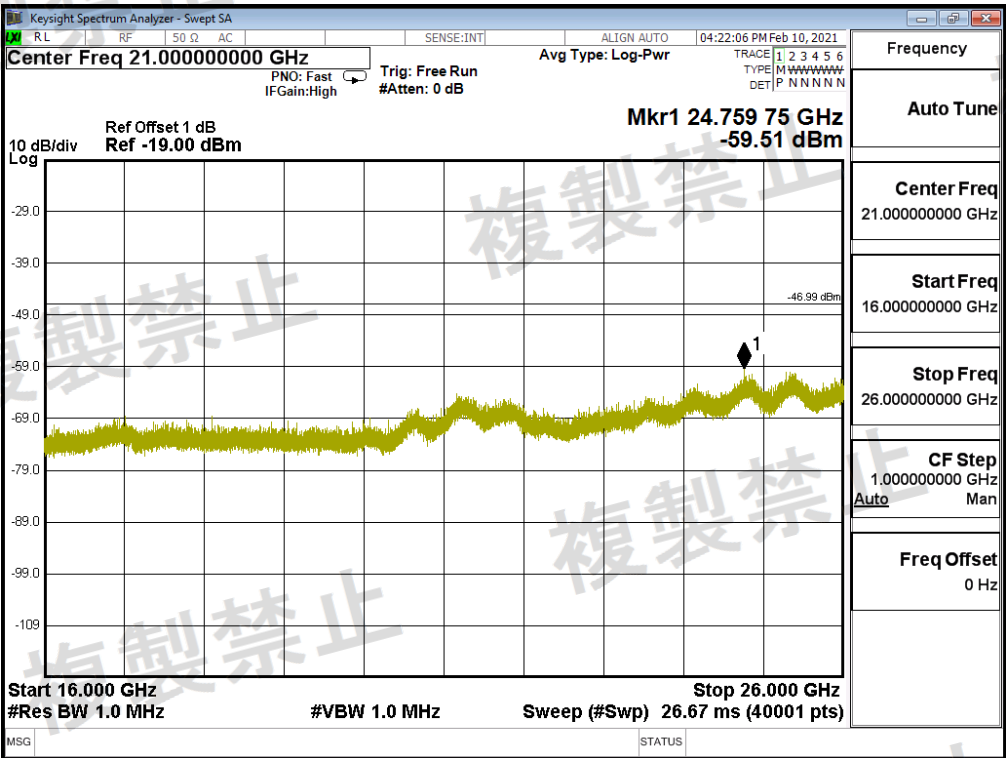
1000 – 3000MHz



3000 – 16000MHz



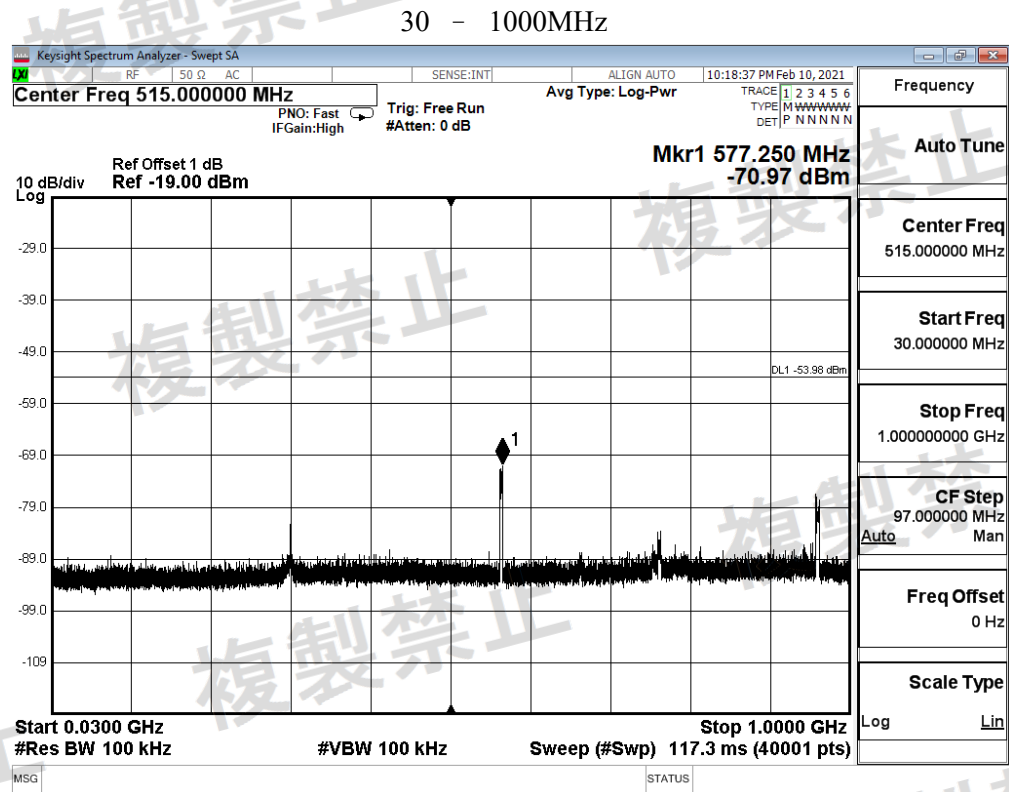
16000 – 26000MHz



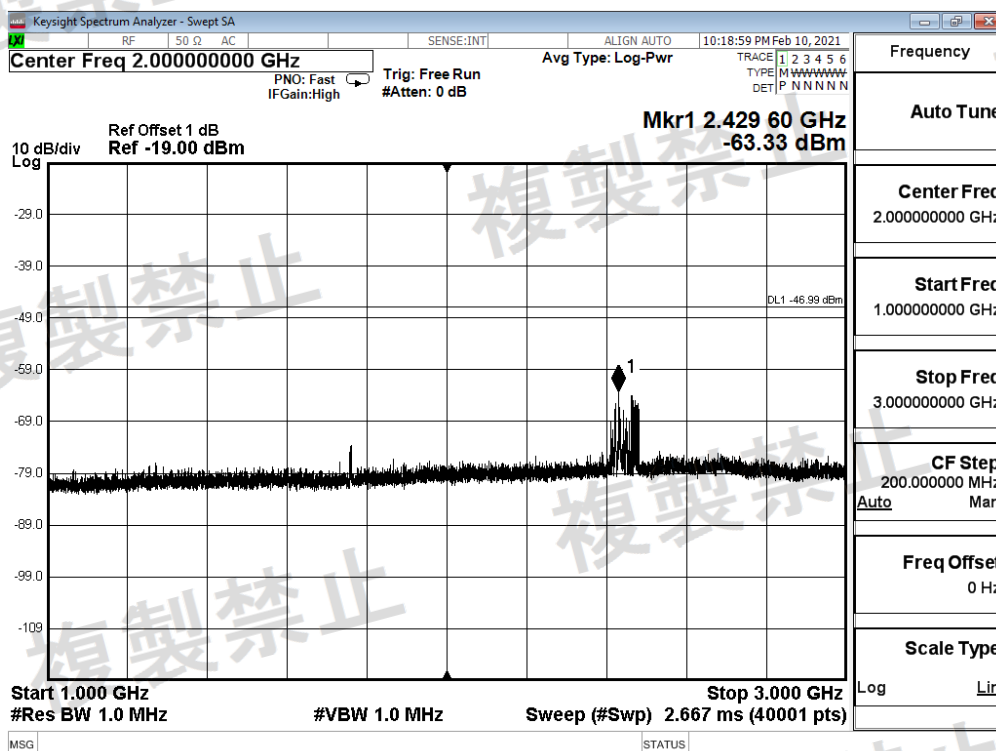
Test Result	PASS
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Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-20BW) 5600MHz_Chain B (Dipole) (Panel)

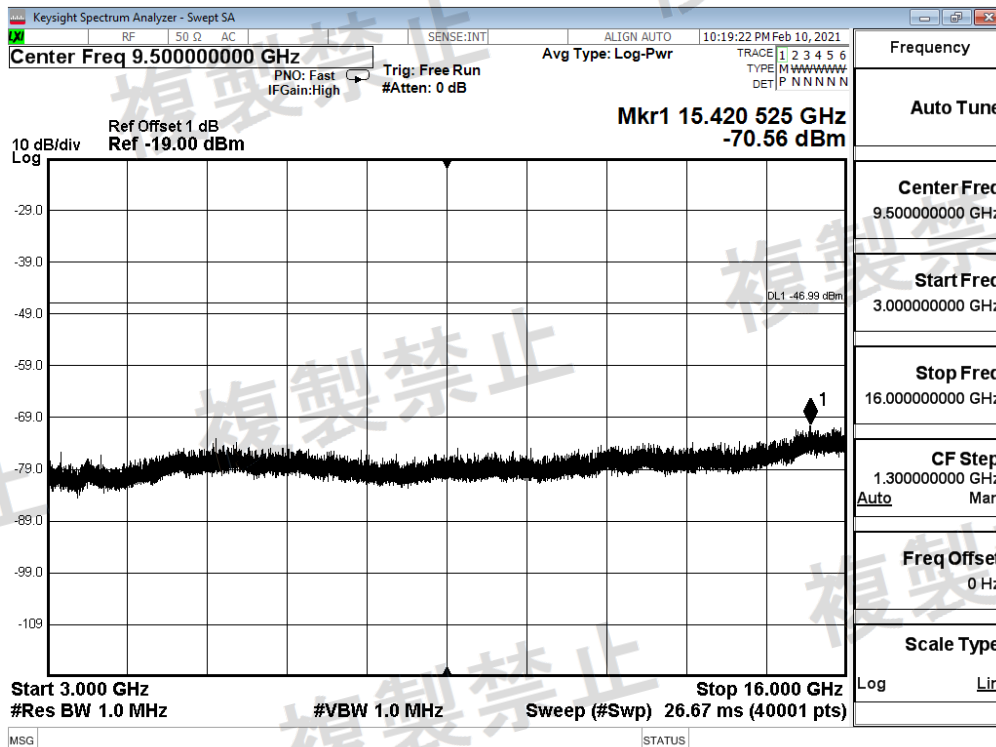
Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.97	-54 (4nW)
		1000 - 3000	-63.33	-47 (20nW)
		3000 - 16000	-70.56	-47 (20nW)
		16000 - 26000	-60.34	-47 (20nW)



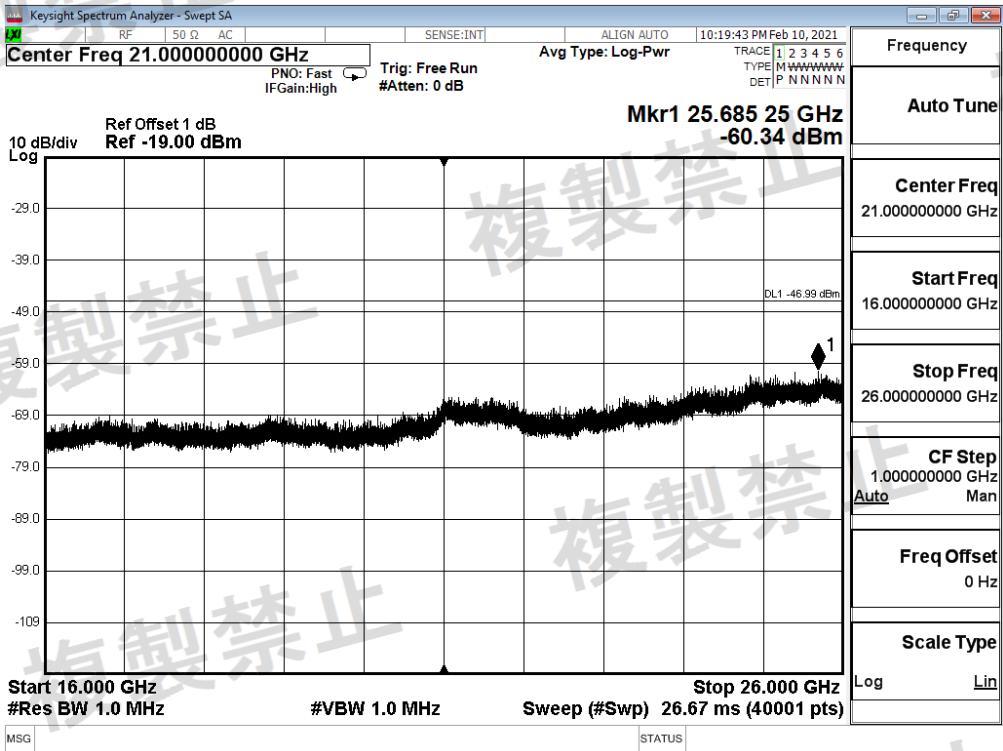
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

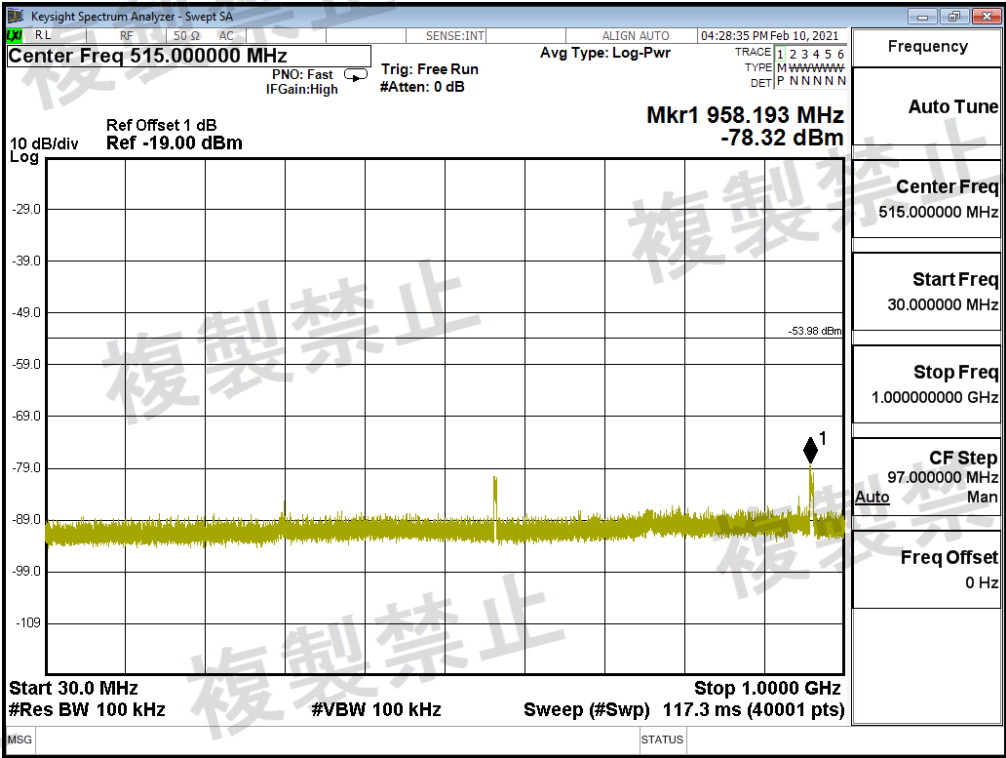


Test Result	PASS
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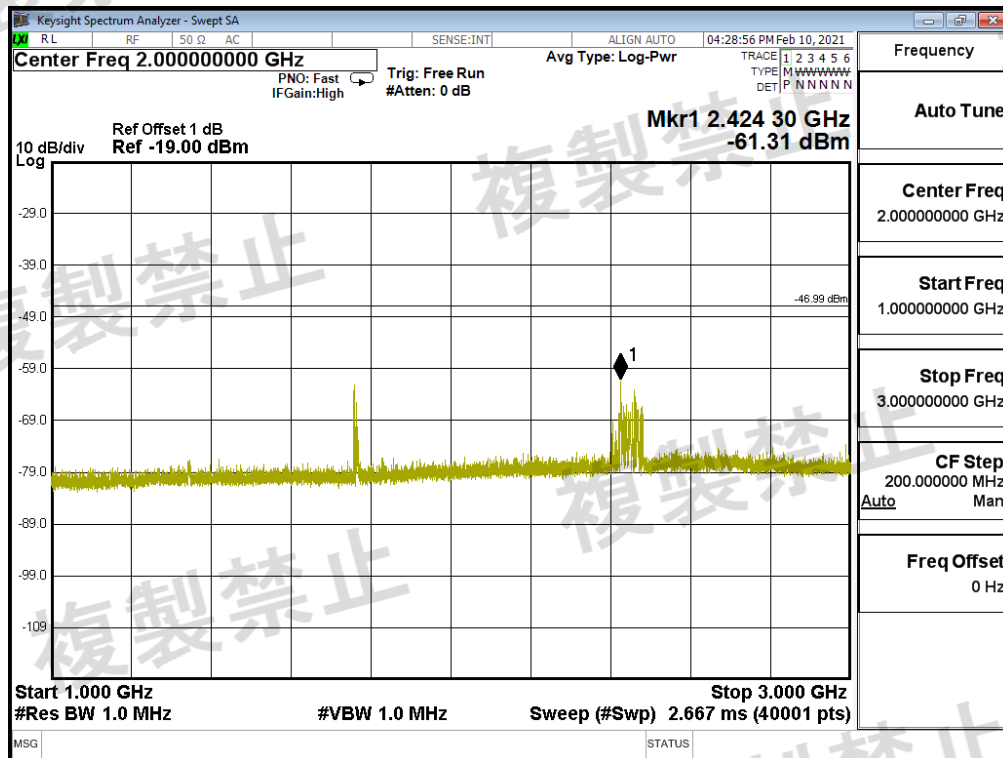
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-20BW) 5700MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

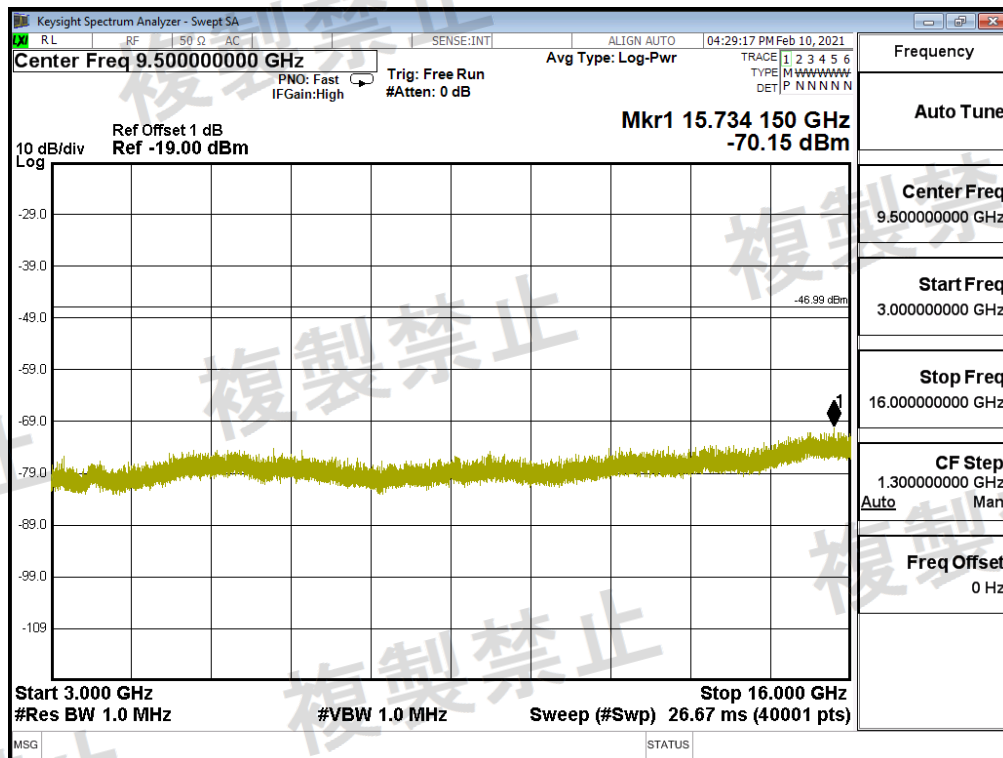
30 - 1000MHz



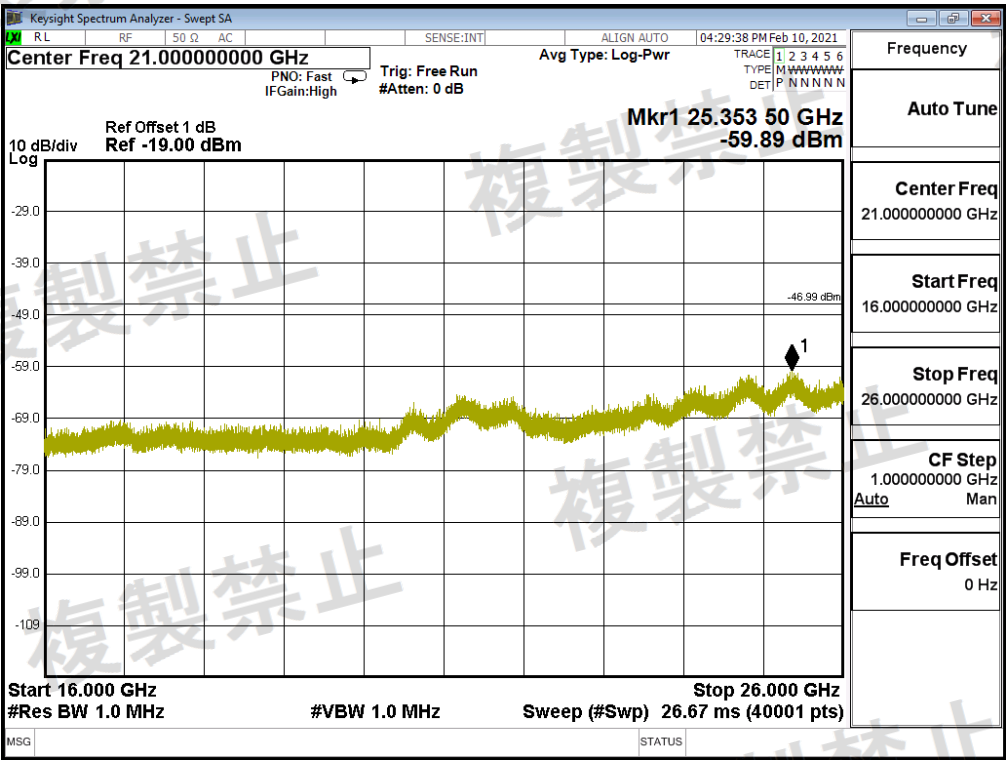
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

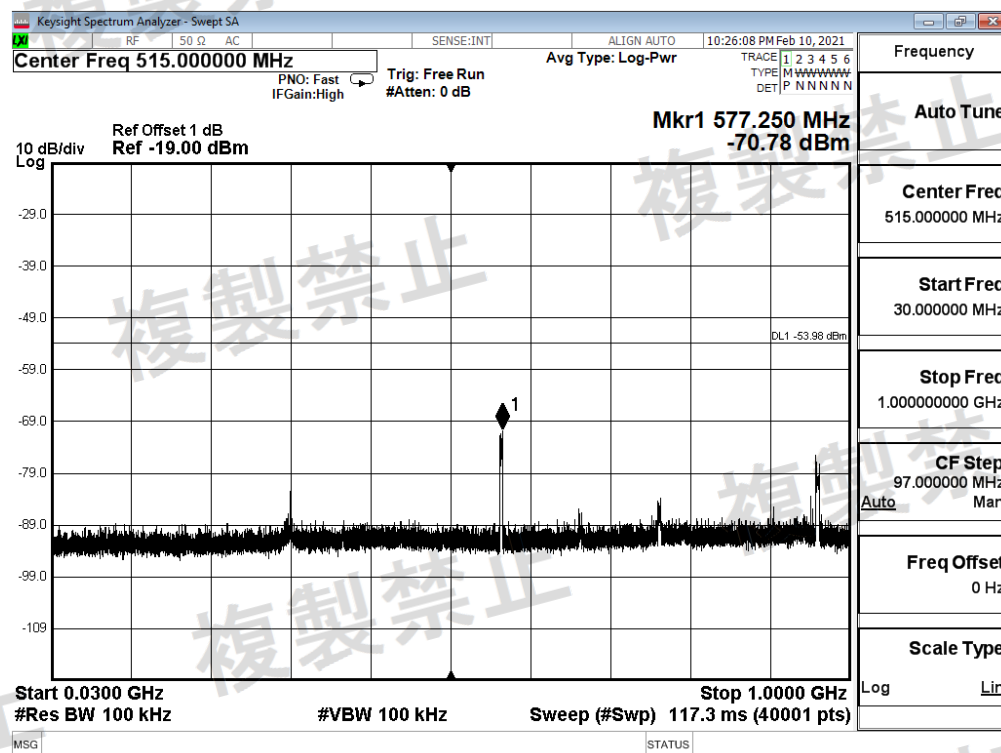


Test Result	PASS
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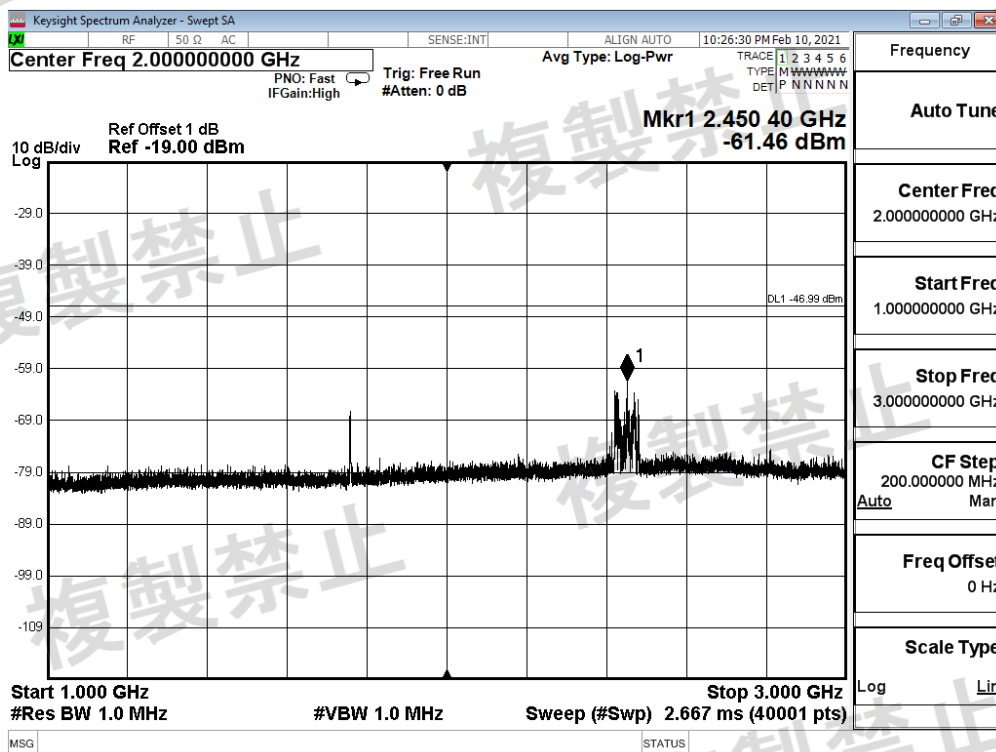
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-20BW) 5700MHz_Chain B (Dipole) (Panel)

Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.78	-54 (4nW)
		1000 - 3000	-61.46	-47 (20nW)
		3000 - 16000	-70.26	-47 (20nW)
		16000 - 26000	-60.11	-47 (20nW)

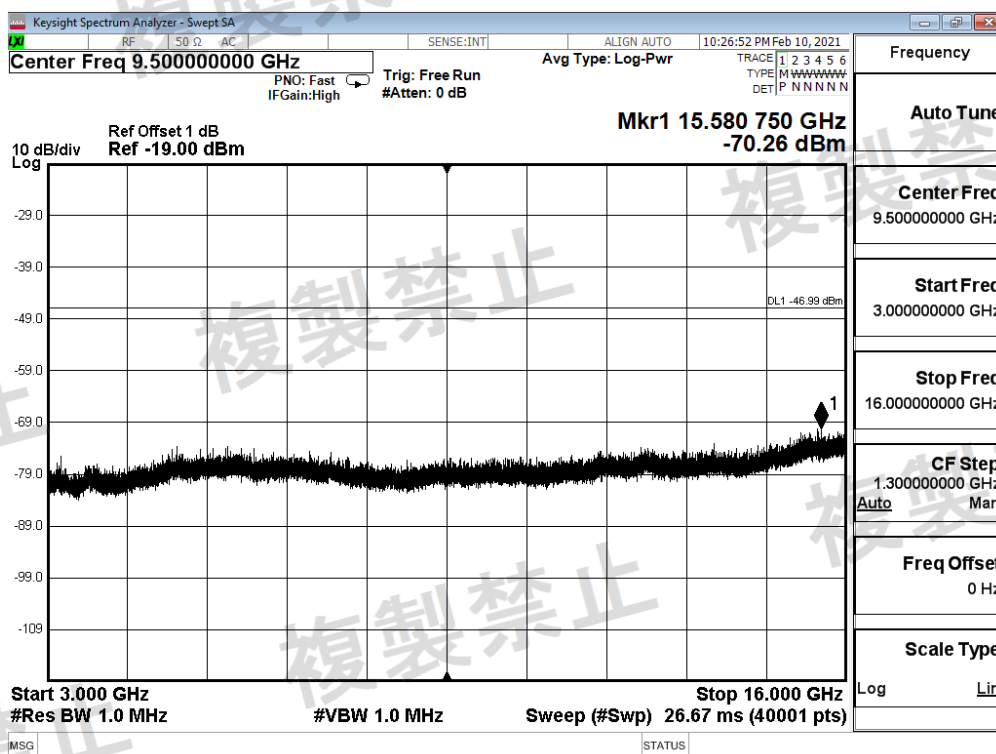
30 - 1000MHz



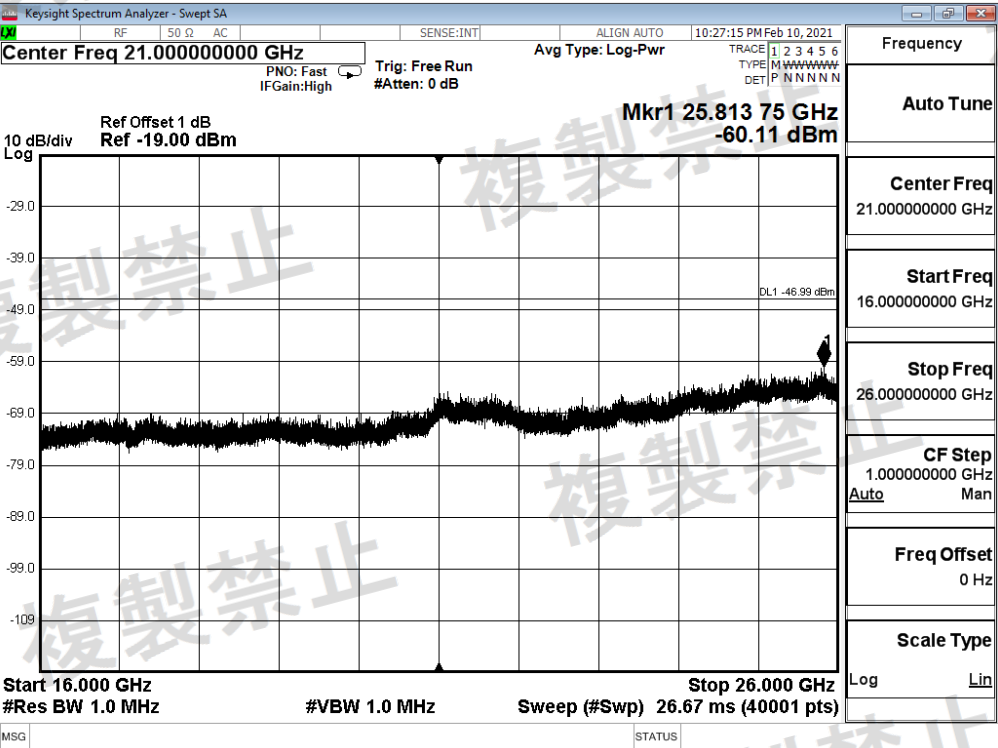
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

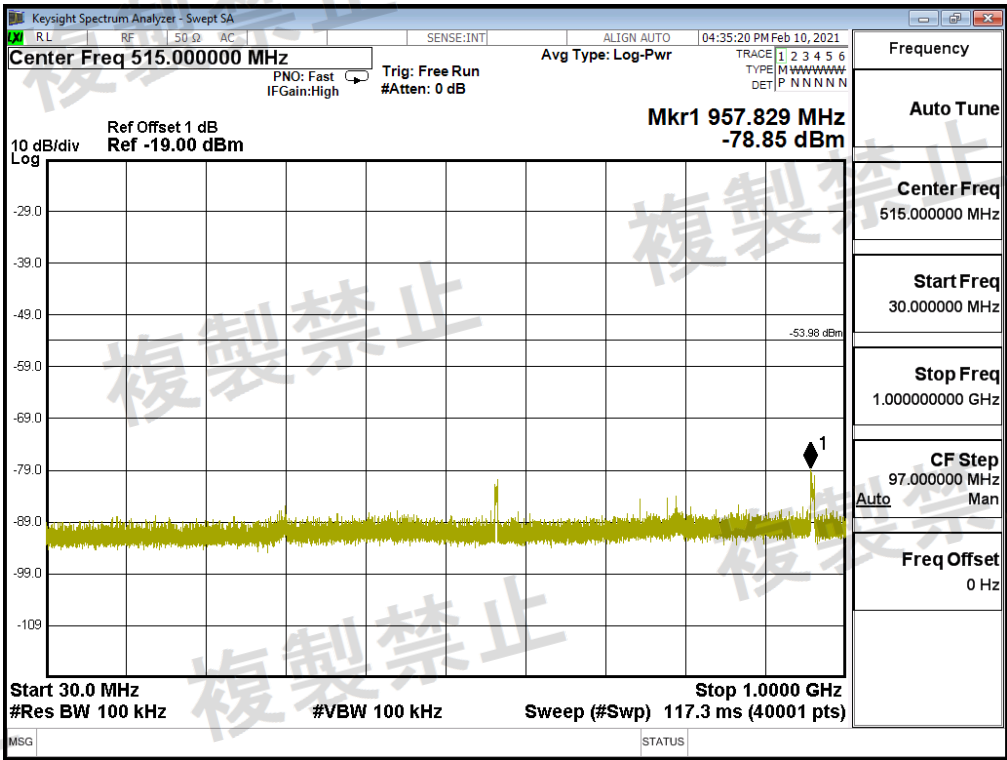


Test Result	PASS
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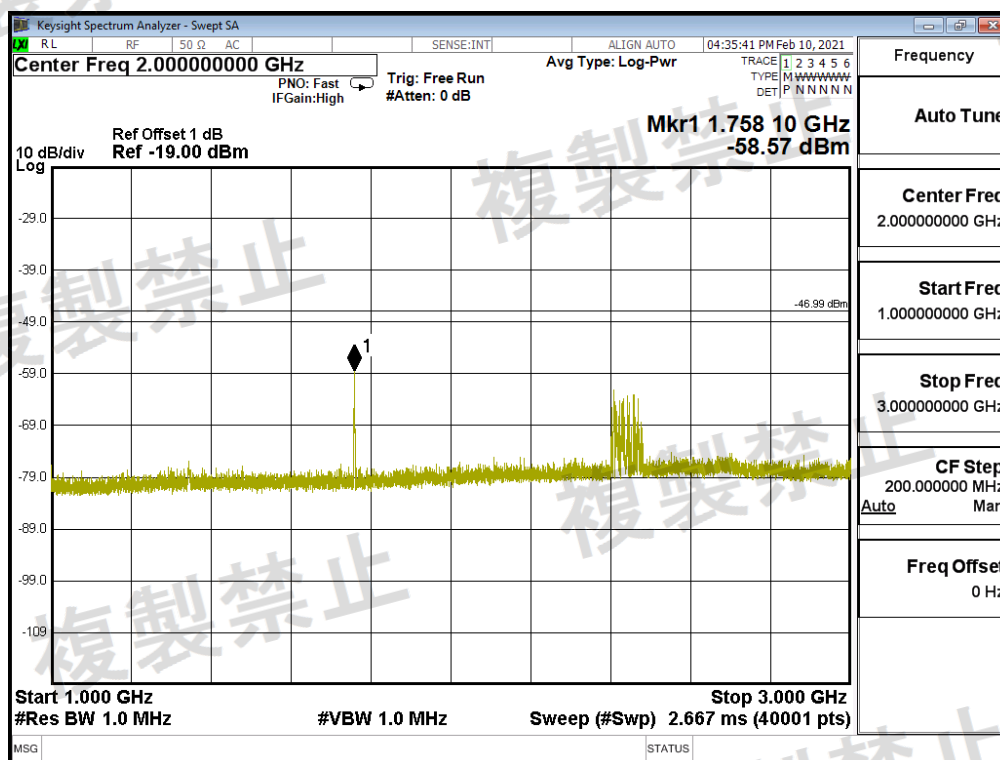
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-20BW) 5720MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

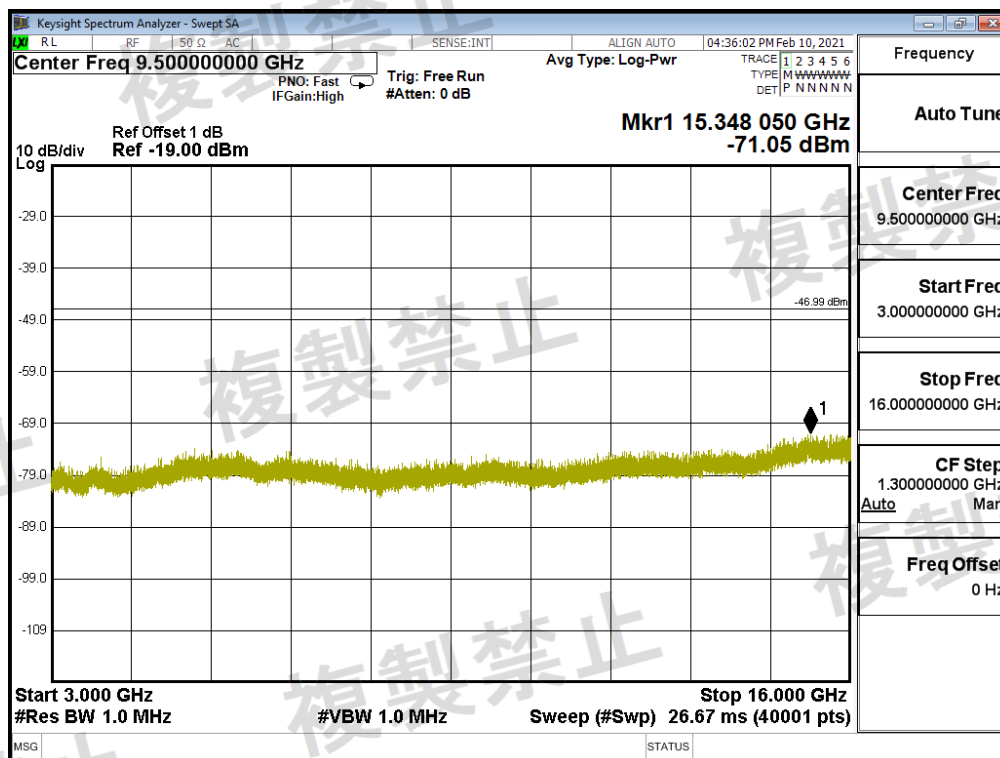
30 - 1000MHz



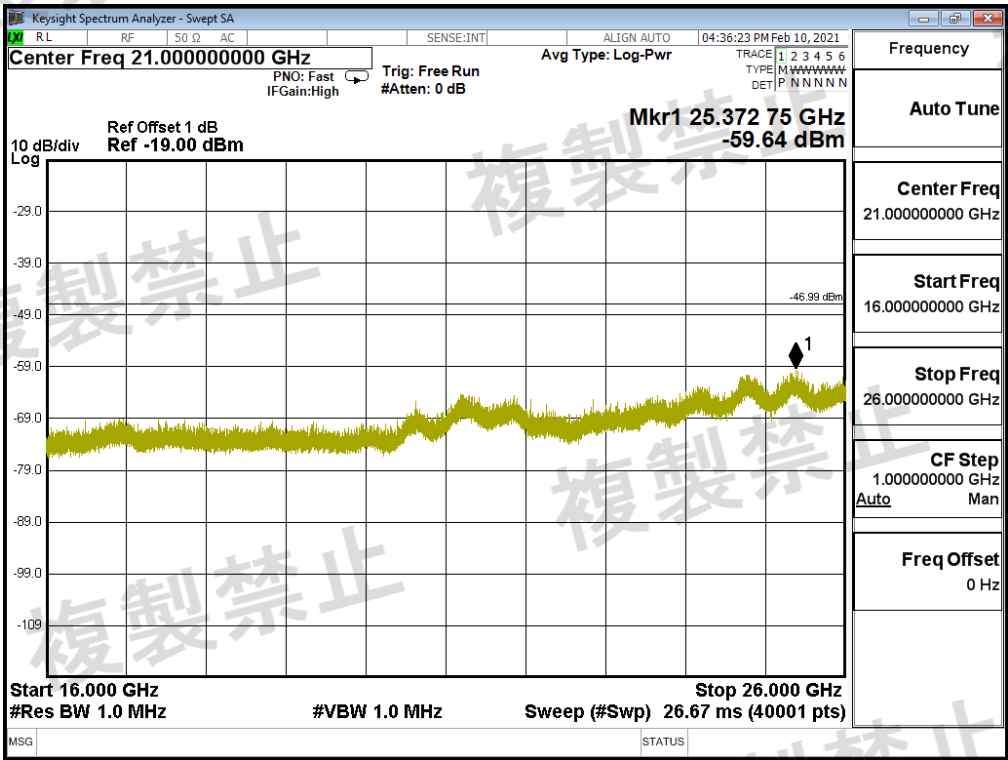
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

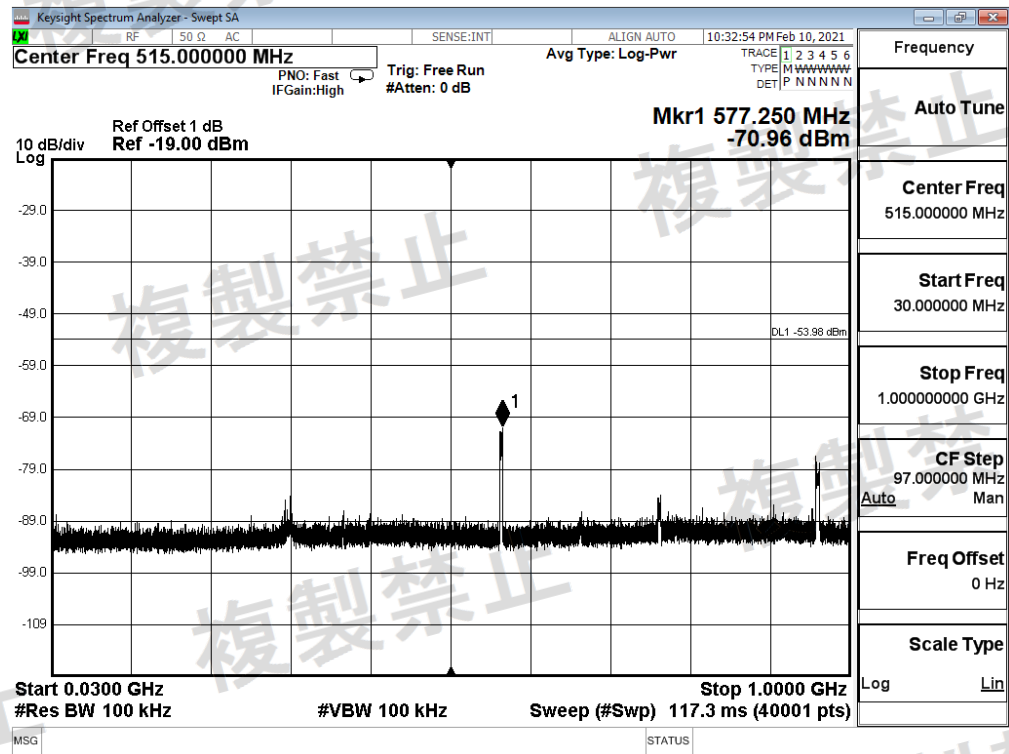


Test Result	PASS
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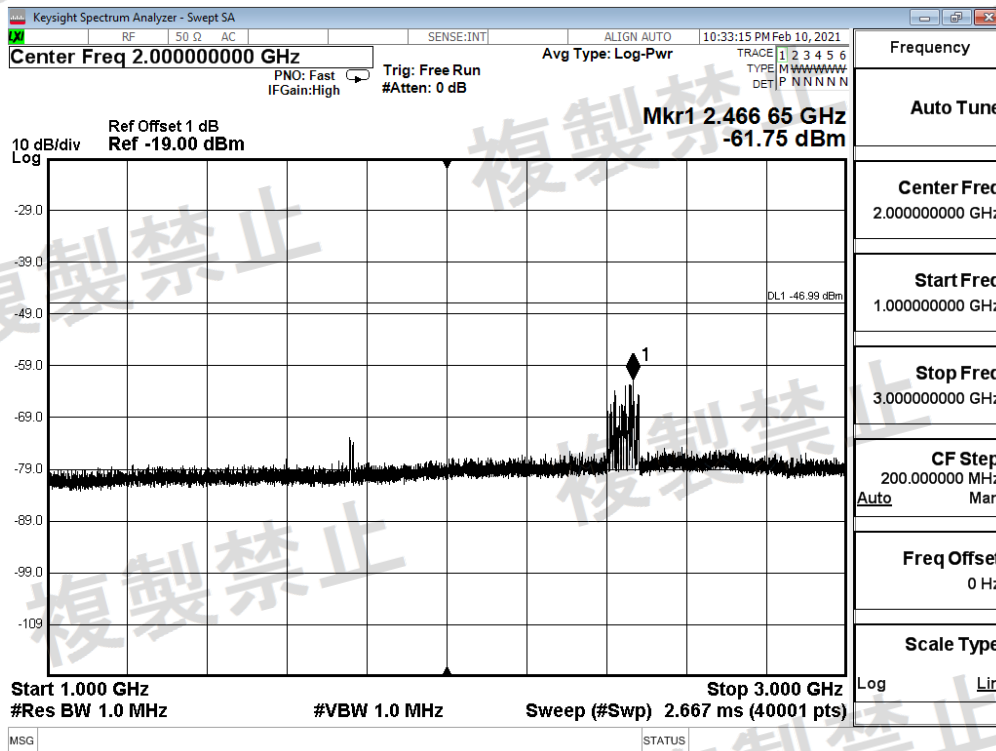
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-20BW) 5720MHz_Chain B (Dipole) (Panel)

Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.96	-54 (4nW)
		1000 - 3000	-61.75	-47 (20nW)
		3000 - 16000	-70.14	-47 (20nW)
		16000 - 26000	-60.85	-47 (20nW)

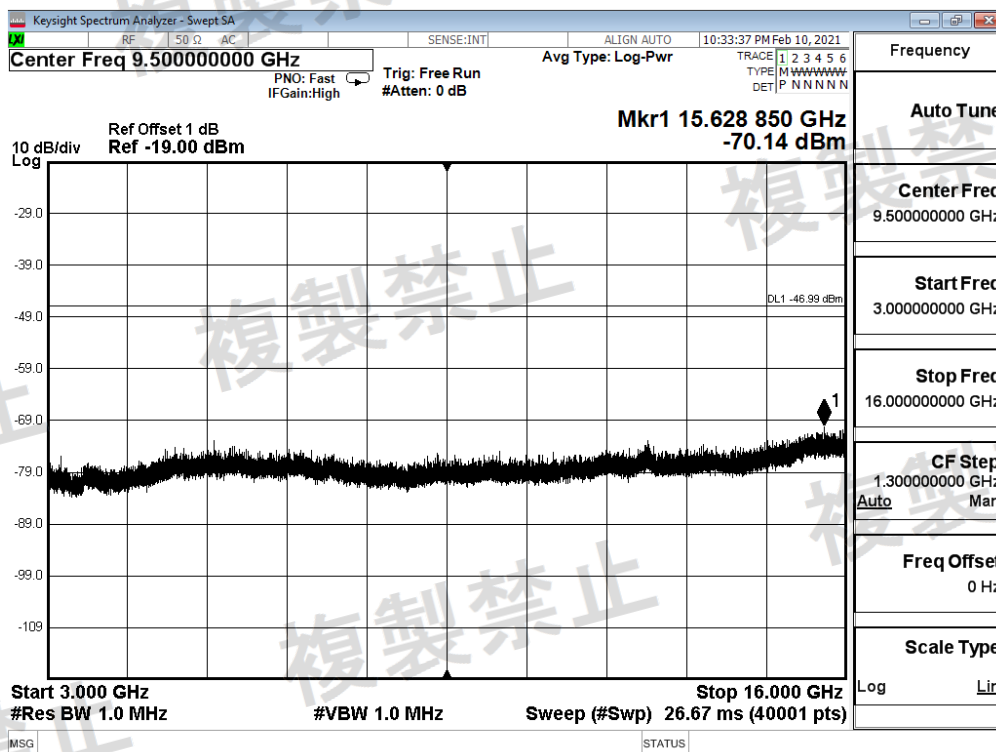
30 - 1000MHz



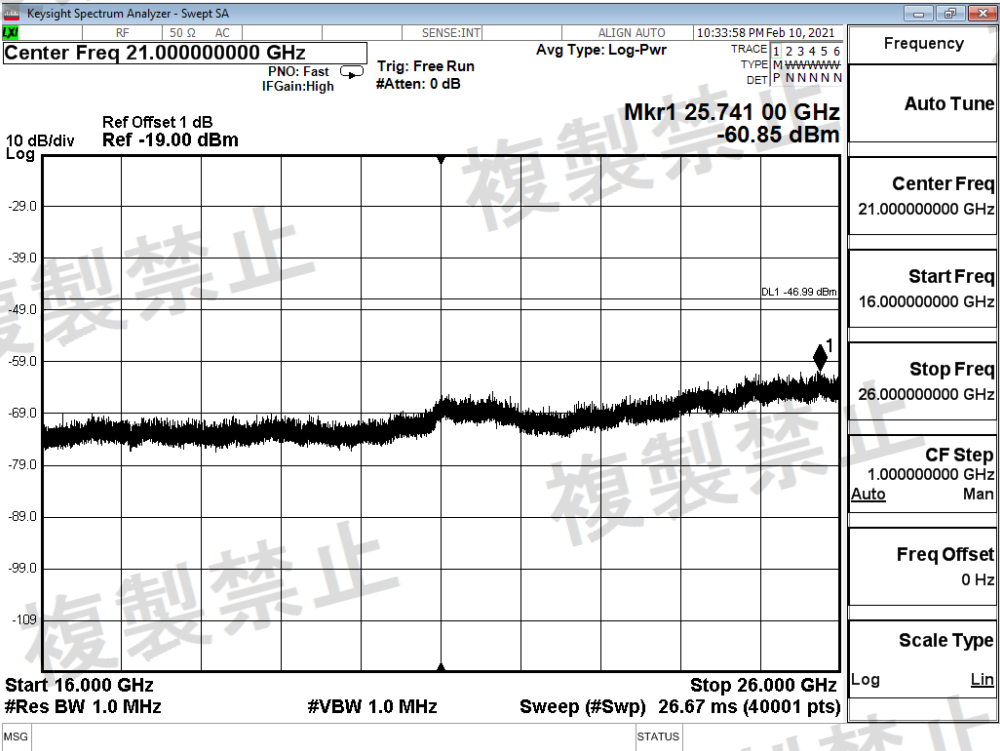
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

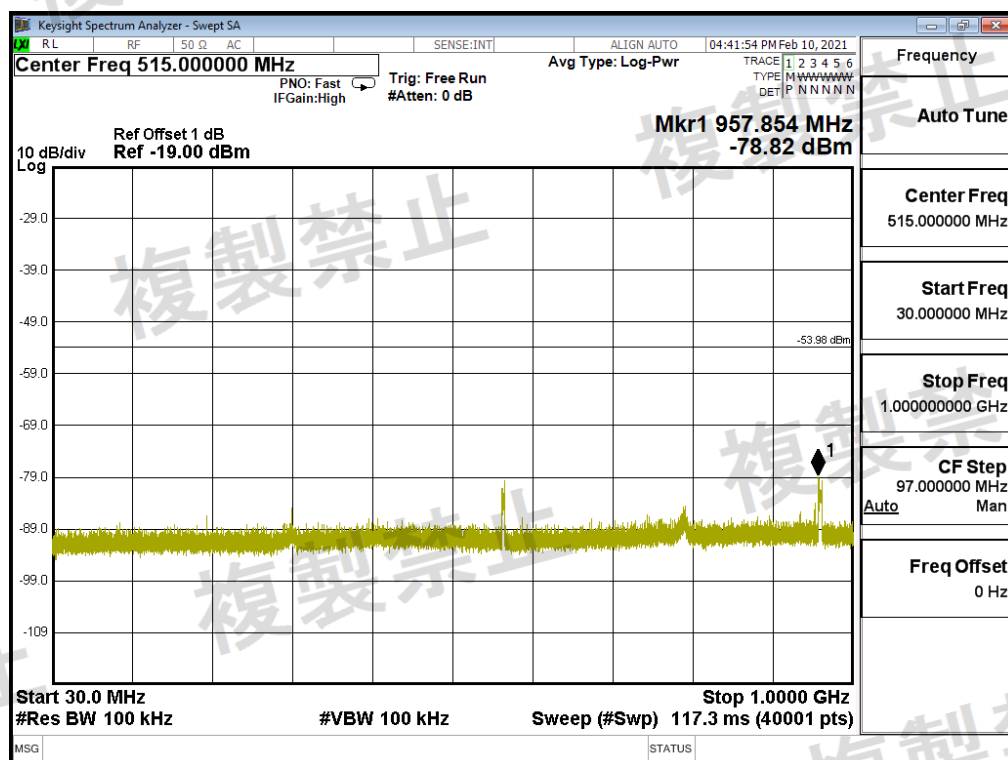


Test Result	PASS
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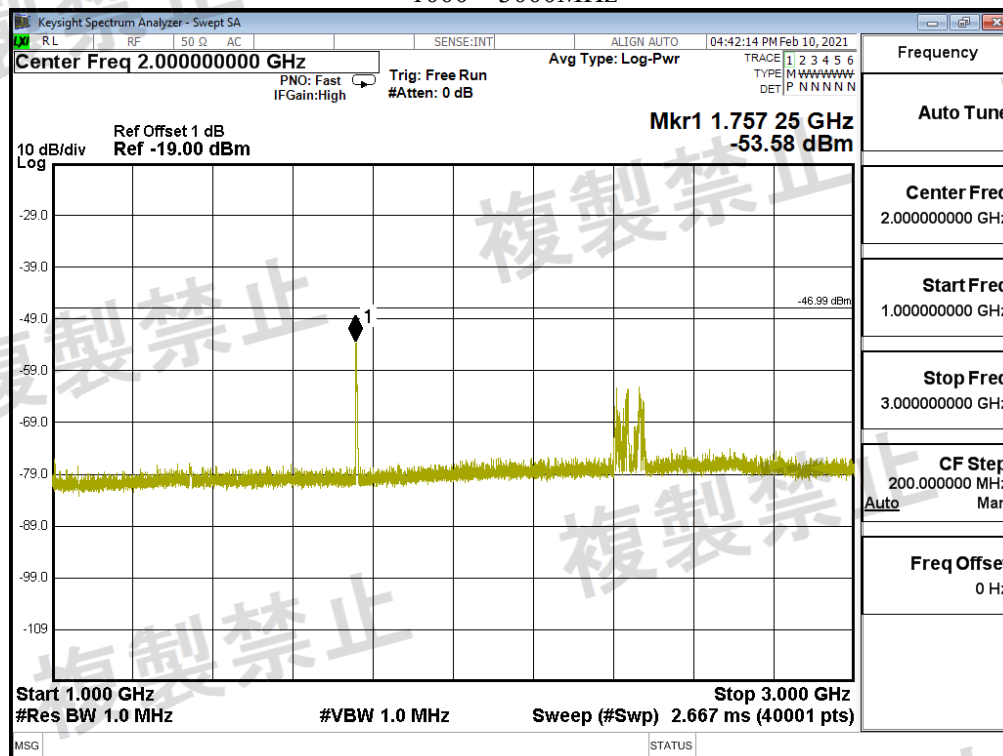
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-40BW) 5190MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-78.82	-54 (4nW)
		1000 - 3000	-53.58	-47 (20nW)
		3000 - 16000	-69.73	-47 (20nW)
		16000 - 26000	-59.42	-47 (20nW)

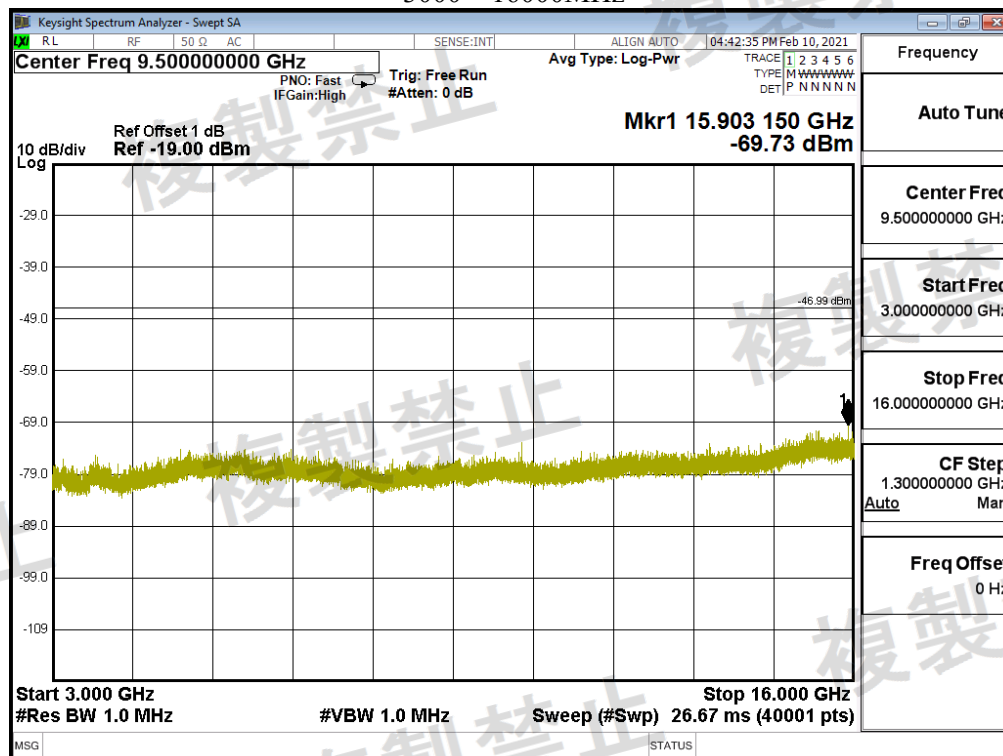
30 - 1000MHz



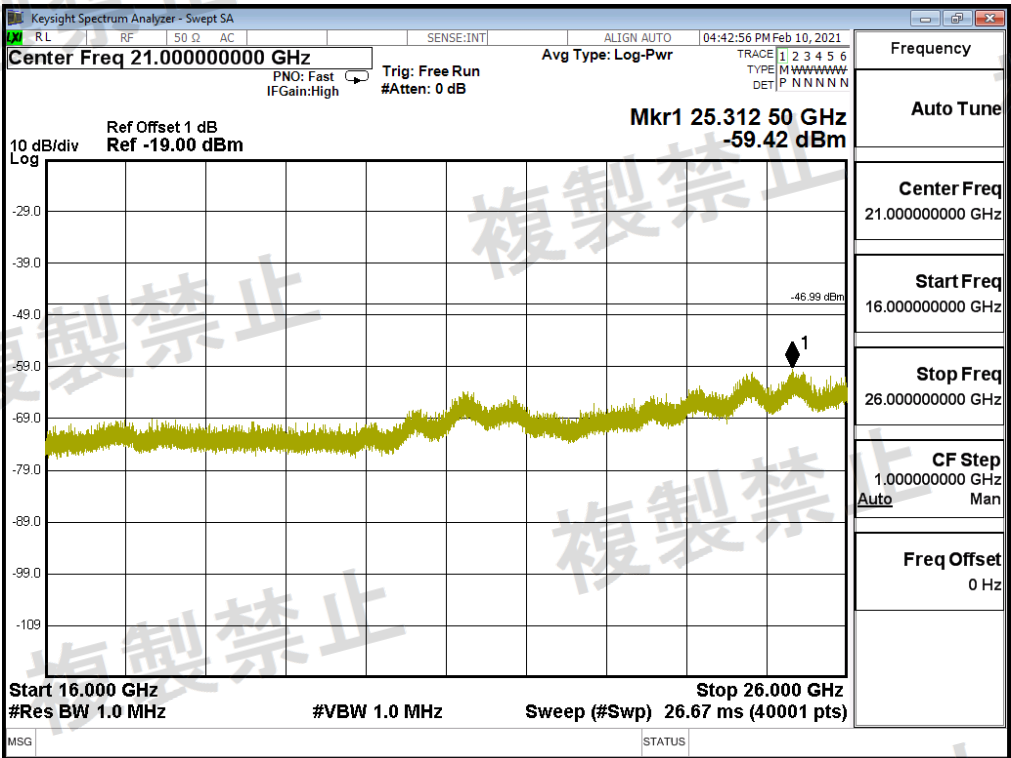
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

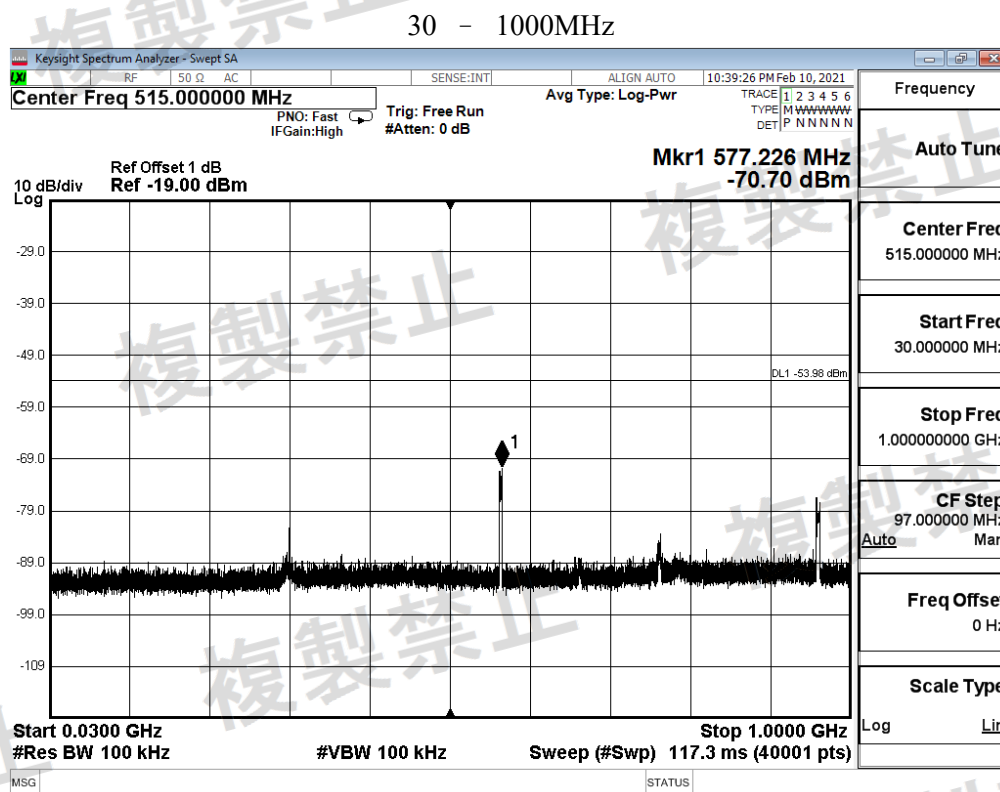


Test Result

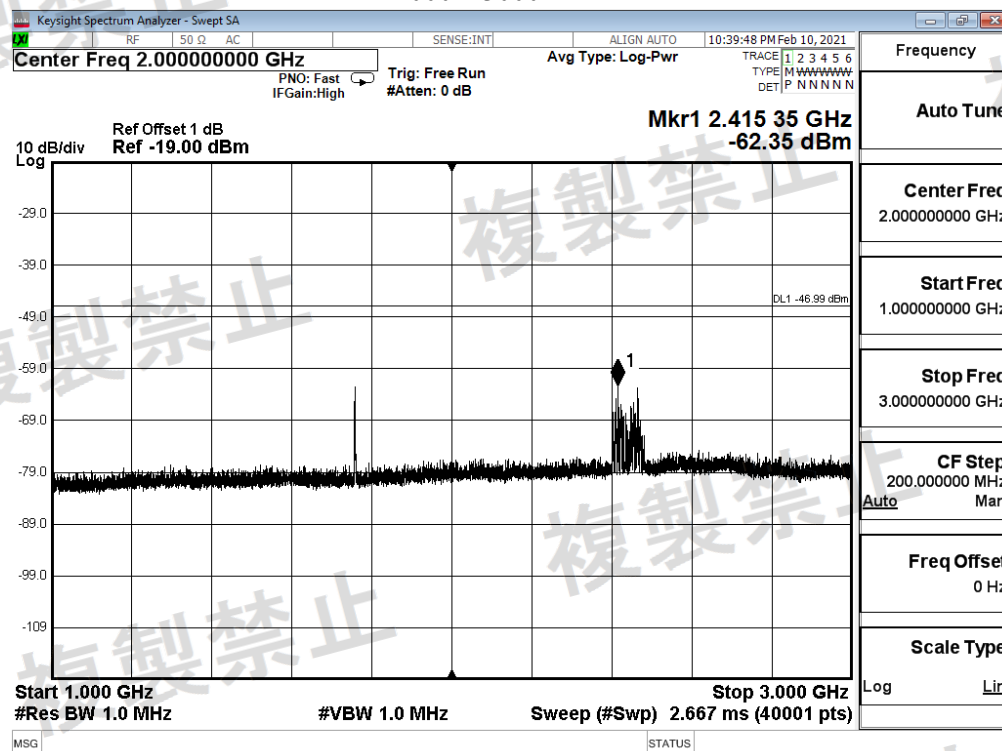
PASS

Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-40BW) 5190MHz_Chain B (Dipole) (Panel)

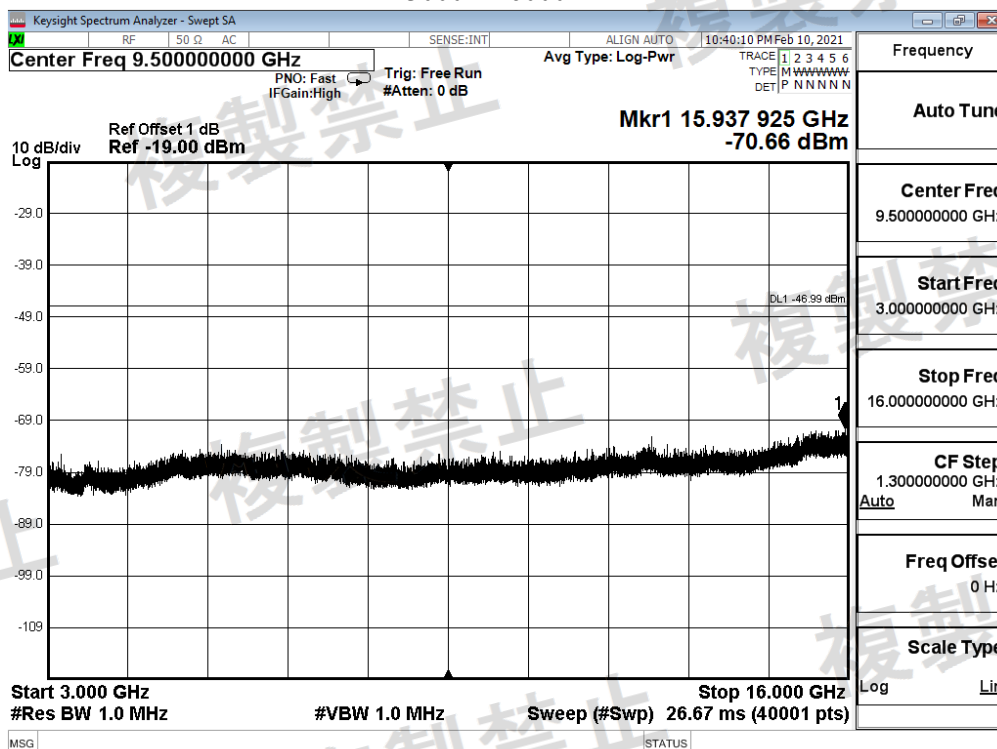
Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.70	-54 (4nW)
		1000 - 3000	-62.35	-47 (20nW)
		3000 - 16000	-70.66	-47 (20nW)
		16000 - 26000	-60.48	-47 (20nW)



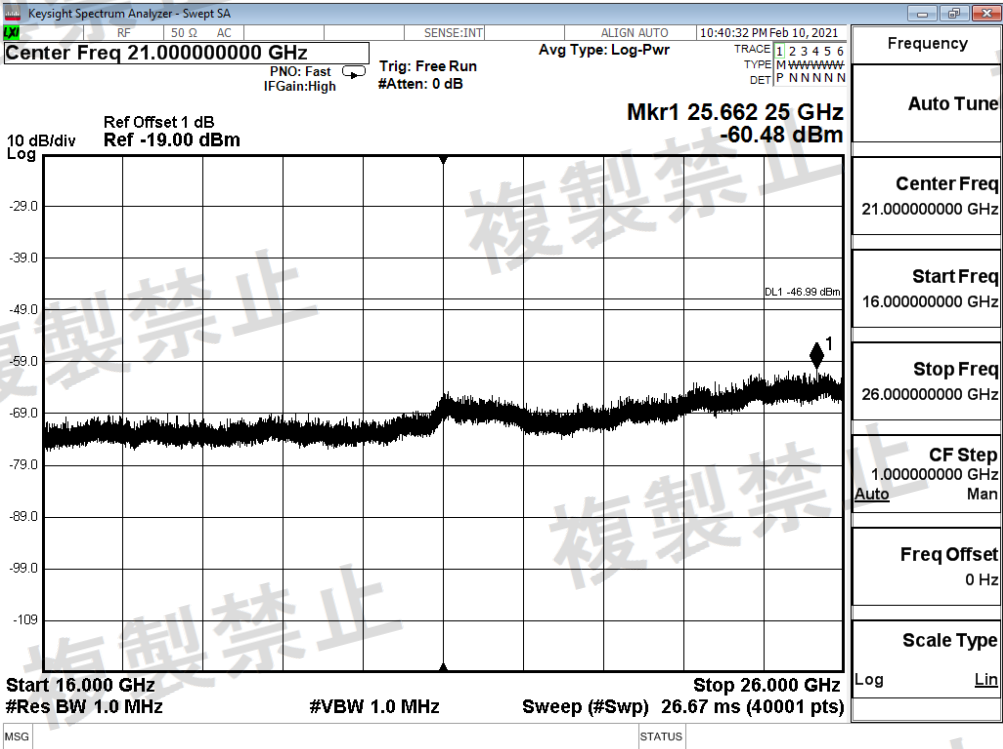
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz



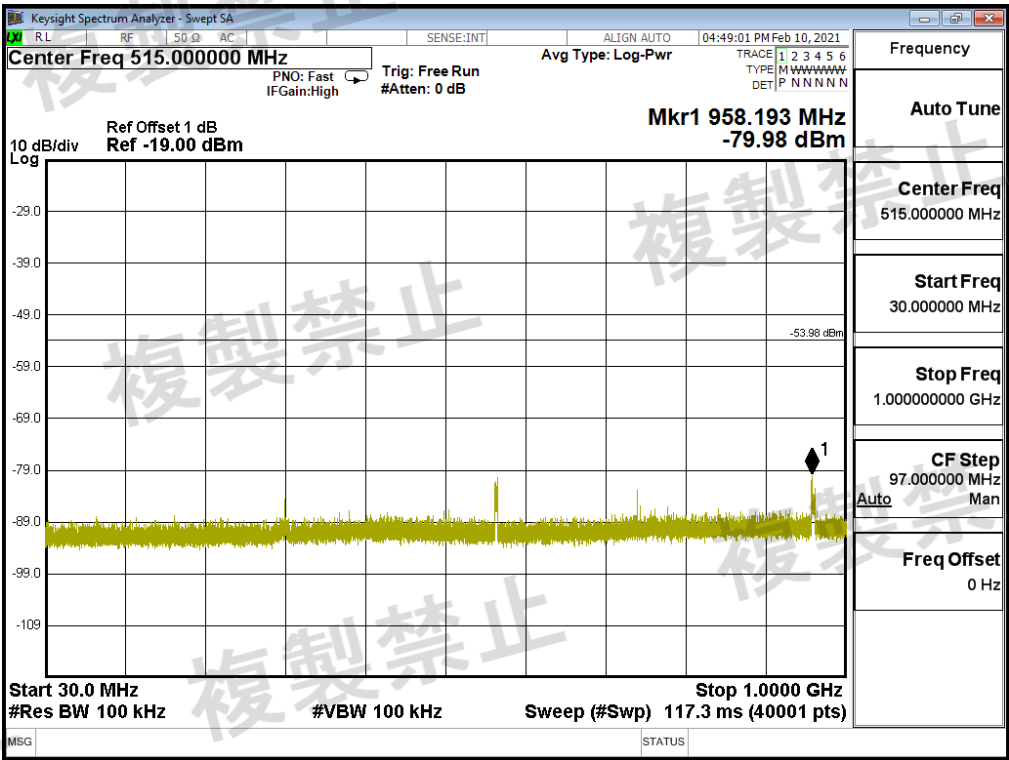
Test Result

PASS

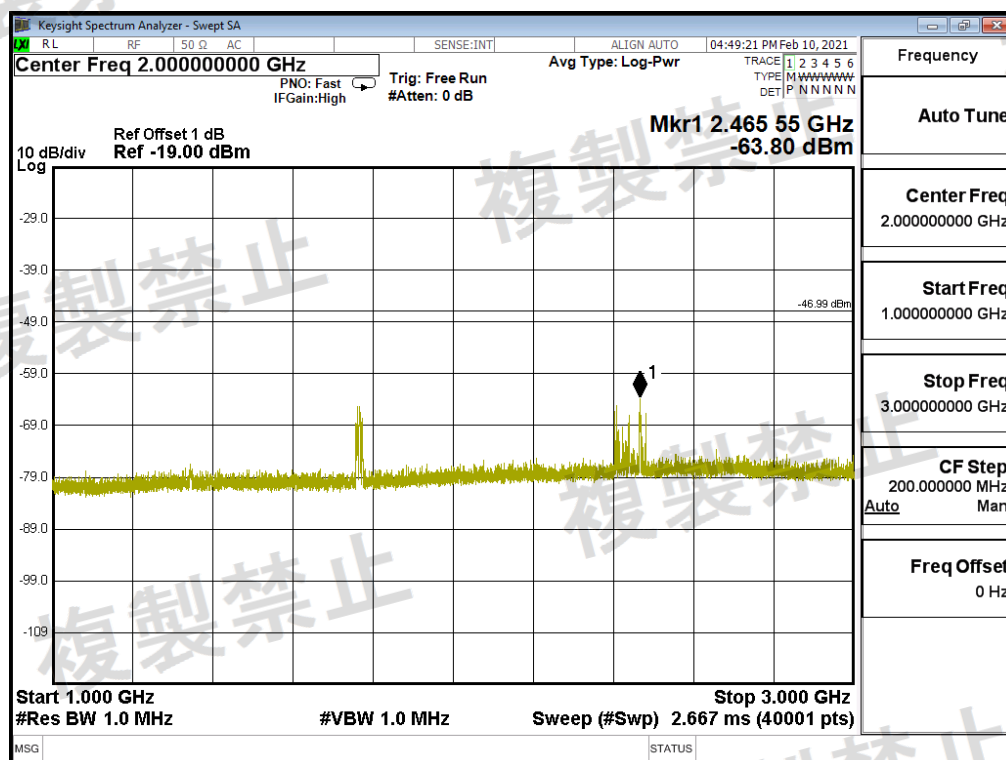
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-40BW) 5230MHz_Chain A (Dipole) (Panel)

ChainA			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

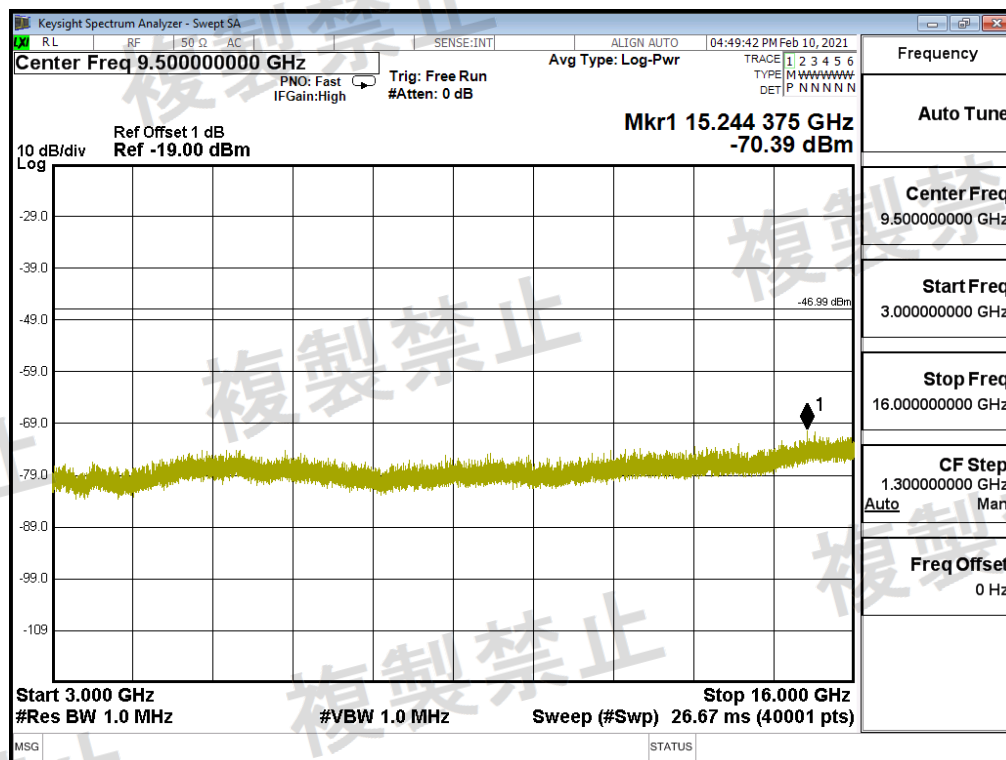
30 - 1000MHz



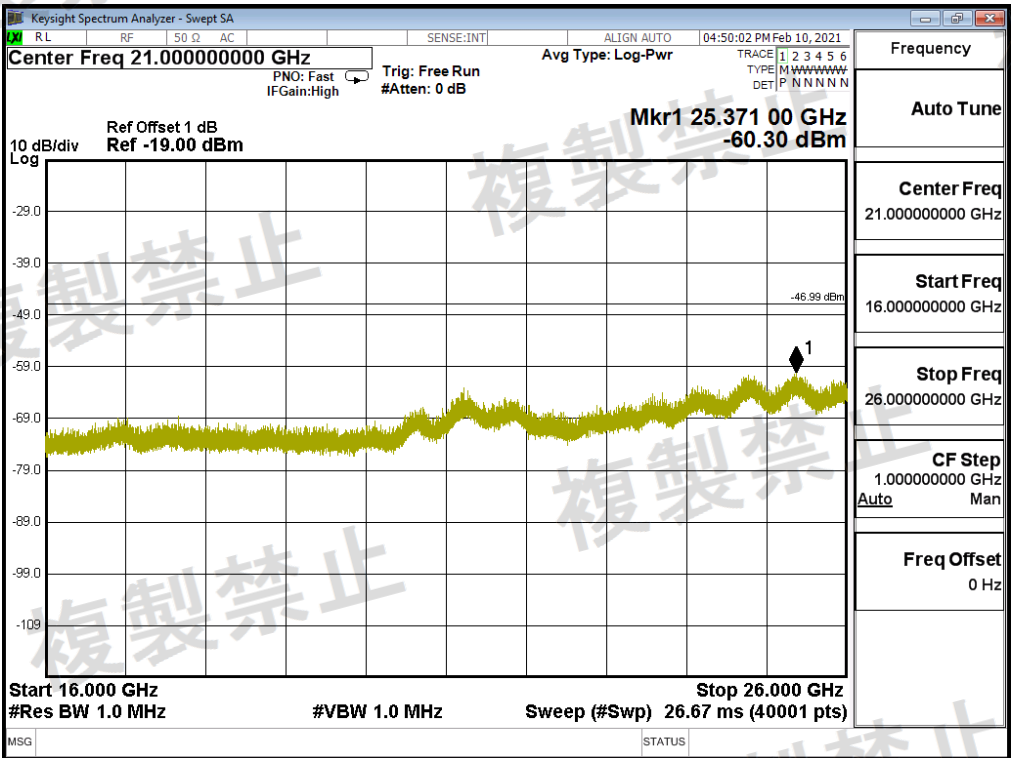
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

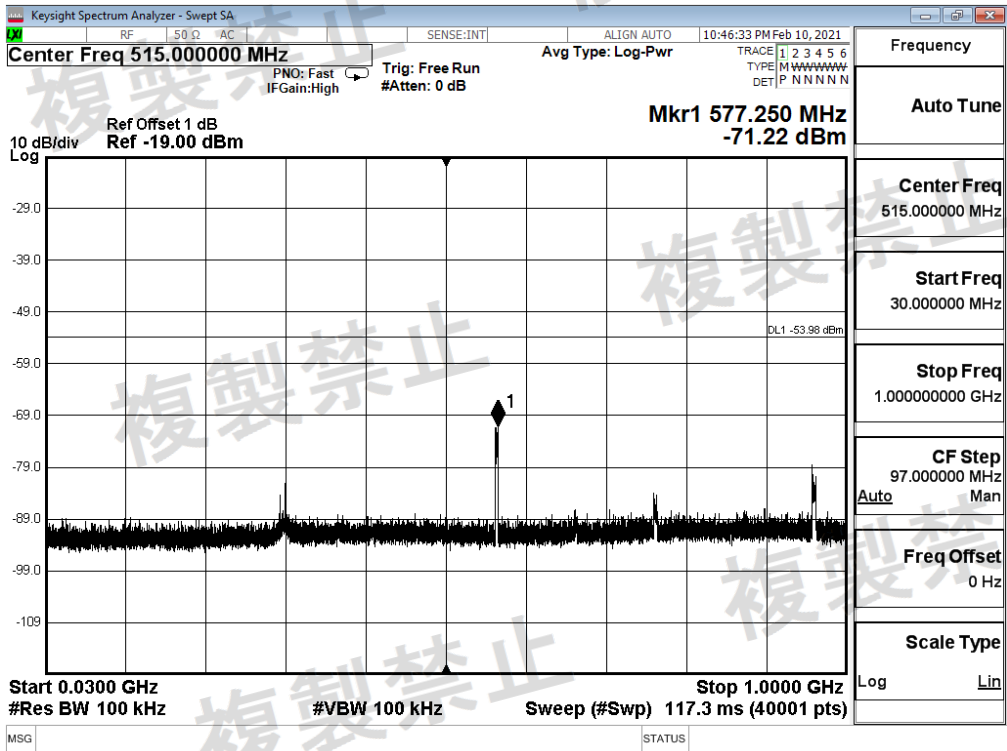


Test Result	PASS
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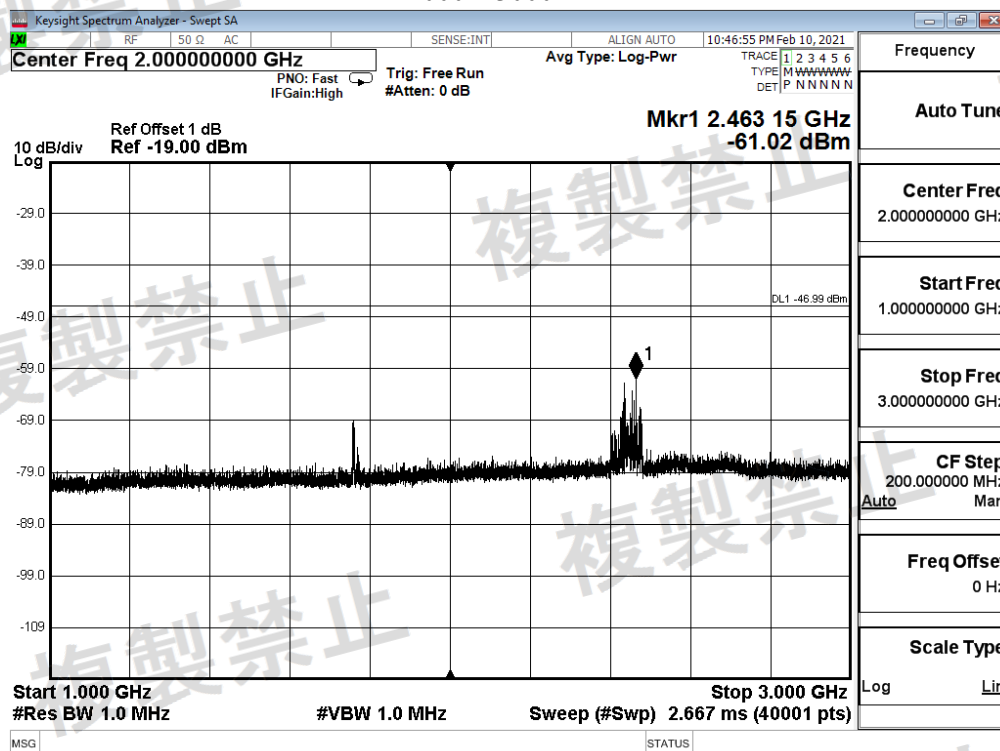
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-40BW) 5230MHz_Chain B (Dipole) (Panel)

Chain B			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

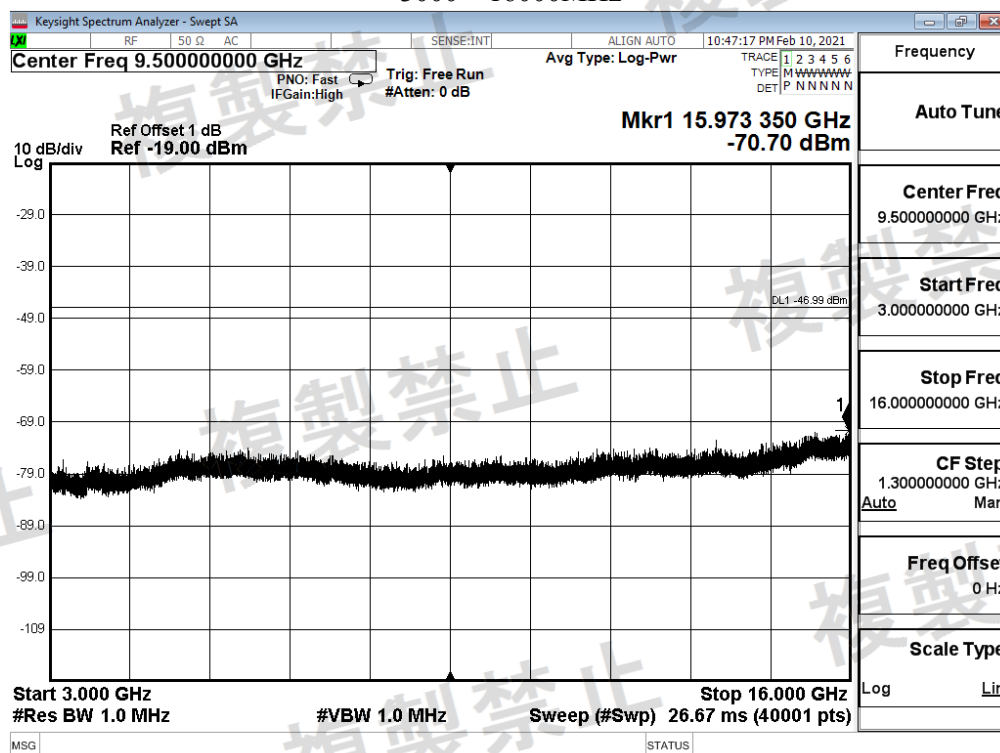
30 - 1000MHz



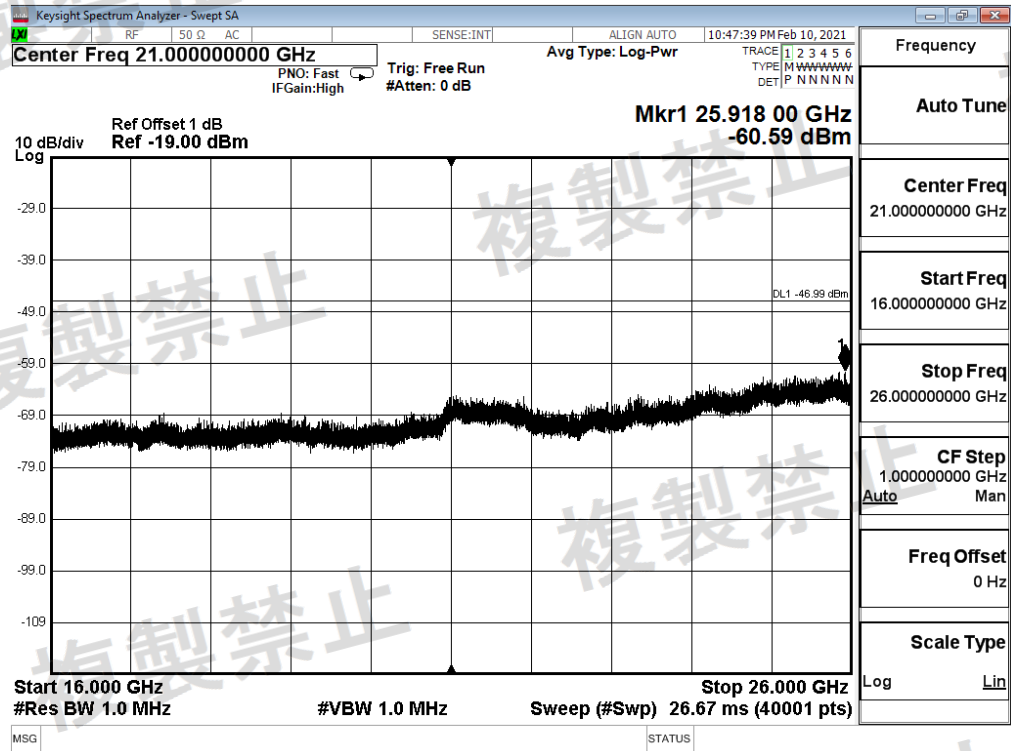
1000 – 3000MHz



3000 – 16000MHz

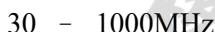


16000 – 26000MHz

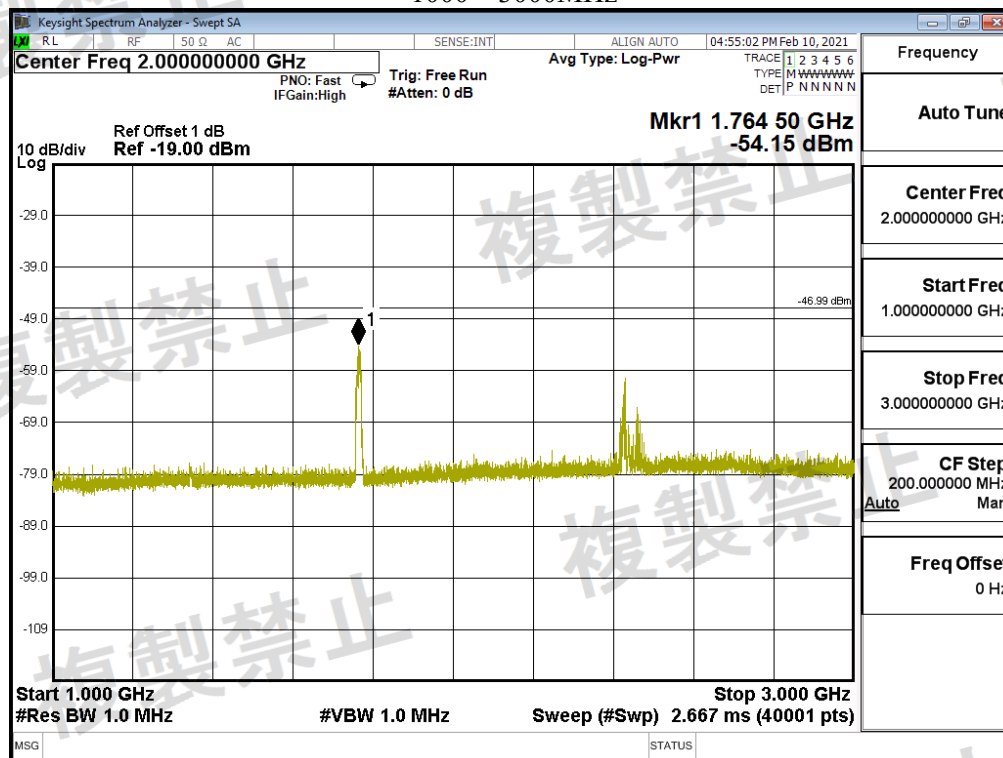


Test Result	PASS
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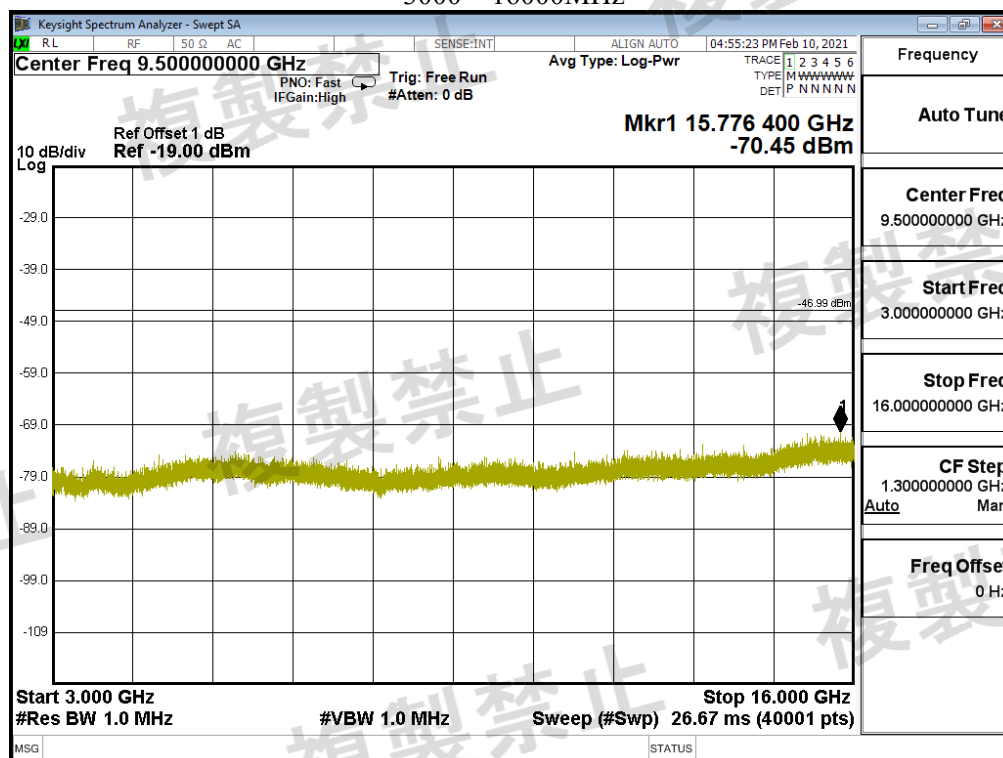
Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 – 1000	-80.34	-54 (4nW)
		1000 – 3000	-54.15	-47 (20nW)
		3000 – 16000	-70.45	-47 (20nW)
		16000 – 26000	-60.05	-47 (20nW)



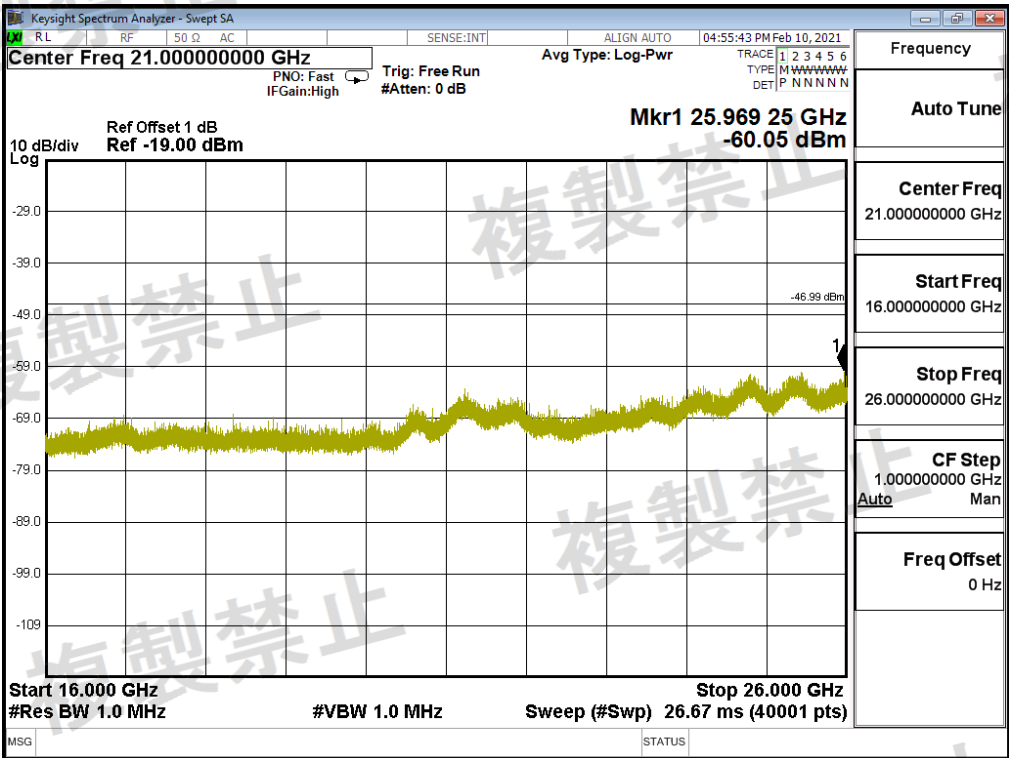
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

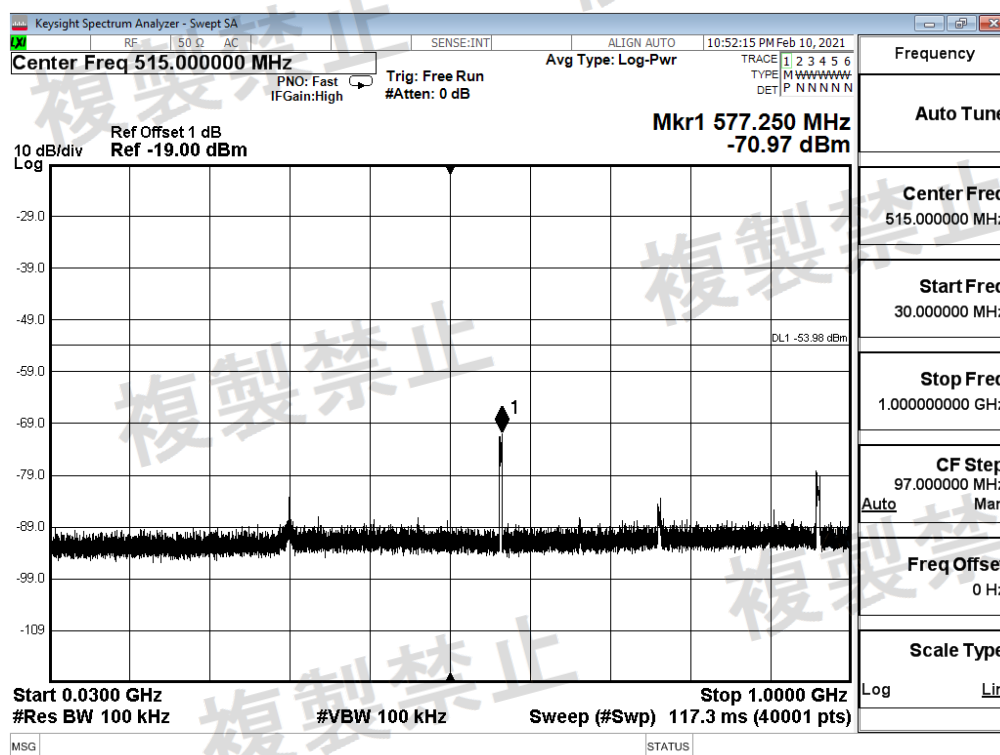


Test Result	PASS
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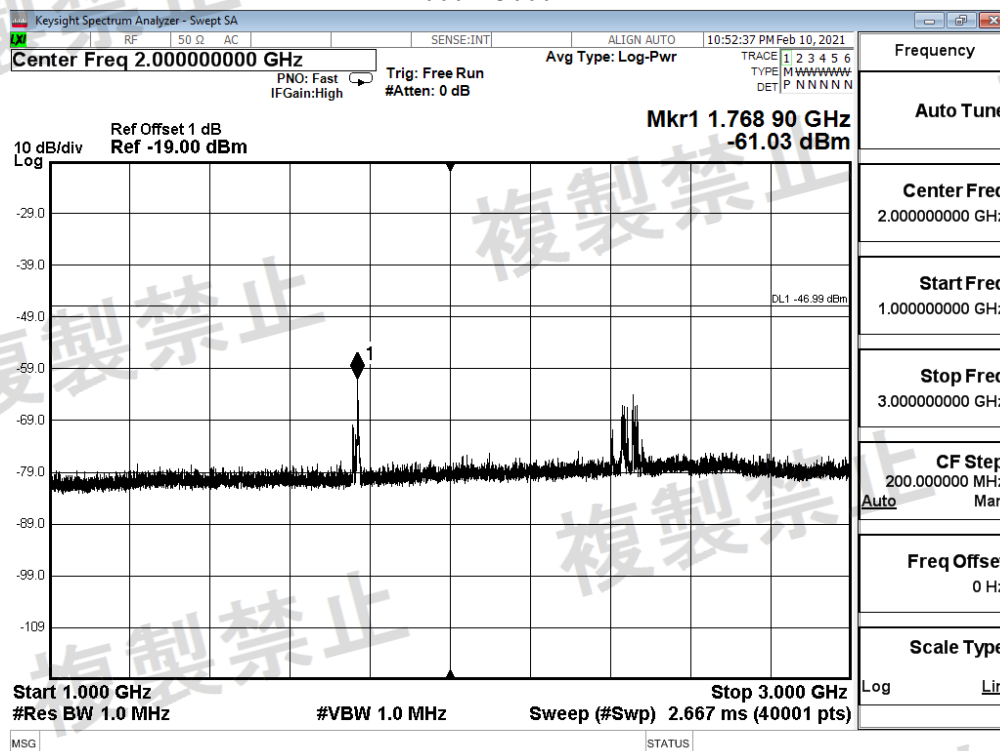
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-40BW) 5270MHz_Chain B (Dipole) (Panel)

Chain B			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

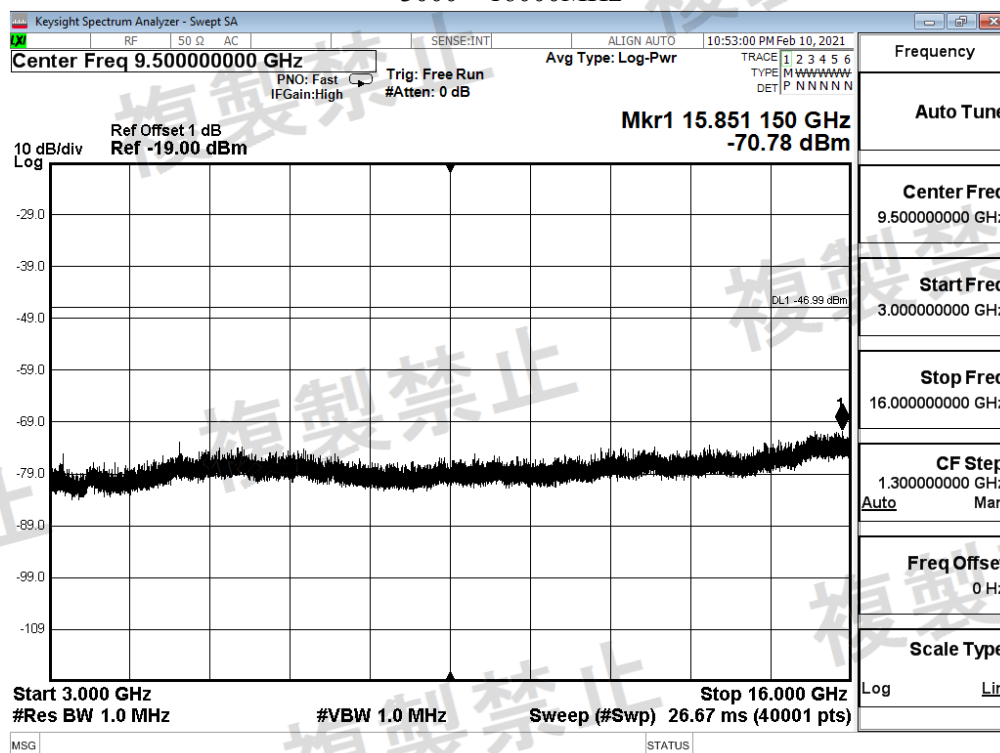
30 - 1000MHz



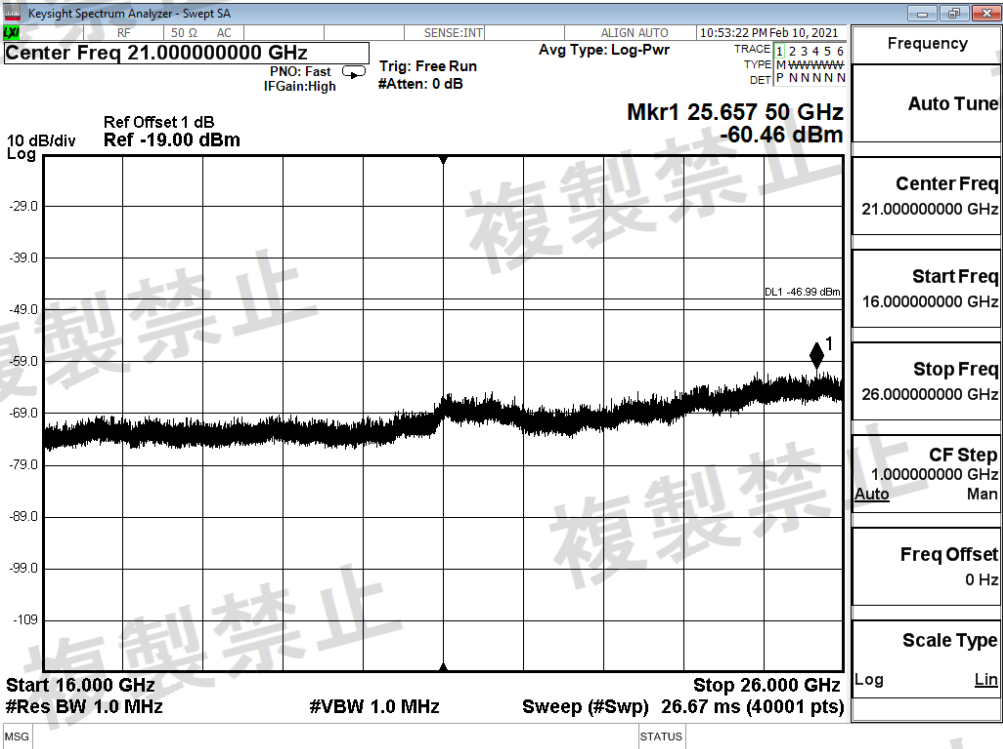
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

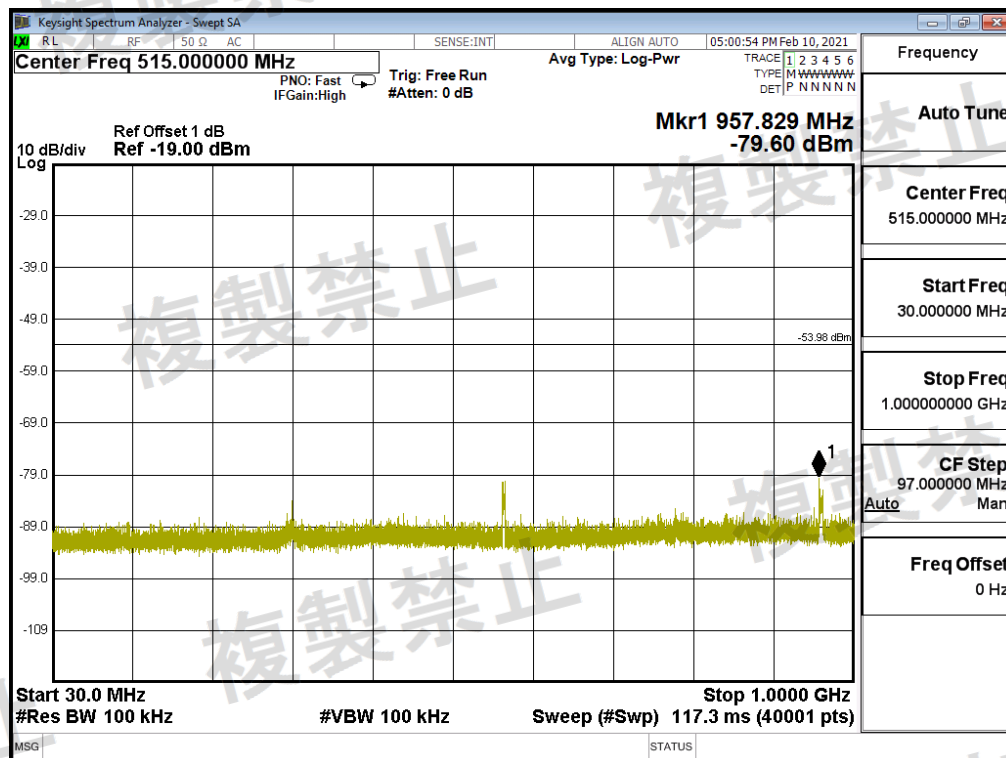


Test Result	PASS
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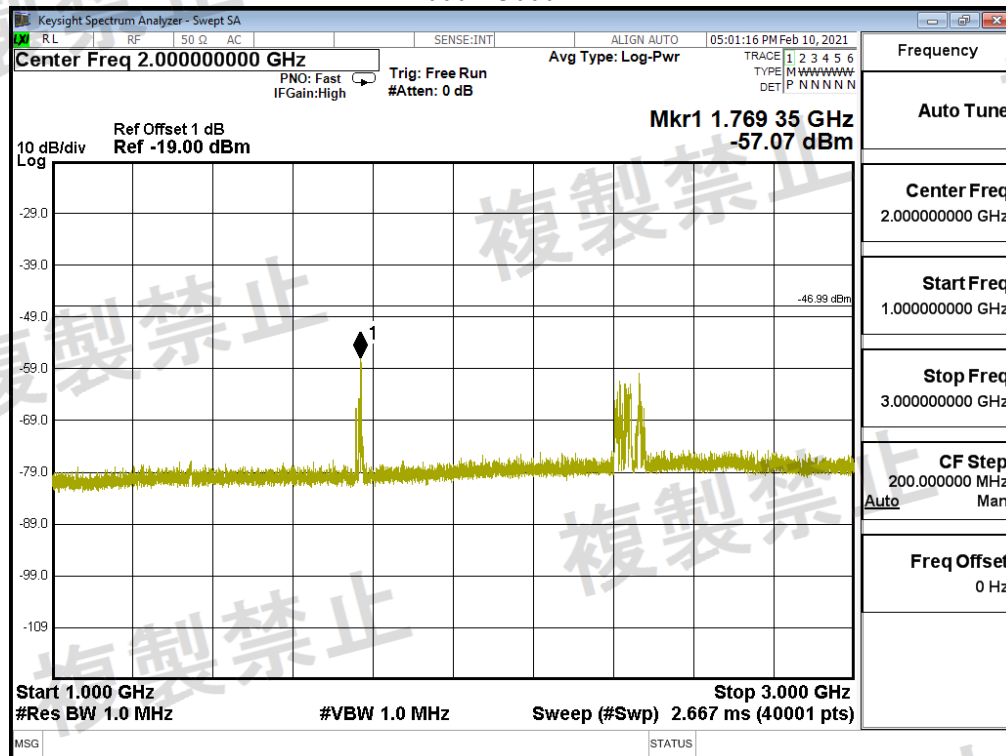
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-40BW) 5310MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-79.60	-54 (4nW)
		1000 - 3000	-57.07	-47 (20nW)
		3000 - 16000	-70.93	-47 (20nW)
		16000 - 26000	-60.16	-47 (20nW)

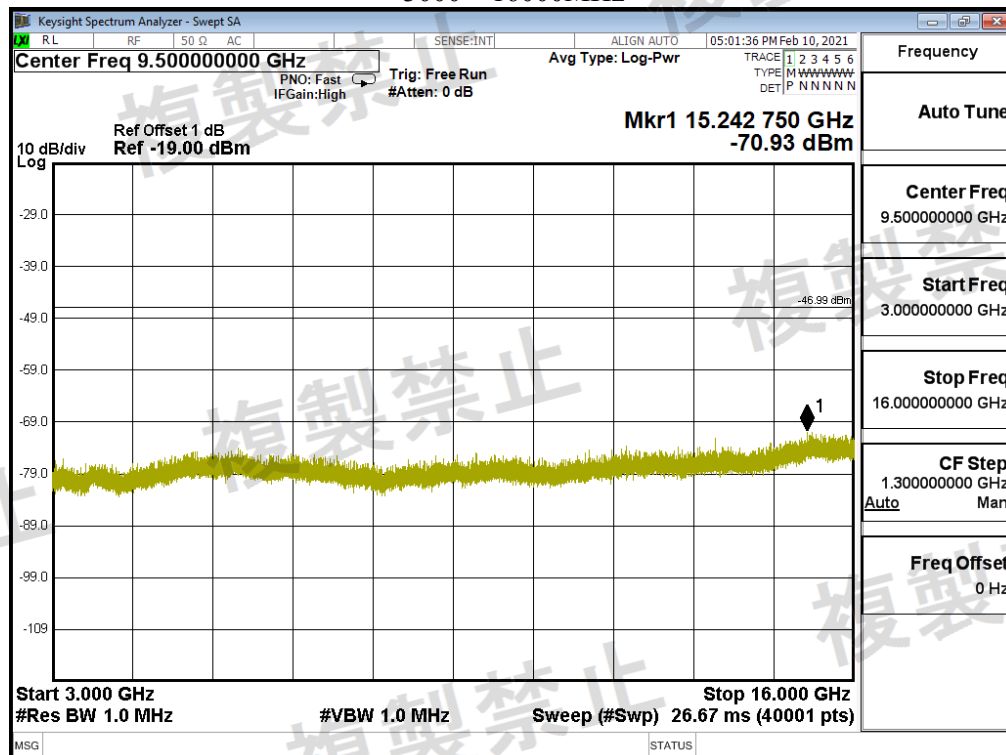
30 - 1000MHz



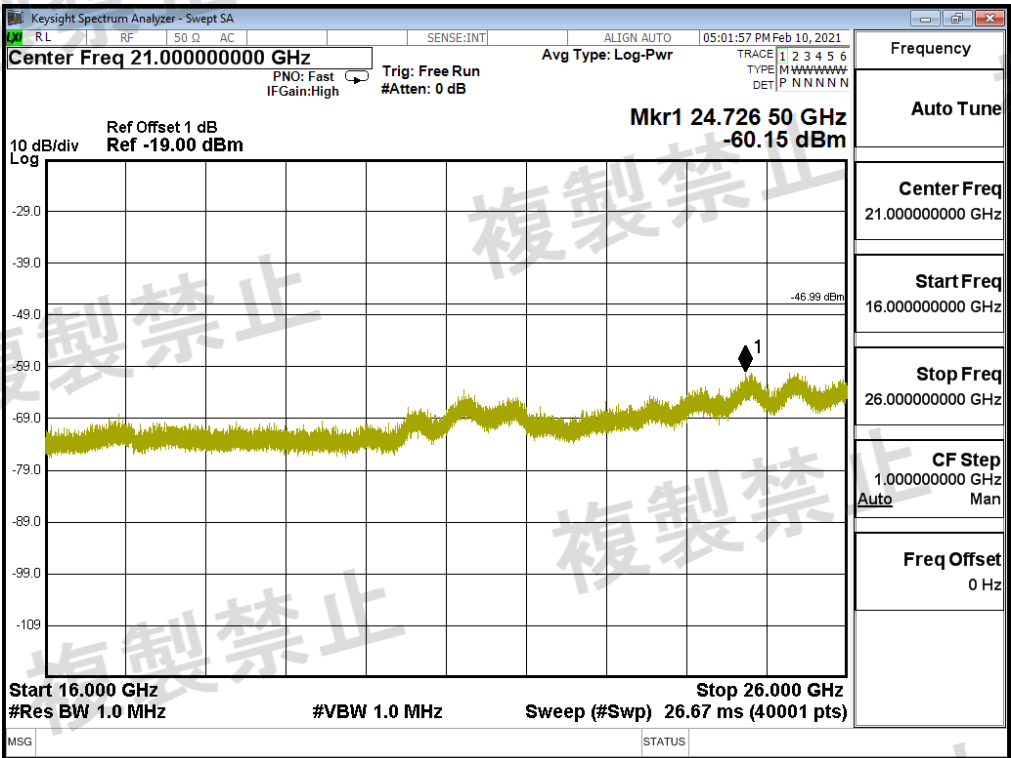
1000 – 3000MHz



3000 – 16000MHz



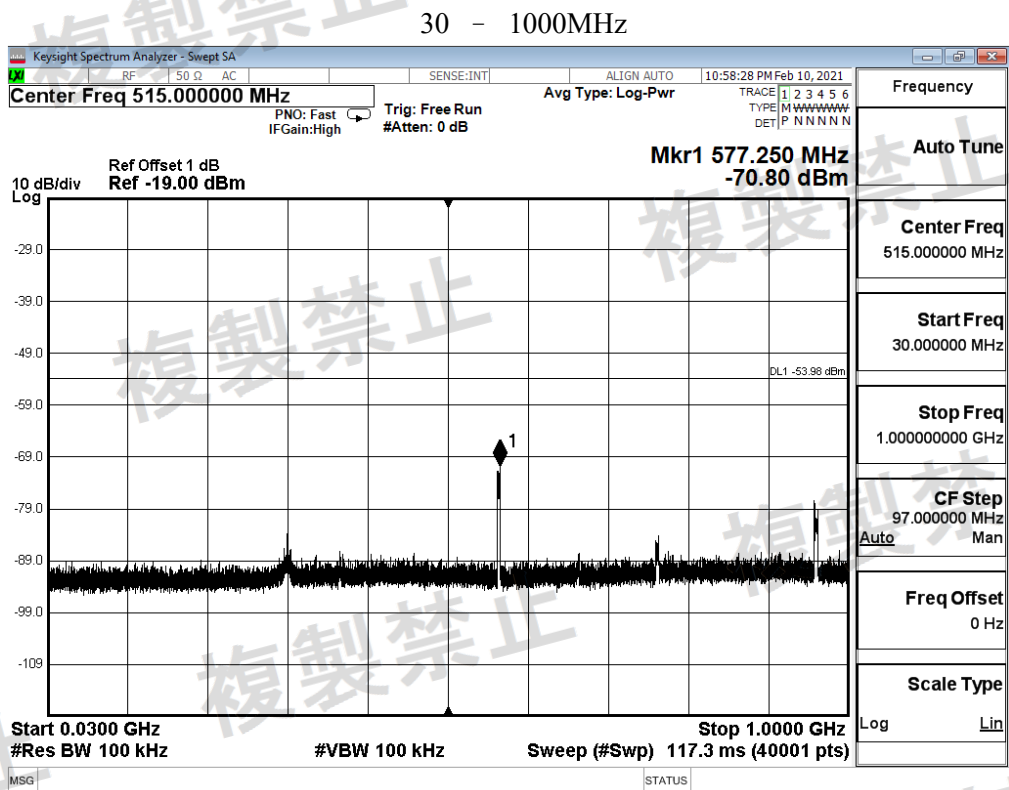
16000 – 26000MHz



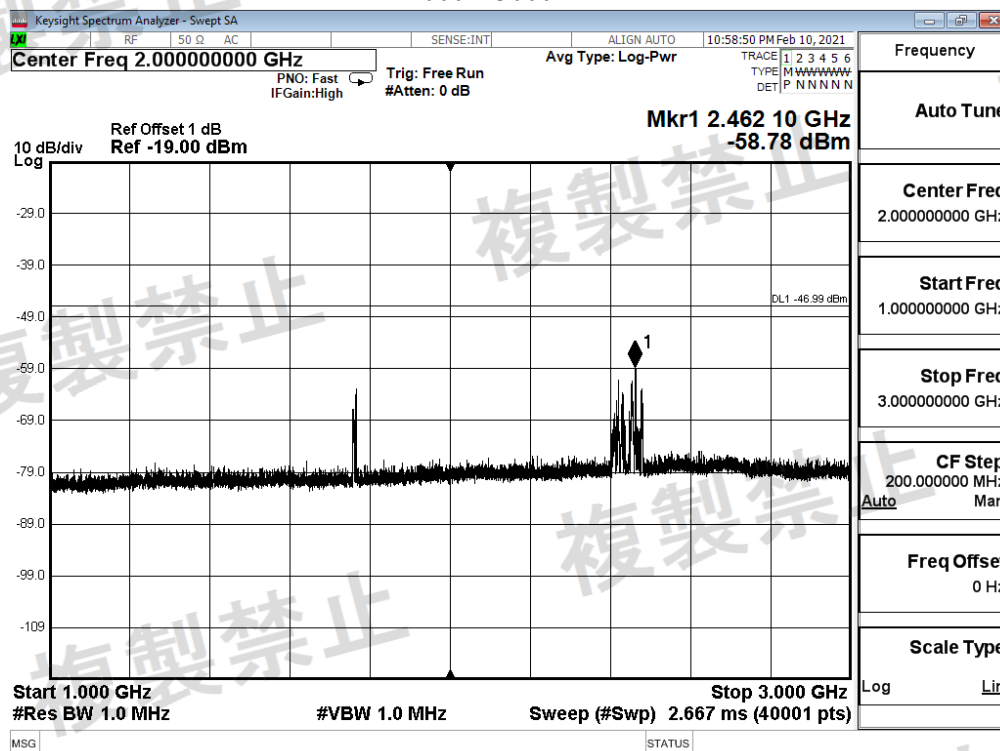
Test Result	PASS
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Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-40BW) 5310MHz_Chain B (Dipole) (Panel)

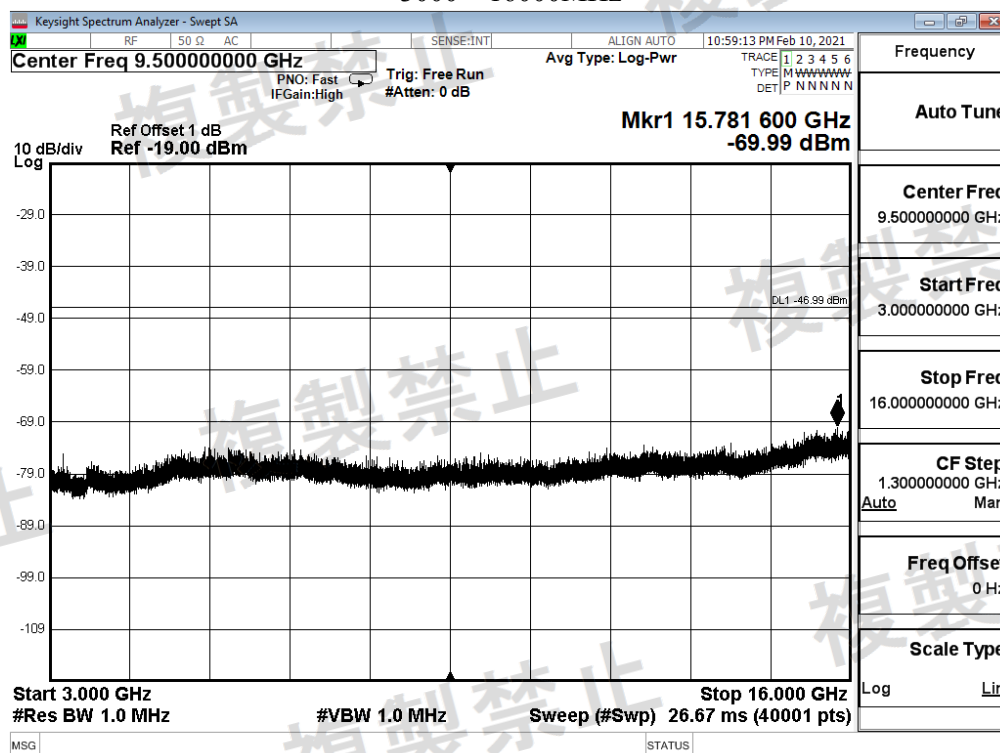
Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.80	-54 (4nW)
		1000 - 3000	-58.78	-47 (20nW)
		3000 - 16000	-69.99	-47 (20nW)
		16000 - 26000	-60.51	-47 (20nW)



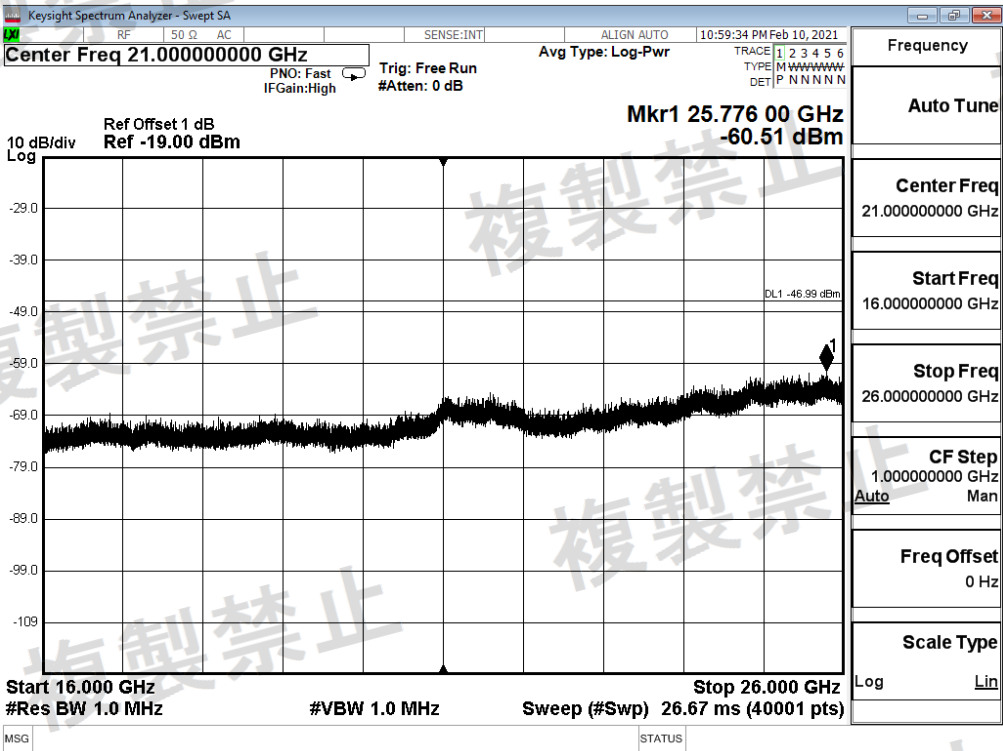
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

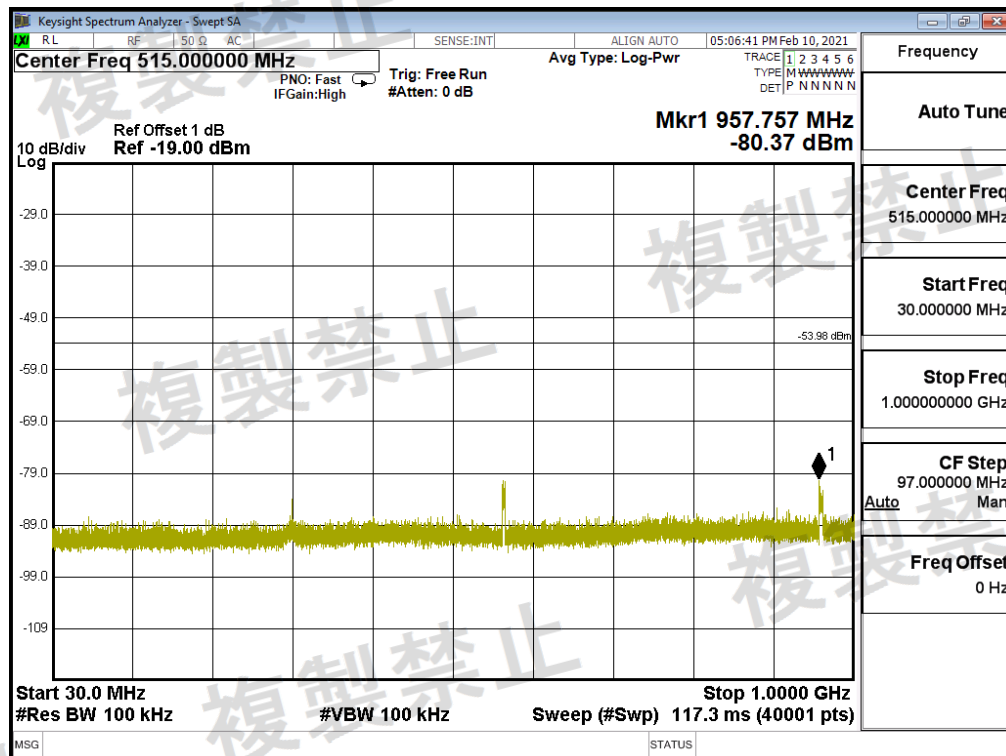


Test Result	PASS
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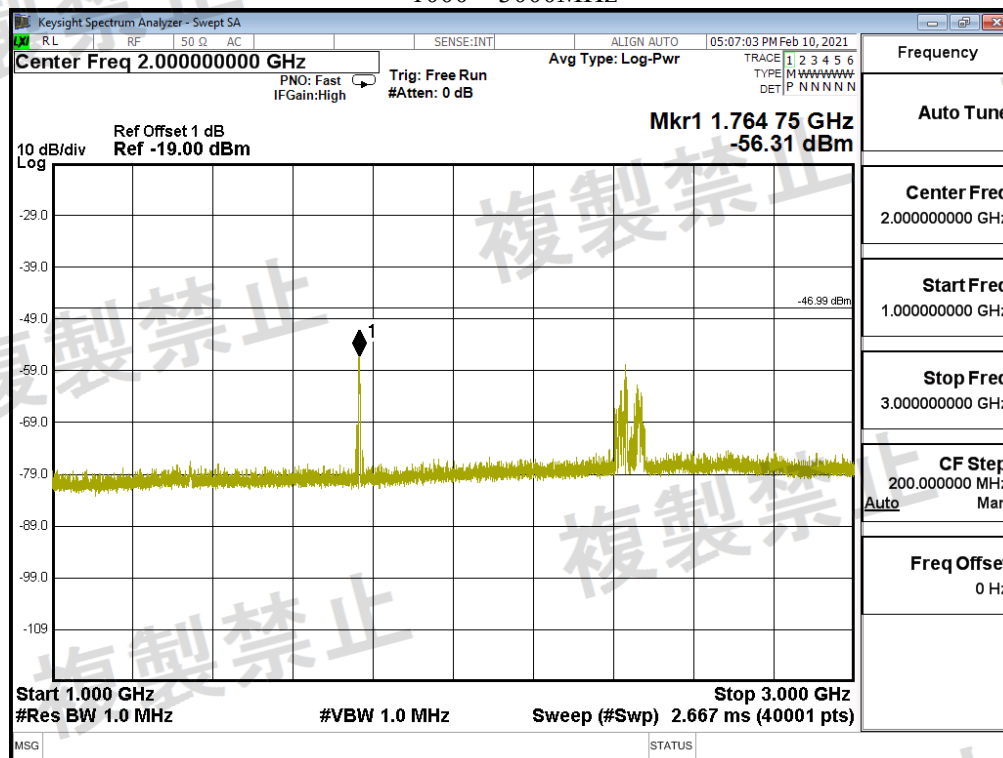
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-40BW) 5510MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 – 1000	-80.37	-54 (4nW)
		1000 – 3000	-56.31	-47 (20nW)
		3000 – 16000	-70.22	-47 (20nW)
		16000 – 26000	-59.96	-47 (20nW)

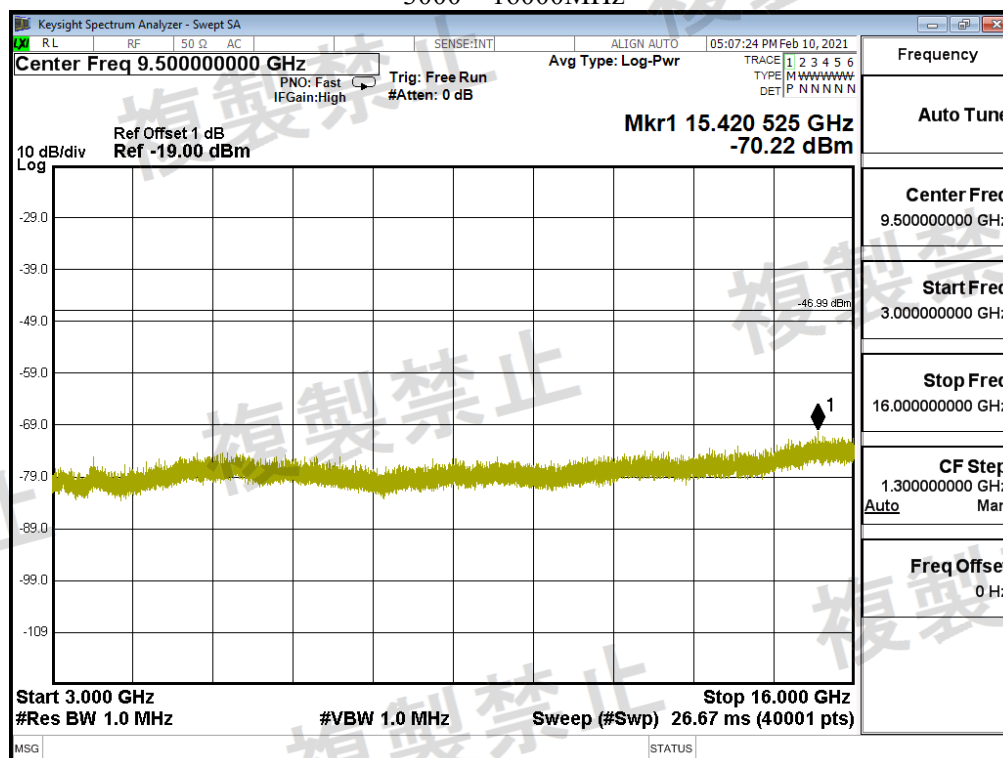
30 - 1000MHz



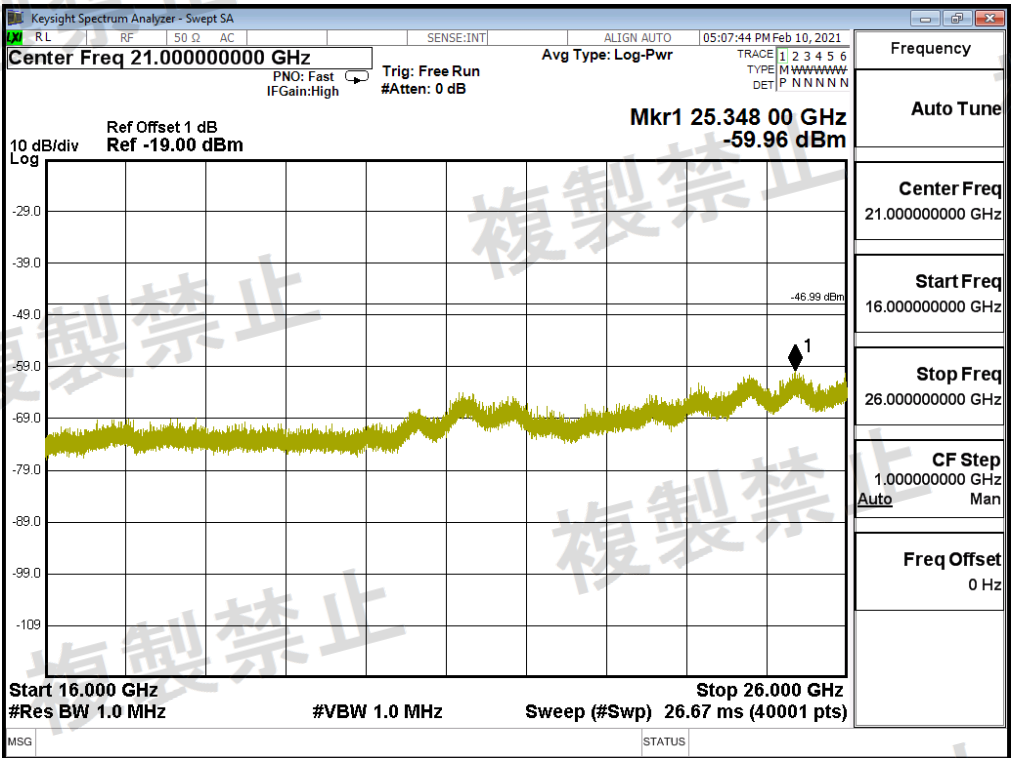
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

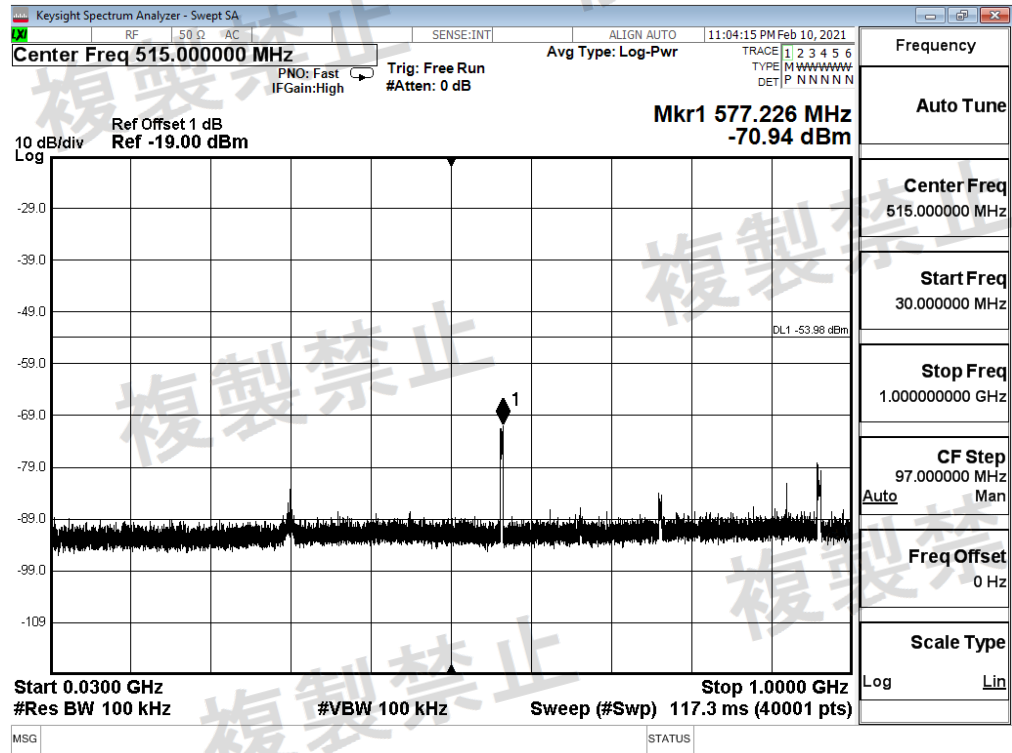


Test Result	PASS
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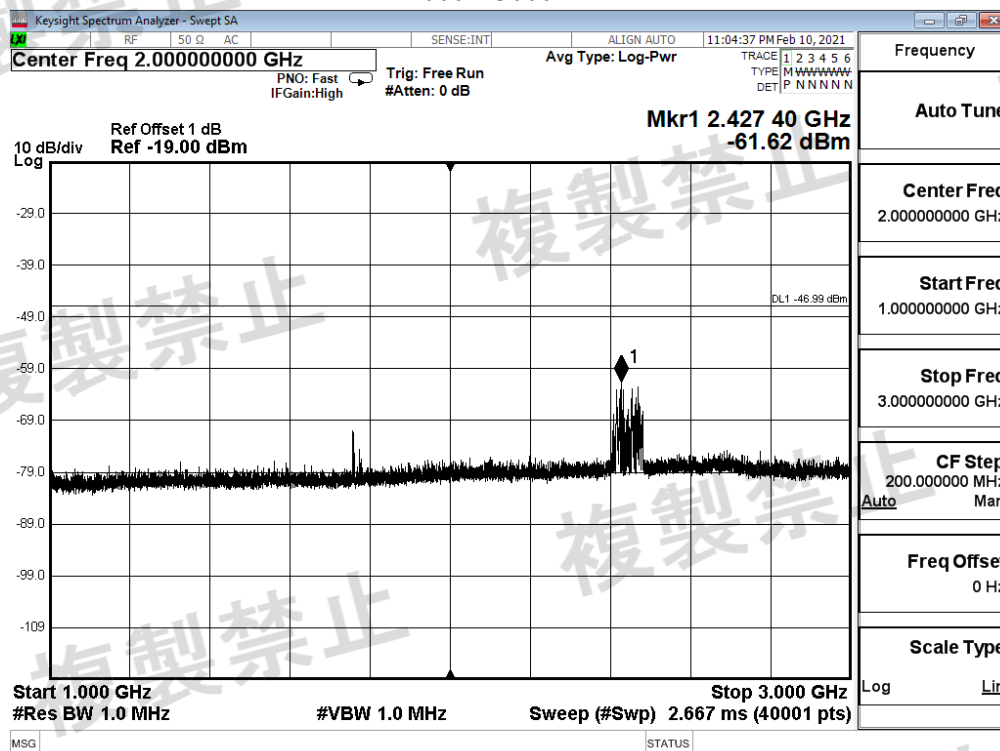
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-40BW) 5510MHz_Chain B (Dipole) (Panel)

Chain B			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

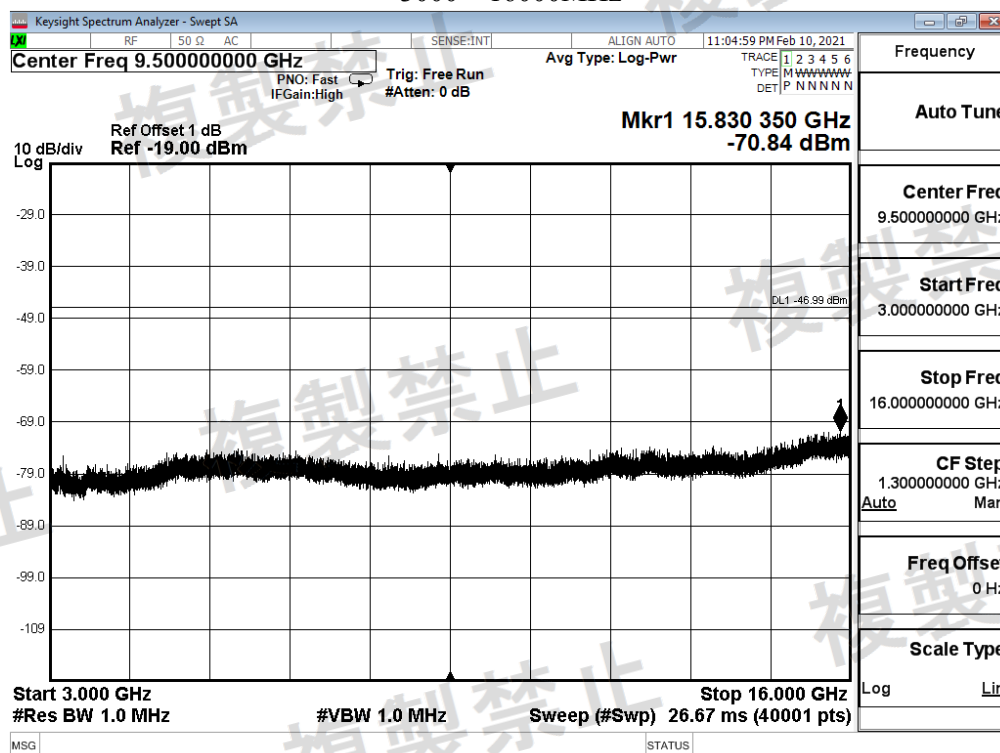
30 - 1000MHz



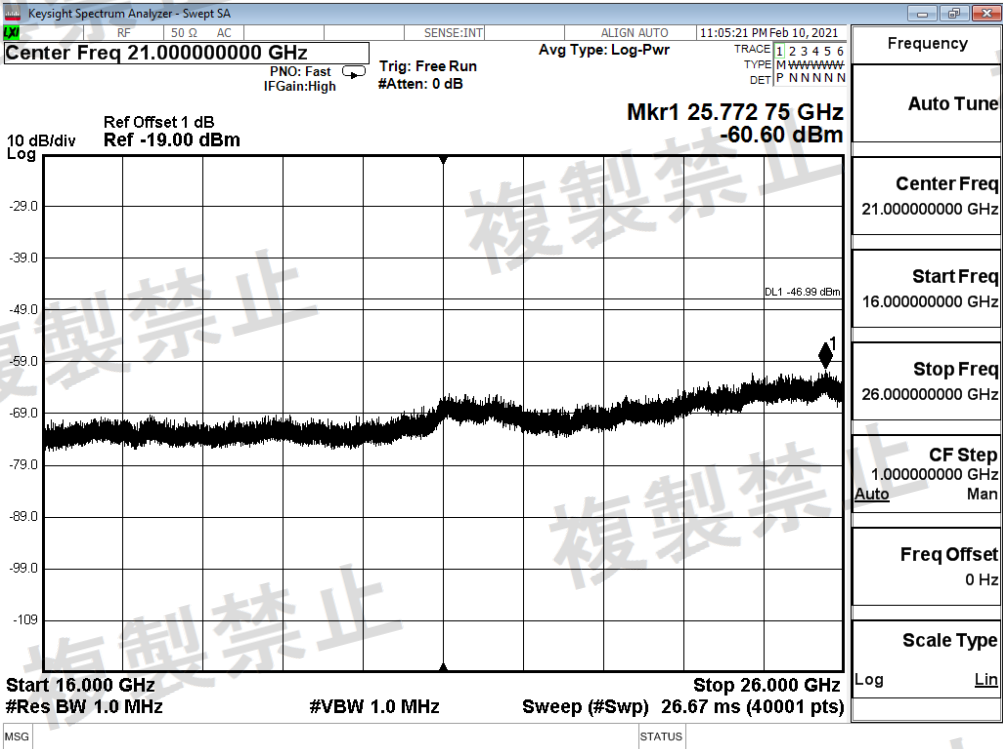
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

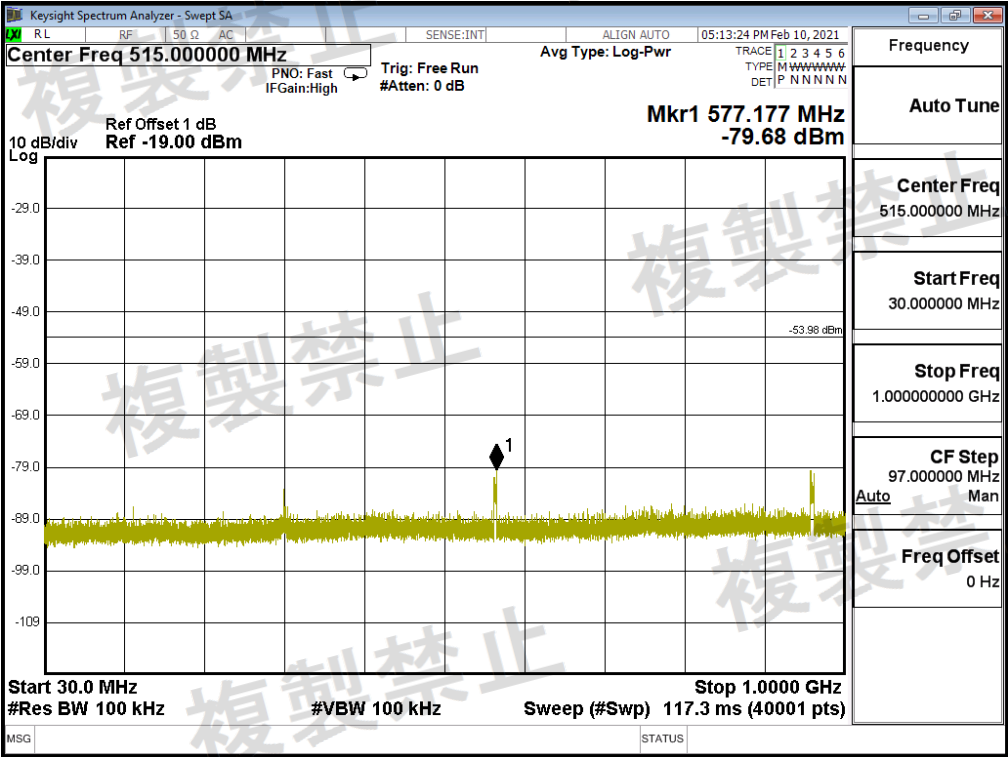


Test Result	PASS
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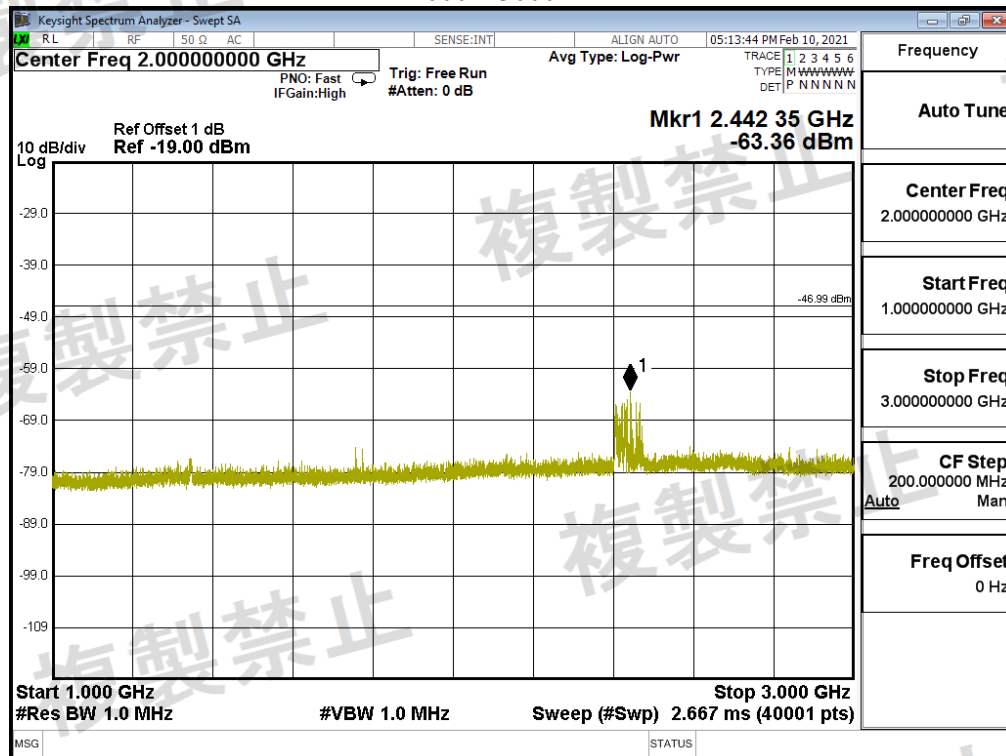
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-40BW) 5590MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

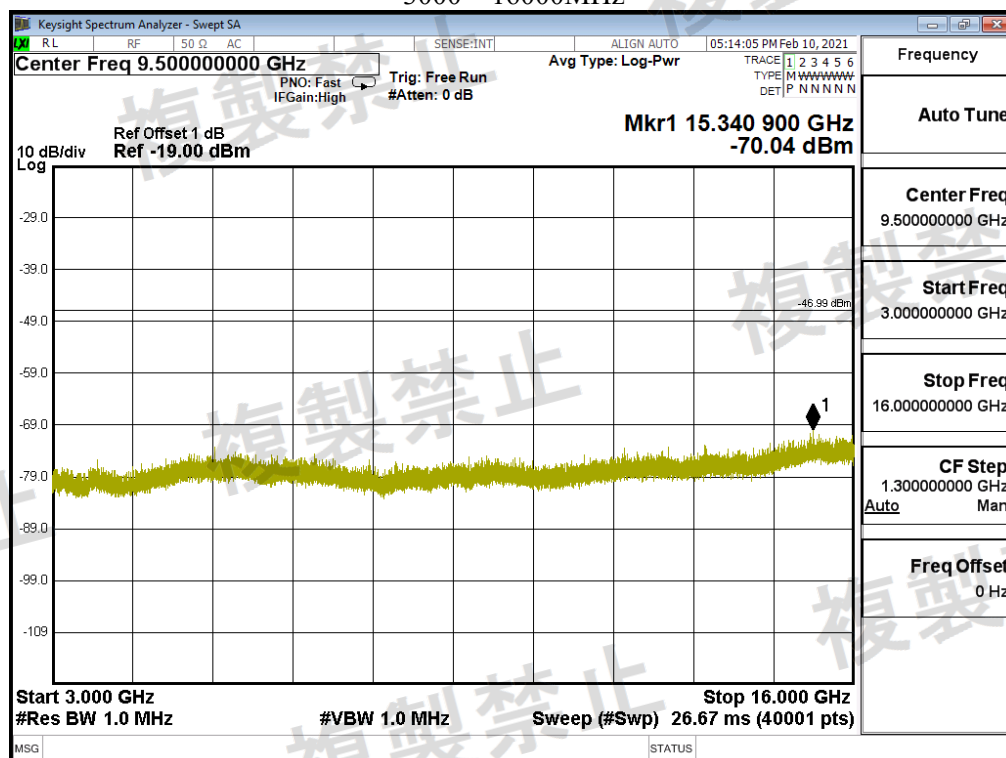
30 - 1000MHz



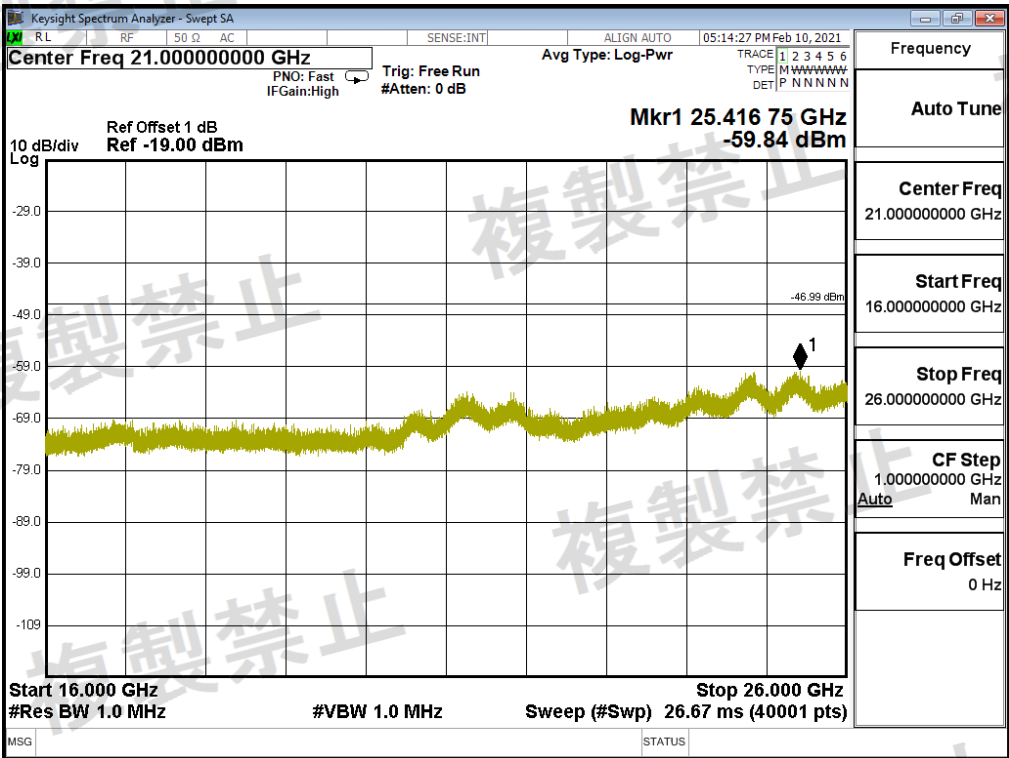
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

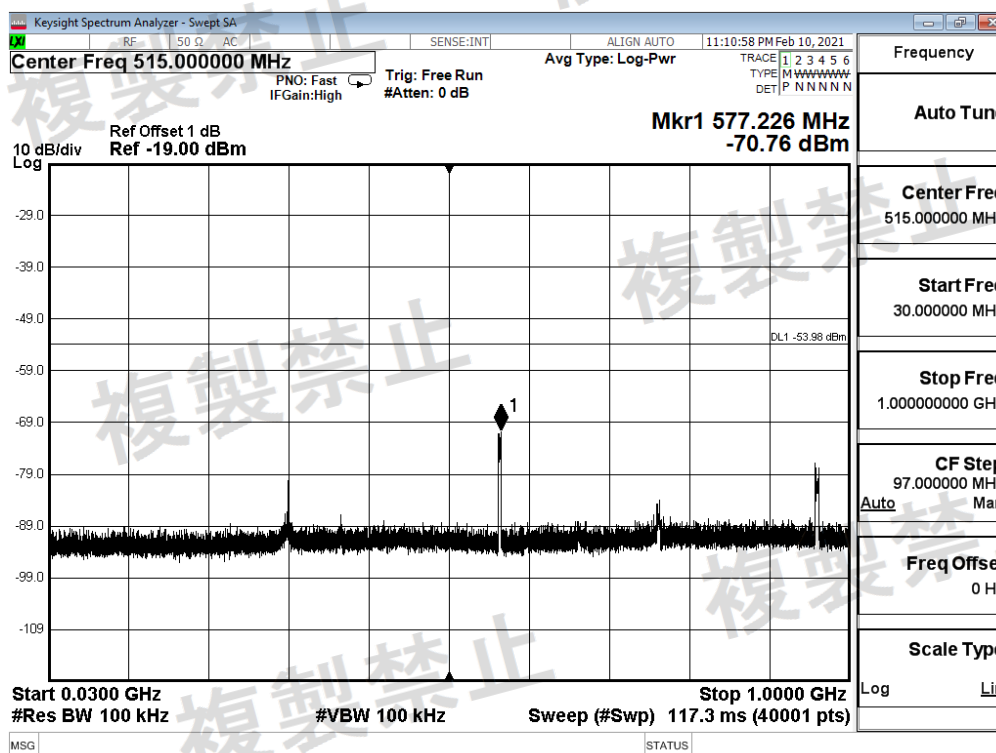


Test Result	PASS
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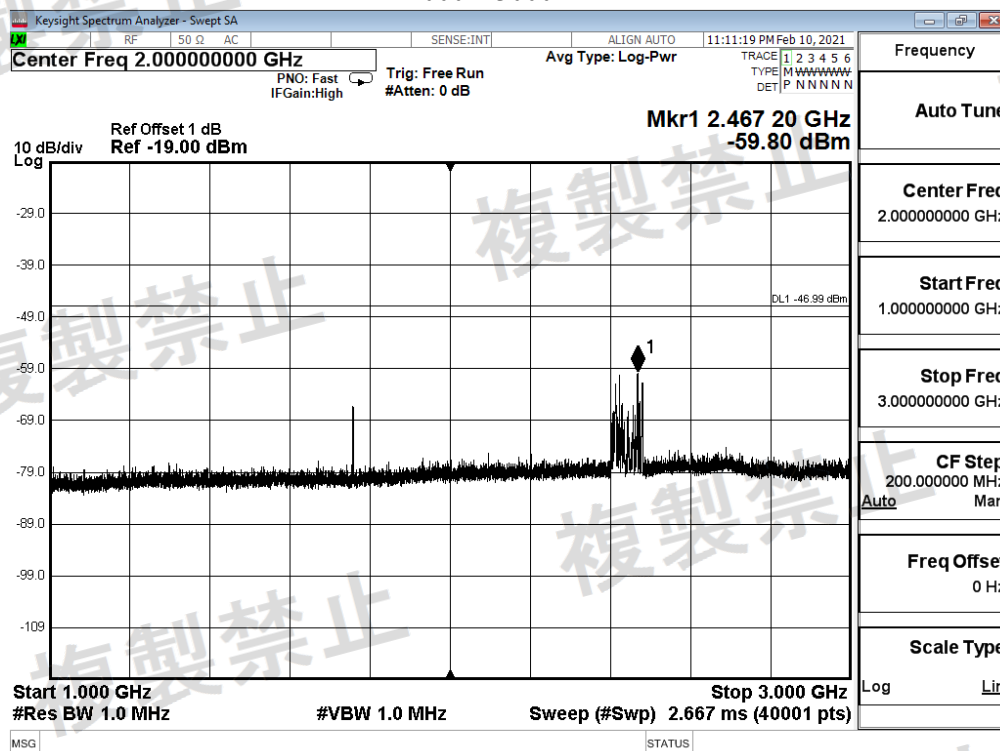
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-40BW) 5590MHz_Chain B (Dipole) (Panel)

Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.76	-54 (4nW)
		1000 – 3000	-59.80	-47 (20nW)
		3000 – 16000	-70.59	-47 (20nW)
		16000 – 26000	-60.48	-47 (20nW)

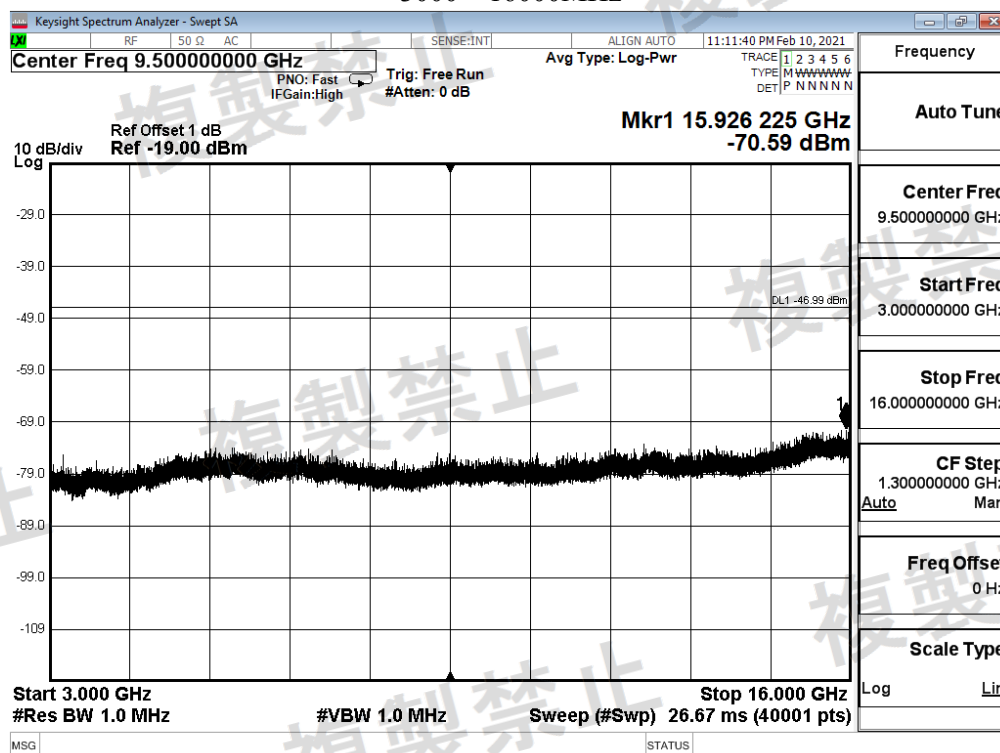
30 - 1000MHz



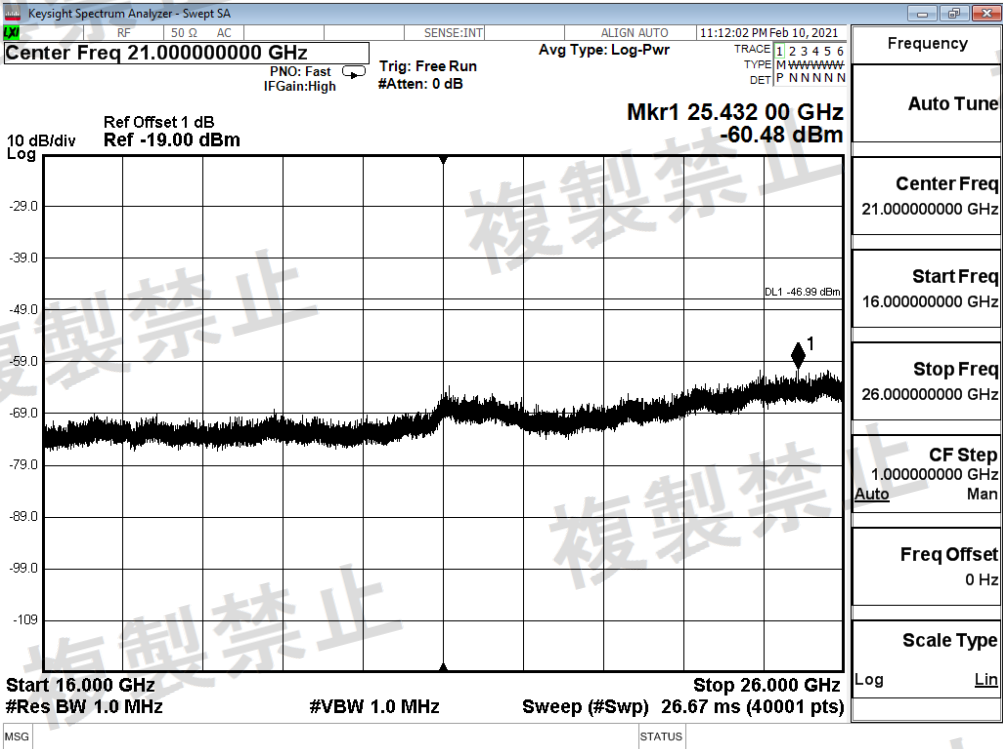
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

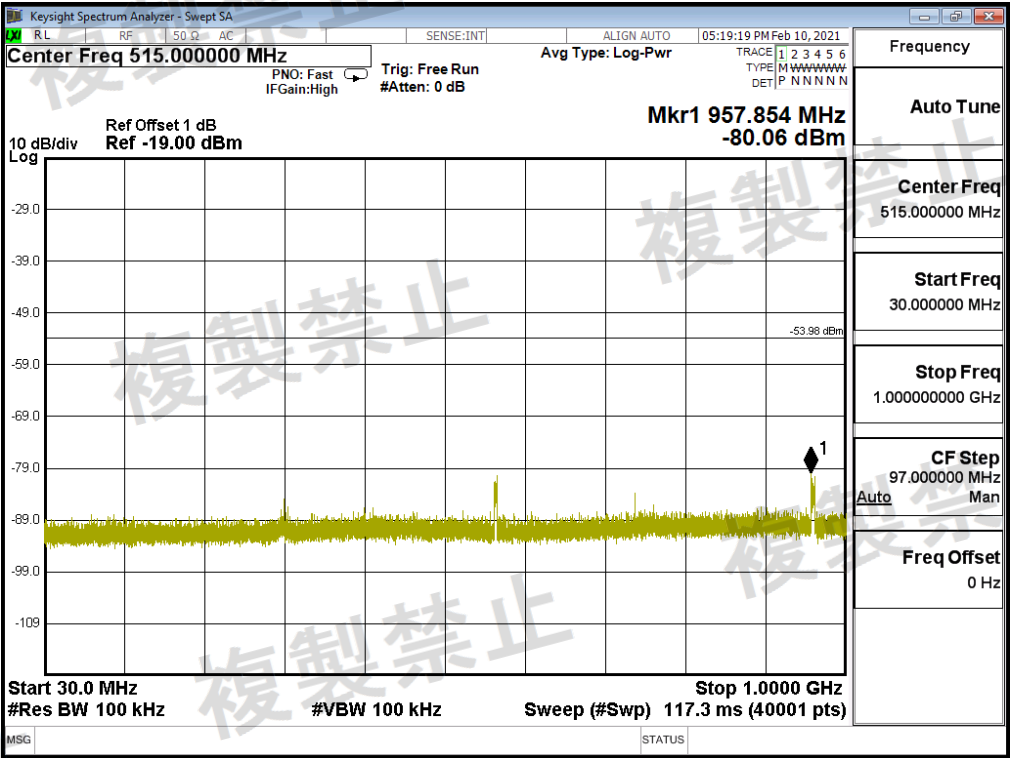


Test Result	PASS
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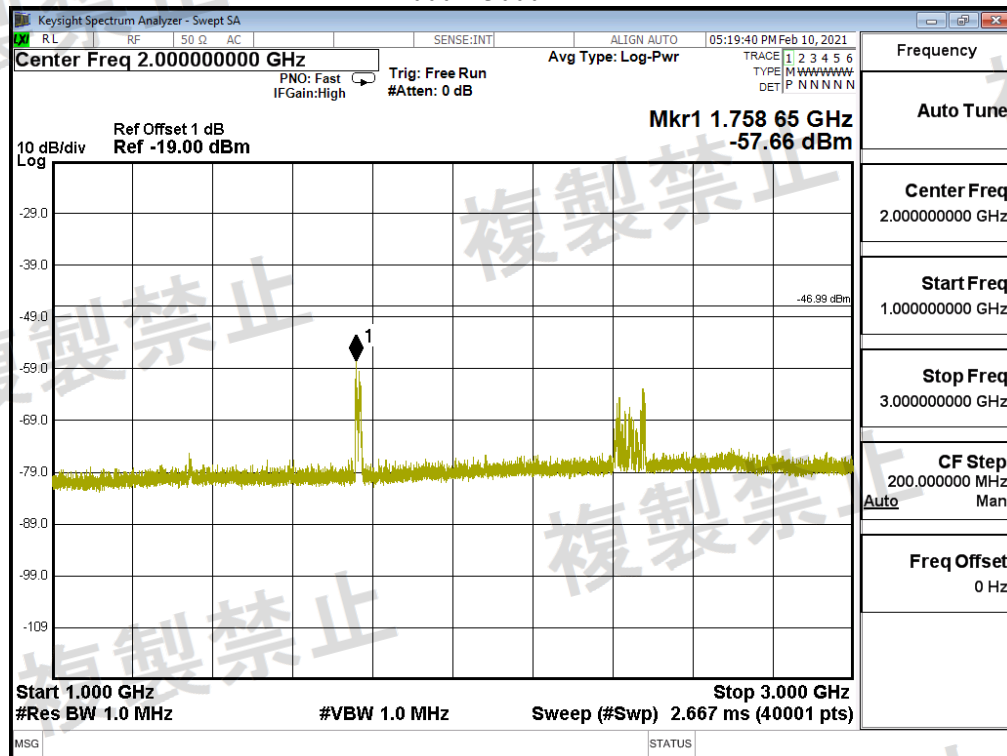
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-40BW) 5670MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-80.06	-54 (4nW)
		1000 - 3000	-57.66	-47 (20nW)
		3000 - 16000	-70.78	-47 (20nW)
		16000 - 26000	-60.01	-47 (20nW)

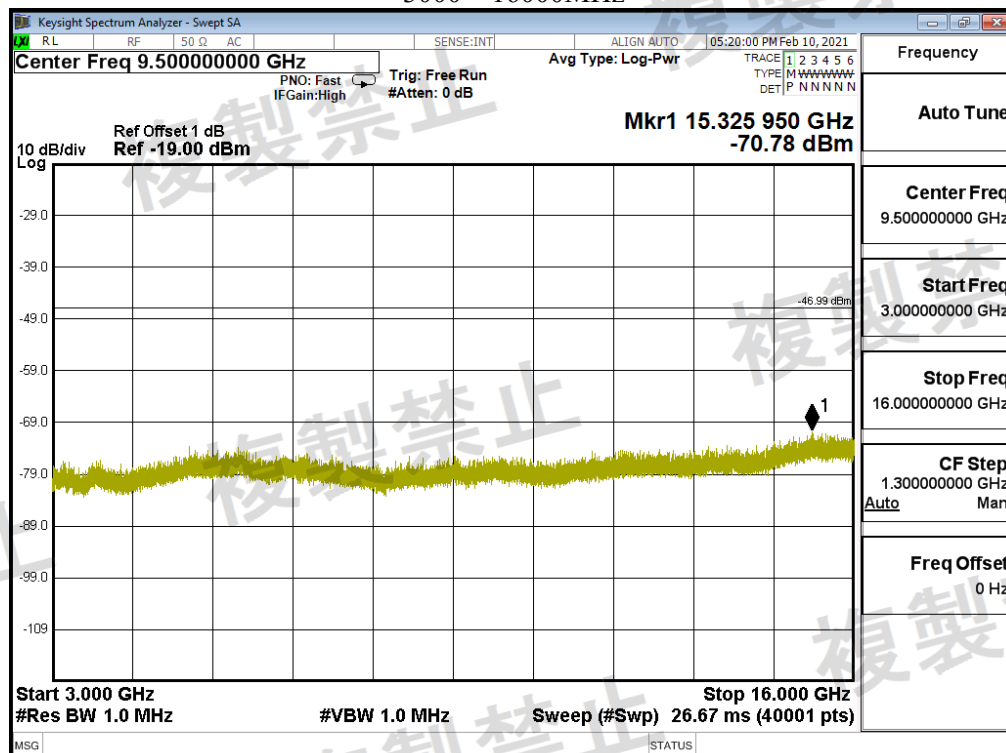
30 - 1000MHz



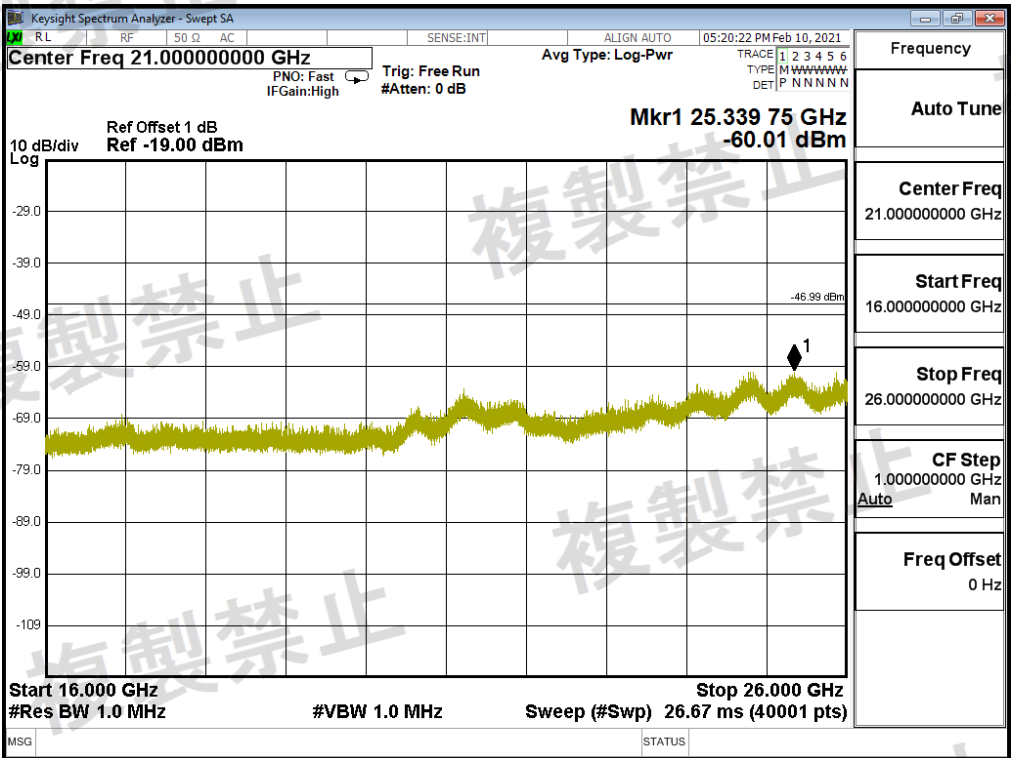
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

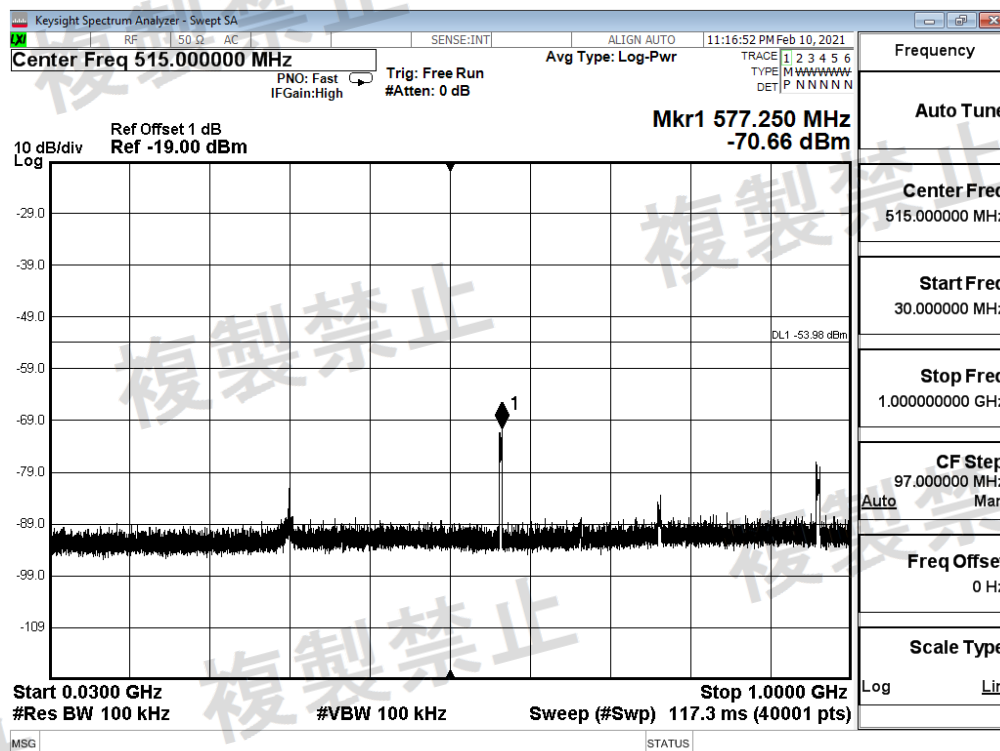


Test Result	PASS
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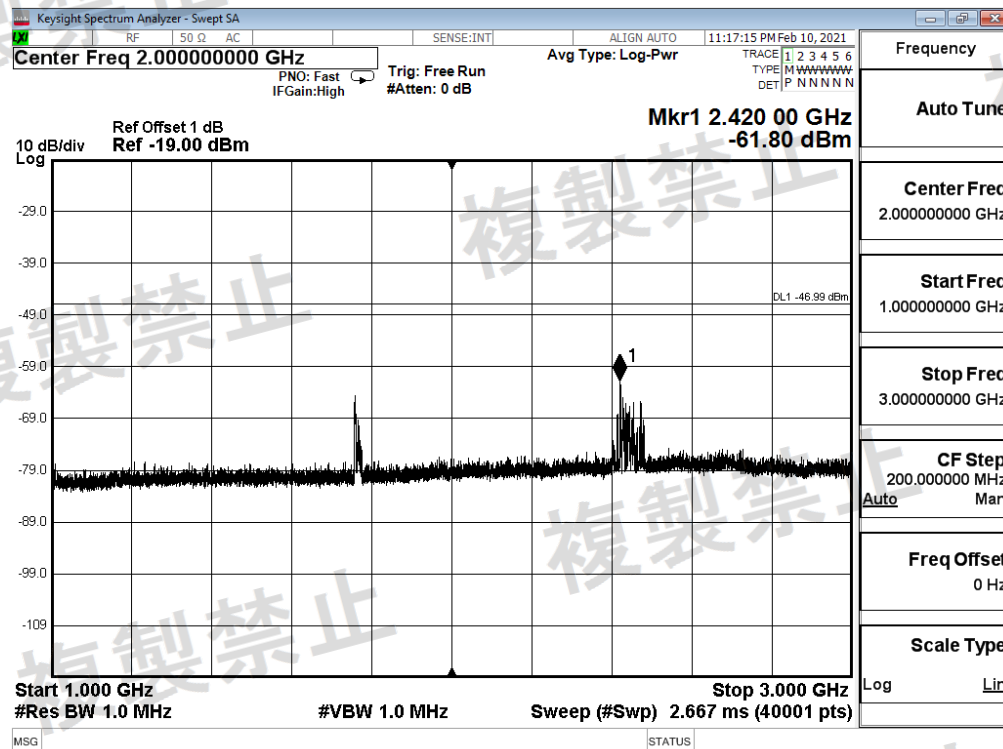
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-40BW) 5670MHz_Chain B (Dipole) (Panel)

Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.66	-54 (4nW)
		1000 - 3000	-61.80	-47 (20nW)
		3000 - 16000	-70.35	-47 (20nW)
		16000 - 26000	-60.70	-47 (20nW)

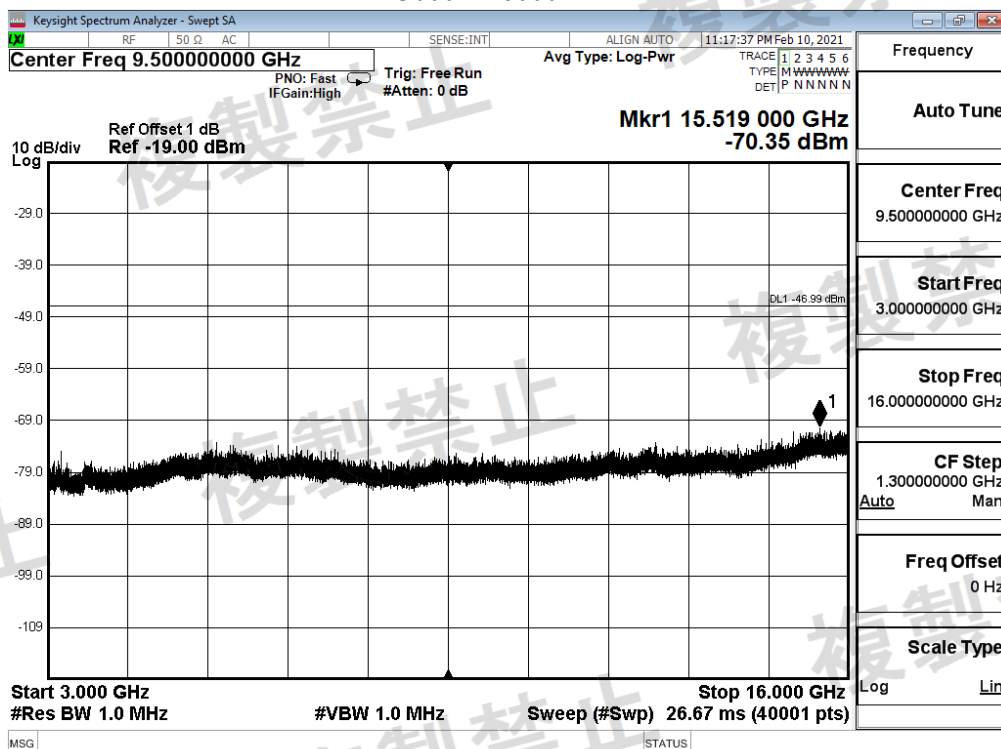
30 - 1000MHz



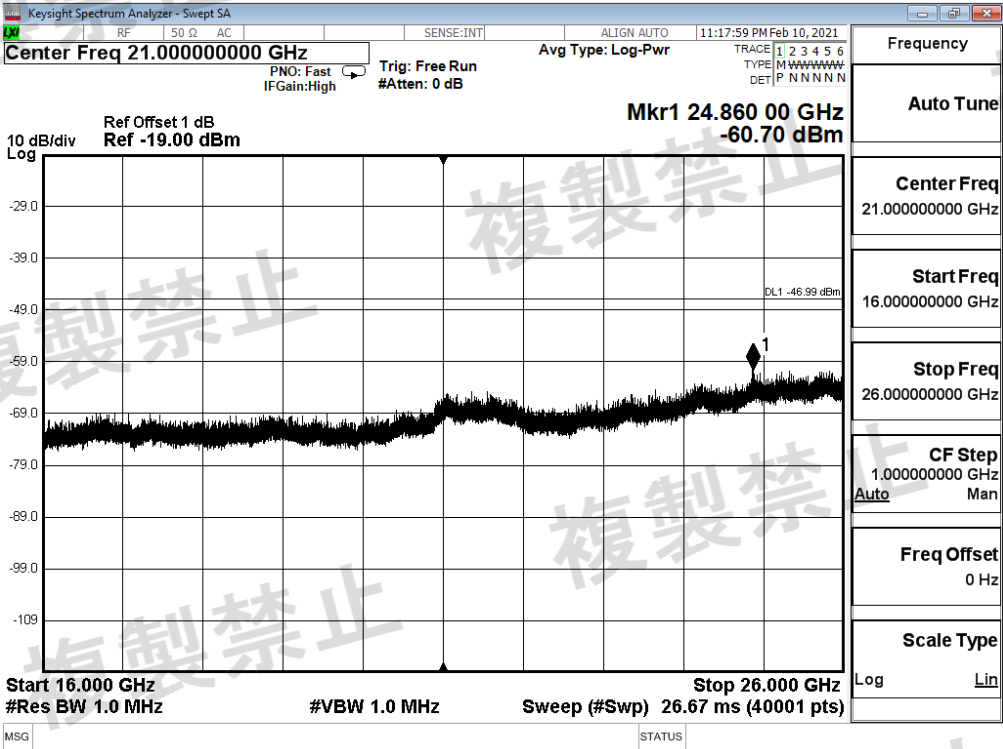
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

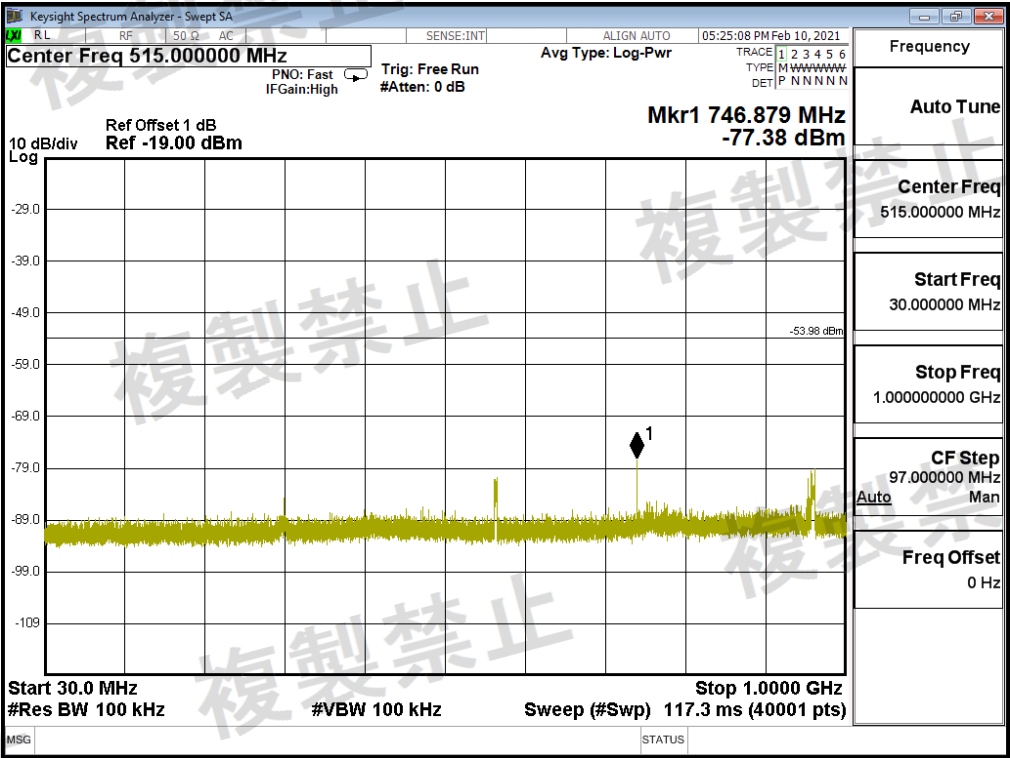


Test Result	PASS
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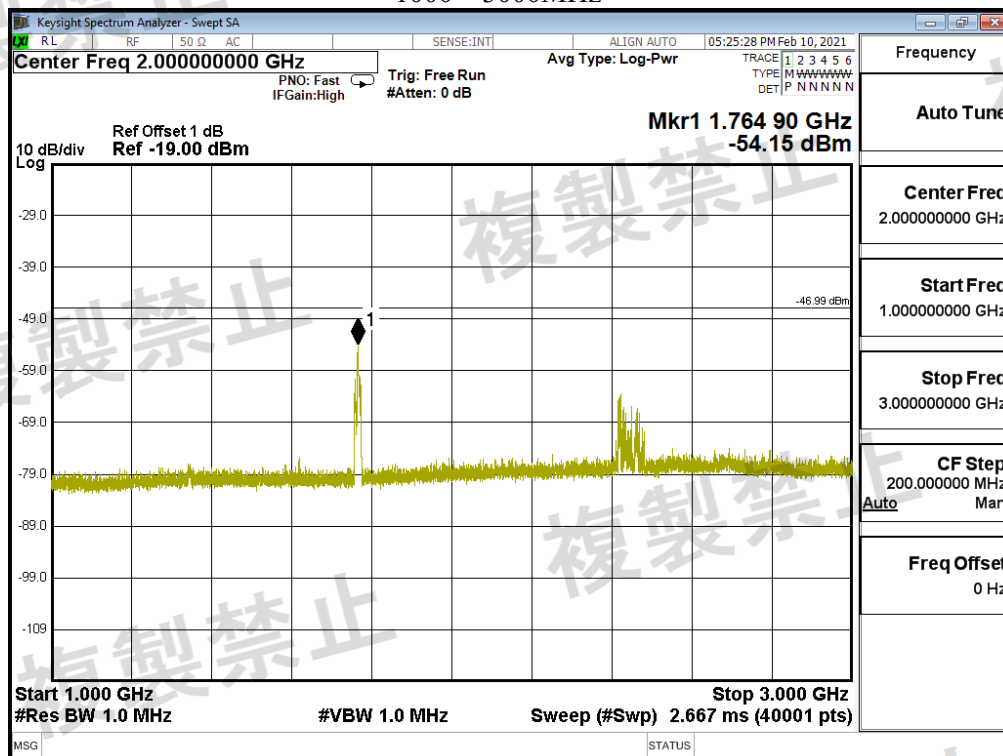
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-40BW) 5710MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-77.38	-54 (4nW)
		1000 - 3000	-54.15	-47 (20nW)
		3000 - 16000	-71.10	-47 (20nW)
		16000 - 26000	-59.61	-47 (20nW)

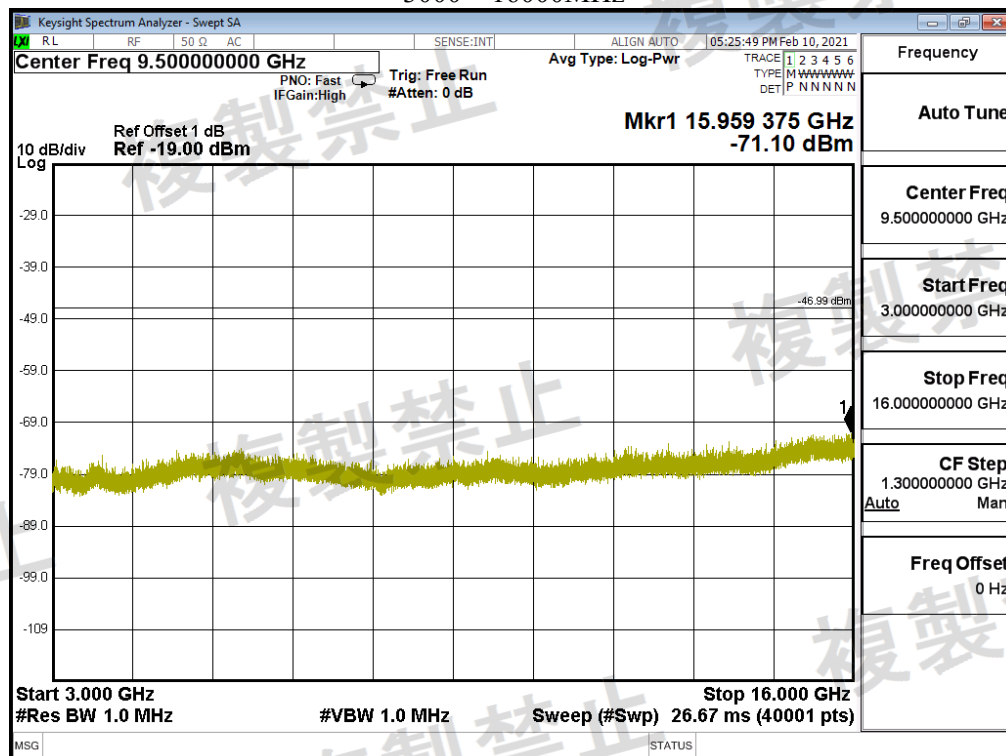
30 - 1000MHz



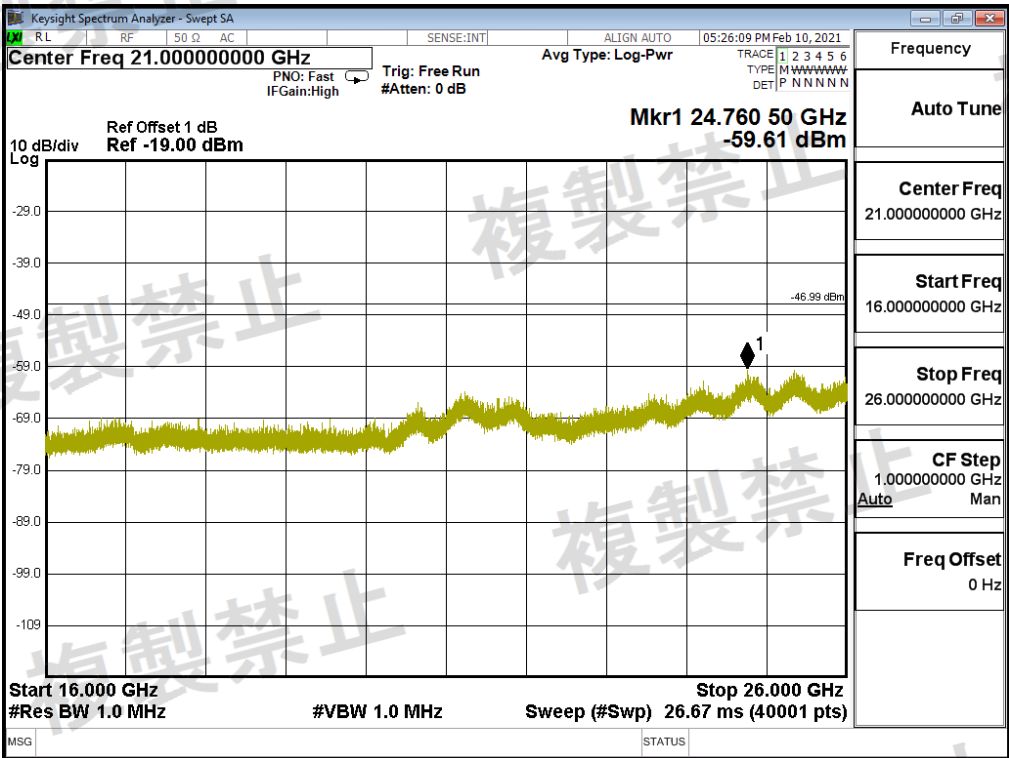
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

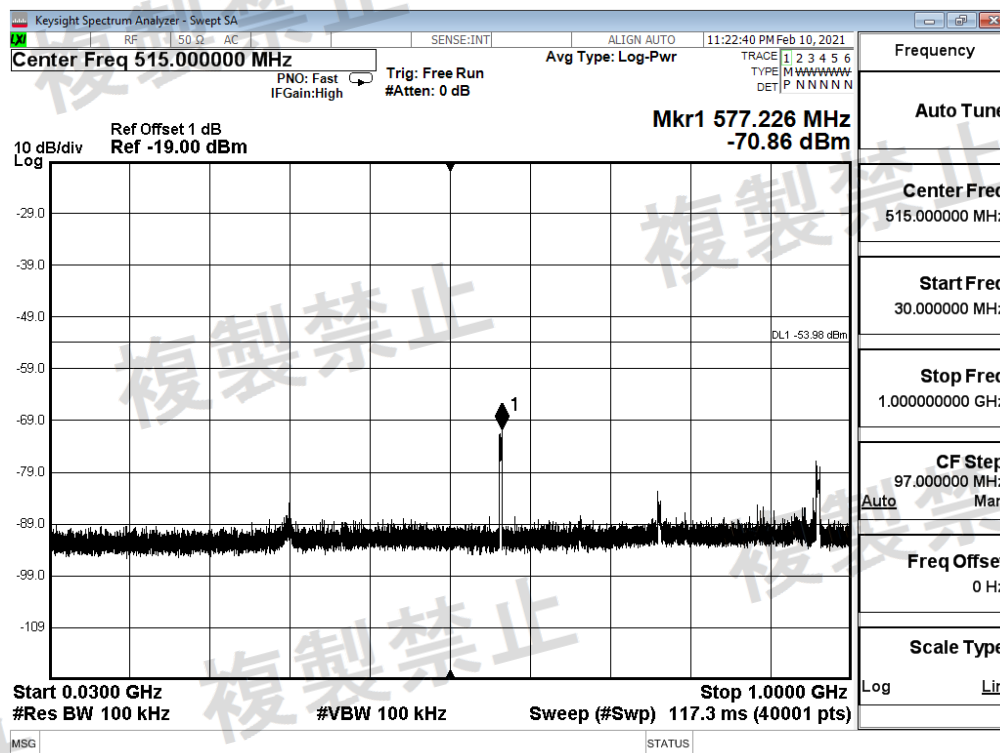


Test Result	PASS
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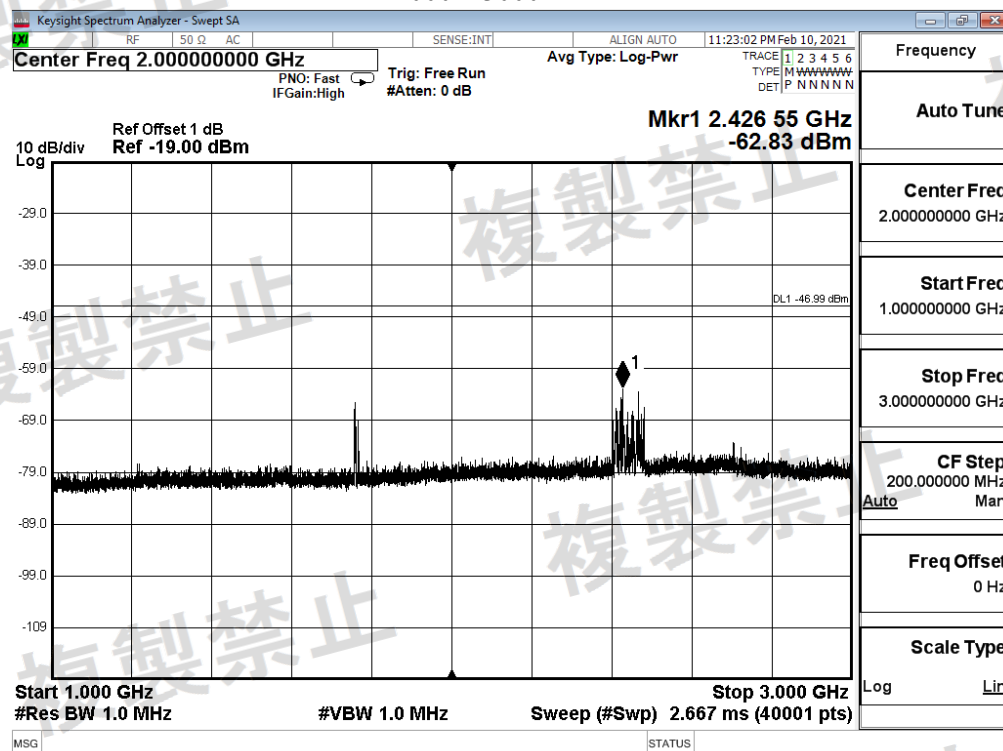
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-40BW) 5710MHz_Chain B (Dipole) (Panel)

Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.86	-54 (4nW)
		1000 - 3000	-62.83	-47 (20nW)
		3000 - 16000	-69.86	-47 (20nW)
		16000 - 26000	-60.64	-47 (20nW)

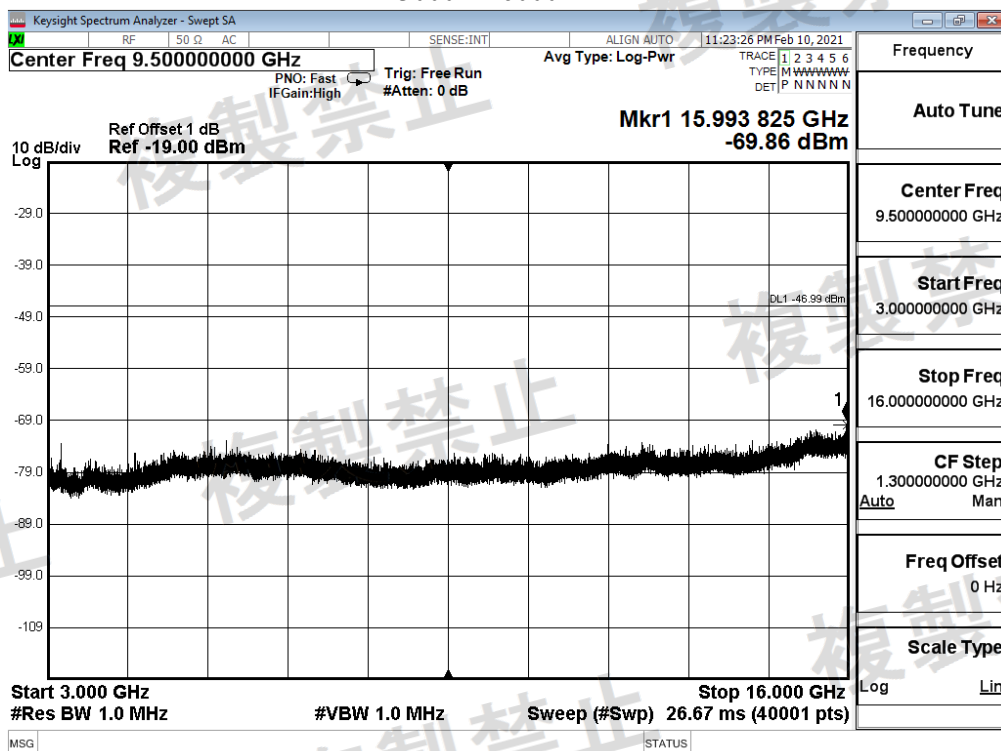
30 - 1000MHz



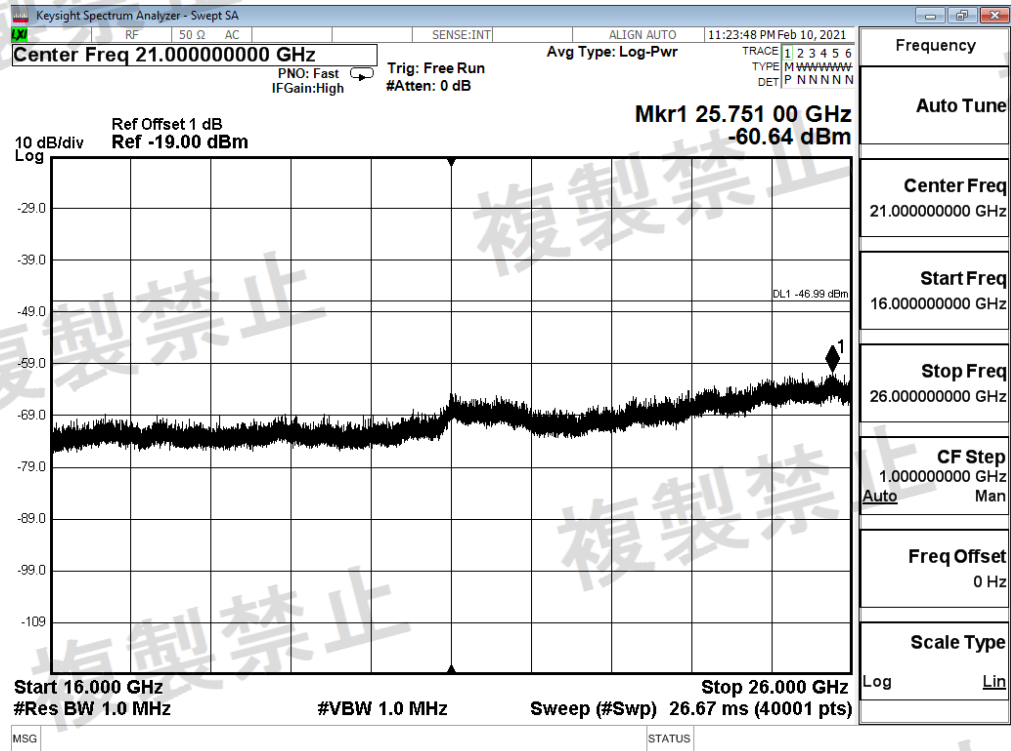
1000 – 3000MHz



3000 – 16000MHz



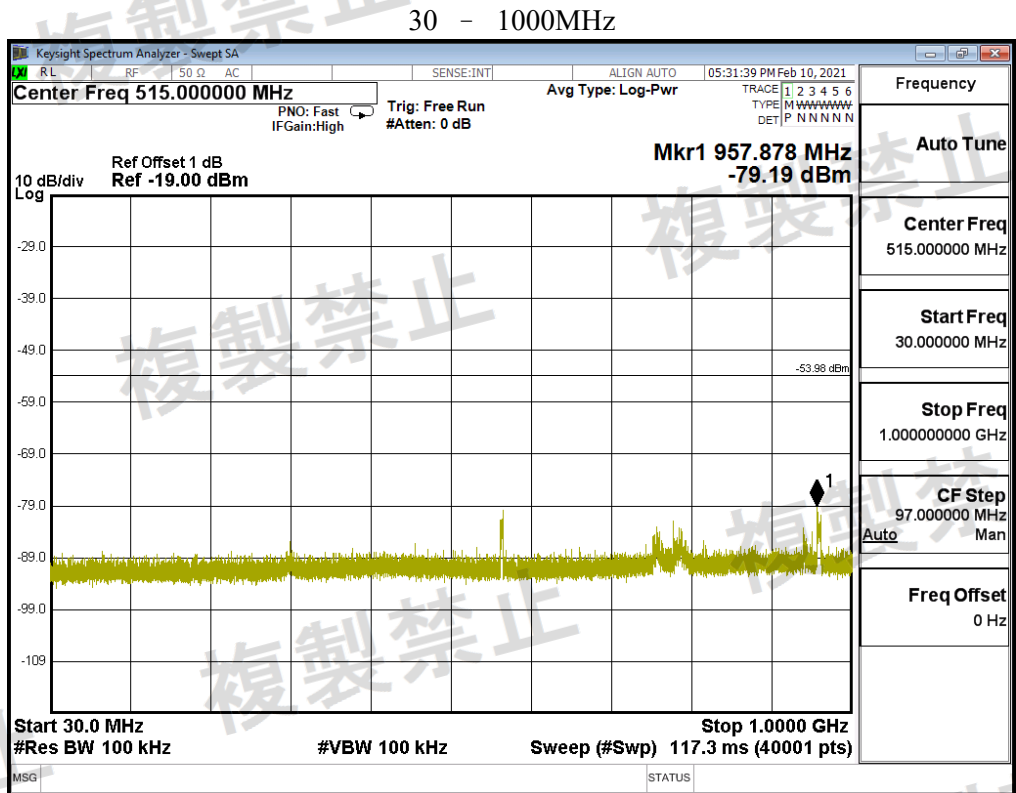
16000 – 26000MHz



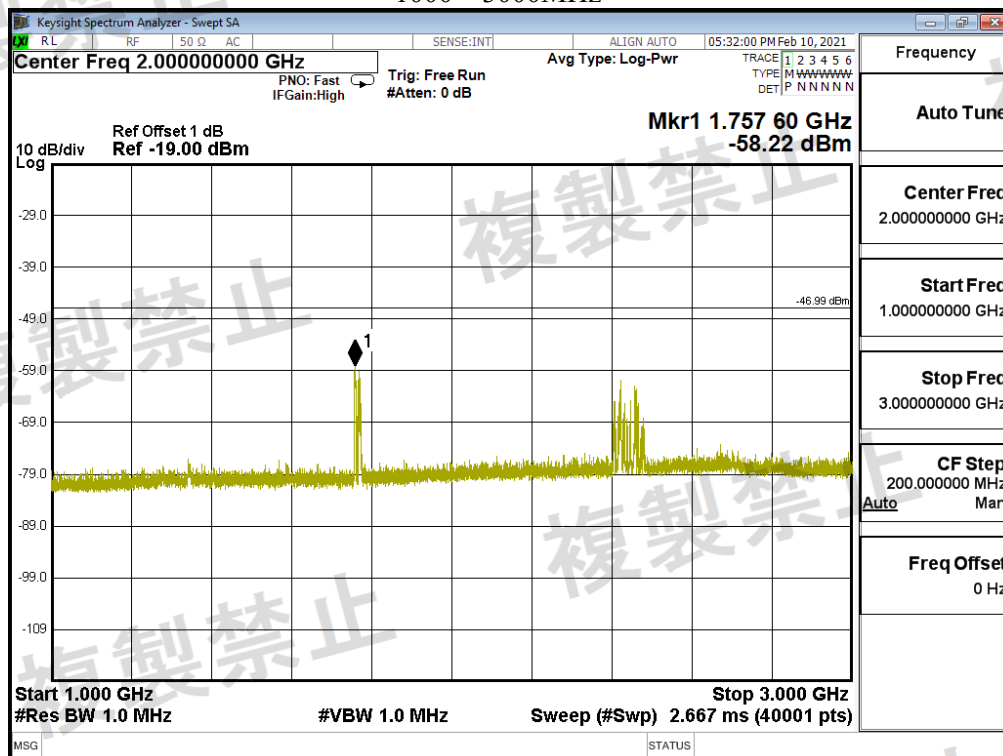
Test Result	PASS
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Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-80BW) 5210MHz_Chain A (Dipole) (Panel)

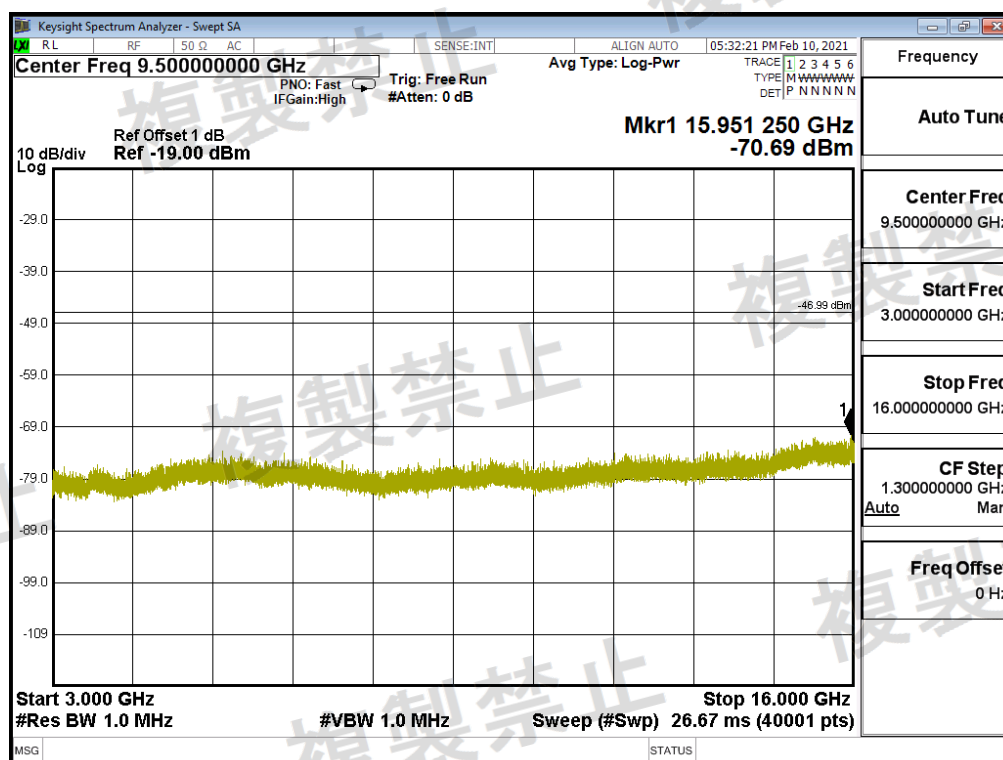
Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-79.19	-54 (4nW)
		1000 - 3000	-58.22	-47 (20nW)
		3000 - 16000	-70.69	-47 (20nW)
		16000 - 26000	-60.14	-47 (20nW)



1000 – 3000MHz



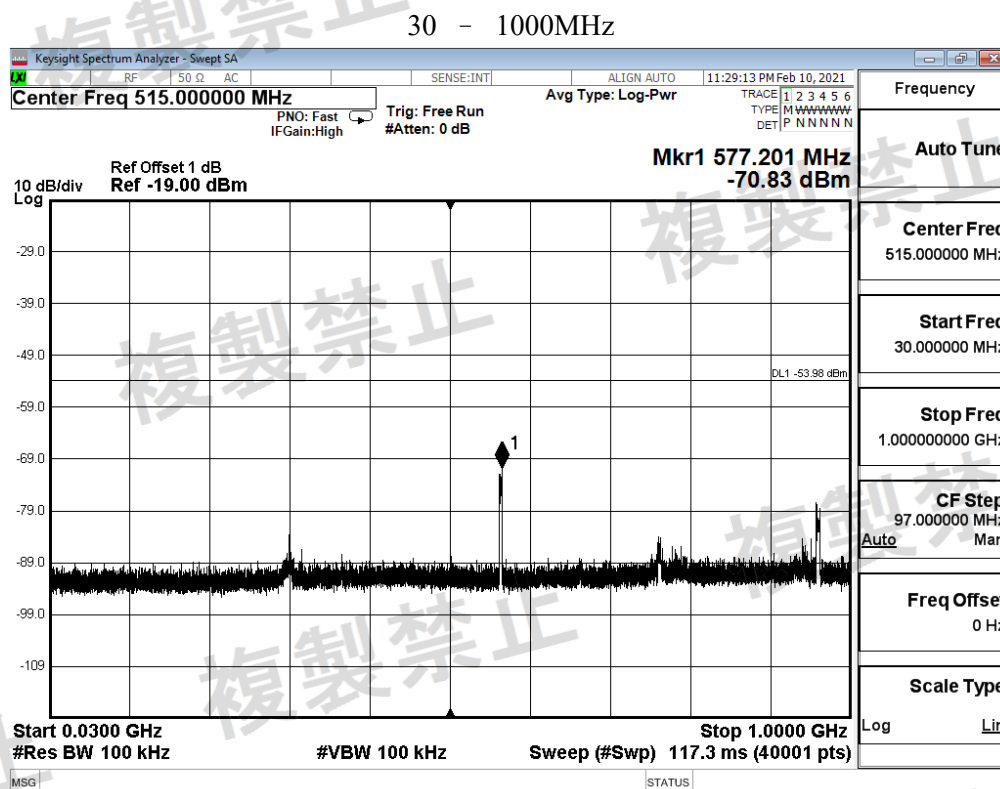
3000 – 16000MHz



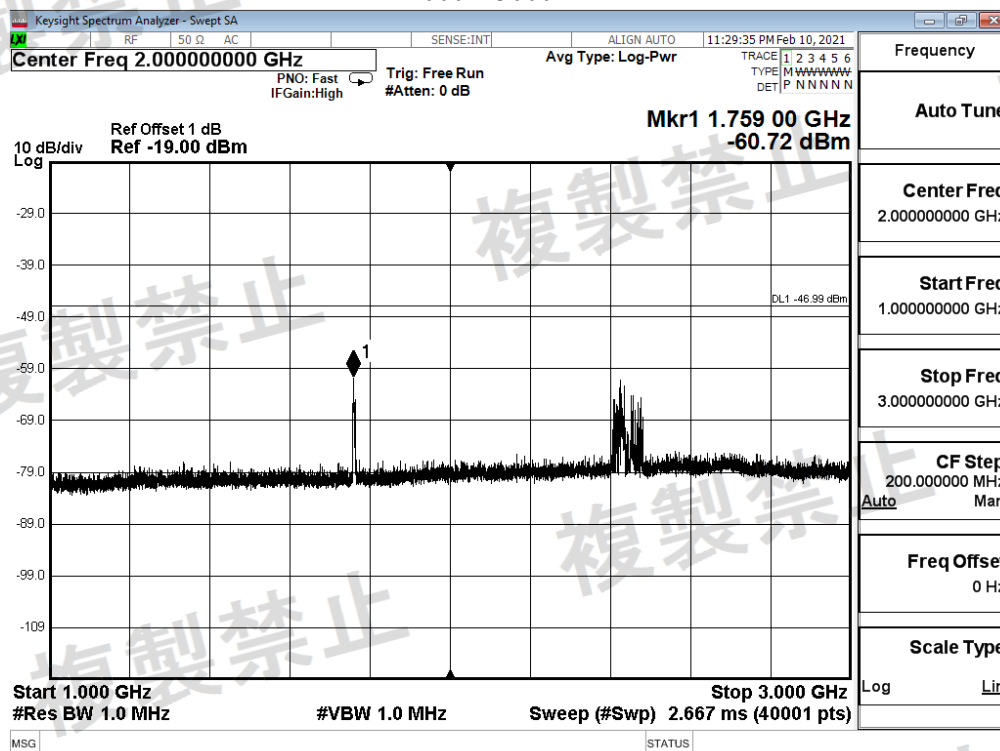


Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-80BW) 5210MHz_Chain A (Dipole) (Panel)

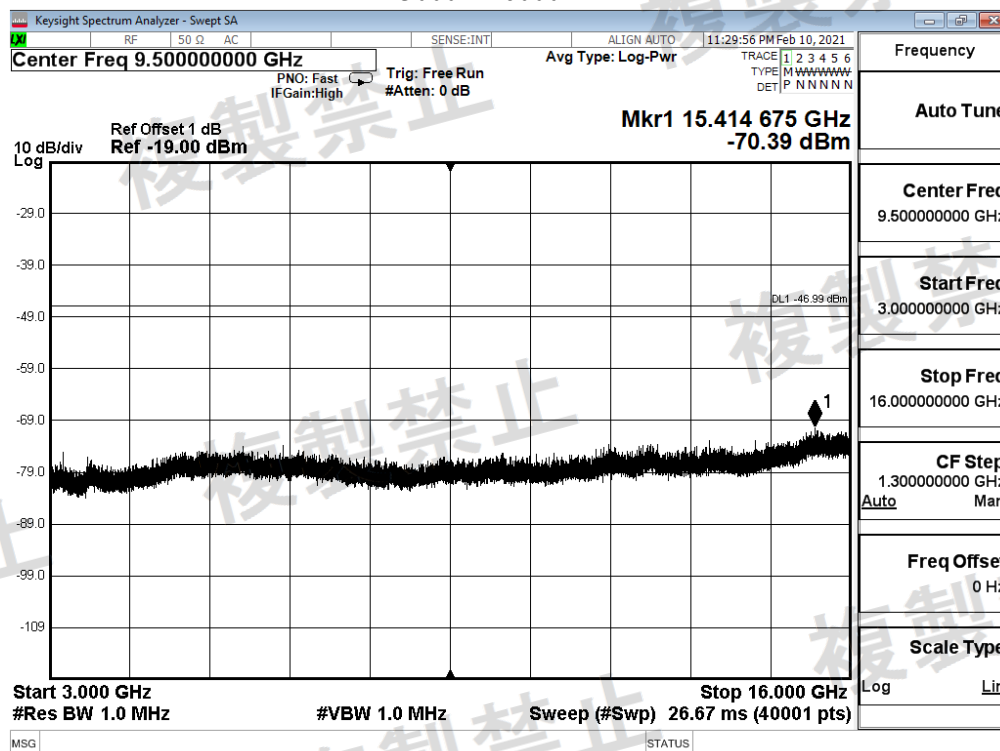
Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.83	-54 (4nW)
		1000 - 3000	-60.72	-47 (20nW)
		3000 - 16000	-70.39	-47 (20nW)
		16000 - 26000	-60.39	-47 (20nW)



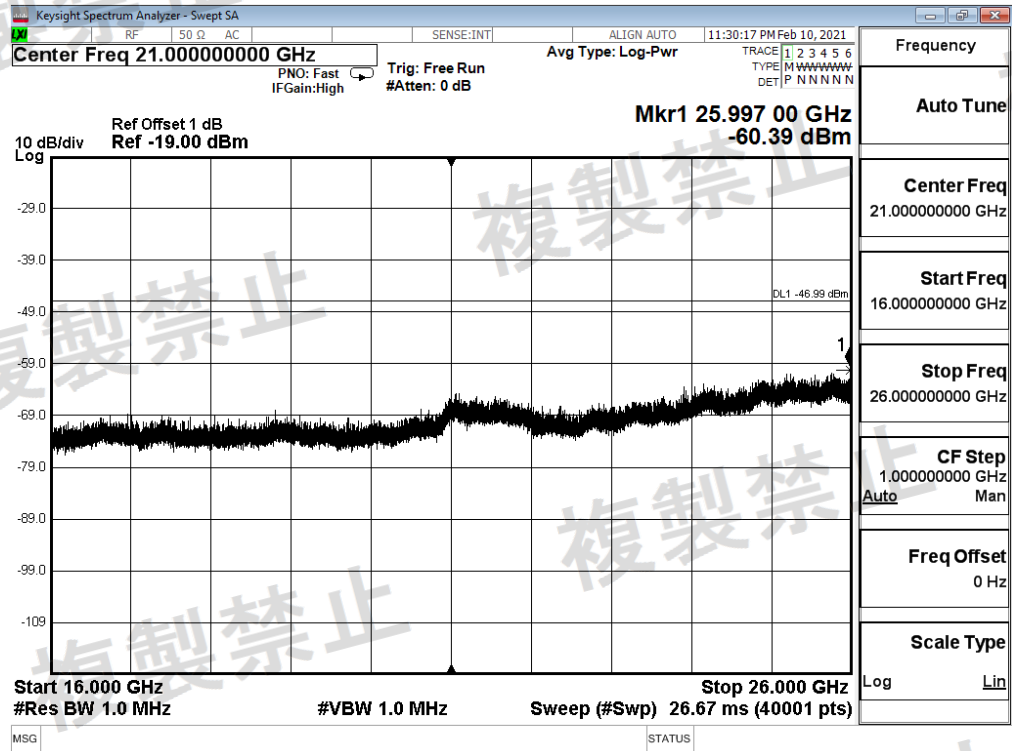
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz



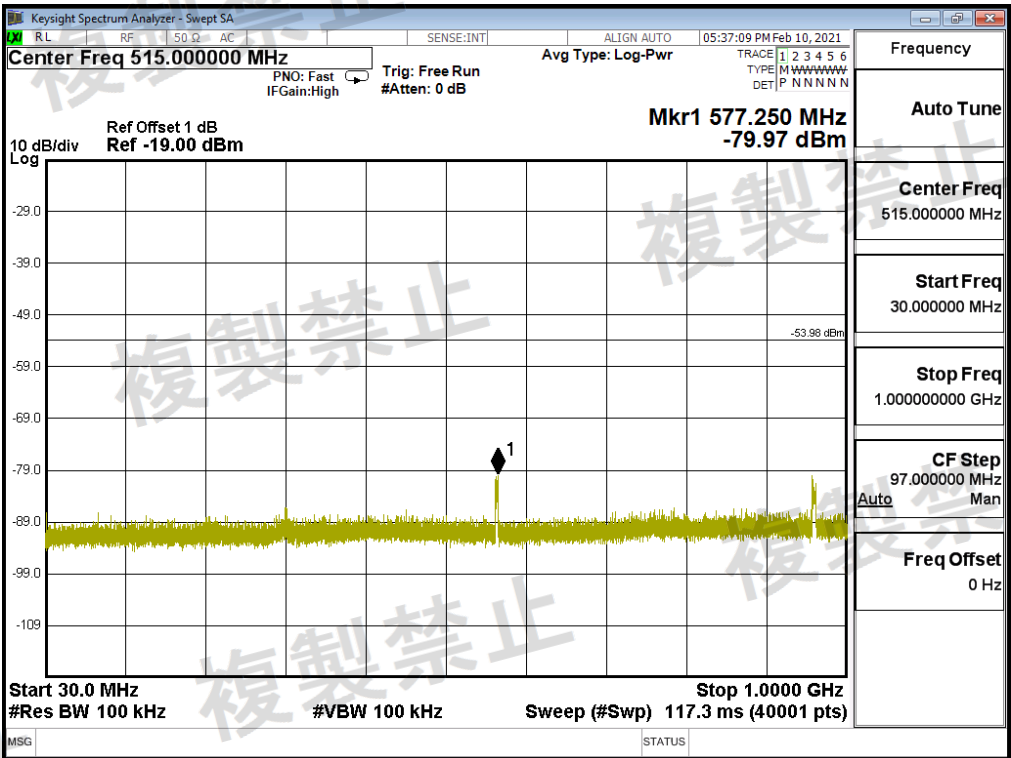
Test Result

PASS

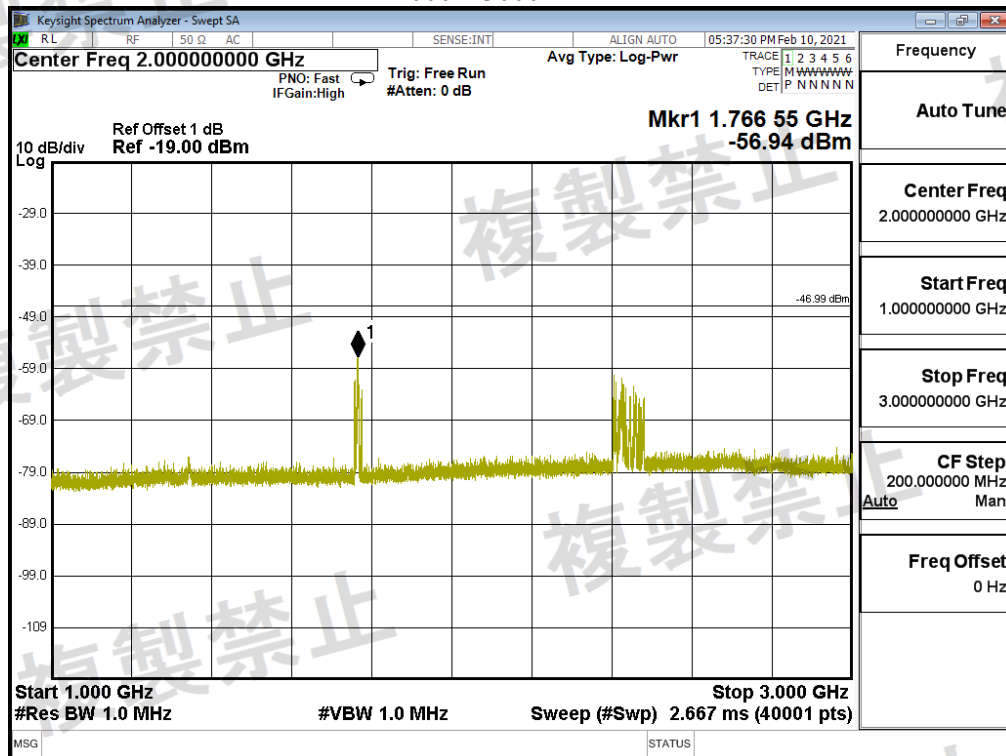
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-80BW) 5290MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-79.97	-54 (4nW)
		1000 - 3000	-56.94	-47 (20nW)
		3000 - 16000	-71.07	-47 (20nW)
		16000 - 26000	-58.89	-47 (20nW)

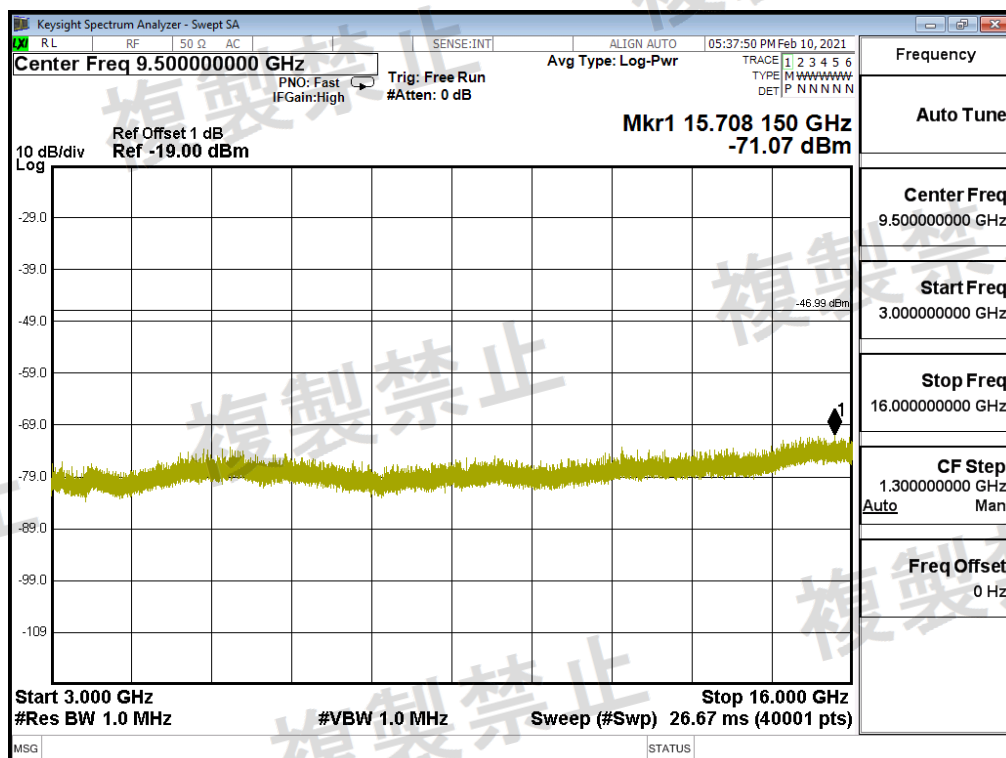
30 - 1000MHz



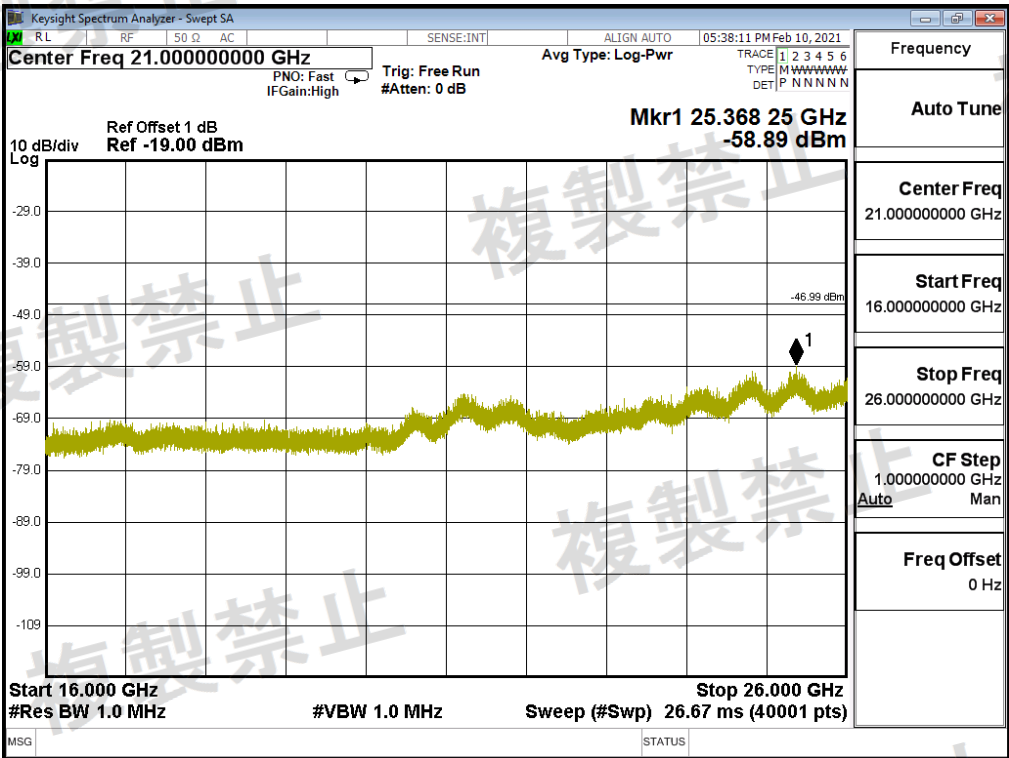
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

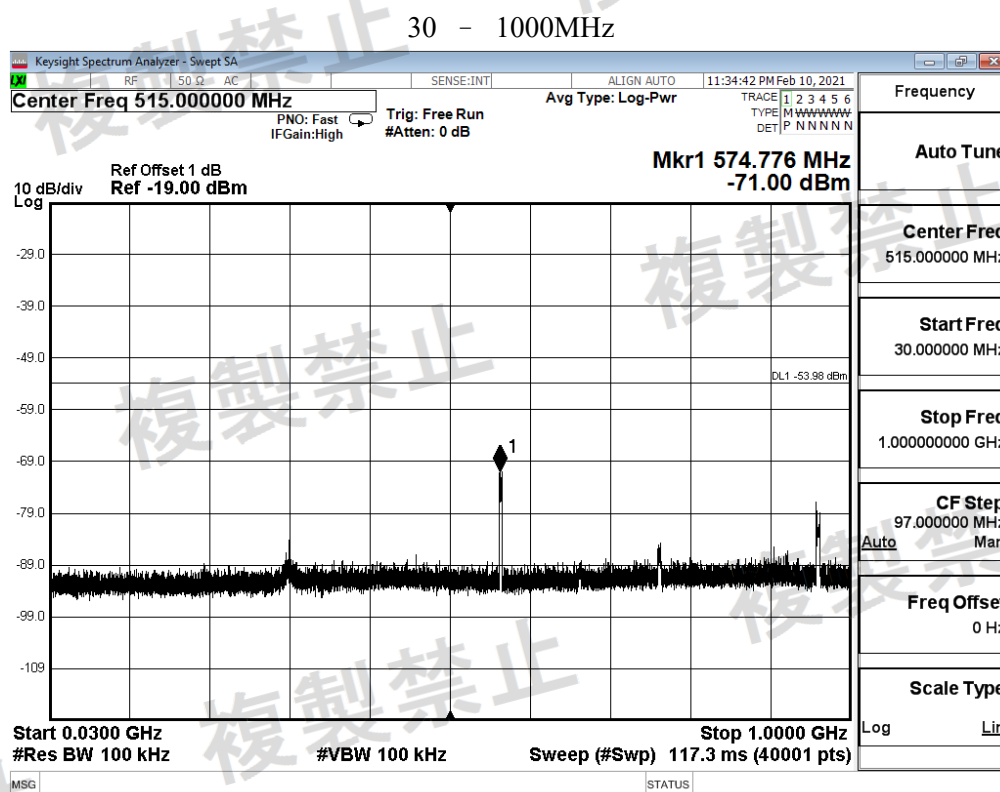


Test Result

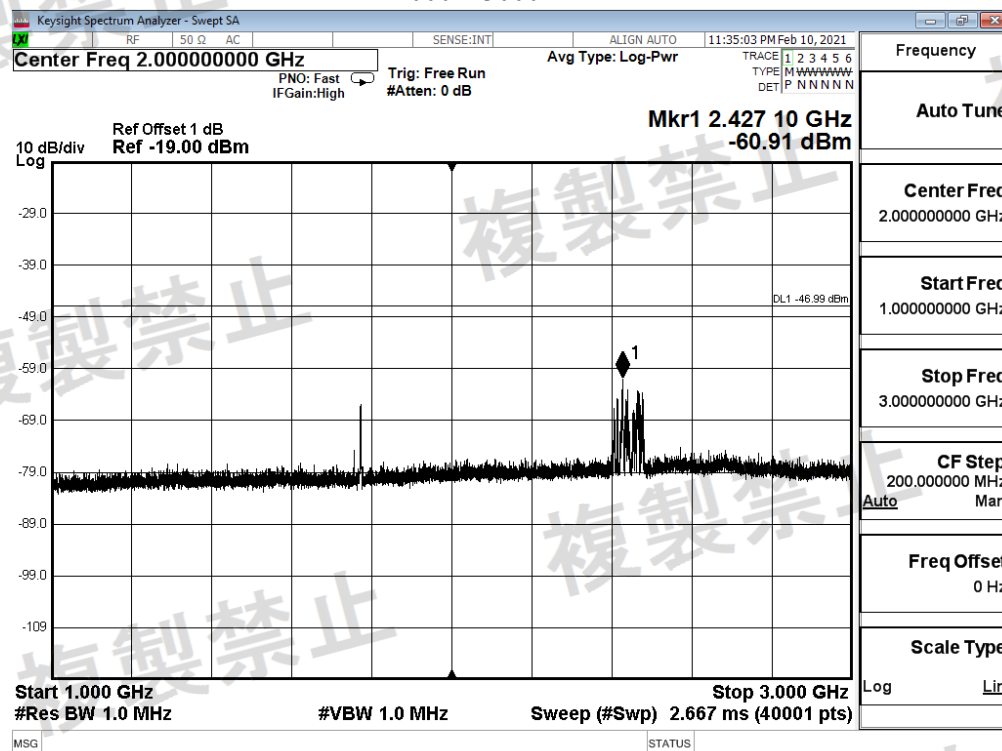
PASS

Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-80BW) 5290MHz_Chain B (Dipole) (Panel)

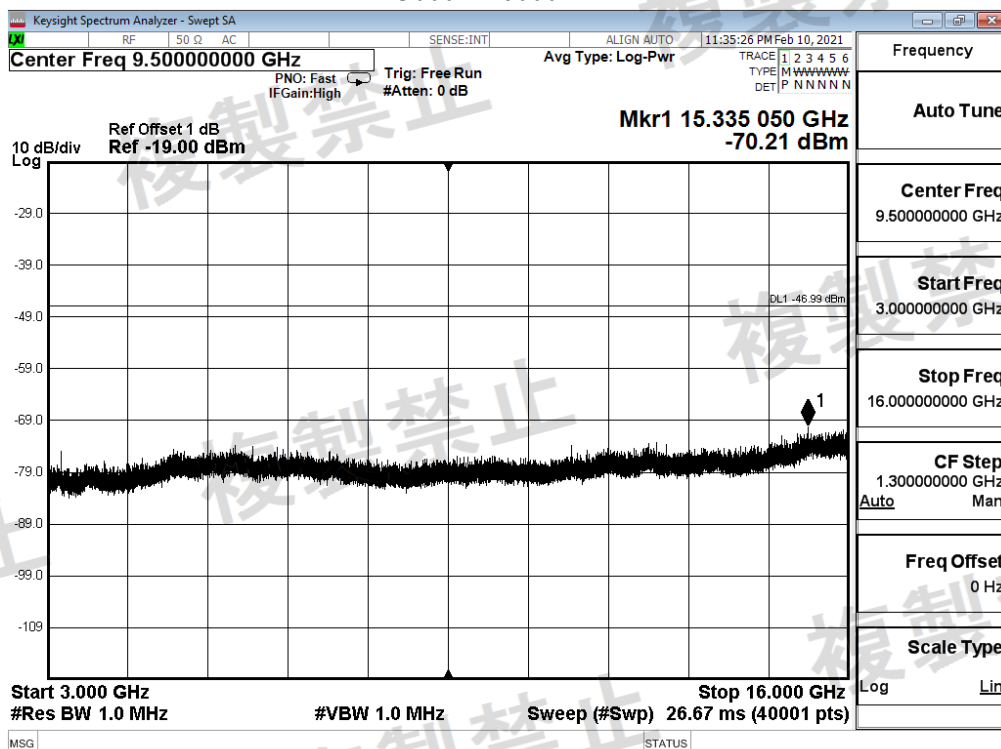
Chain B			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)



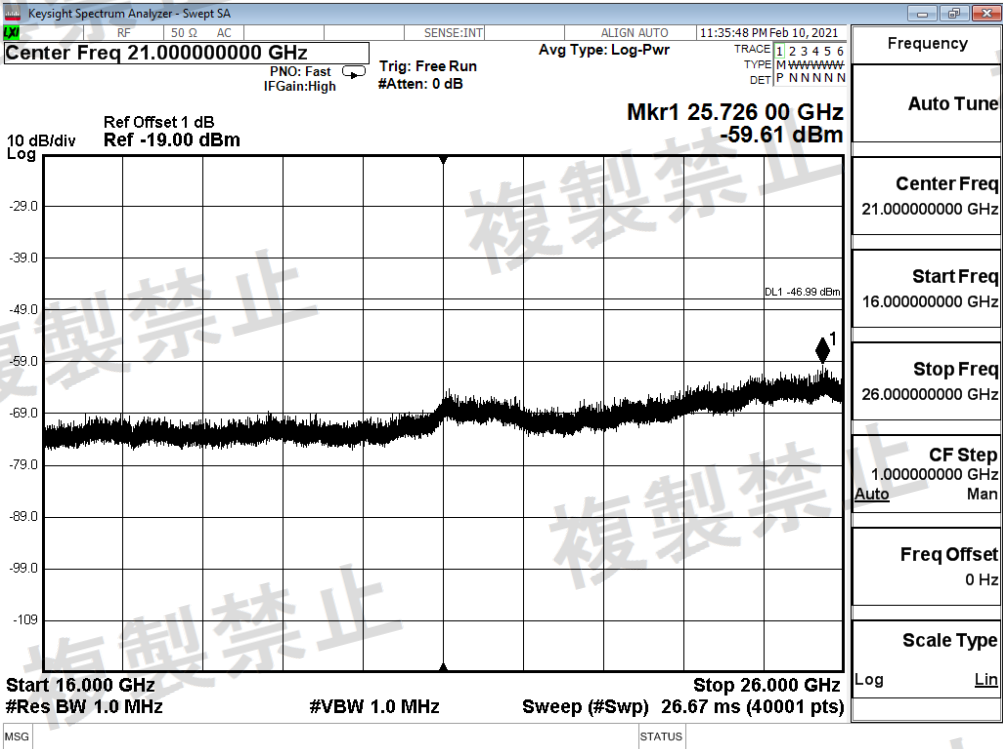
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz



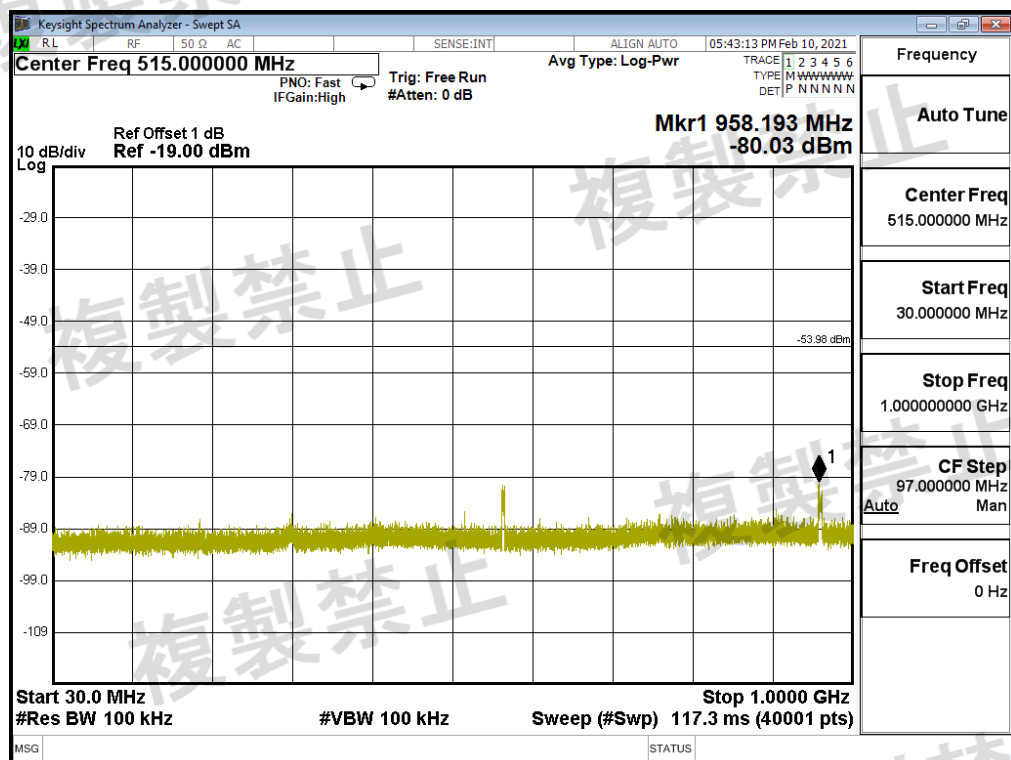
Test Result

PASS

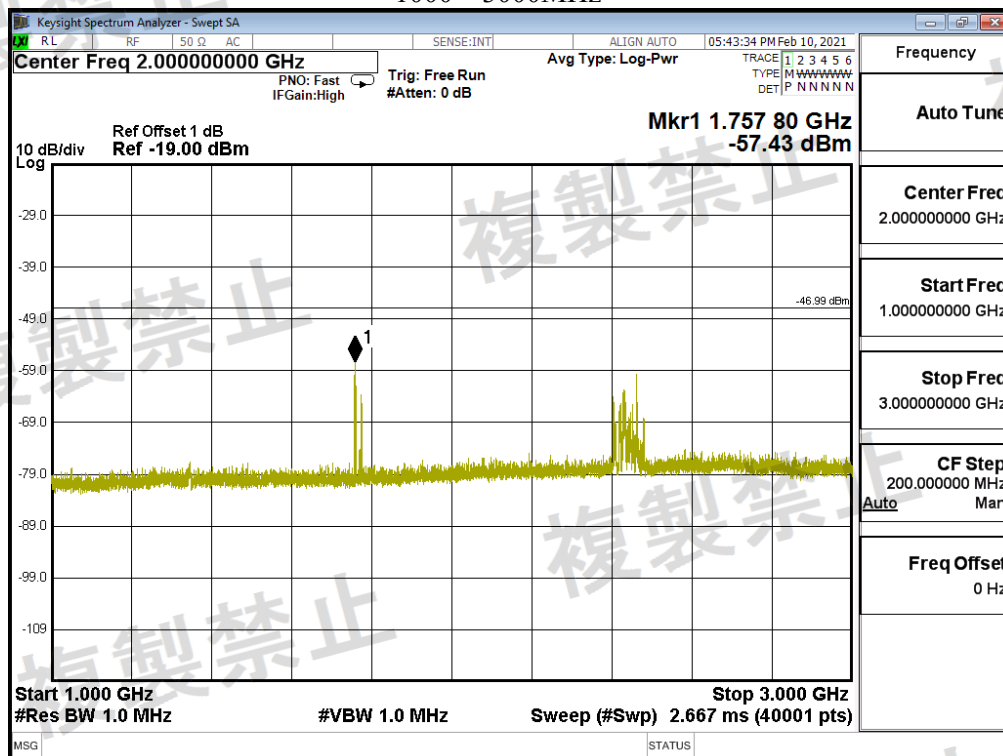
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-80BW) 5530MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)

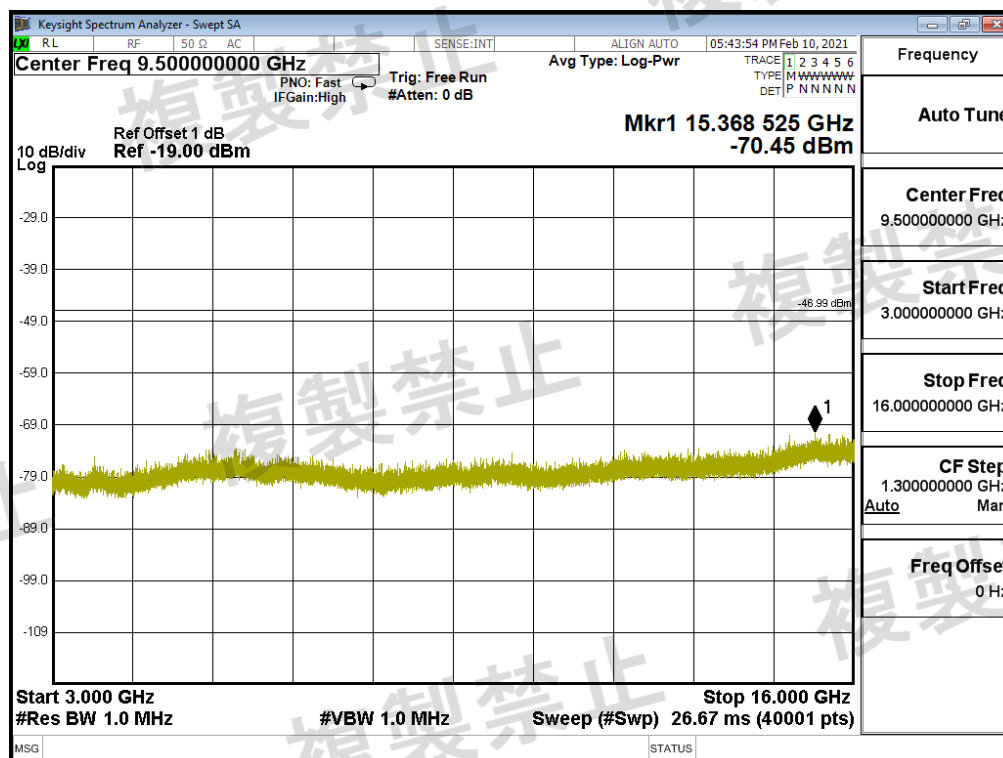
30 - 1000MHz



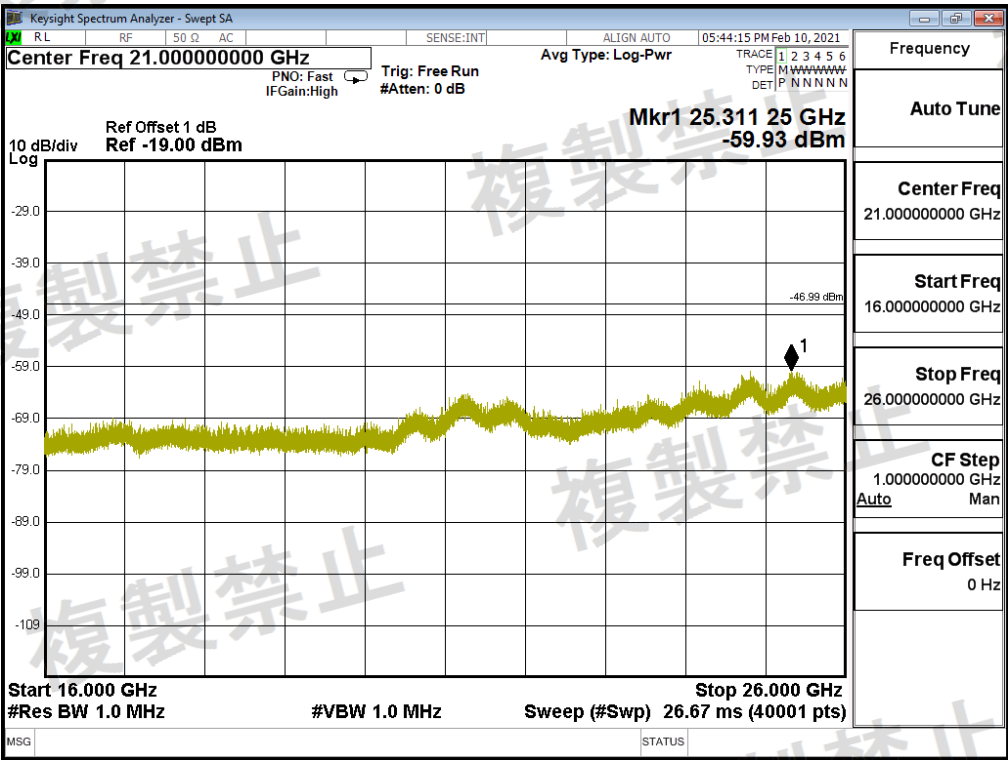
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

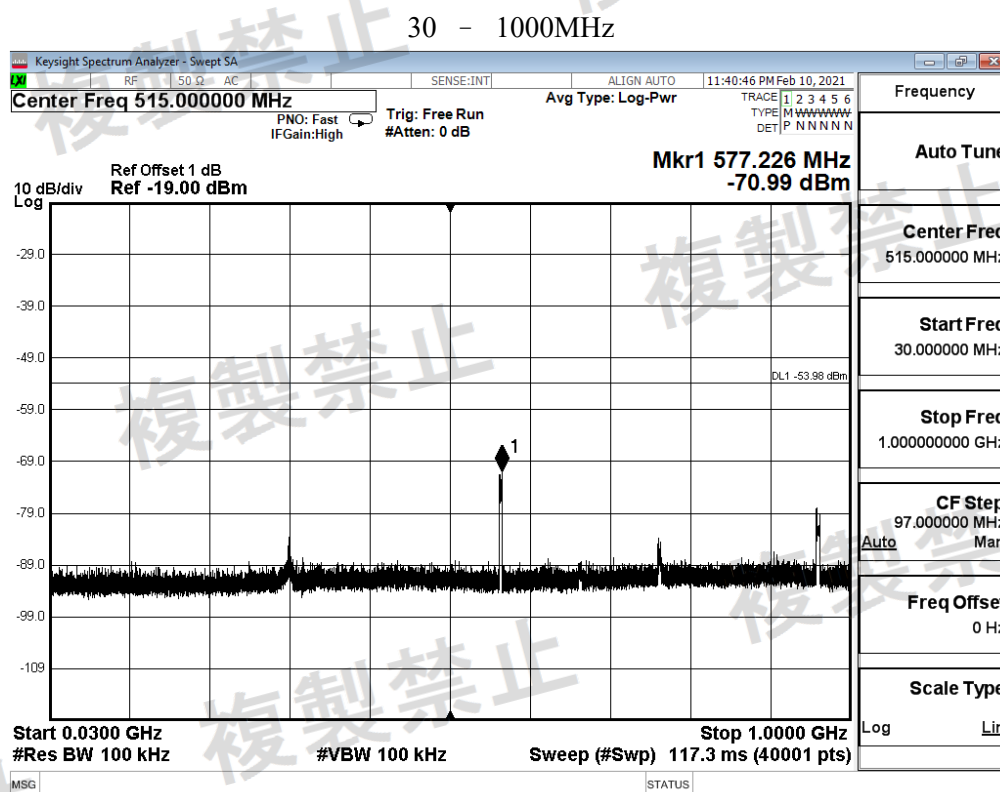


Test Result

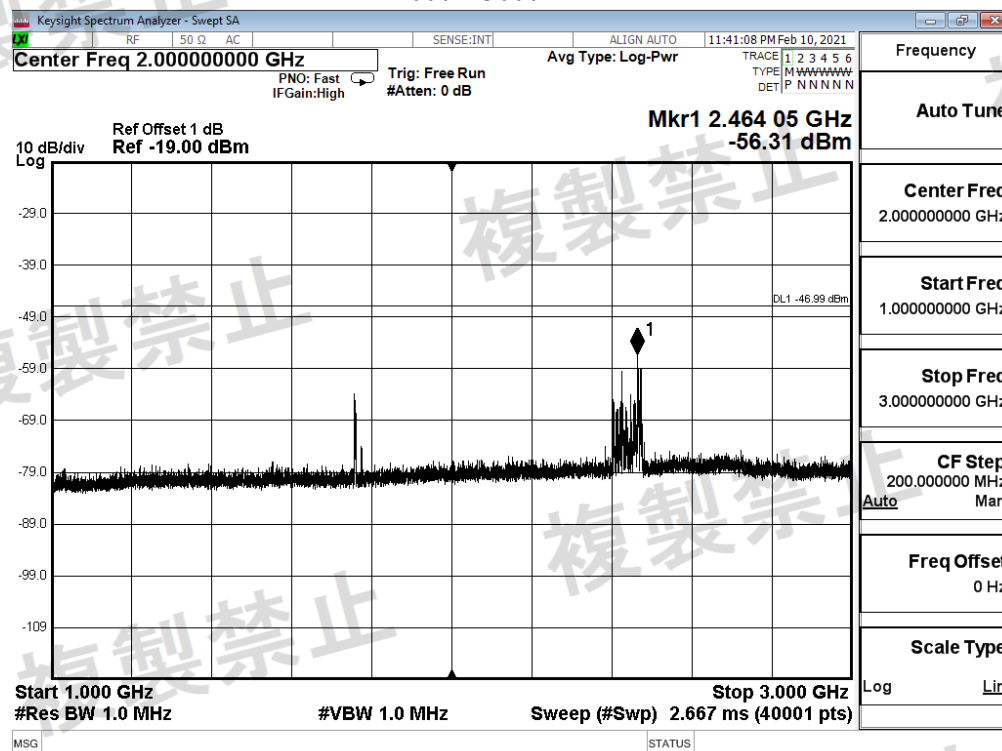
PASS

Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-80BW) 5530MHz_Chain B (Dipole) (Panel)

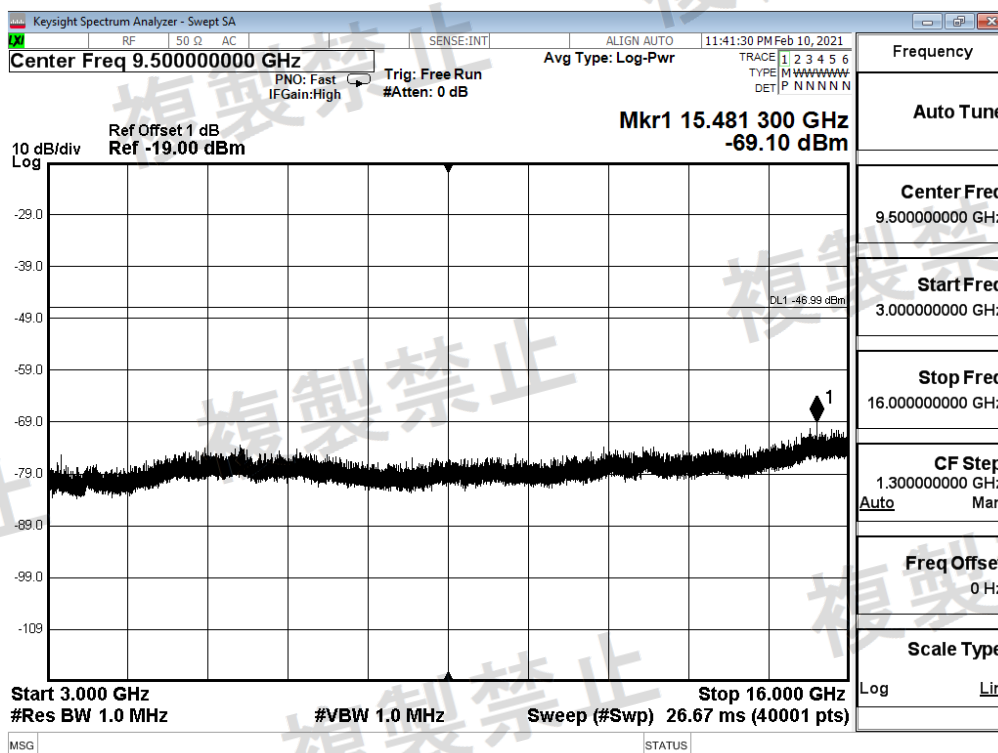
Chain B			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-54 (4nW)
		1000 - 3000	-47 (20nW)
		3000 - 16000	-47 (20nW)
		16000 - 26000	-47 (20nW)



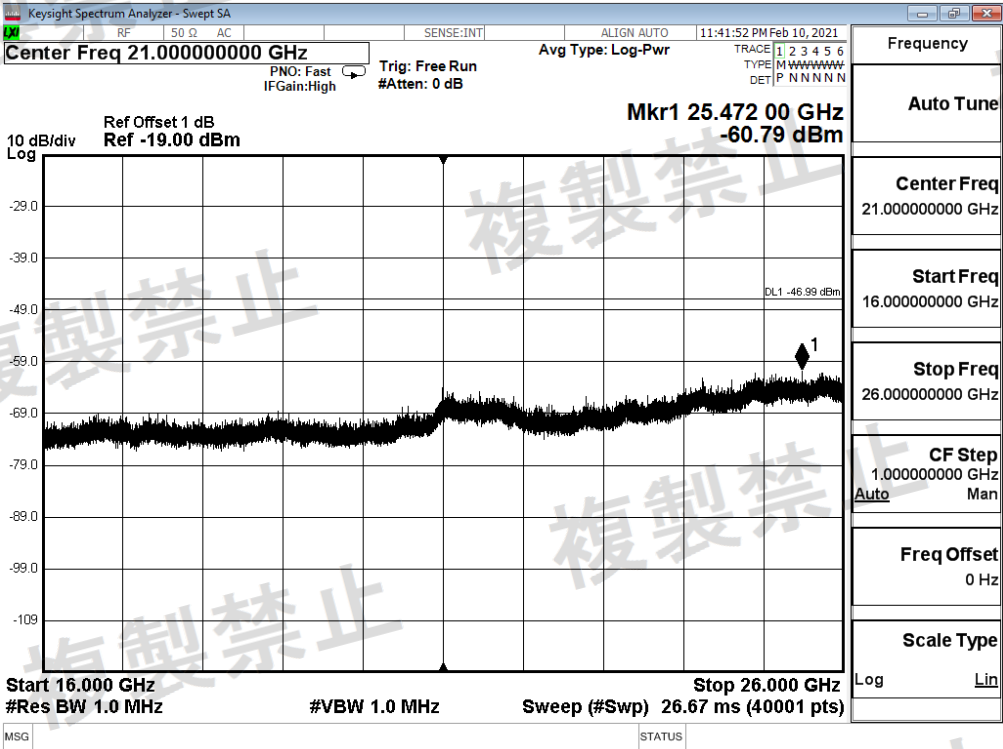
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz



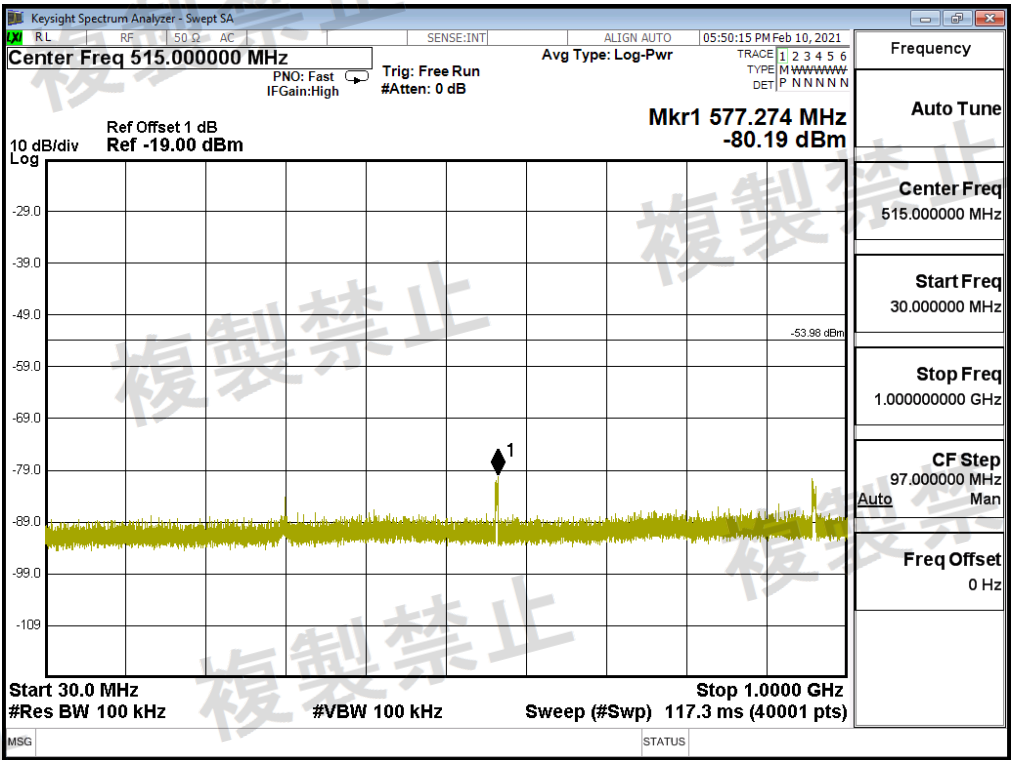
Test Result

PASS

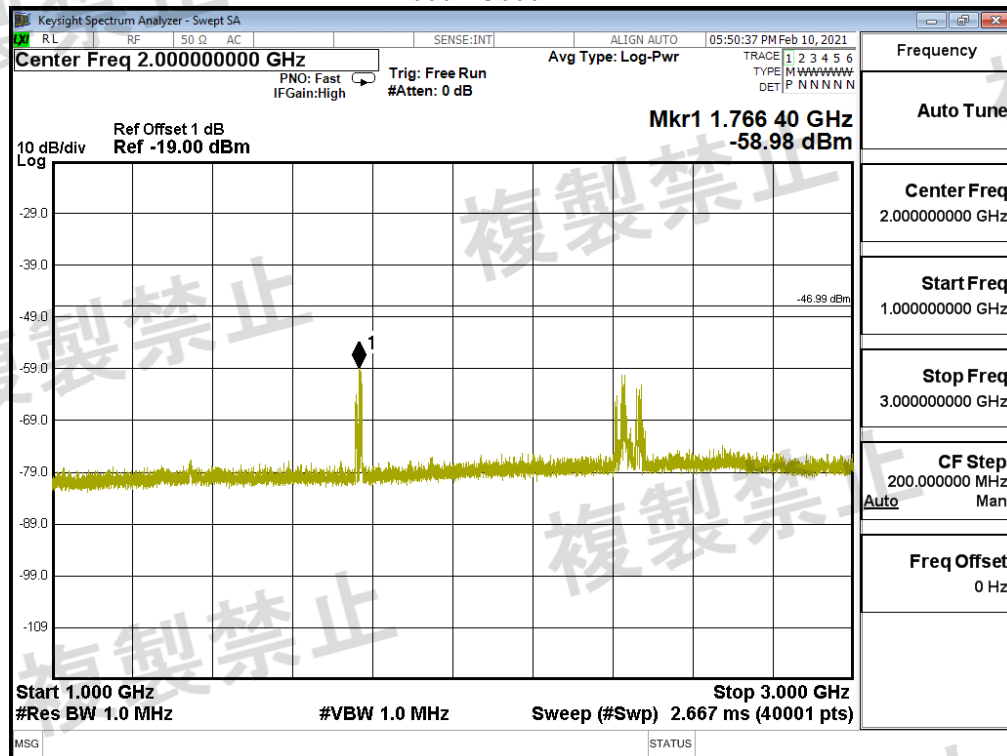
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-80BW) 5610MHz_Chain A (Dipole) (Panel)

Chain A			
Test Conditions		Frequency Range (MHz)	Limit (dBm)
Tnom (25 °C) Vnom (100 V)		30 - 1000	-80.19
		1000 - 3000	-58.98
		3000 - 16000	-62.12
		16000 - 26000	-59.40

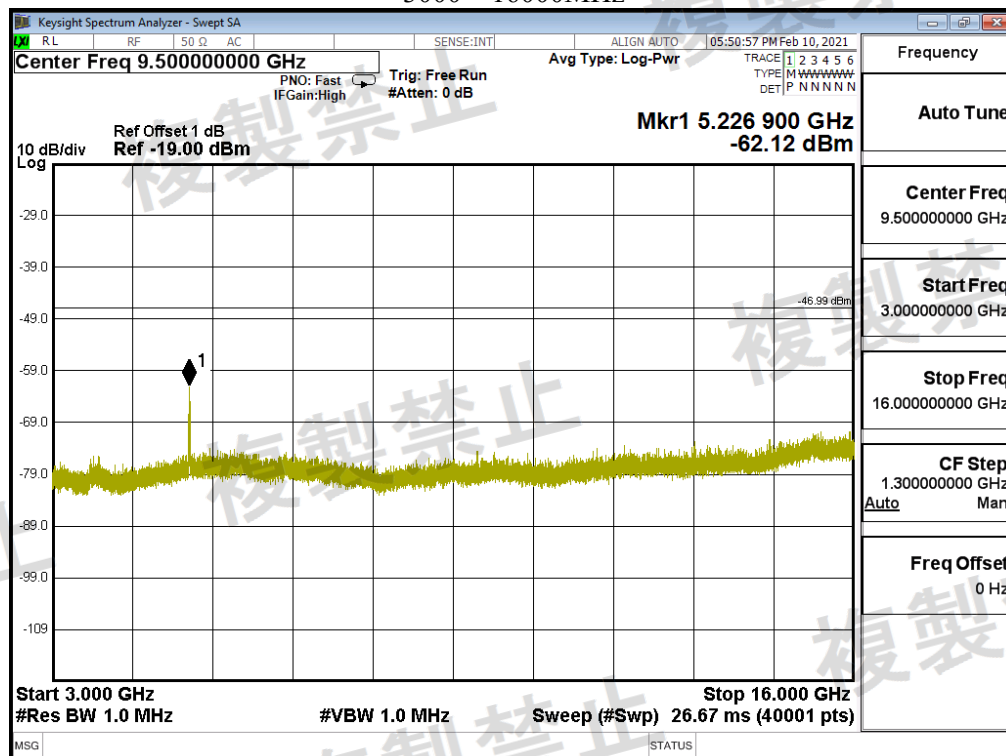
30 - 1000MHz



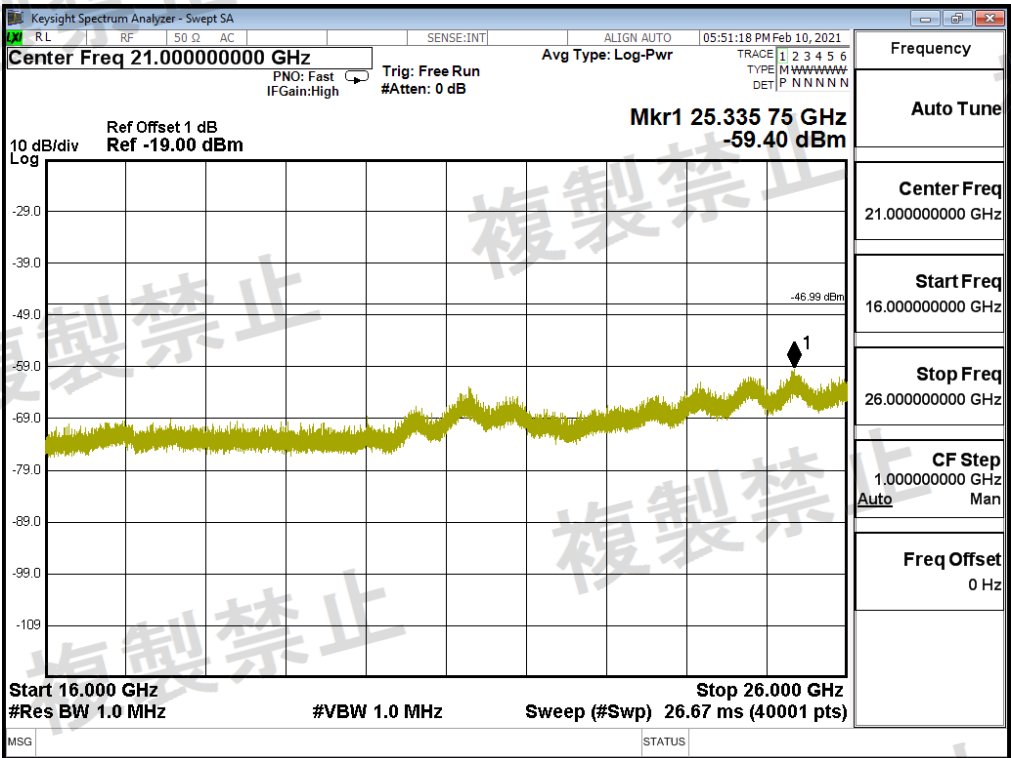
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

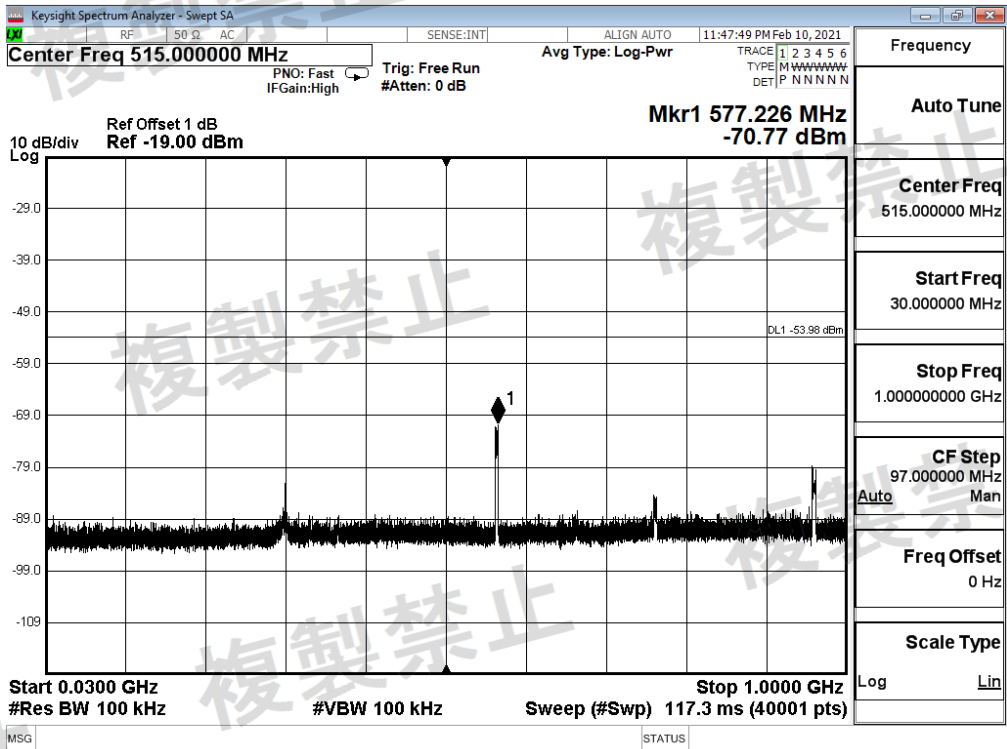


Test Result	PASS
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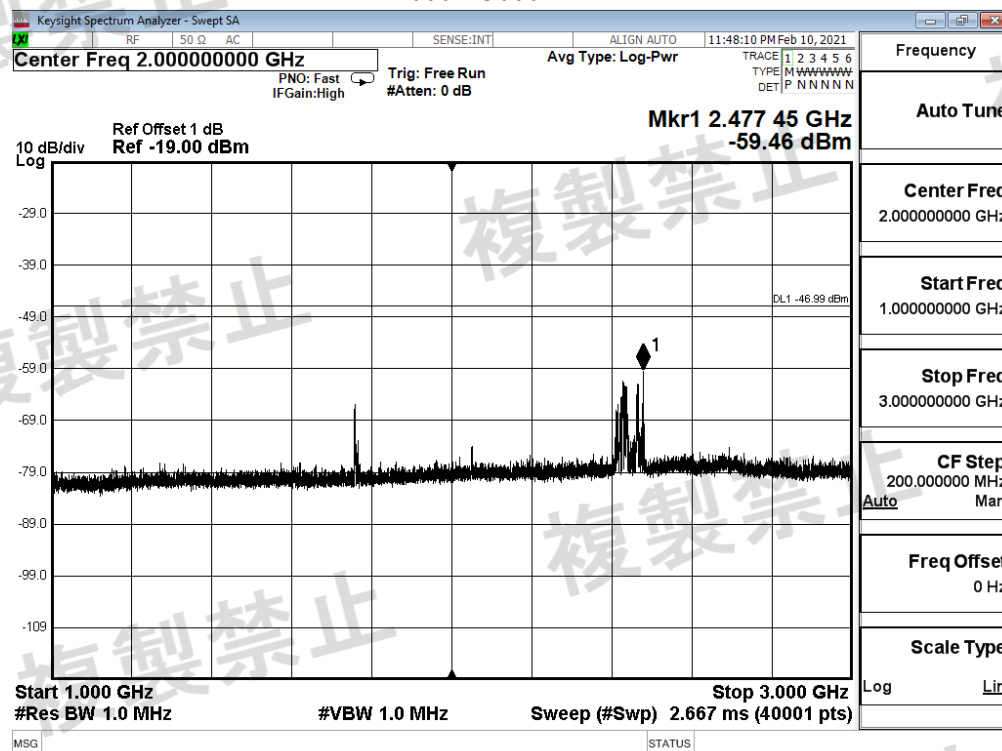
Product : Wireless module
Test Item : Receiver Spurious Emissions
Test Mode : Mode 2: Receiver (802.11ac-80BW) 5610MHz_Chain B (Dipole) (Panel)

Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-70.77	-54 (4nW)
		1000 - 3000	-59.46	-47 (20nW)
		3000 - 16000	-69.63	-47 (20nW)
		16000 - 26000	-60.51	-47 (20nW)

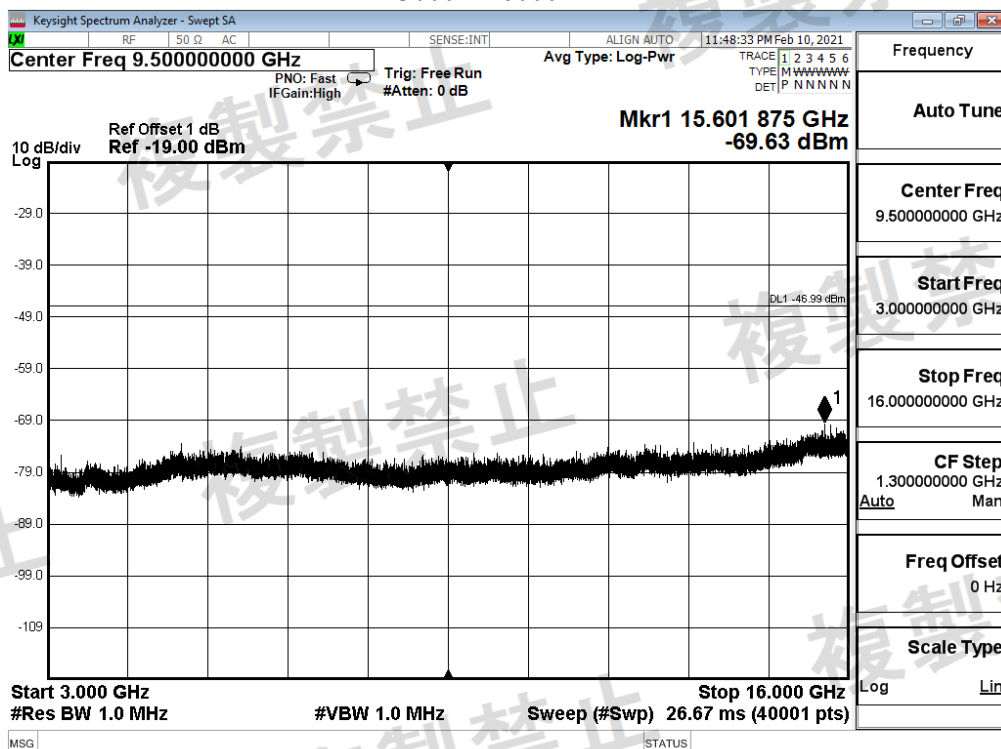
30 - 1000MHz



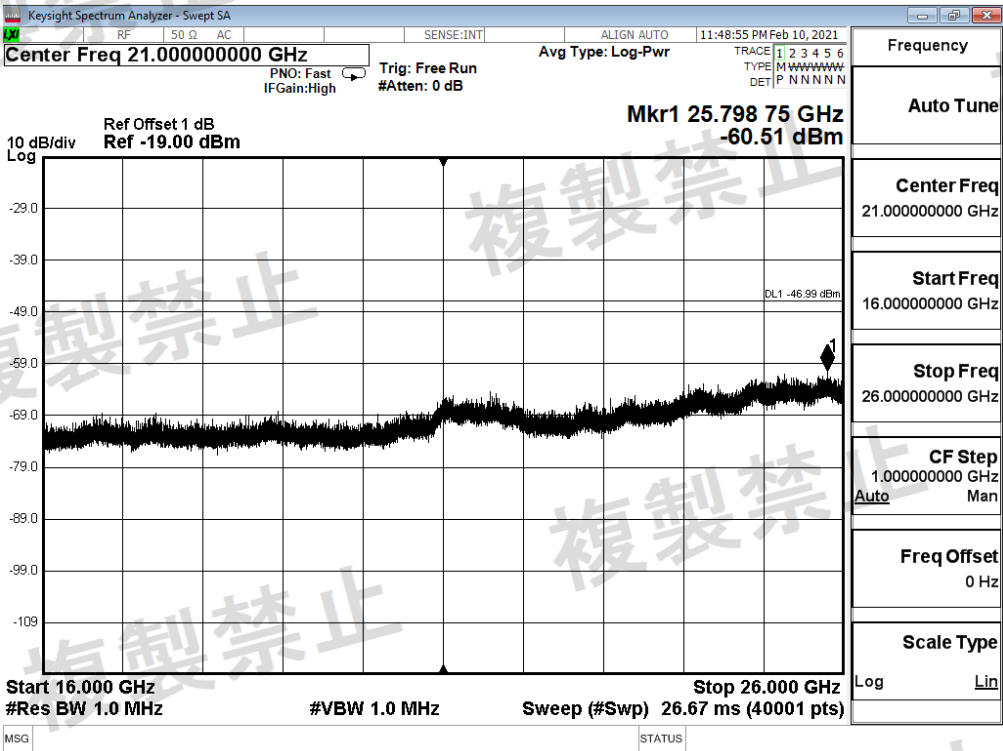
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz

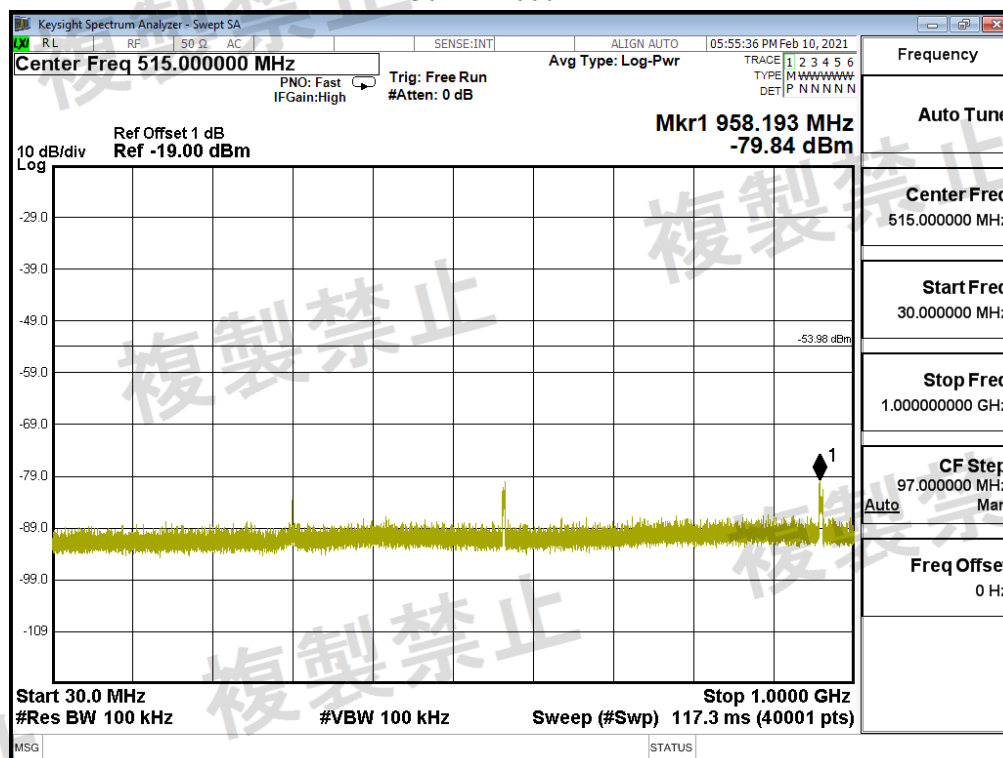


Test Result	PASS
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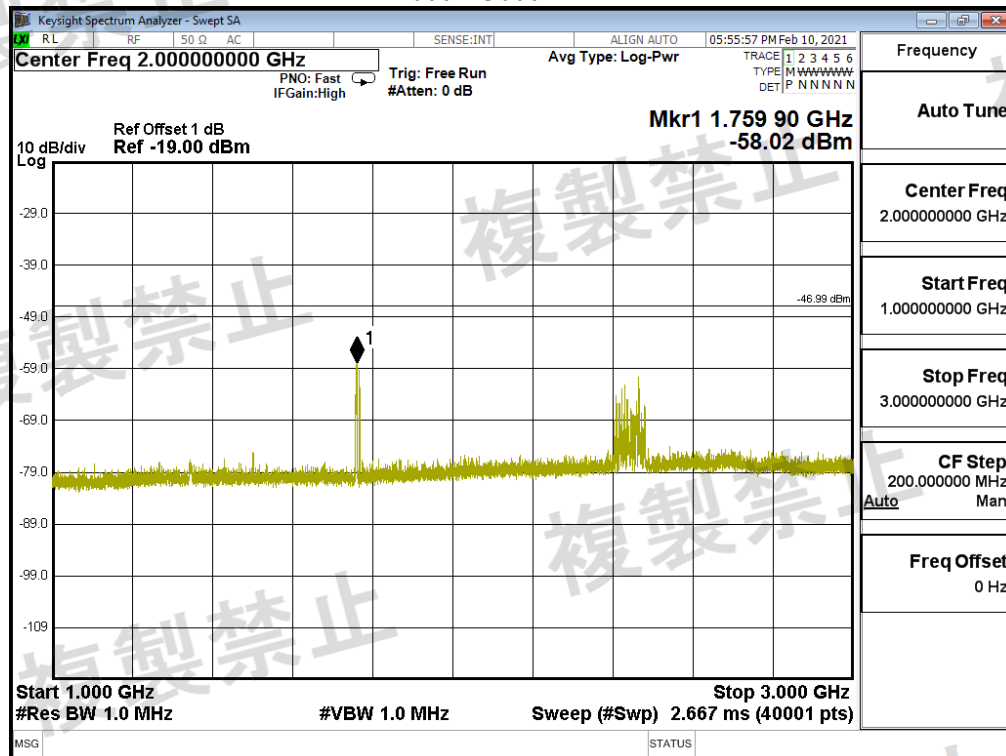
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-80BW) 5690MHz_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-79.84	-54 (4nW)
		1000 - 3000	-58.02	-47 (20nW)
		3000 - 16000	-57.72	-47 (20nW)
		16000 - 26000	-60.00	-47 (20nW)

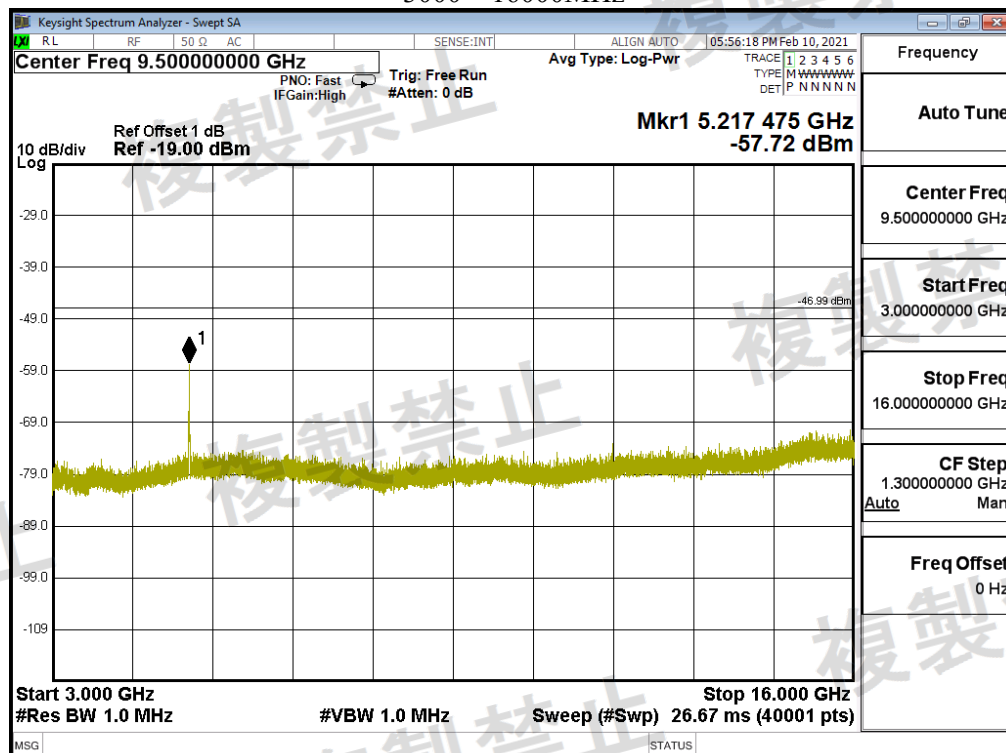
30 - 1000MHz



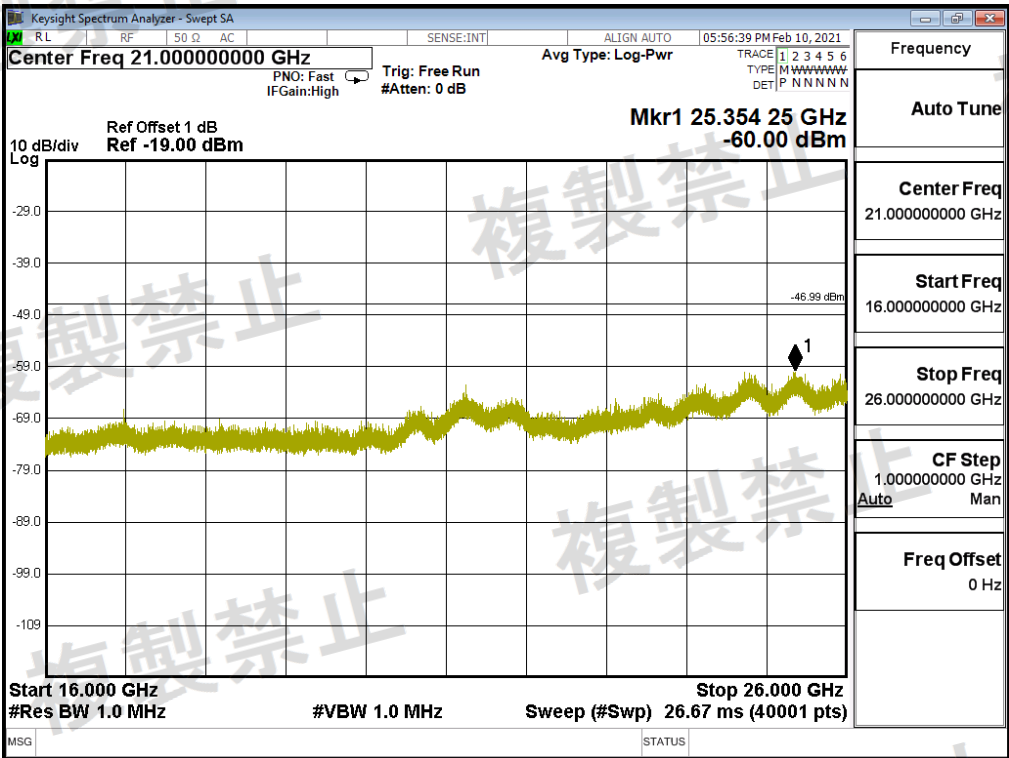
1000 – 3000MHz



3000 – 16000MHz



16000 – 26000MHz



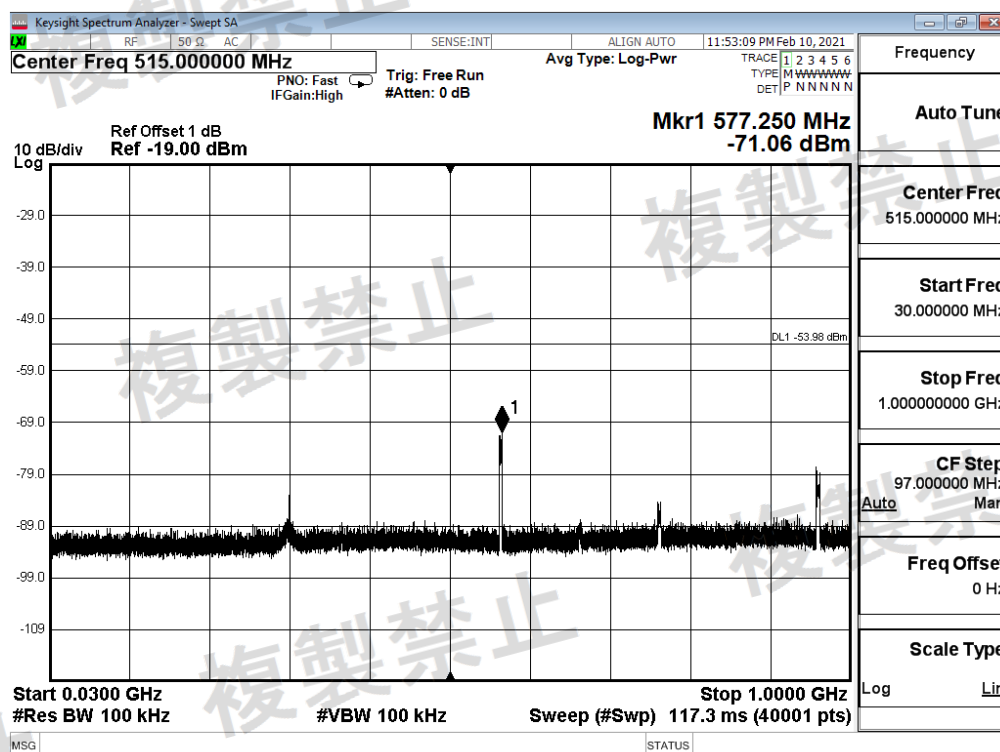
Test Result

PASS

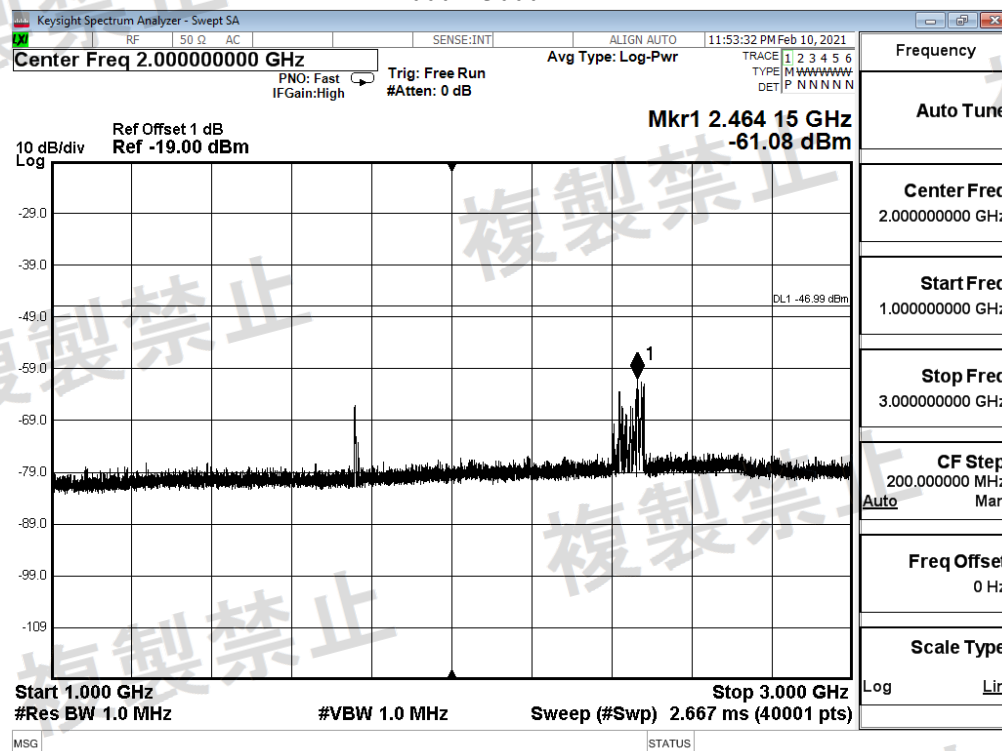
Product : Wireless module
 Test Item : Receiver Spurious Emissions
 Test Mode : Mode 2: Receiver (802.11ac-80BW) 5690MHz_Chain B (Dipole) (Panel)

Chain B				
Test Conditions		Frequency Range (MHz)	Reading Value (dBm)	Limit (dBm)
Tnom (25 °C)	Vnom (100 V)	30 - 1000	-71.07	-54 (4nW)
		1000 - 3000	-61.08	-47 (20nW)
		3000 - 16000	-69.90	-47 (20nW)
		16000 - 26000	-60.60	-47 (20nW)

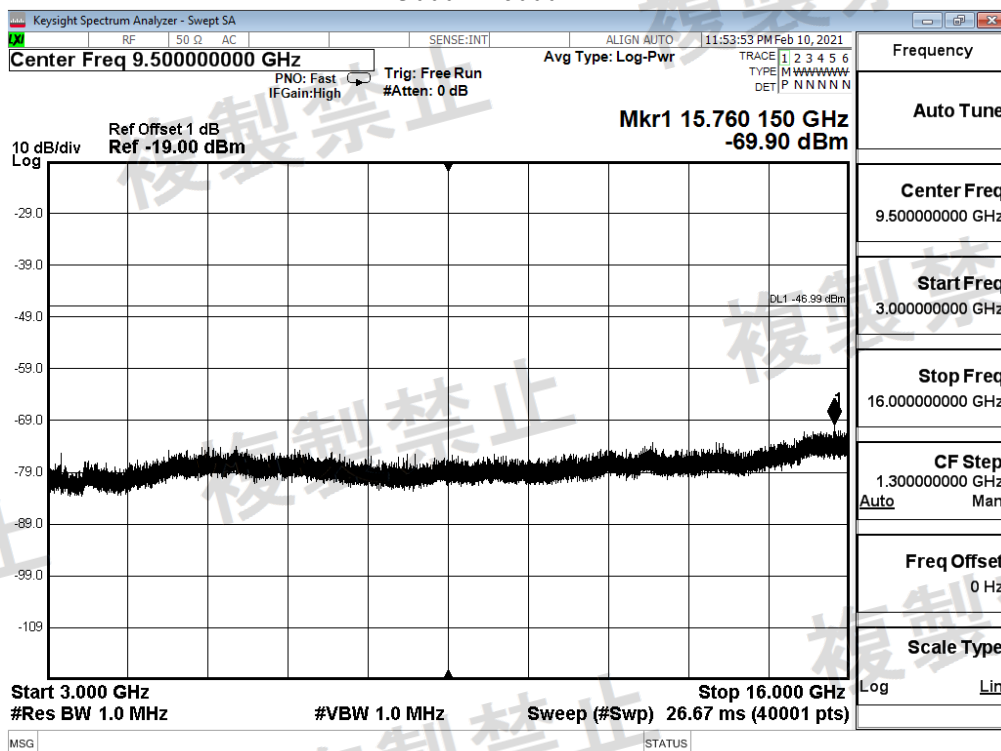
30 - 1000MHz



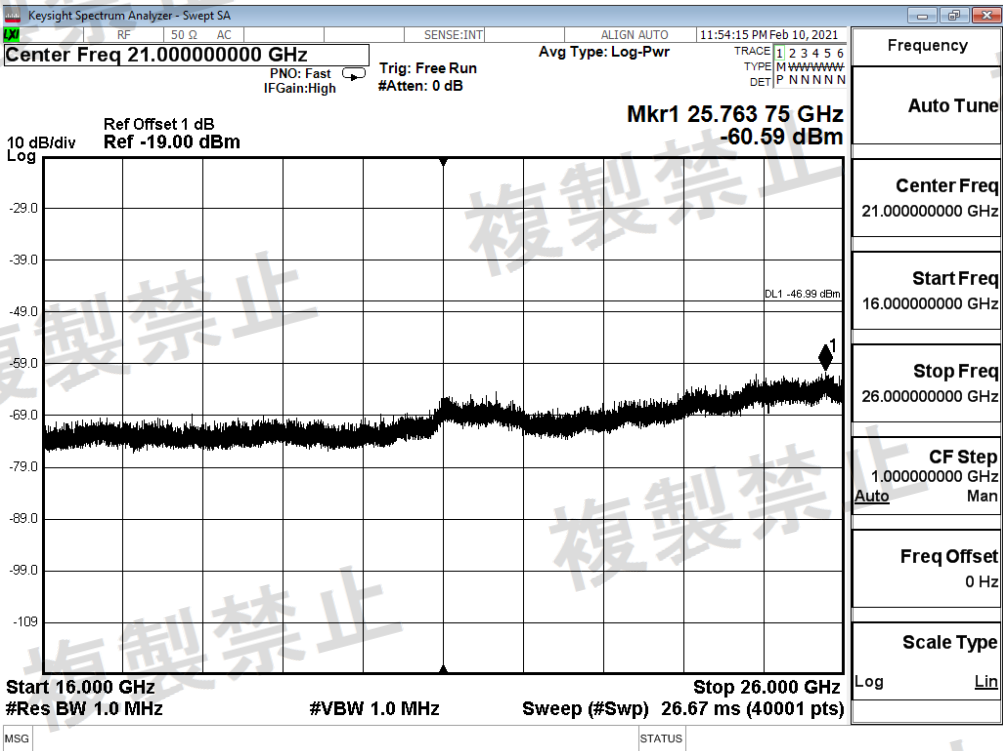
1000 – 3000MHz



3000 – 16000MHz



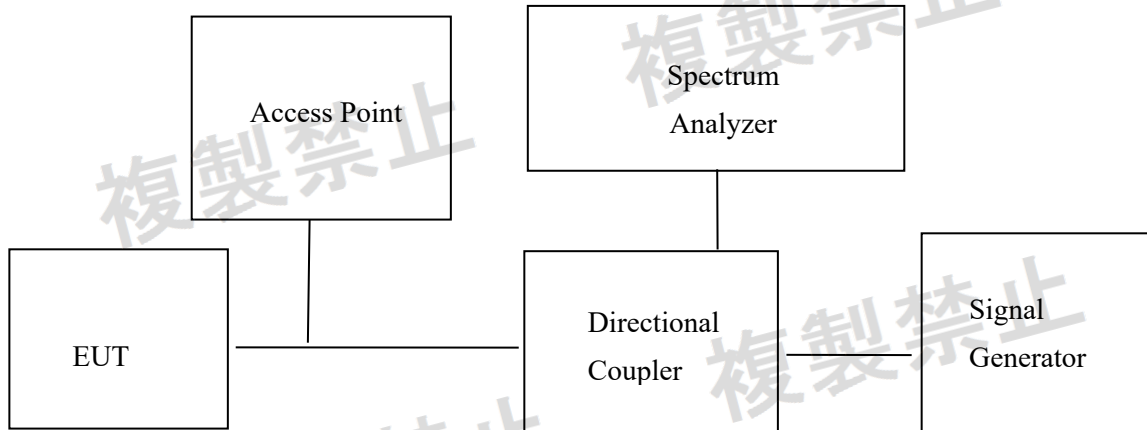
16000 – 26000MHz



Test Result	PASS
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10. Carrier Sensing

10.1. Test Setup



10.2. Test Procedure

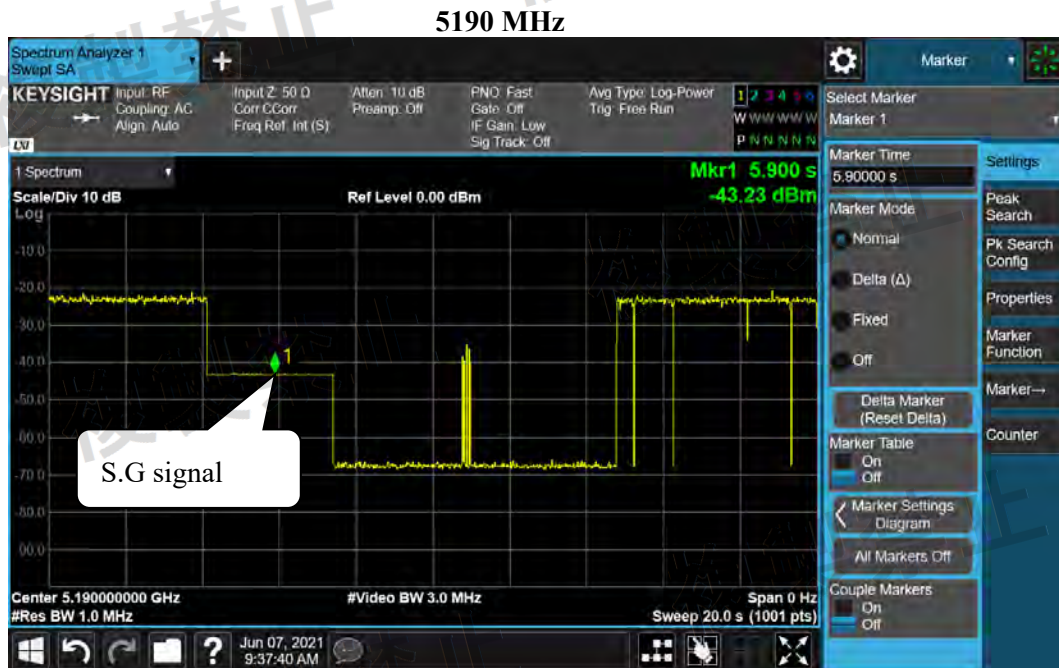
- Link EUT and Access Point to Directional Coupler input port.
- Link Signal Generator and Spectrum Analyzer to test port and output port in the Directional Coupler separately.
- A positive Peak Detector function in Spectrum Analyzer must be used.
- Set the Span to Zero.
- Press the Signal Generator on and it will output the Carrier Signal. When the Link breaks off, wait a minute and press the Signal Generator off. After a while, reset the Link and done the test.

10.3. Limits

Stop transmission while Carrier detecting.

10.4. Test Result of Carrier Sensing

Product : Wireless module
 Test Item : Carrier Sensing
 Test Mode : Transmit (802.11n40-45Mbps)



Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

G: Antenna Gain

F: operation frequency

Power level = $22.79 + 8.61 - 20\log(5190\text{MHz}) = -42.903$

5230 MHz



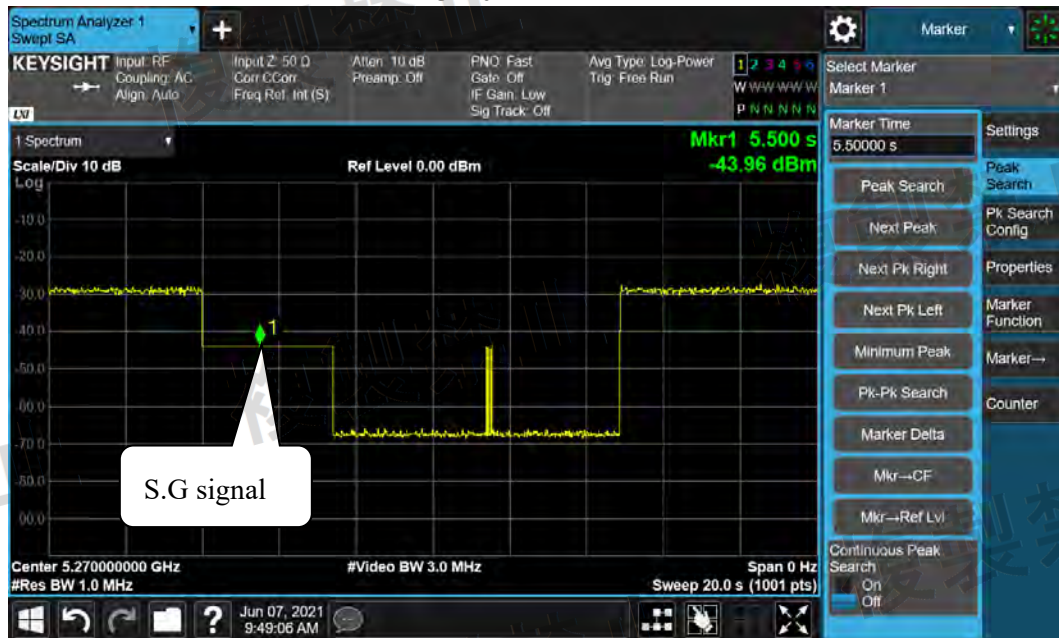
Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

G: Antenna Gain

F: operation frequency

Power lever = $22.79 + 8.61 - 20\log(5230\text{MHz}) = -42.97$

5270 MHz



Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

G: Antenna Gain

F: operation frequency

Power lever = $22.79 + 8.15 - 20\log(5270\text{MHz}) = -43.496$

5310 MHz



Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

G: Antenna Gain

F: operation frequency

Power lever = $22.79 + 8.15 - 20\log(5310\text{MHz}) = -43.562$

5510 MHz



Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

G: Antenna Gain

F: operation frequency

Power lever = $22.79 + 8.87 - 20\log(5510\text{MHz}) = -43.163$

5590 MHz



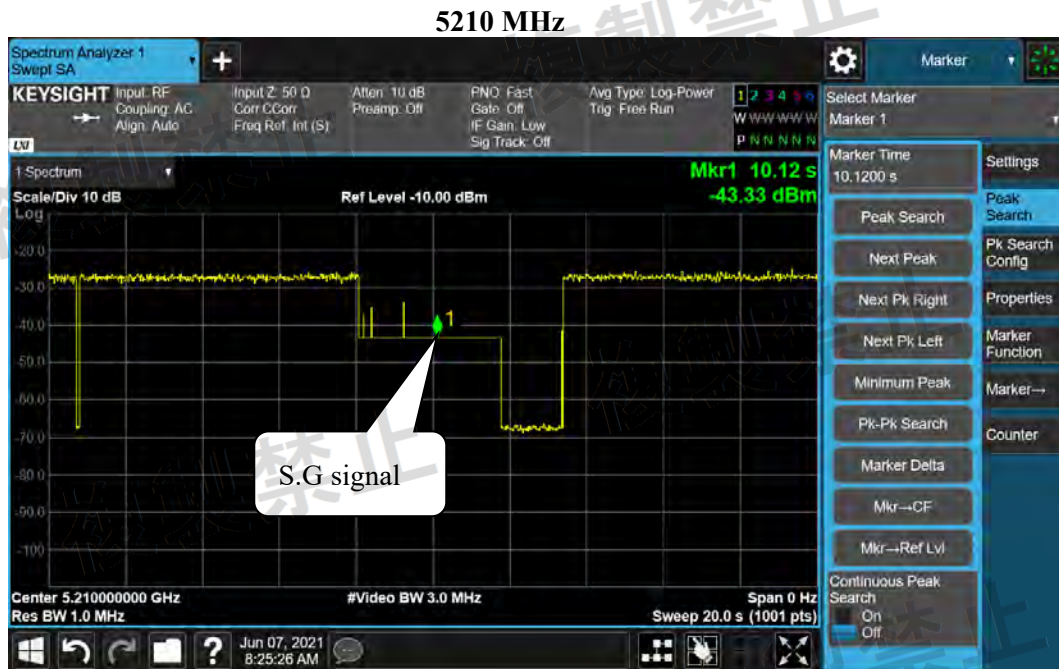
Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

G: Antenna Gain

F: operation frequency

Power lever = $22.79 + 8.87 - 20\log(5590\text{MHz}) = -43.288$

Product : Wireless module
Test Item : Carrier Sensing
Test Mode : Transmit (802.11ac-80BW-32.5Mbps)

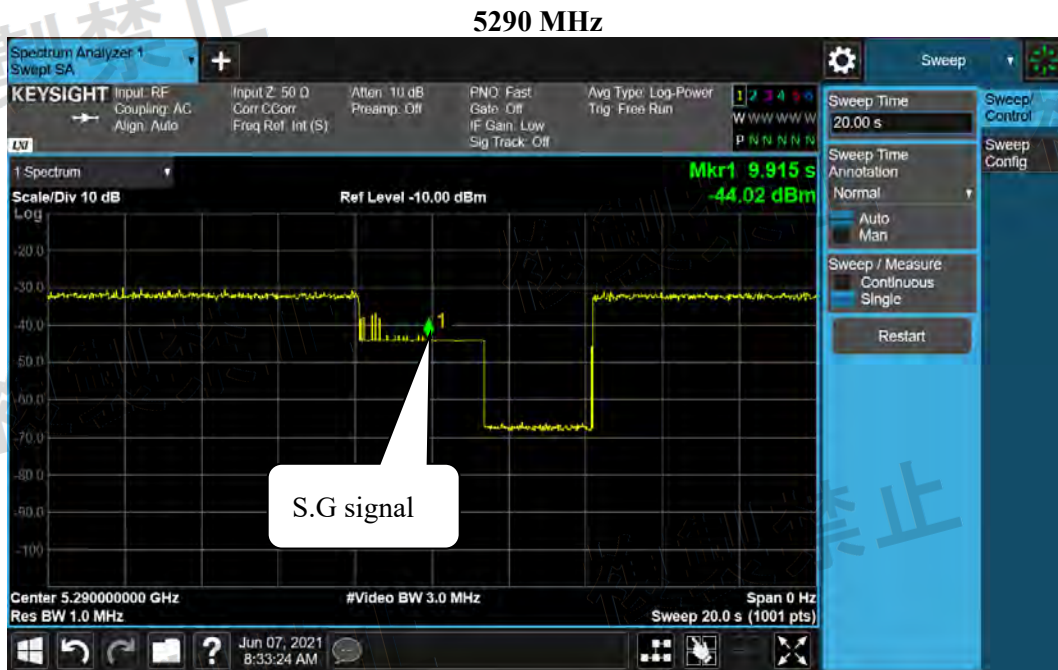


Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

G: Antenna Gain

F: operation frequency

Power lever = $22.79 + 8.61 - 20\log(5210\text{MHz}) = -42.937$

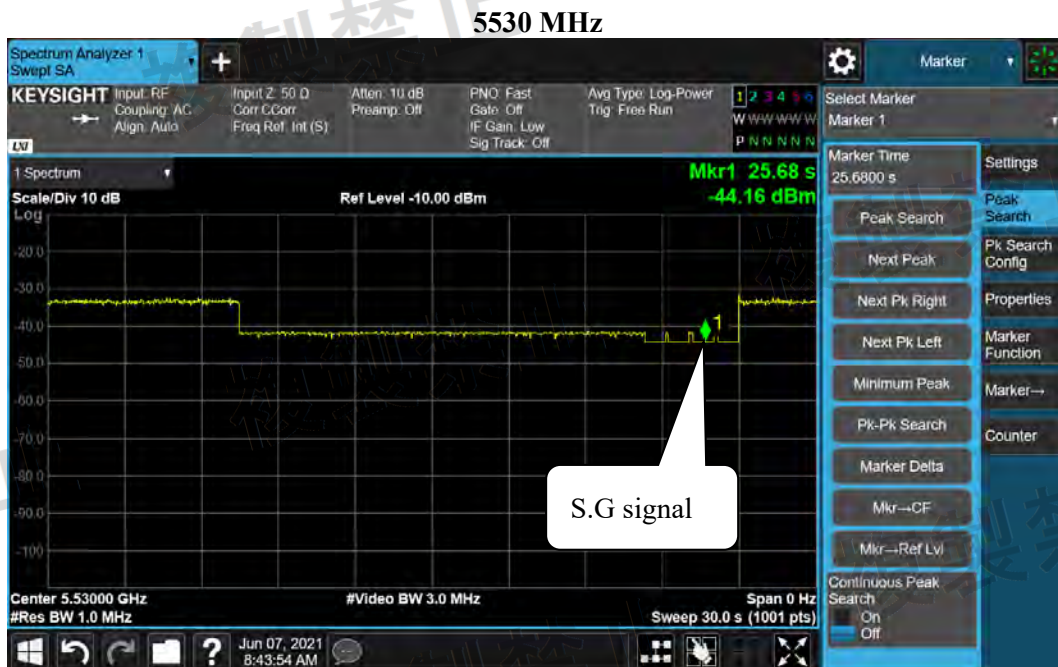


Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

G: Antenna Gain

F: operation frequency

Power lever = $22.79 + 8.15 - 20\log(5290\text{MHz}) = -43.529$



Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

G: Antenna Gain

F: operation frequency

Power lever = $22.79 + 8.87 - 20\log(5530\text{MHz}) = -43.195$

5610 MHz



Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

G: Antenna Gain

F: operation frequency

Power lever = $22.79 + 8.87 - 20\log(5610\text{MHz}) = -43.319$

5690 MHz



Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$

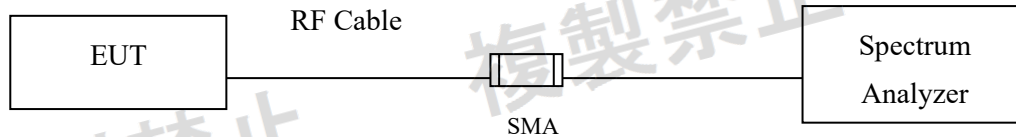
G: Antenna Gain

F: operation frequency

Power lever = $22.79 + 8.87 - 20\log(5690\text{MHz}) = -43.442$

11. Transmission burst length

11.1. Test Setup



11.2. Test Procedure

A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

- A positive peak detector function must be used.
- The center frequency is set to the test frequency and the span is switched to zero.
- The measurement instrument bandwidth must be set sufficiently with, and, the scan time set sufficiently slow, to ensure all major modulation products are captured. Note that the measurement bandwidth should also be set sufficiently narrow to avoid adding significant error to the test result.
- "Single sweep" mode may be used to capture a packet over a single scan.

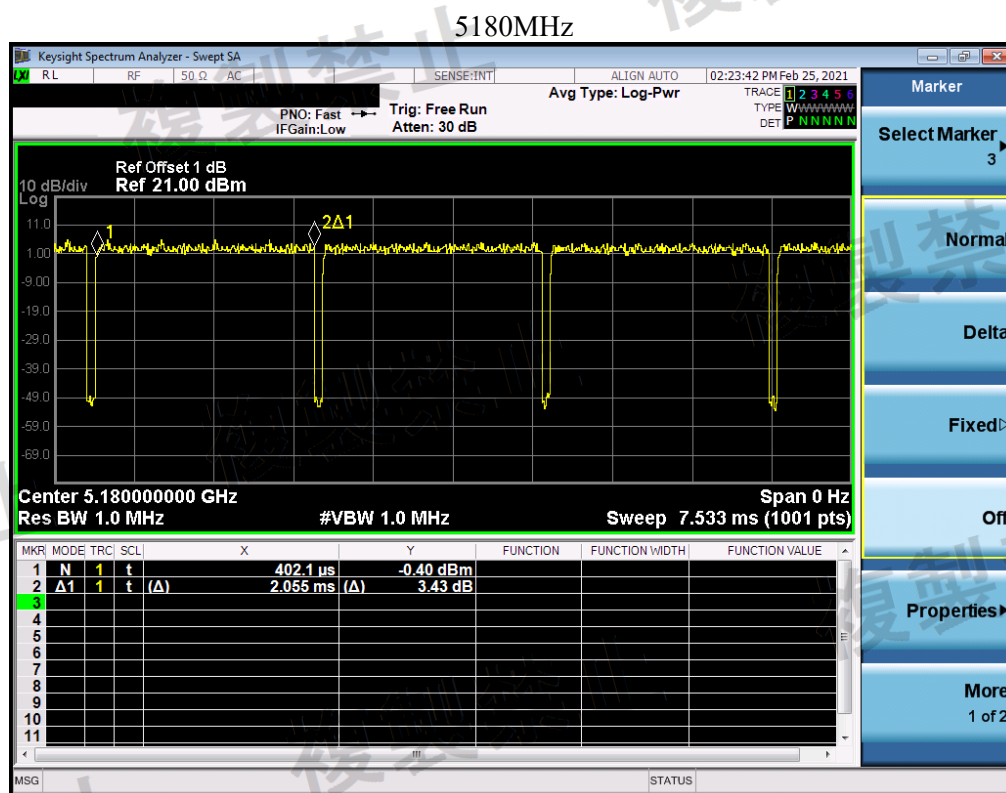
11.3. Limits

$\leq 8\text{ms}$

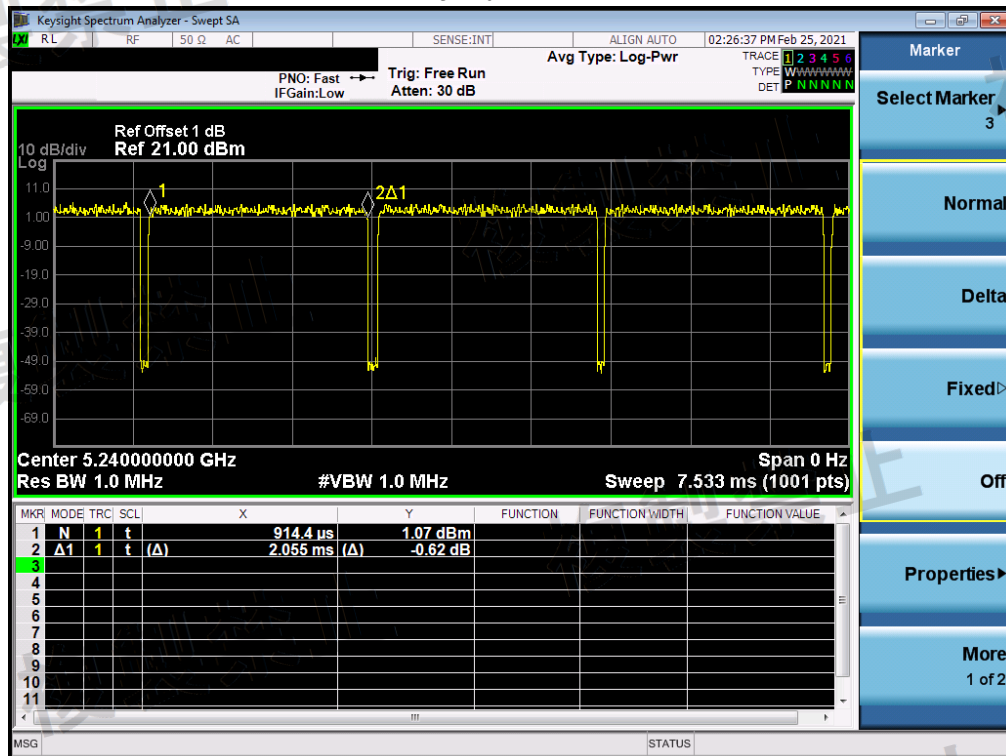
11.4. Test Result of Transmission burst length

Product : Wireless module
 Test Item : Transmission burst length
 Test Mode : Mode 1: Transmit (802.11a) Chain A (Dipole) (Panel)

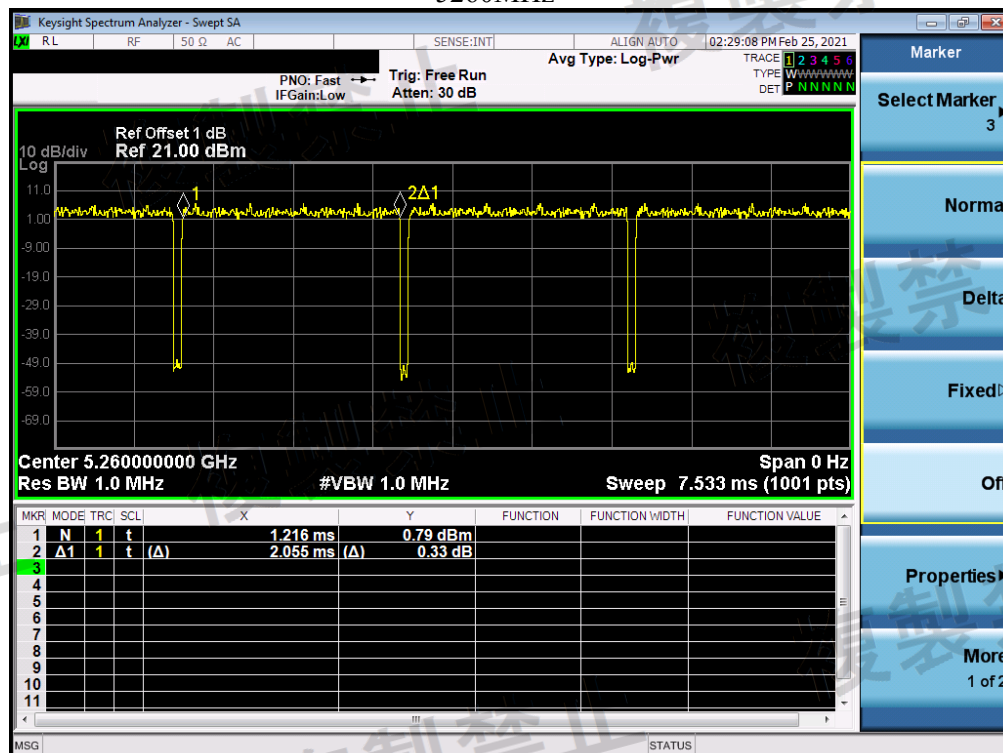
Chain A				
Test Conditions		Frequency (MHz)	Reading Value (ms)	Limit (ms)
Tnom (25 °C)	Vnom (100 V)	5180	2.055	≤ 8
		5240	2.055	≤ 8
		5260	2.055	≤ 8
		5320	2.055	≤ 8
		5500	2.055	≤ 8
		5600	2.055	≤ 8
		5700	2.055	≤ 8



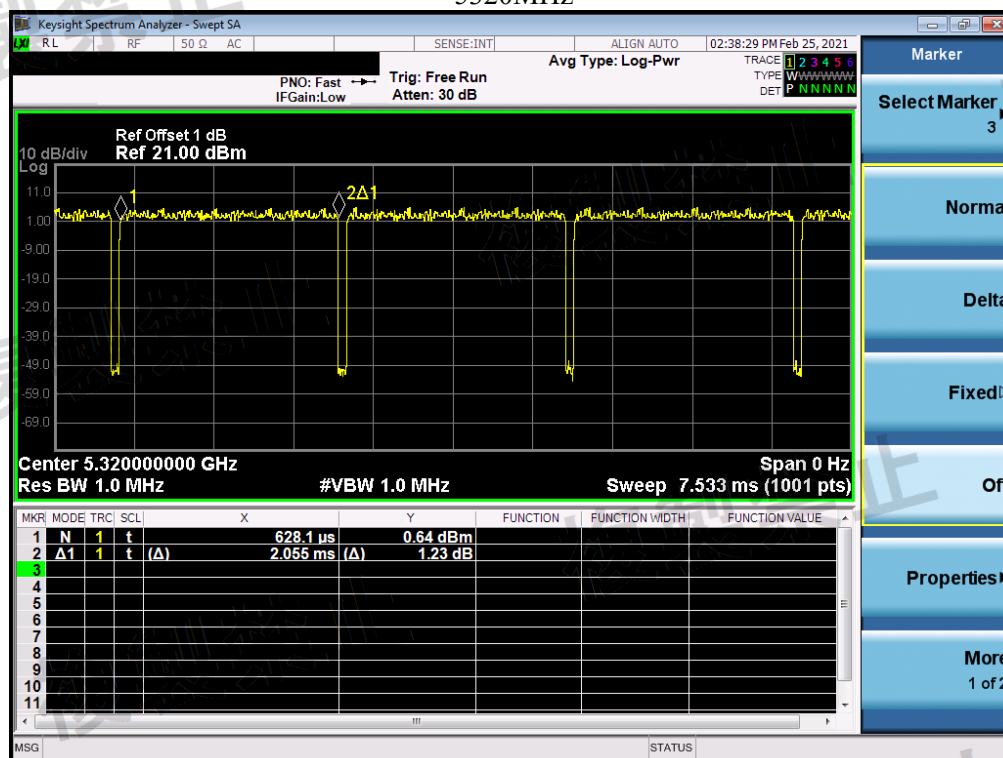
5240MHz



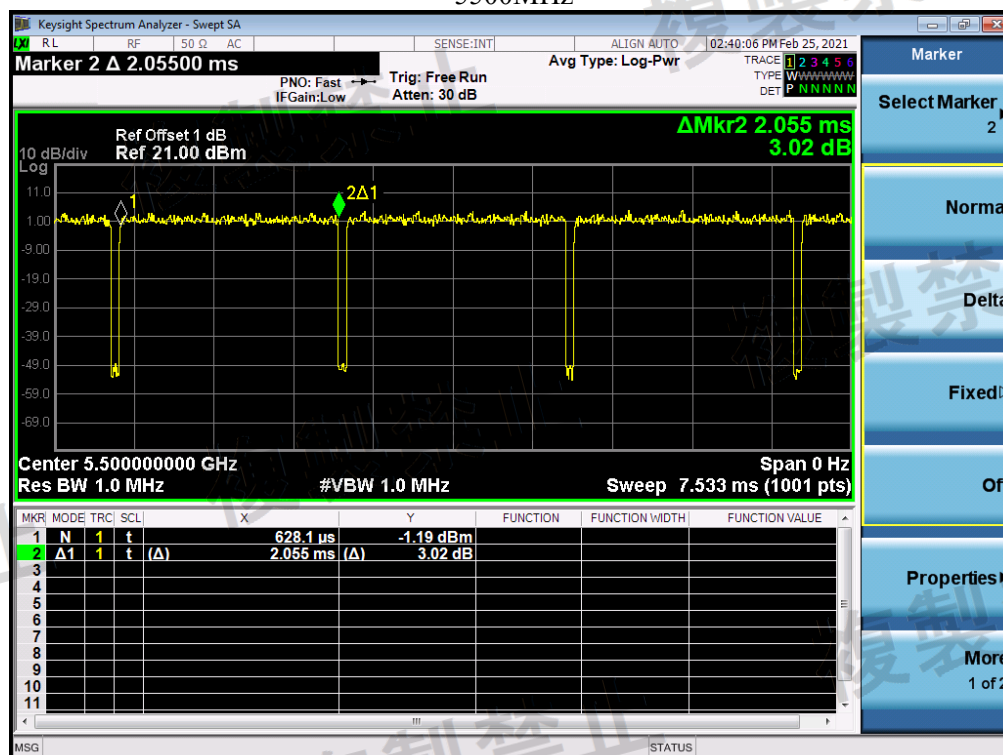
5260MHz



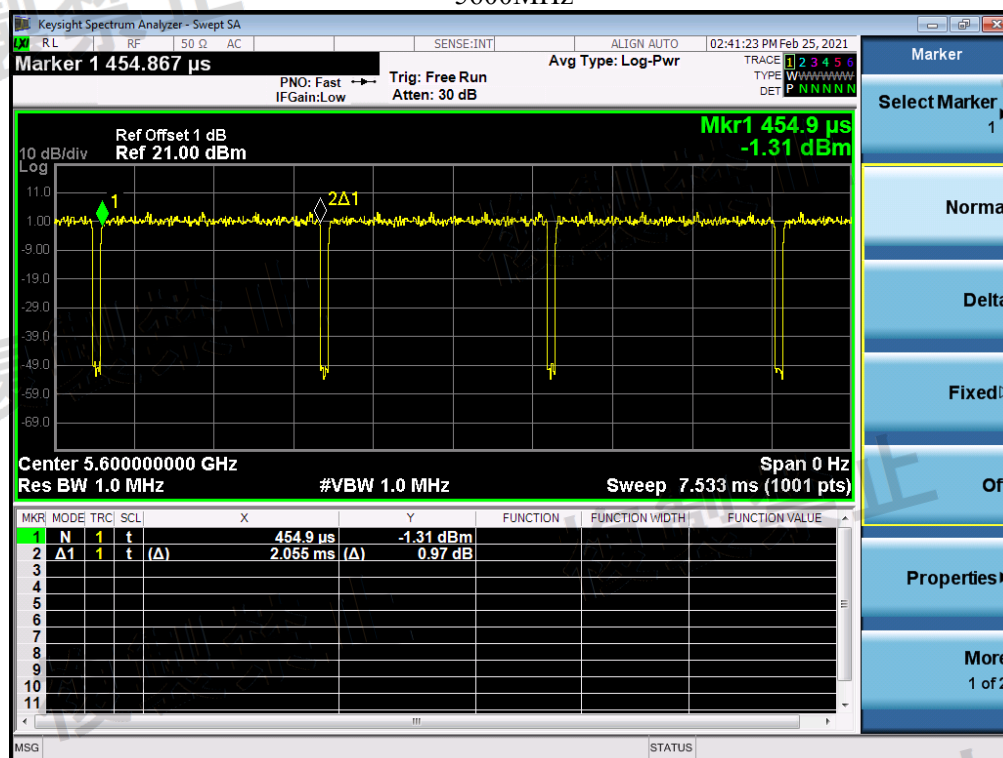
5320MHz



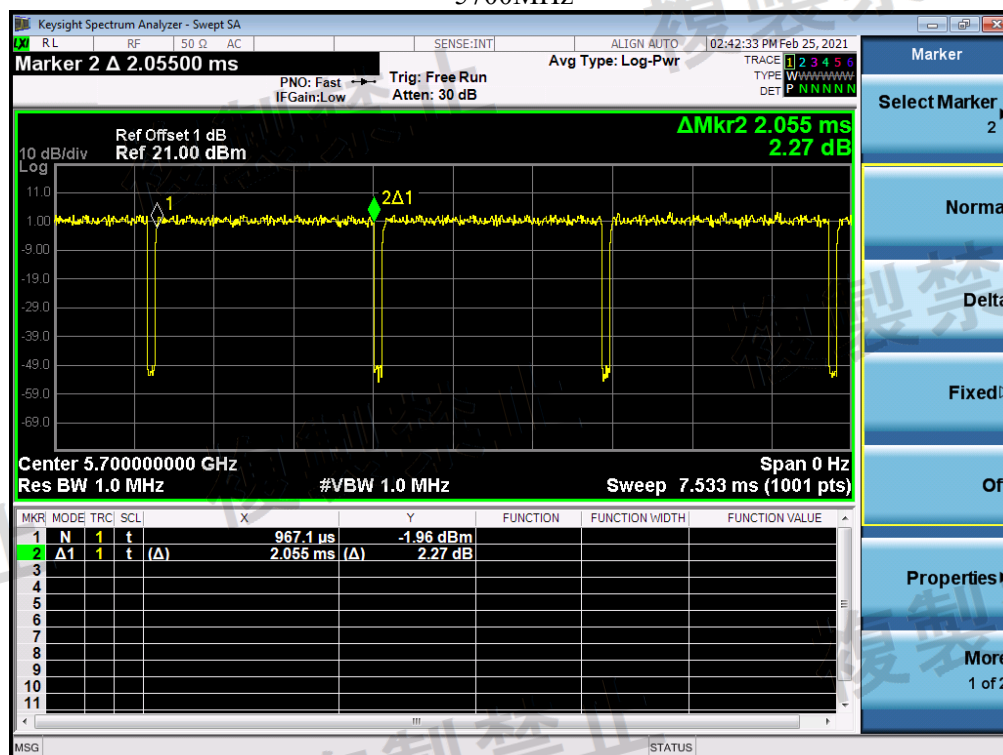
5500MHz



5600MHz



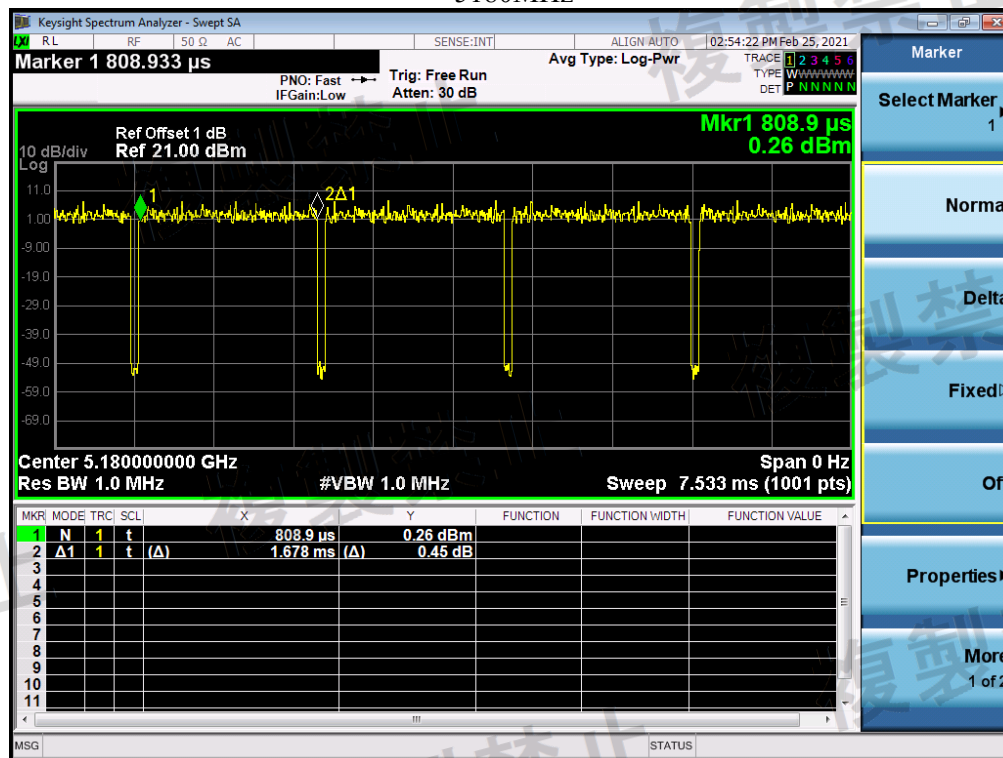
5700MHz



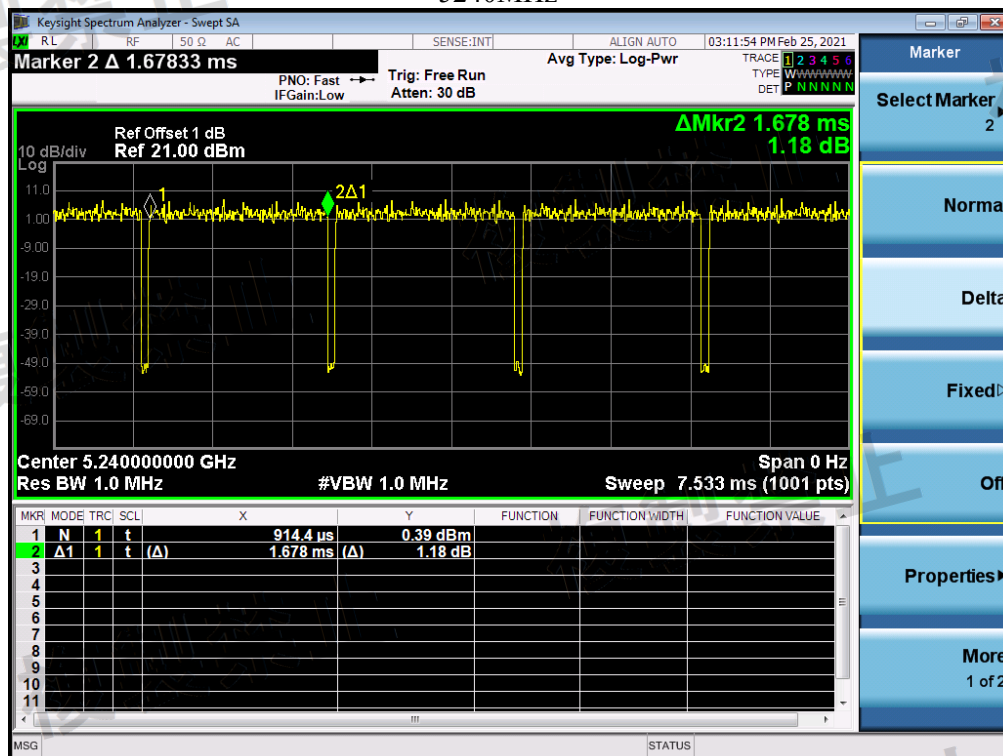
Product : Wireless module
 Test Item : Transmission burst length
 Test Mode : Mode 1: Transmit (802.11ac-20BW)_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency (MHz)	Reading Value (ms)	Limit (ms)
Tnom (25 °C)	Vnom (100 V)	5180	1.678	≤ 8
		5240	1.678	≤ 8
		5260	1.678	≤ 8
		5320	1.678	≤ 8
		5500	1.678	≤ 8
		5600	1.678	≤ 8
		5700	1.678	≤ 8
		5720	1.678	≤ 8

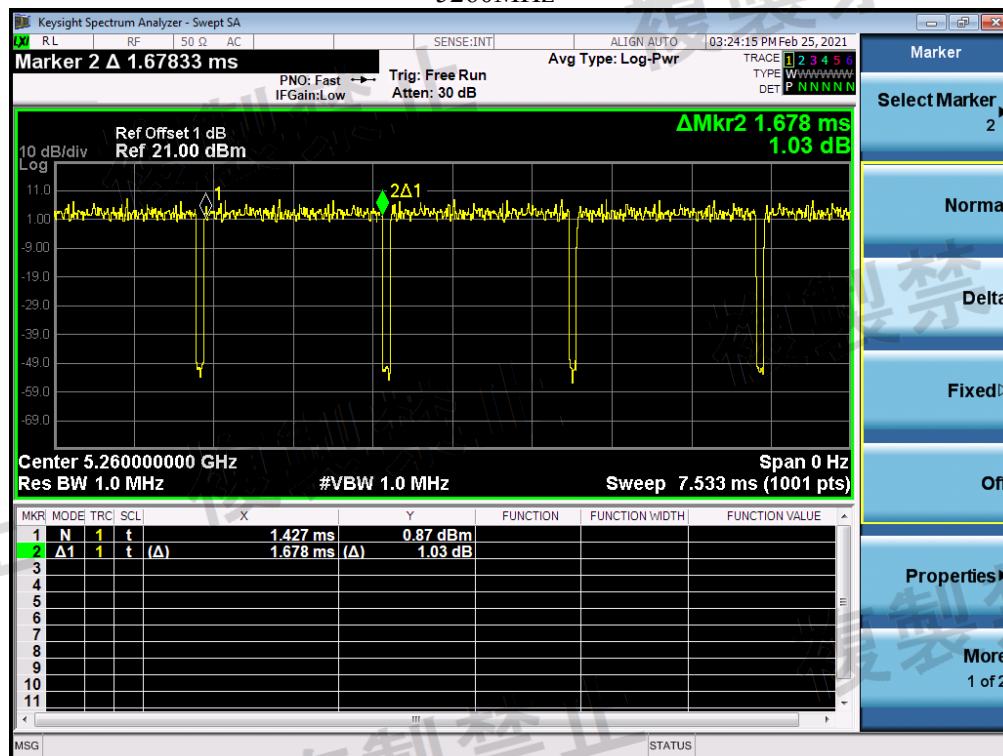
5180MHz



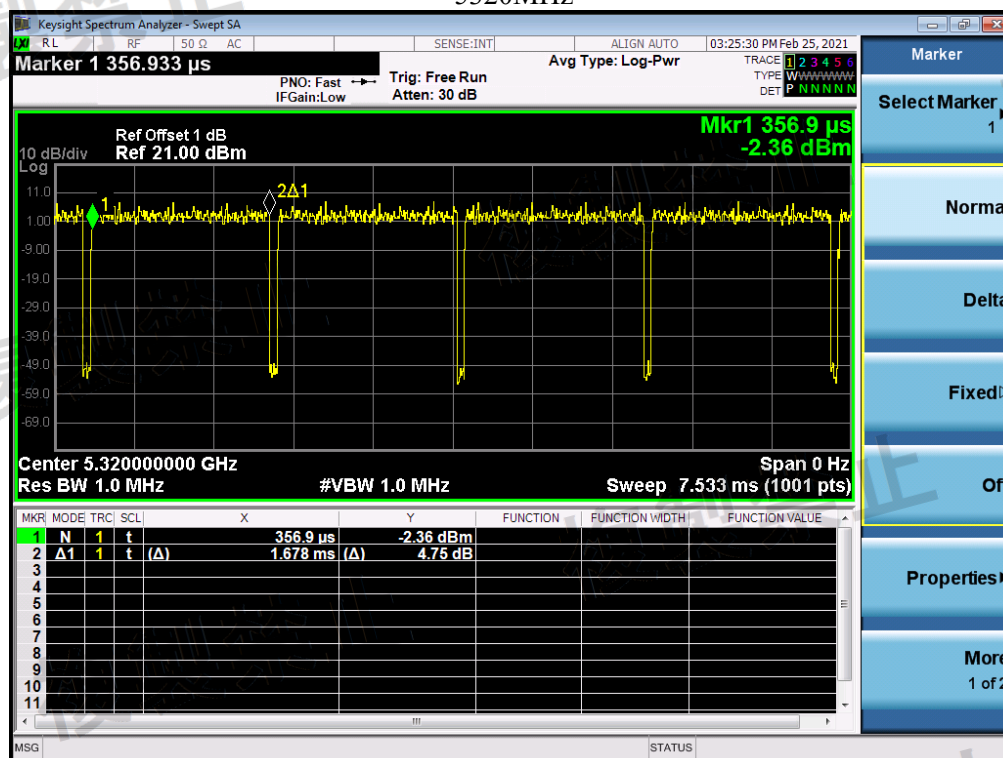
5240MHz



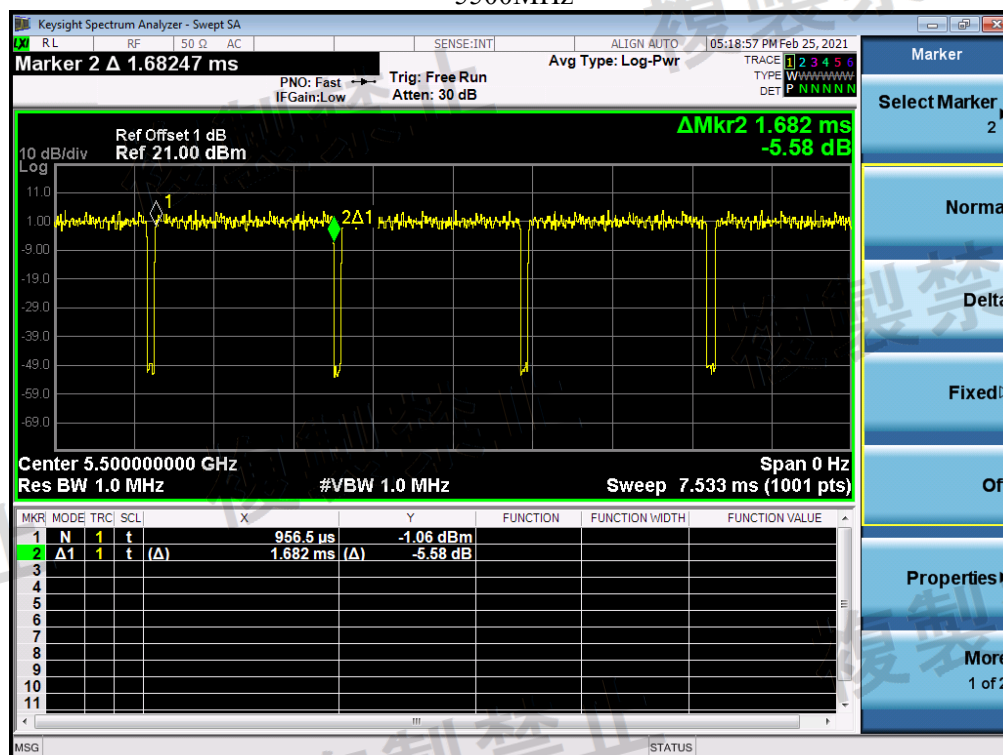
5260MHz



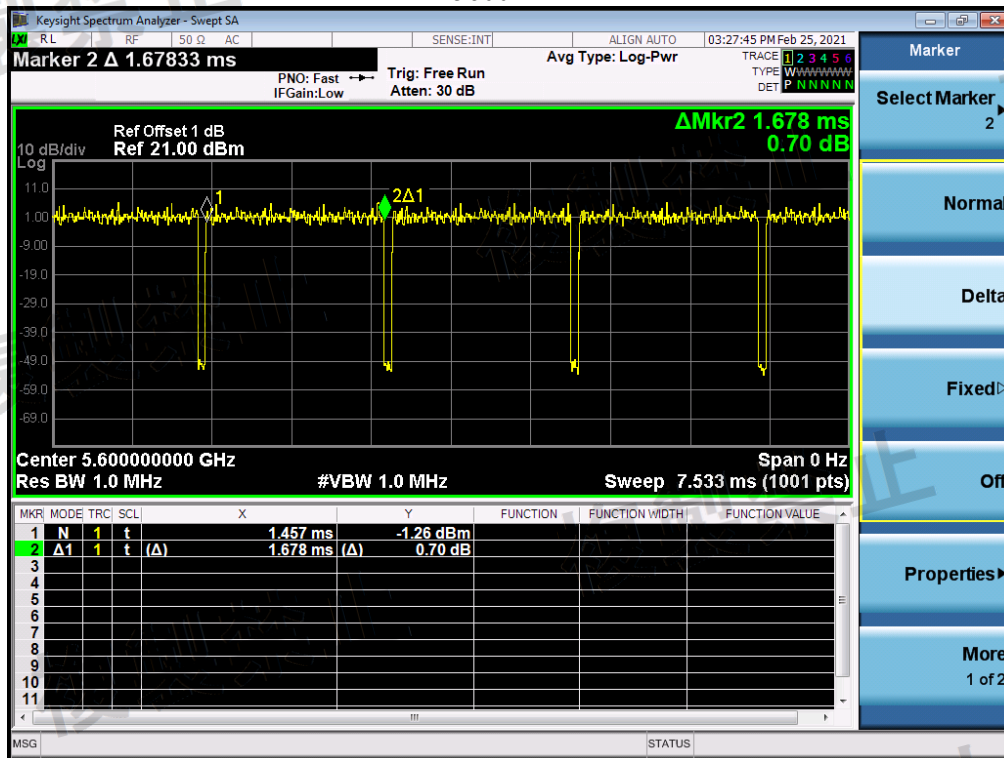
5320MHz



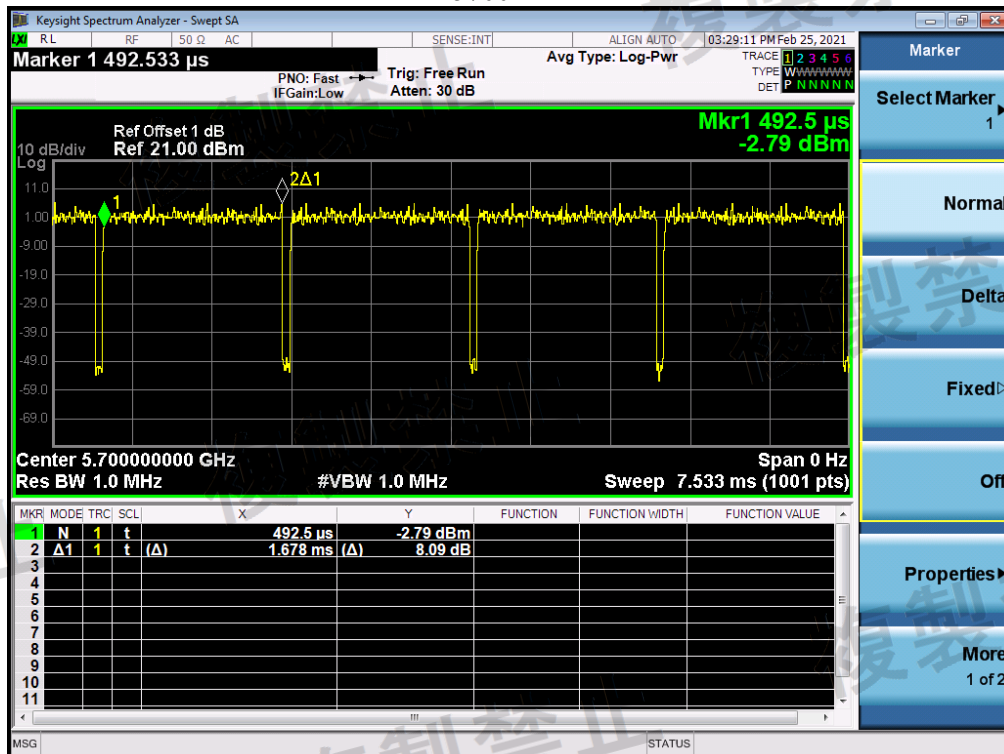
5500MHz

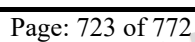


5600MHz



5700MHz

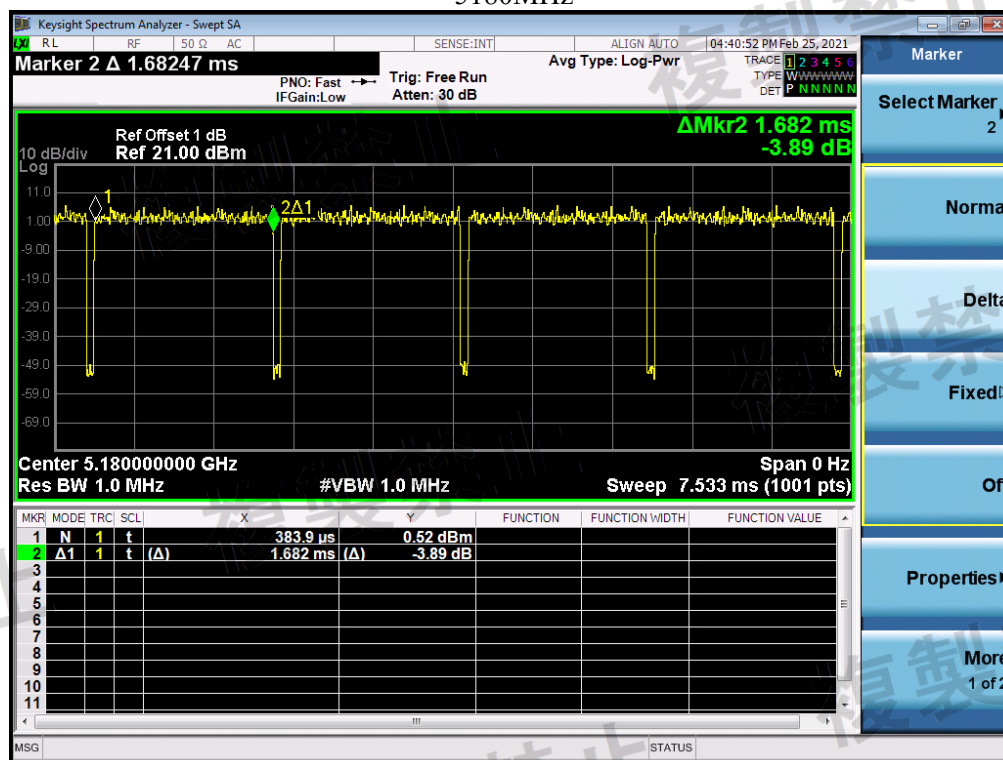




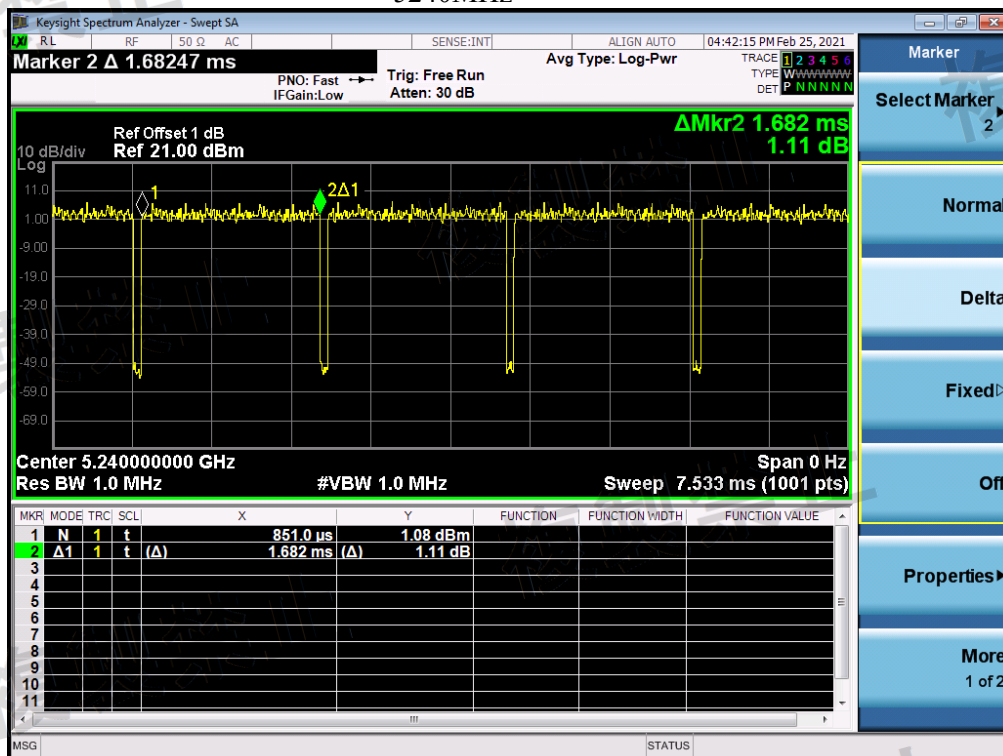
Product : Wireless module
 Test Item : Transmission burst length
 Test Mode : Mode 1: Transmit (802.11ac-20BW)_Chain B (Dipole) (Panel)

Chain B			
Test Conditions	Frequency (MHz)	Reading Value (ms)	Limit (ms)
Tnom (25 °C) Vnom (100 V)	5180	1.682	≤ 8
	5240	1.682	≤ 8
	5260	1.682	≤ 8
	5320	1.682	≤ 8
	5500	1.678	≤ 8
	5600	1.682	≤ 8
	5700	1.682	≤ 8
	5720	1.69	≤ 8

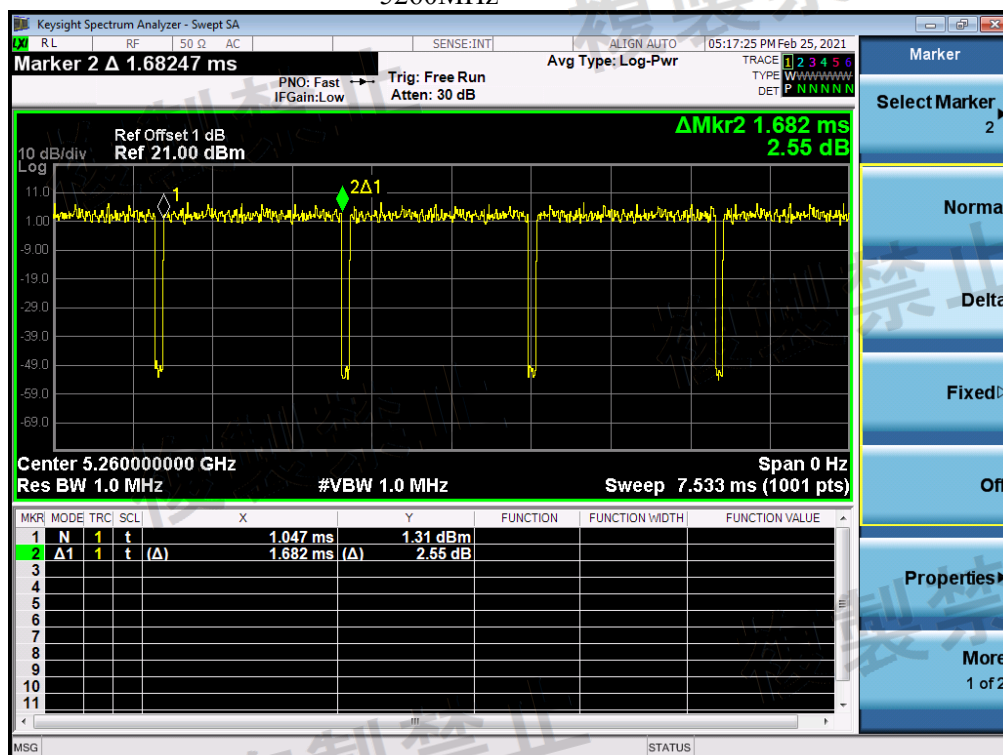
5180MHz



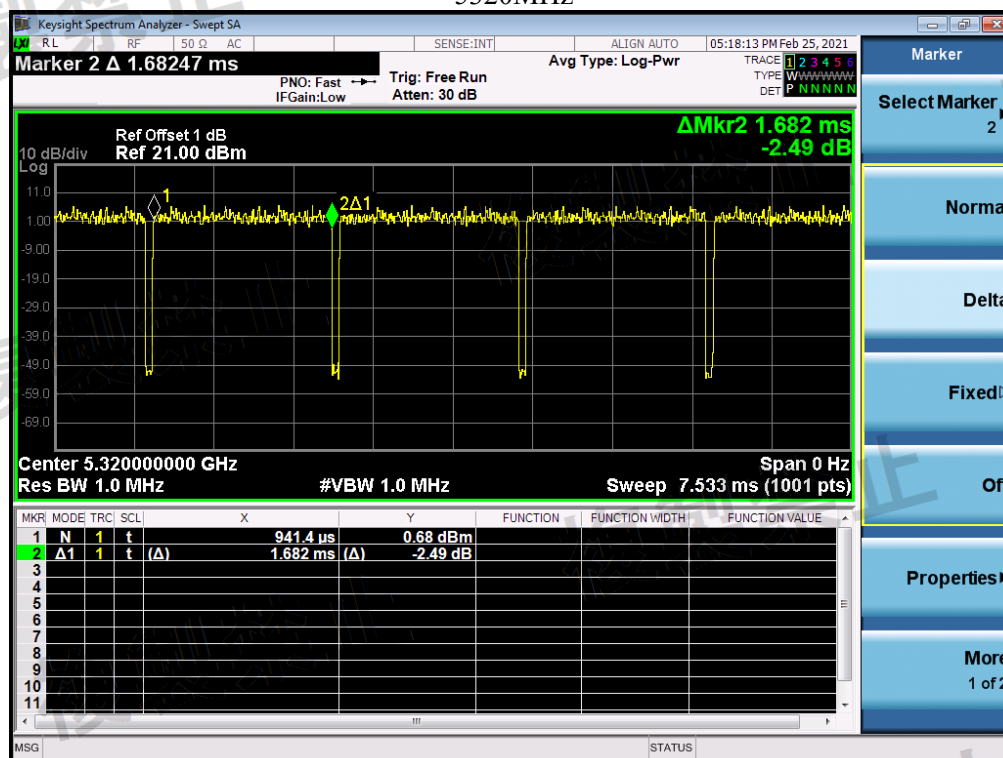
5240MHz



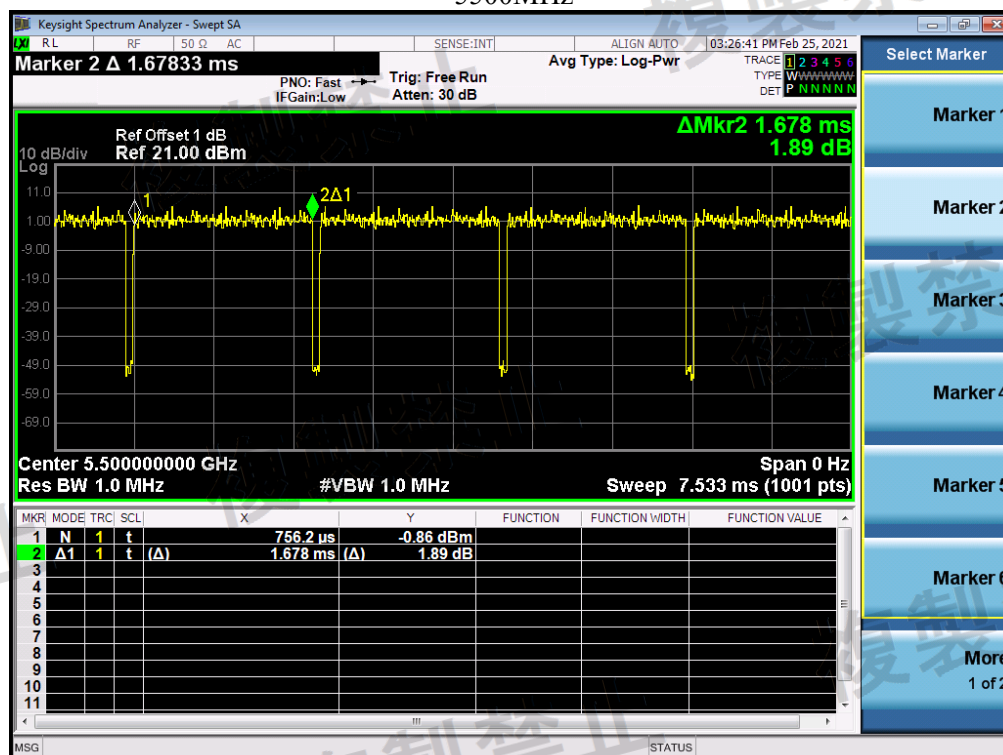
5260MHz



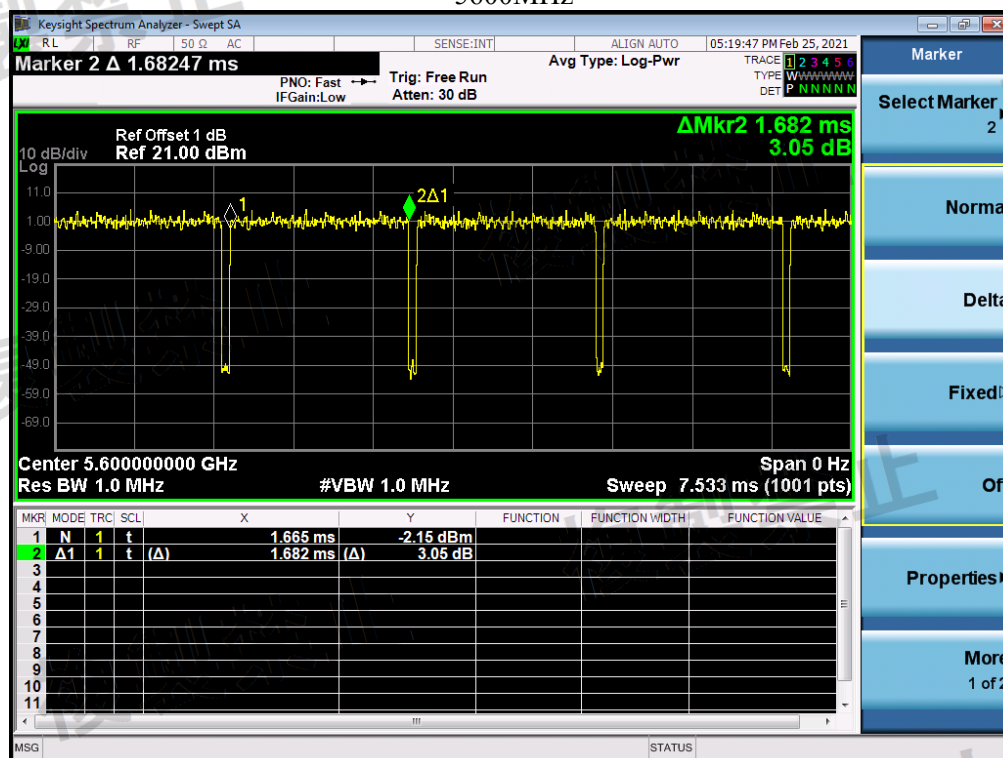
5320MHz



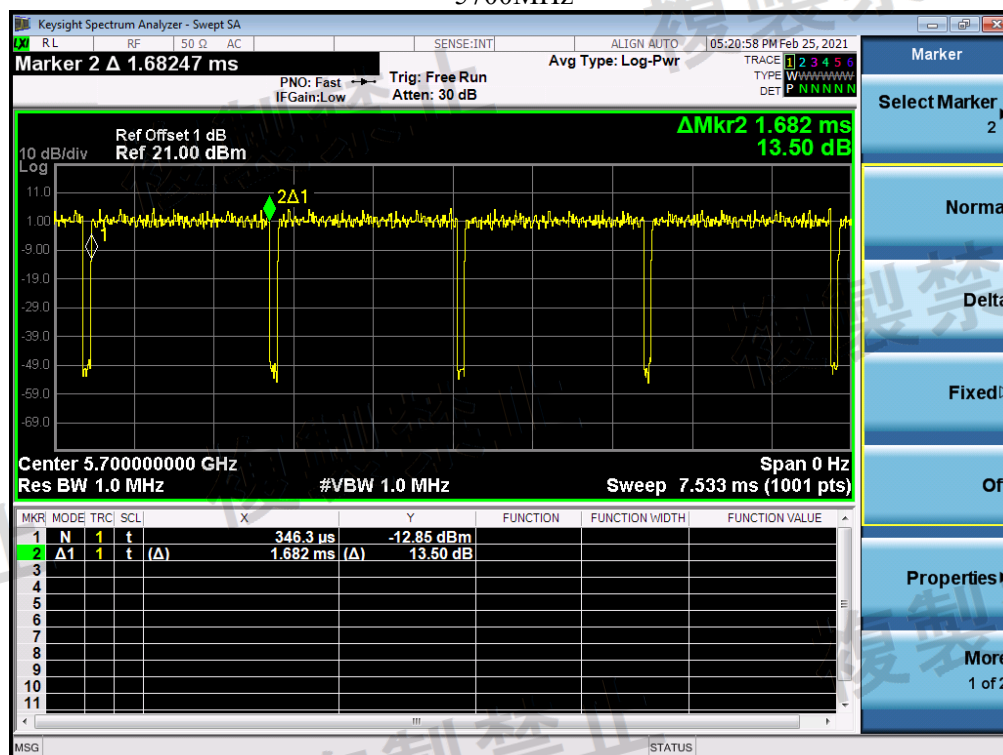
5500MHz



5600MHz



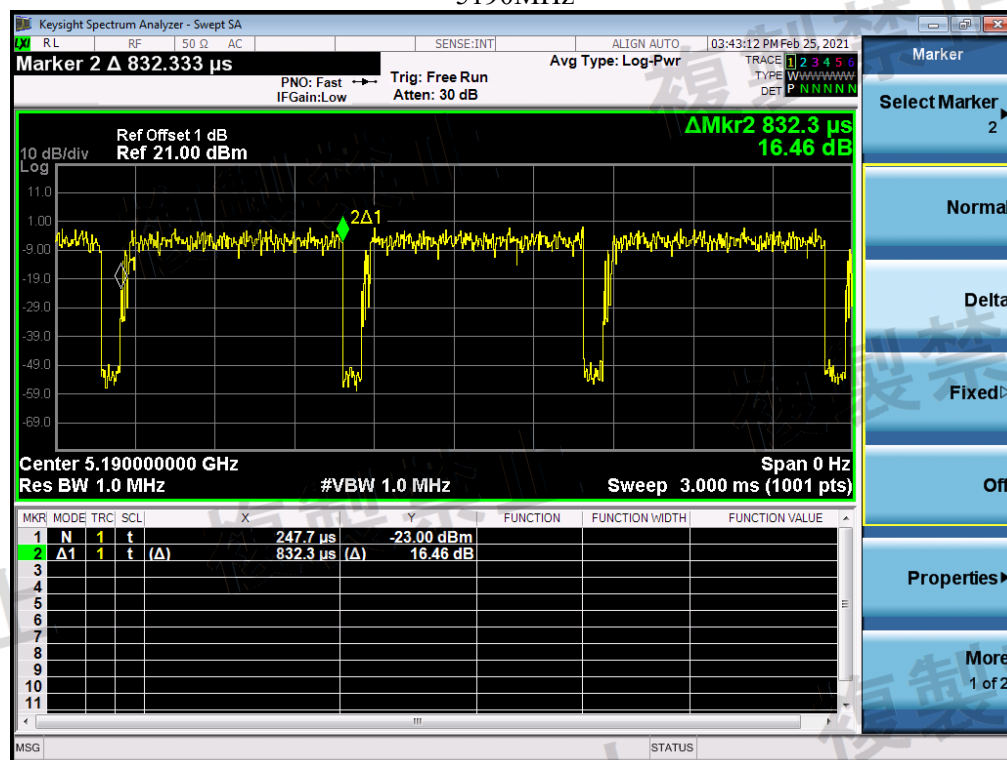
5700MHz



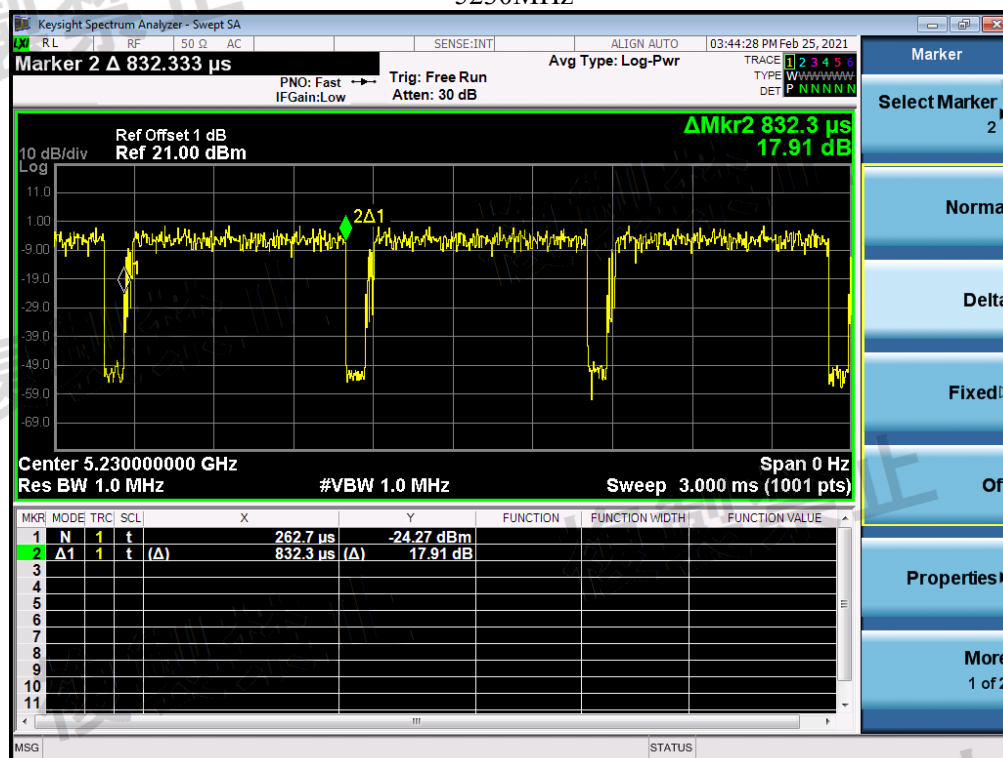
Product : Wireless module
 Test Item : Transmission burst length
 Test Mode : Mode 1: Transmit (802.11ac-40BW)_Chain A (Dipole) (Panel)

Chain A				
Test Conditions		Frequency (MHz)	Reading Value (ms)	Limit (ms)
Tnom (25 °C)	Vnom (100 V)	5190	0.8323	≤ 8
		5230	0.8323	≤ 8
		5270	0.8323	≤ 8
		5310	0.8323	≤ 8
		5510	0.8323	≤ 8
		5590	0.8353	≤ 8
		5670	0.8353	≤ 8
		5710	0.8323	≤ 8

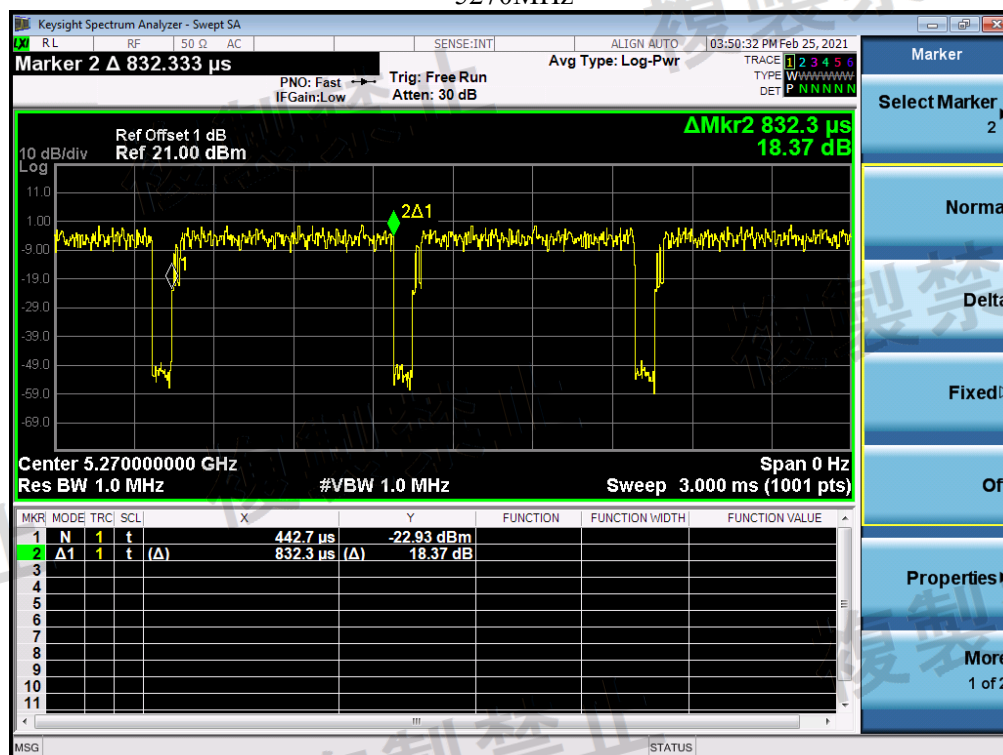
5190MHz



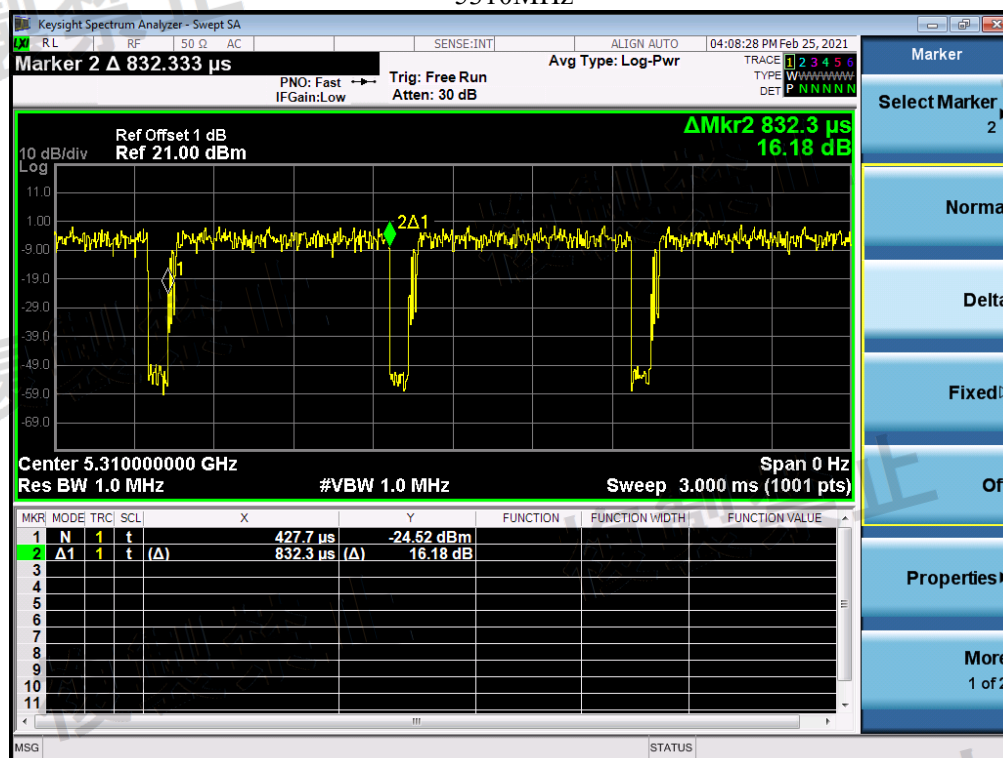
5230MHz



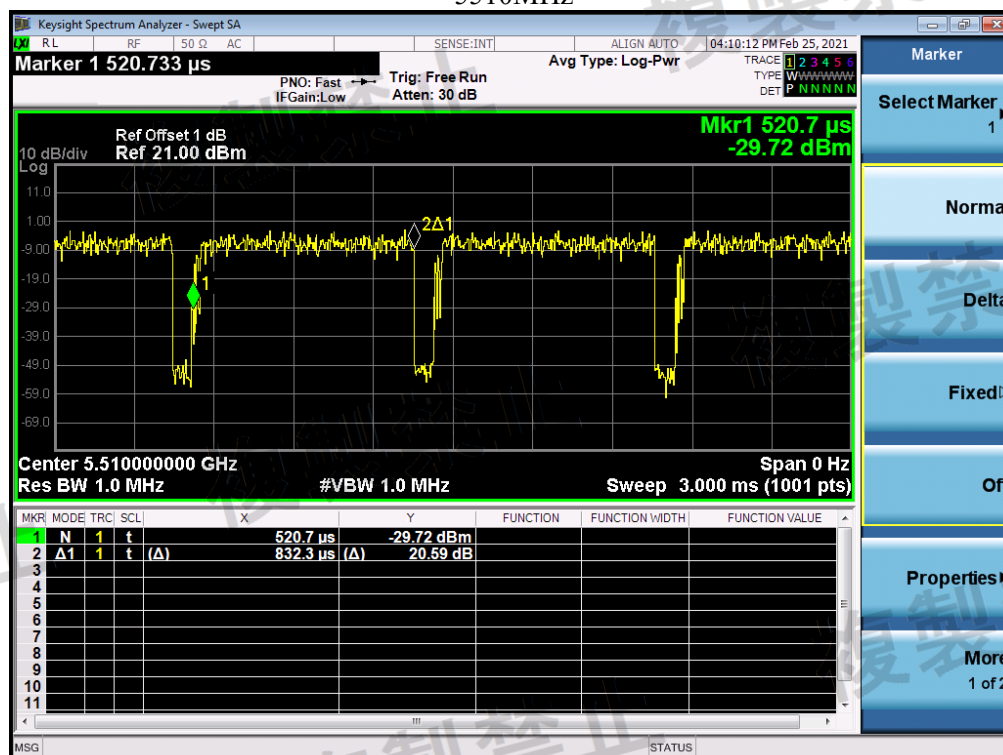
5270MHz



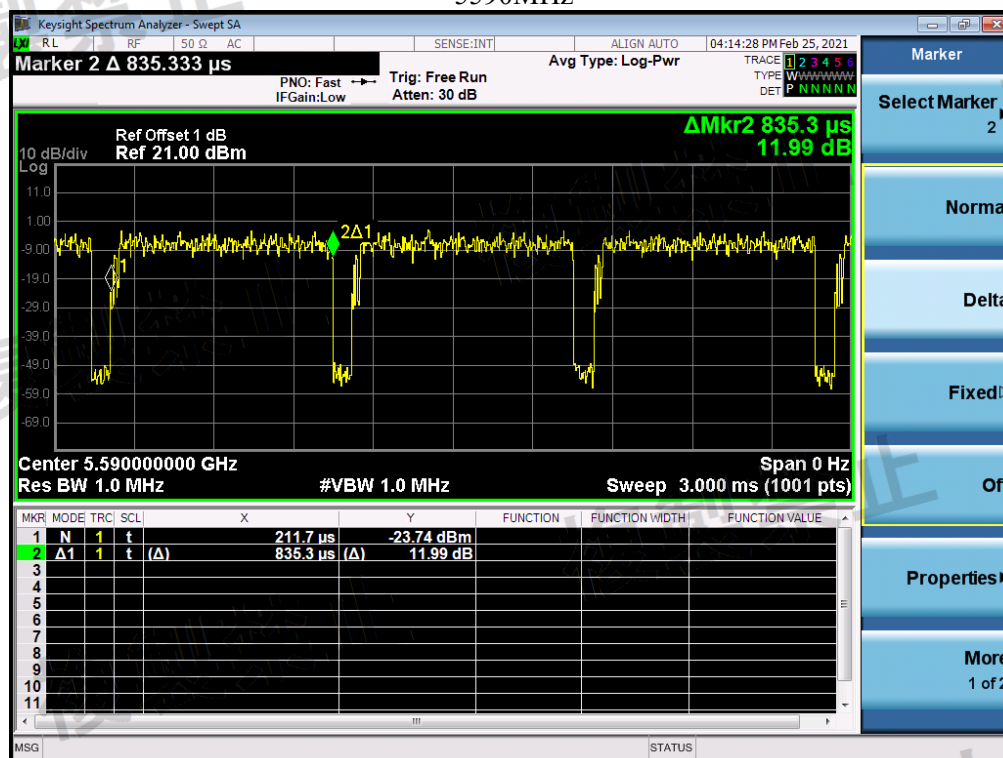
5310MHz



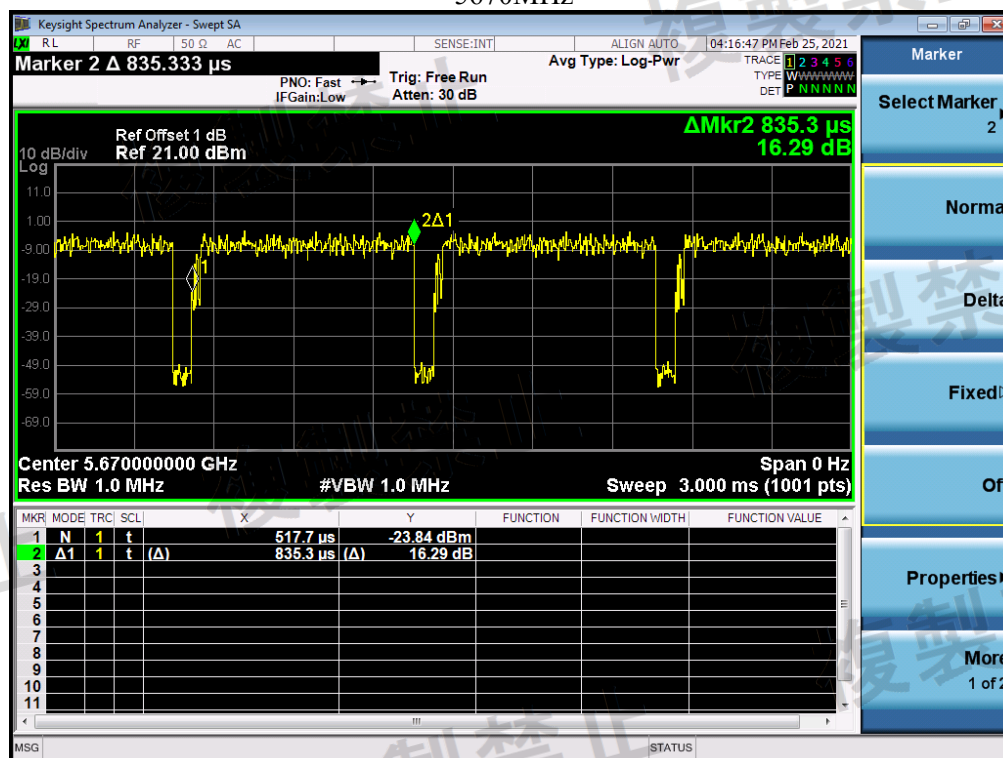
5510MHz



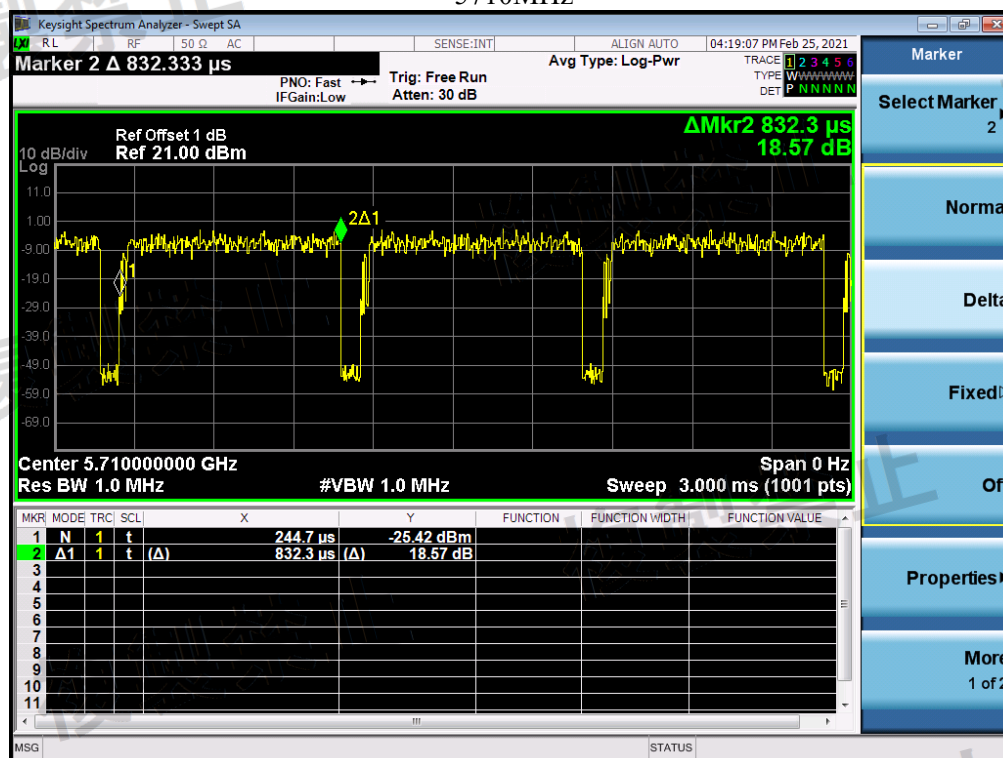
5590MHz



5670MHz

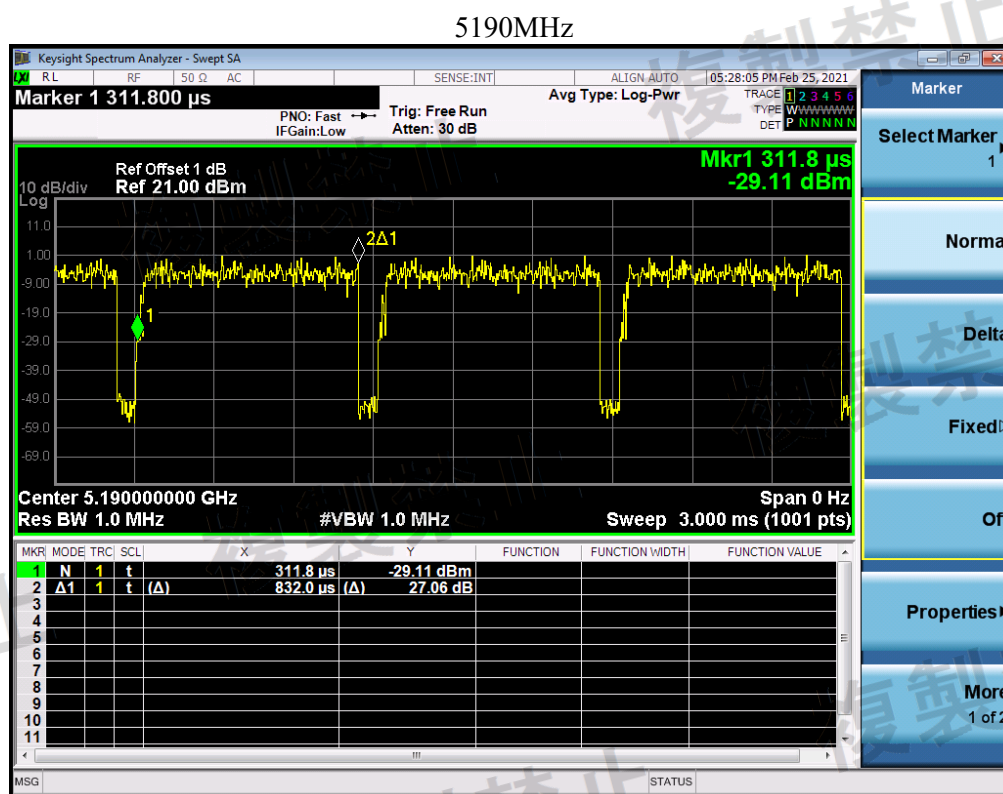


5710MHz

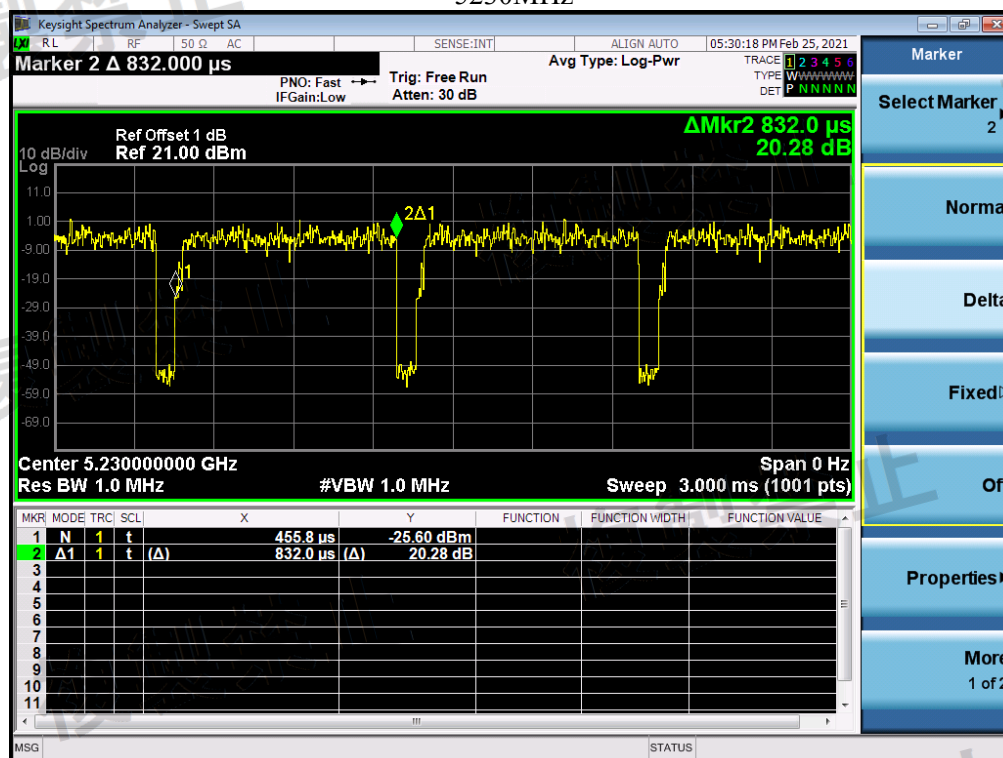


Product : Wireless module
 Test Item : Transmission burst length
 Test Mode : Mode 1: Transmit (802.11ac-40BW)_Chain B (Dipole) (Panel)

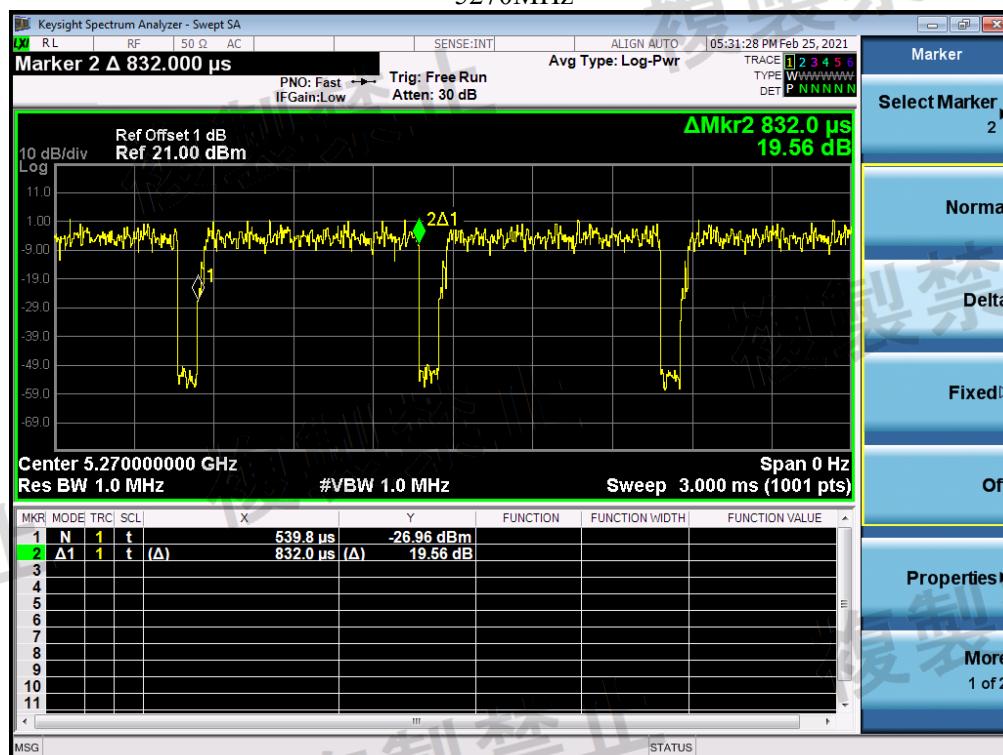
Chain B				
Test Conditions		Frequency (MHz)	Reading Value (ms)	Limit (ms)
Tnom (25 °C)	Vnom (100 V)	5190	0.832	≤ 8
		5230	0.832	≤ 8
		5270	0.832	≤ 8
		5310	0.832	≤ 8
		5510	0.832	≤ 8
		5590	0.832	≤ 8
		5670	0.832	≤ 8
		5710	0.832	≤ 8



5230MHz



5270MHz



Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 05:32:32 PM Feb 25, 2021

Marker 2 Δ 832.000 μ s

PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB

Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6
TYPE W W W W W W W W
DET P N N N N N

Ref Offset 1 dB
Ref 21.00 dBm

Δ Mkr2 832.0 μ s
15.24 dB

10 dB/div
Log

Center 5.310000000 GHz
Res BW 1.0 MHz #VBW 1.0 MHz Sweep 3.000 ms (1001 pts)

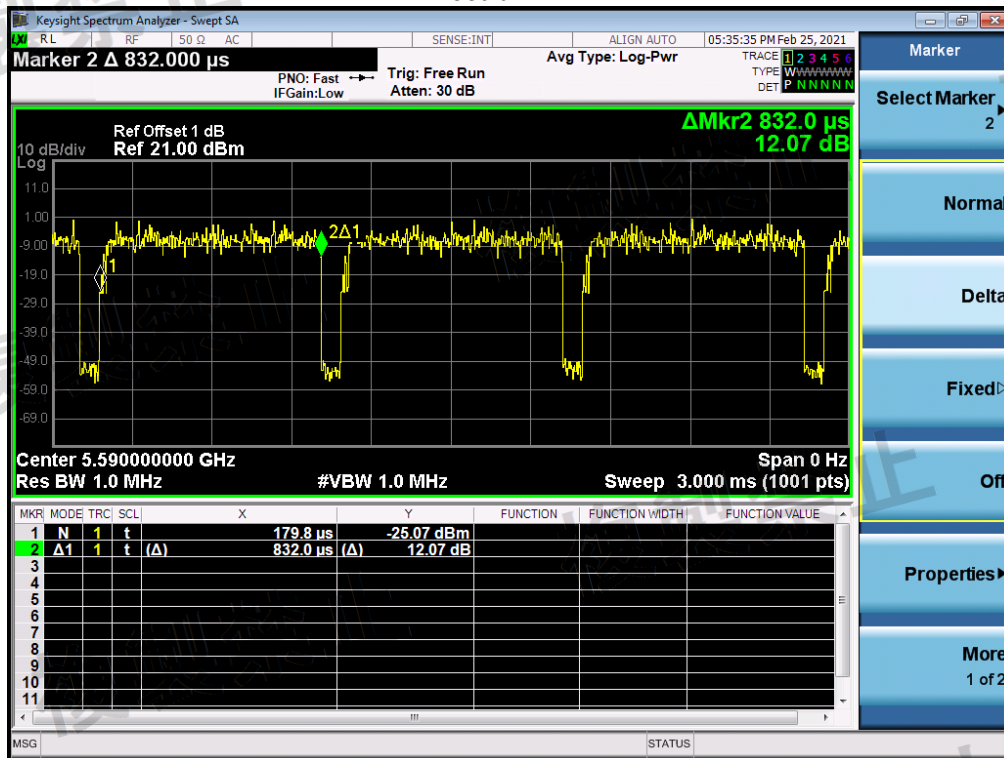
Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	275.8 μ s	-22.30 dBm			
2	Δ 1	1	t	(Δ) 832.0 μ s	(Δ) 15.24 dB			
3								
4								
5								
6								
7								
8								
9								
10								
11								

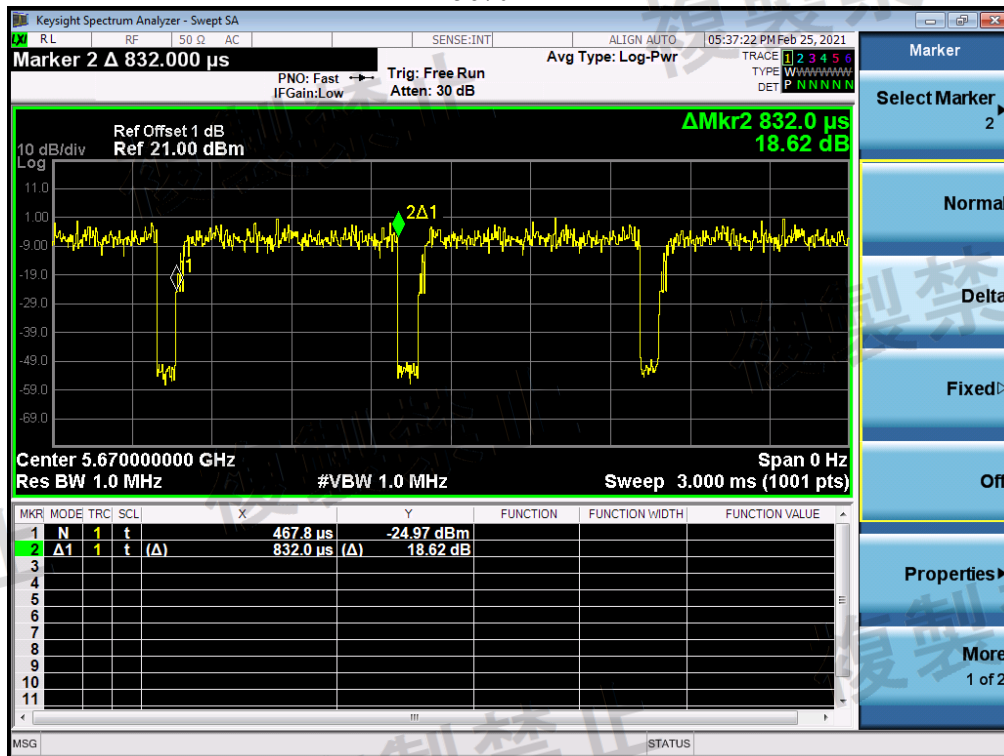
MSG Alignment Completed STATUS

[illegible]

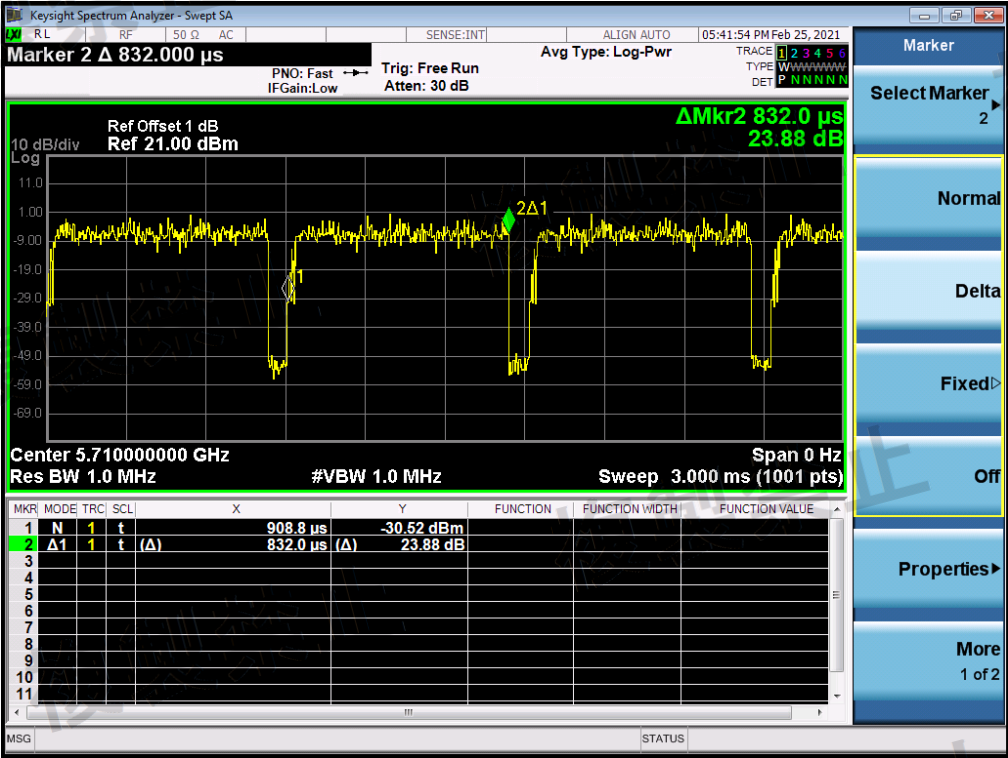
5590MHz



5670MHz

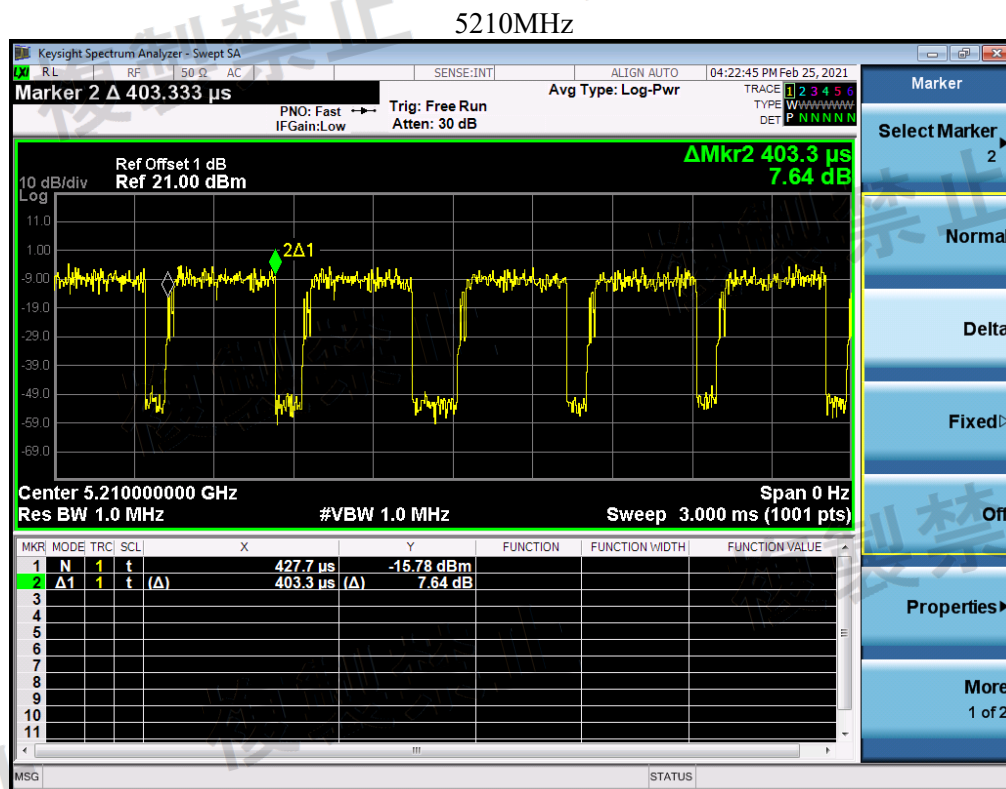


5710MHz

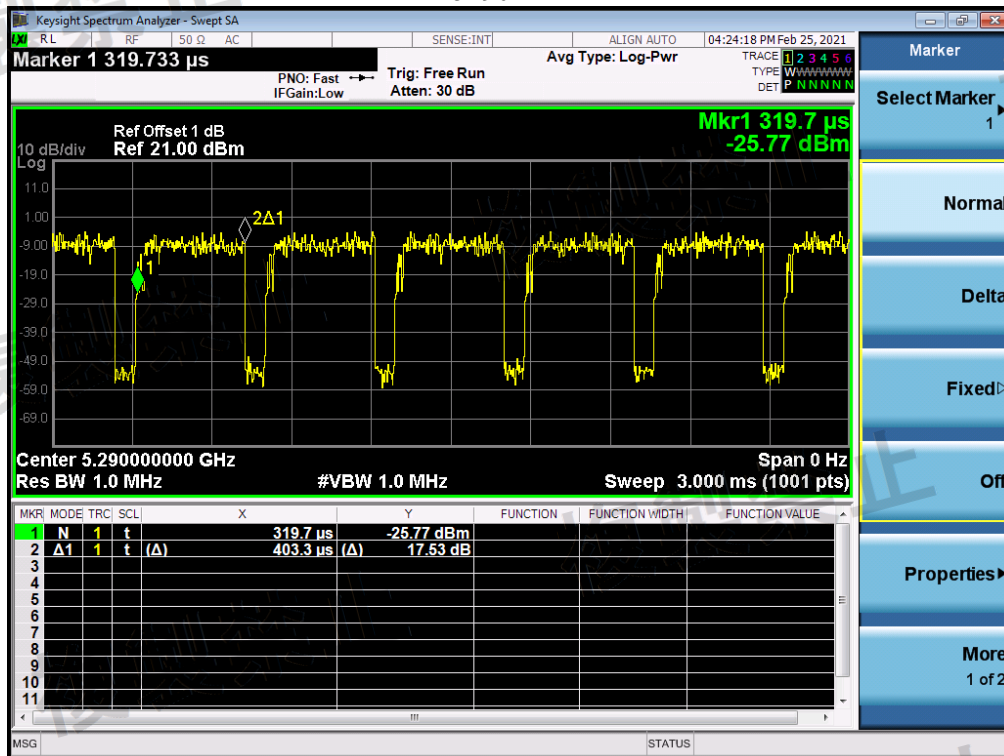


Product : Wireless module
 Test Item : Transmission burst length
 Test Mode : Mode 1: Transmit (802.11ac-80BW)_Chain A (Dipole) (Panel)

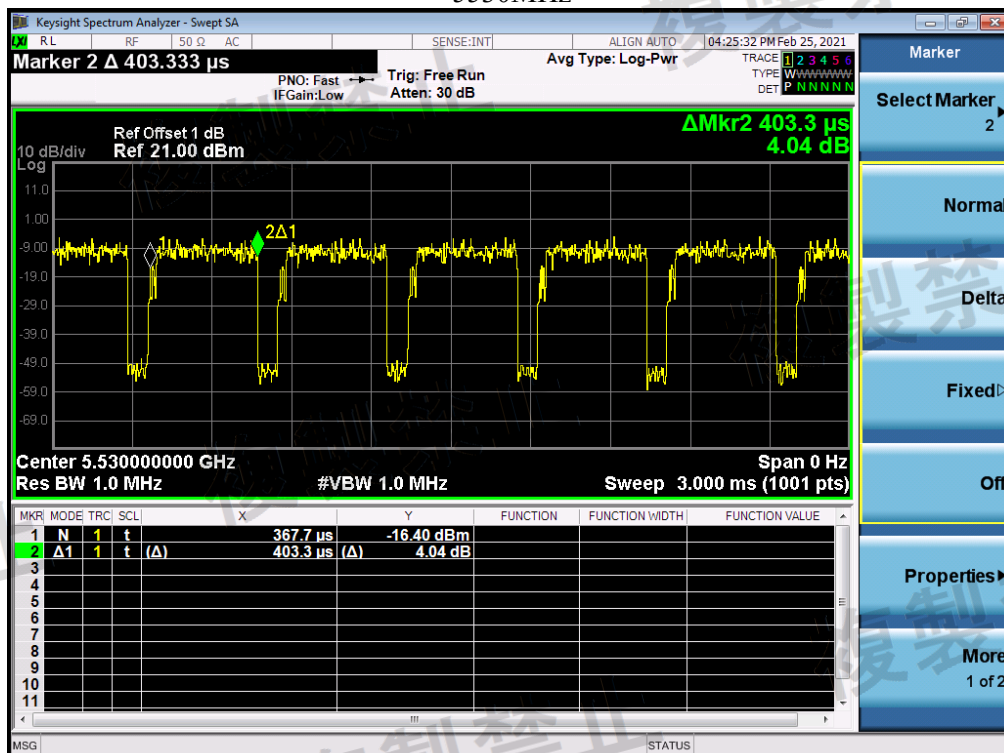
Chain A				
Test Conditions		Frequency (MHz)	Reading Value (ms)	Limit (ms)
Tnom (25 °C)	Vnom (100 V)	5210	0.4033	≤ 8
		5290	0.4033	≤ 8
		5530	0.4033	≤ 8
		5610	0.4033	≤ 8
		5690	0.4033	≤ 8



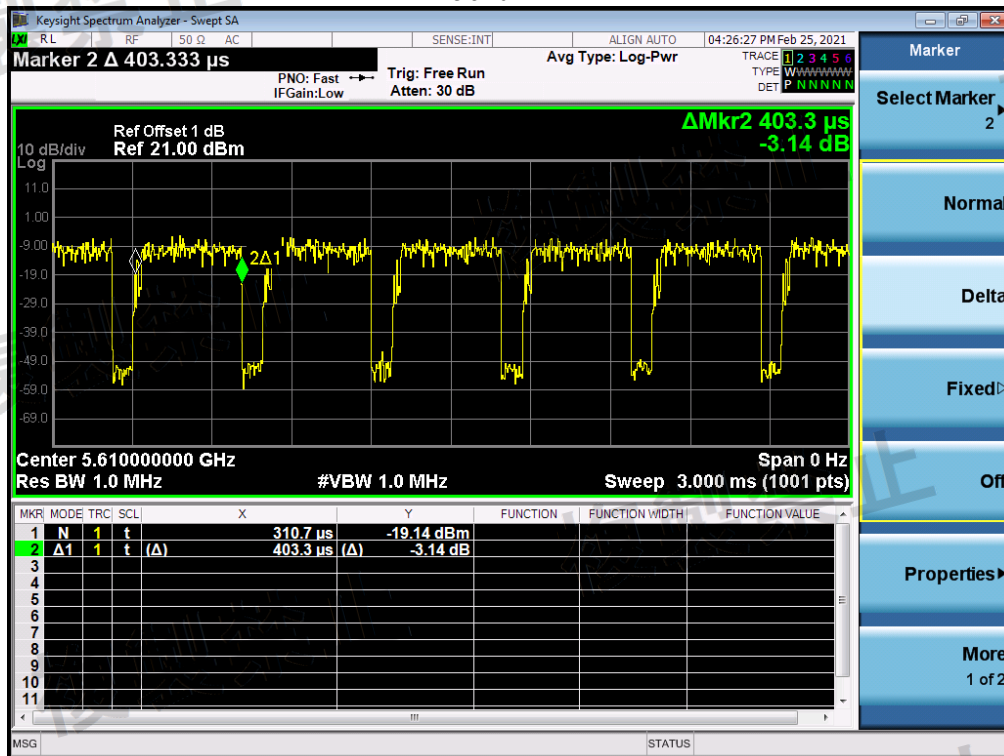
5290MHz



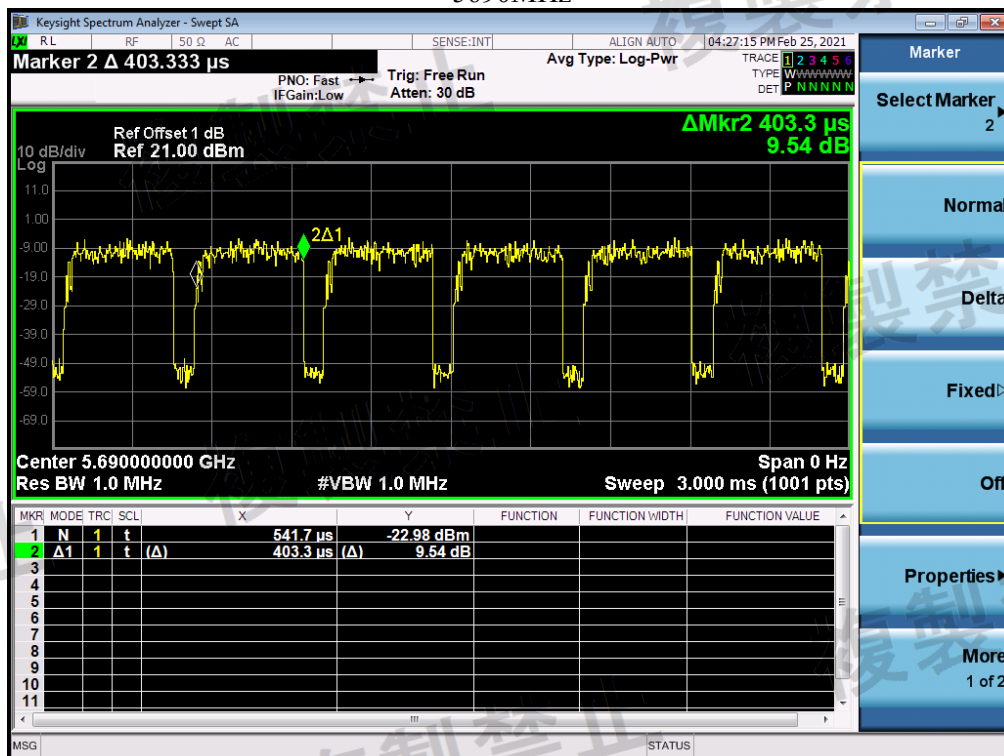
5530MHz



5610MHz

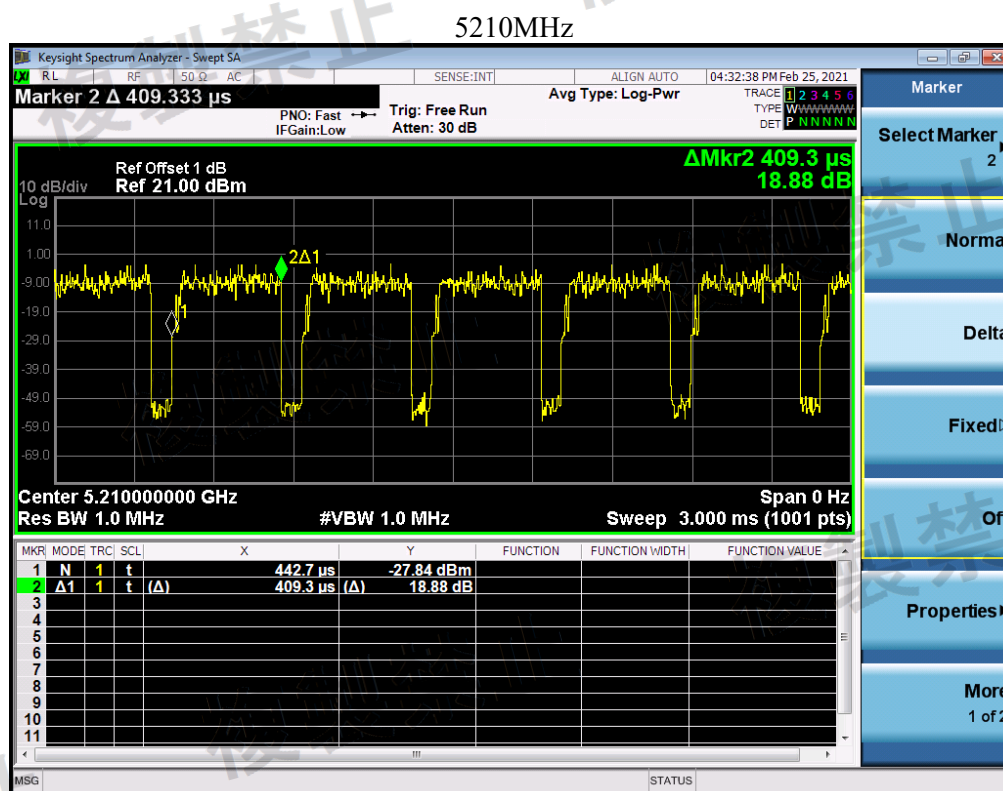


5690MHz

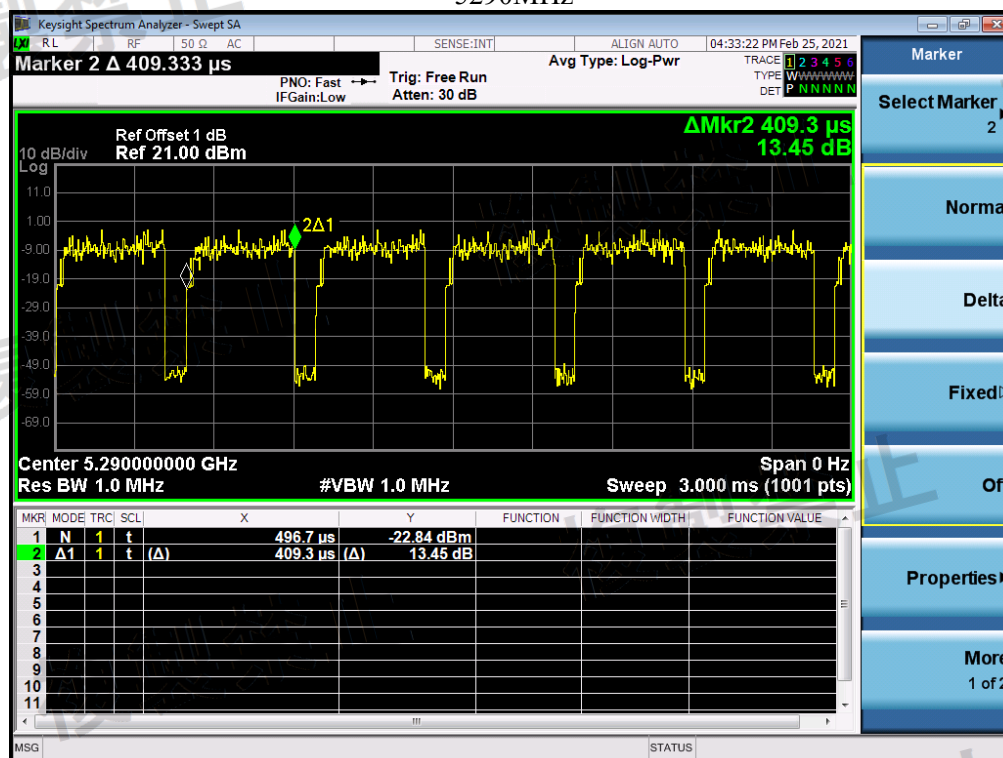


Product : Wireless module
 Test Item : Transmission burst length
 Test Mode : Mode 1: Transmit (802.11ac-80BW)_Chain B (Dipole) (Panel)

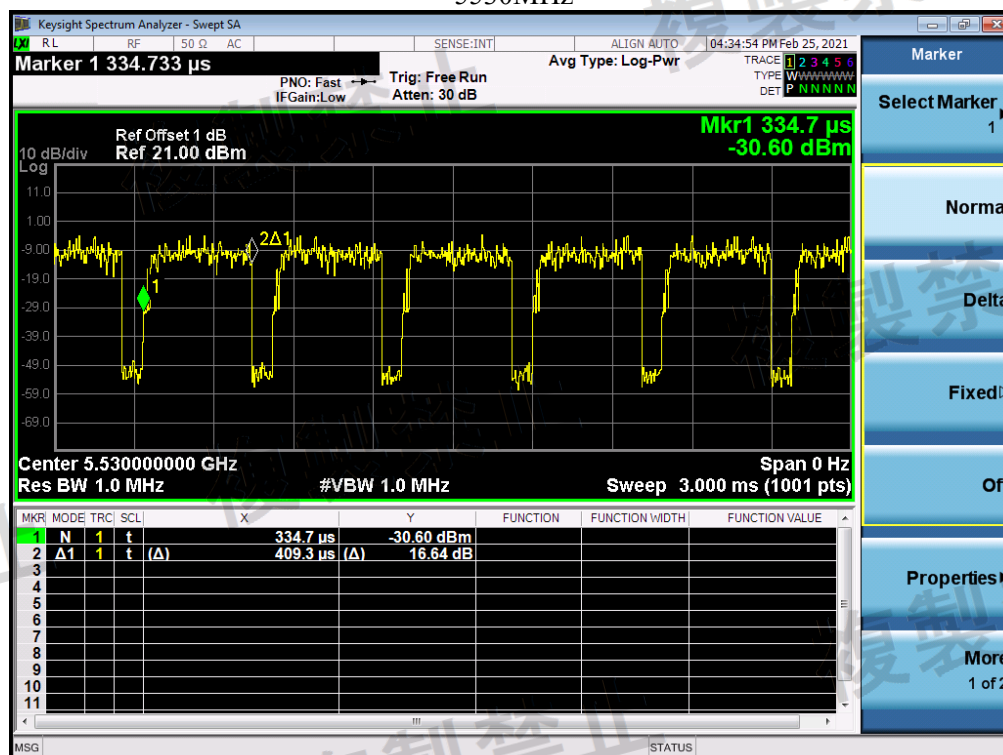
Chain B				
Test Conditions		Frequency (MHz)	Reading Value (ms)	Limit (ms)
Tnom (25 °C)	Vnom (100 V)	5210	0.4093	≤ 8
		5290	0.4093	≤ 8
		5530	0.4093	≤ 8
		5610	0.4093	≤ 8
		5690	0.4093	≤ 8



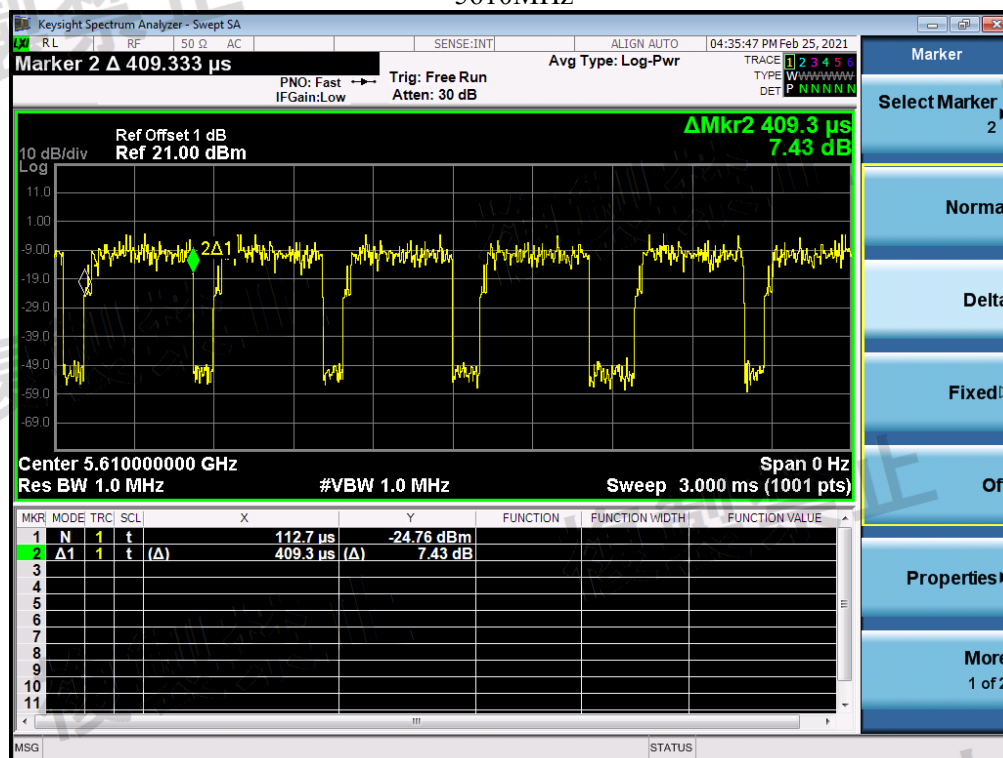
5290MHz



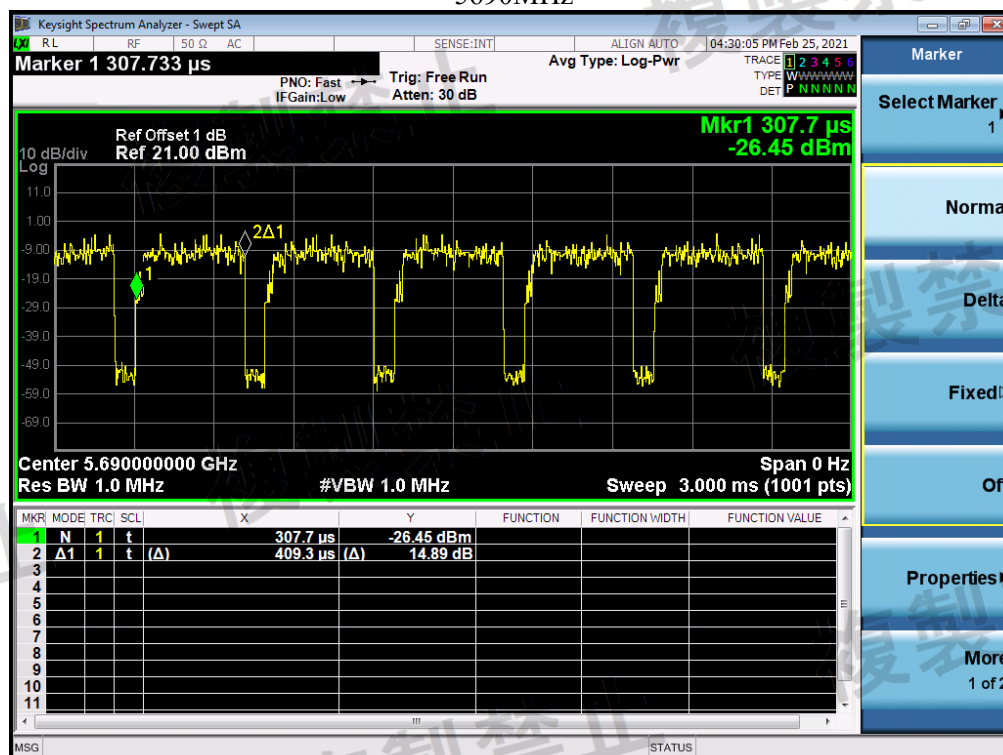
5530MHz



5610MHz



5690MHz



12. EMI Reduction Method During Compliance Testing

No modification was made during testing.