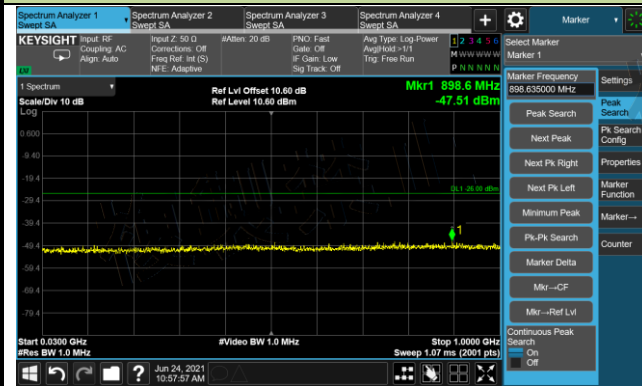


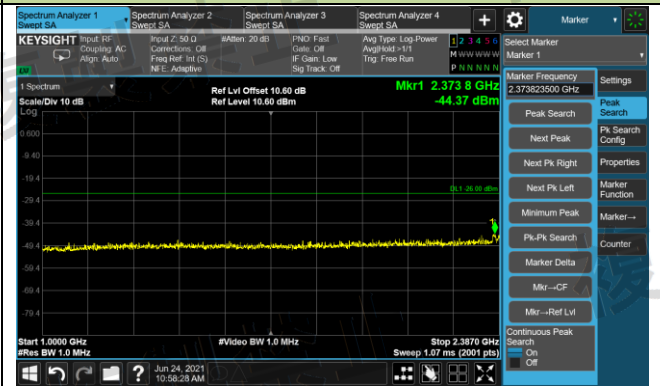
Transmitter Spurious Emissions

10MHz - 2412MHz - Ant 2

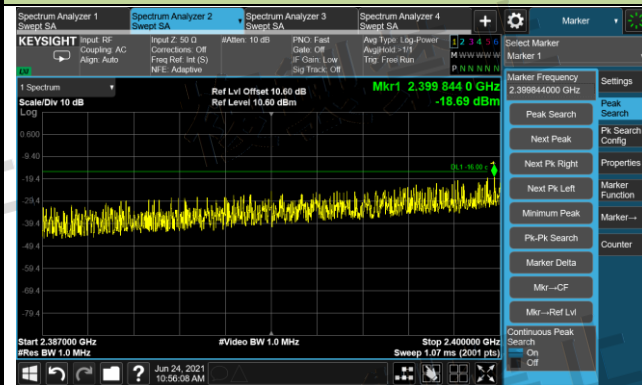
30 ~ 1000MHz



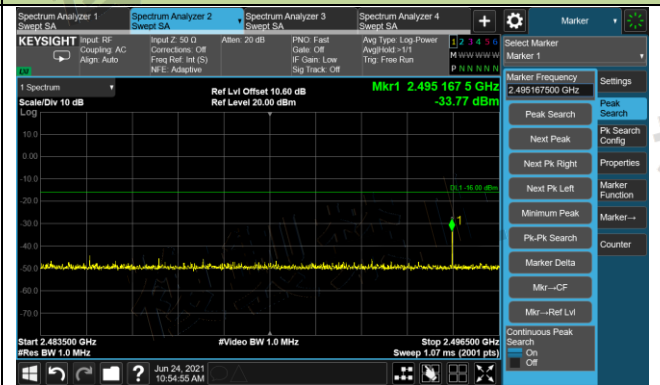
1000 ~ 2387MHz



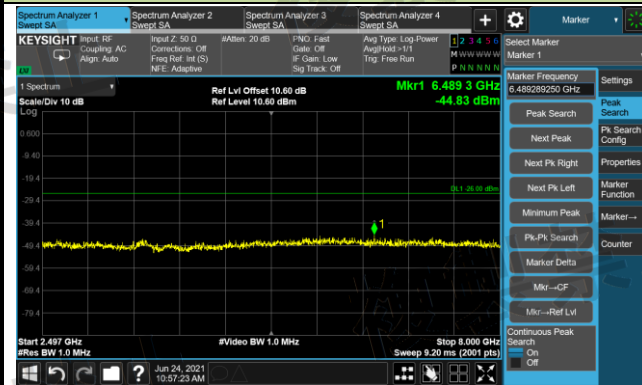
2387 ~ 2400MHz



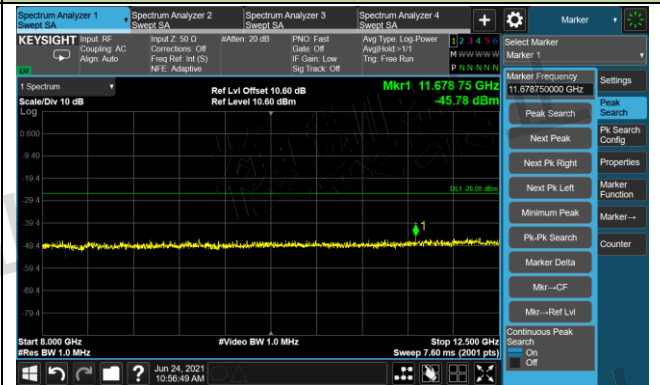
2483.5 ~ 2496.5MHz



2496.5 ~ 8000MHz



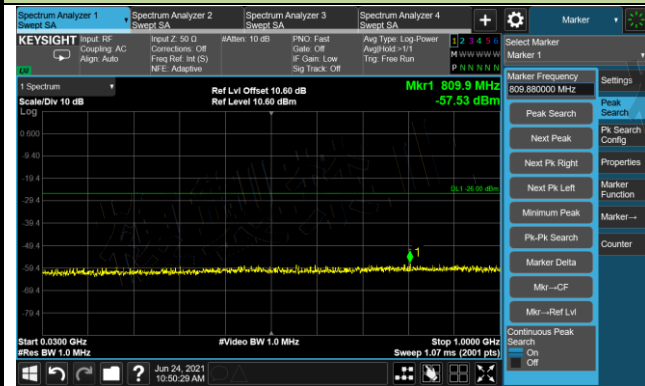
8000 ~ 12500MHz



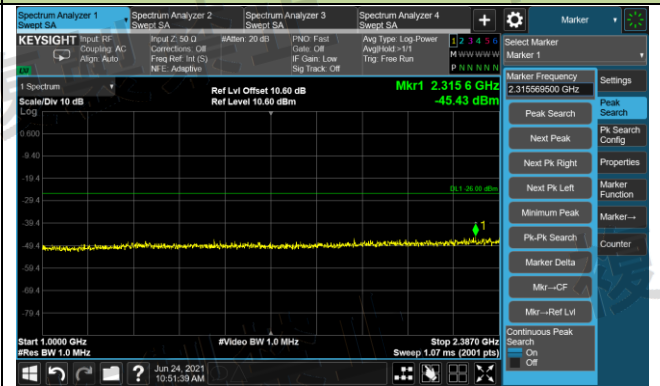
Transmitter Spurious Emissions

10MHz - 2442MHz - Ant 2

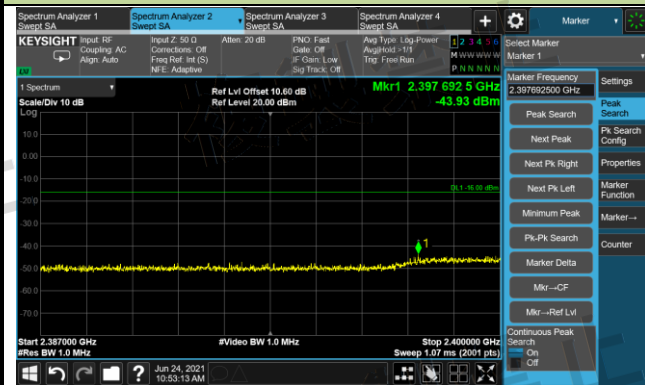
30 ~ 1000MHz



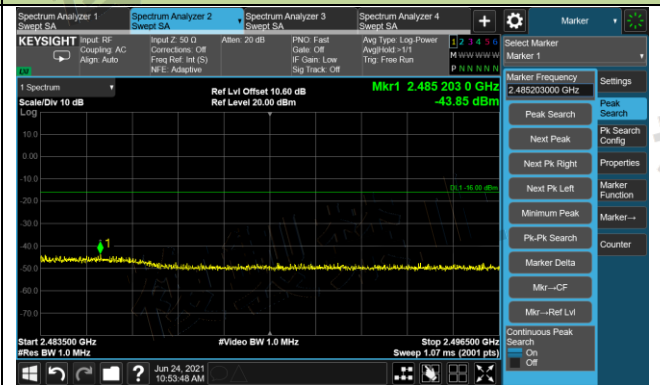
1000 ~ 2387MHz



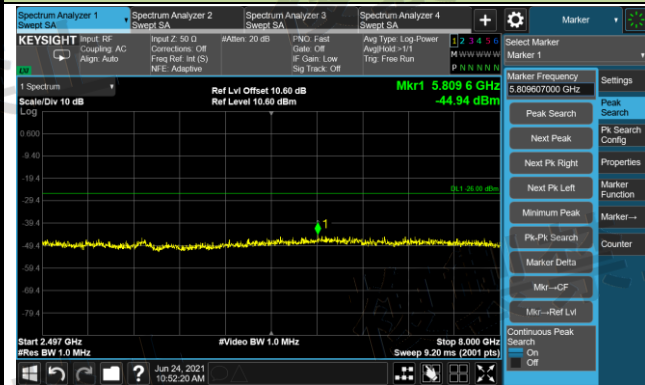
2387 ~ 2400MHz



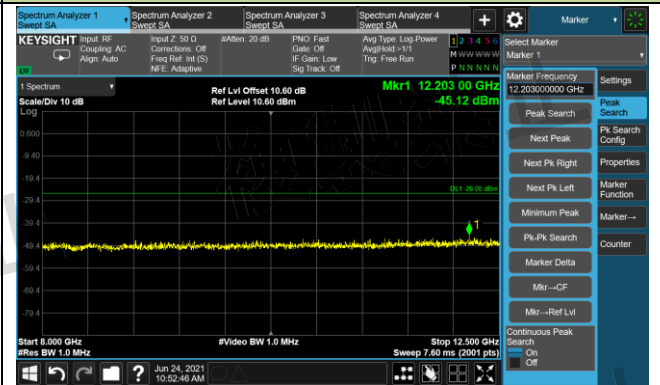
2483.5 ~ 2496.5MHz



2496.5 ~ 8000MHz



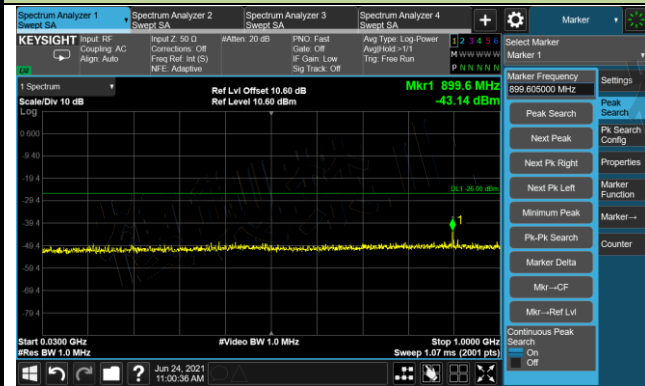
8000 ~ 12500MHz



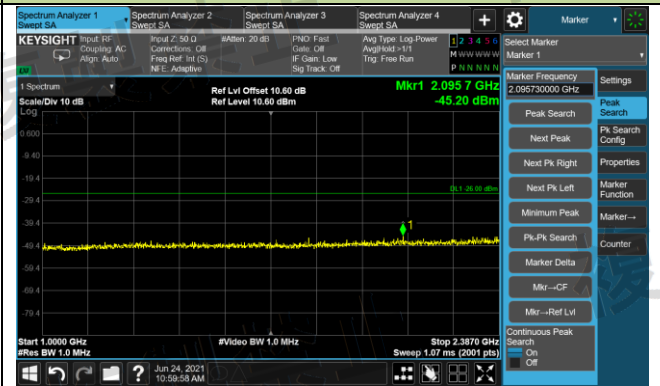
Transmitter Spurious Emissions

10MHz - 2472MHz - Ant 2

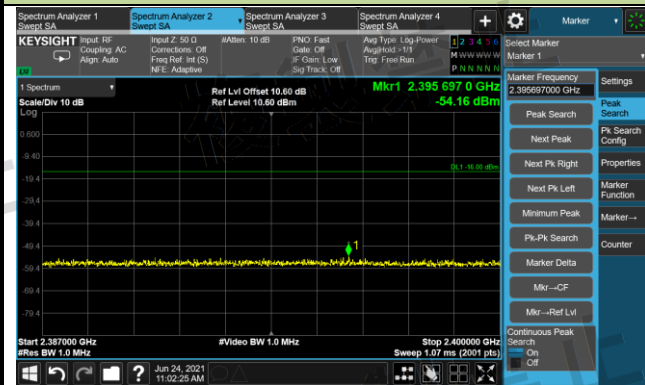
30 ~ 1000MHz



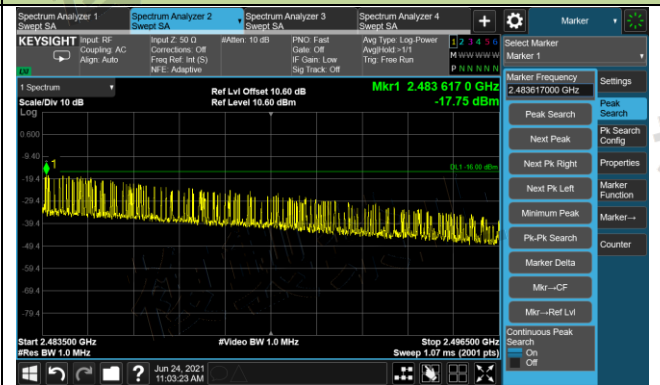
1000 ~ 2387MHz



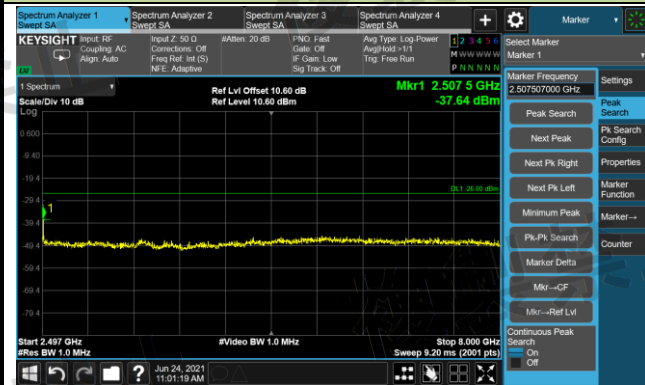
2387 ~ 2400MHz



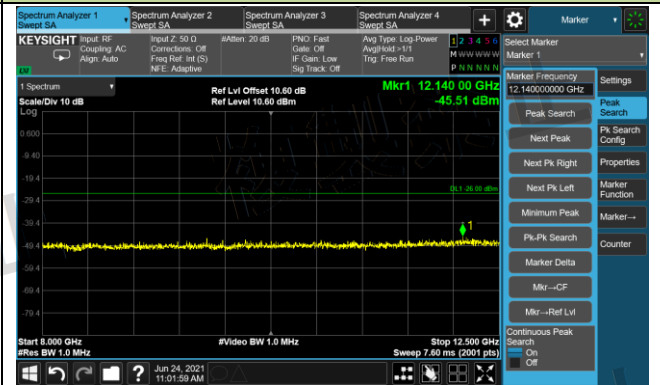
2483.5 ~ 2496.5MHz



2496.5 ~ 8000MHz



8000 ~ 12500MHz



4.7. Receiver Spurious Emissions

4.7.1. Test Limit

$\leq 4\text{nW}$ for 30 ~ 1000MHz;

$\leq 20\text{nW}$ for 1000 ~ 12500MHz;

4.7.2. Test Procedure Used

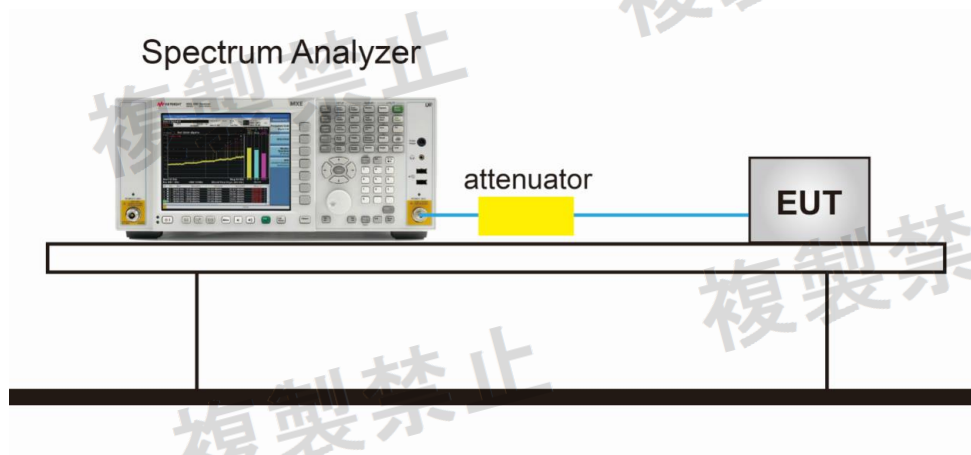
A spectrum analyzer or similar device shall be used to observe a sample of the modulated transmitter's radio frequency power output.

A positive peak detector function must be used.

The measurement instrument bandwidth and span must be set sufficiently with, and, the scan time set sufficiently slowly, 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.

'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided the emission is repetitive in nature.

4.7.3. Test Setup



4.7.4. Test Result

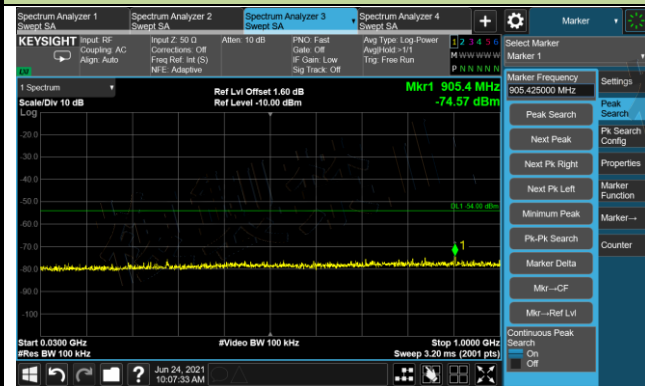
Test Site	WZ-TR3	Test Engineer	Hunk Li
Test Date	2021/06/23 ~ 2021/06/25		

Test Mode	Frequency Range (MHz)	Max Reading Level (dBm)	Limit (dBm)	Result
2.5MHz - Ant 1				
2412MHz	30 ~ 1000	-74.57	-54 (4nW)	Pass
	1000 ~ 12500	-63.16	-47 (20nW)	Pass
2442MHz	30 ~ 1000	-76.31	-54 (4nW)	Pass
	1000 ~ 12500	-64.07	-47 (20nW)	Pass
2472MHz	30 ~ 1000	-76.18	-54 (4nW)	Pass
	1000 ~ 12500	-64.33	-47 (20nW)	Pass
10MHz - Ant 1				
2412MHz	30 ~ 1000	-75.33	-54 (4nW)	Pass
	1000 ~ 12500	-63.79	-47 (20nW)	Pass
2442MHz	30 ~ 1000	-76.07	-54 (4nW)	Pass
	1000 ~ 12500	-64.26	-47 (20nW)	Pass
2472MHz	30 ~ 1000	-76.23	-54 (4nW)	Pass
	1000 ~ 12500	-64.85	-47 (20nW)	Pass
10MHz - Ant 2				
2412MHz	30 ~ 1000	-75.76	-54 (4nW)	Pass
	1000 ~ 12500	-62.91	-47 (20nW)	Pass
2442MHz	30 ~ 1000	-76.12	-54 (4nW)	Pass
	1000 ~ 12500	-64.01	-47 (20nW)	Pass
2472MHz	30 ~ 1000	-76.13	-54 (4nW)	Pass
	1000 ~ 12500	-62.72	-47 (20nW)	Pass

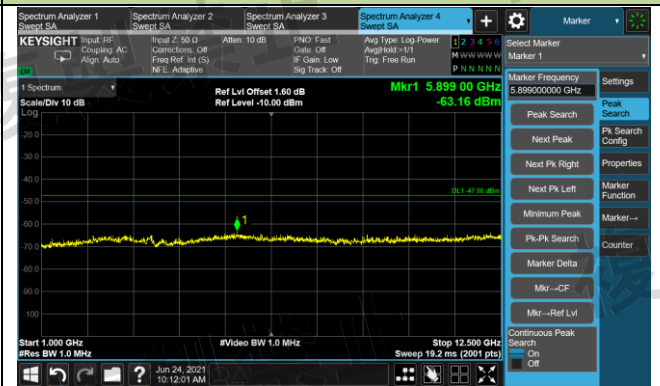
Receiver Spurious Emissions

2.5MHz - 2412MHz - Ant 1

30 ~ 1000MHz

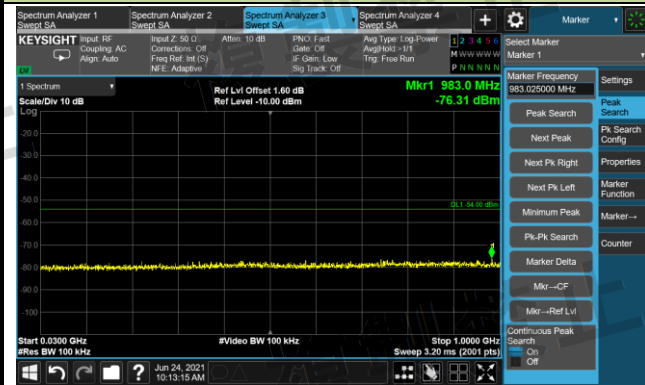


1000 ~ 12500MHz

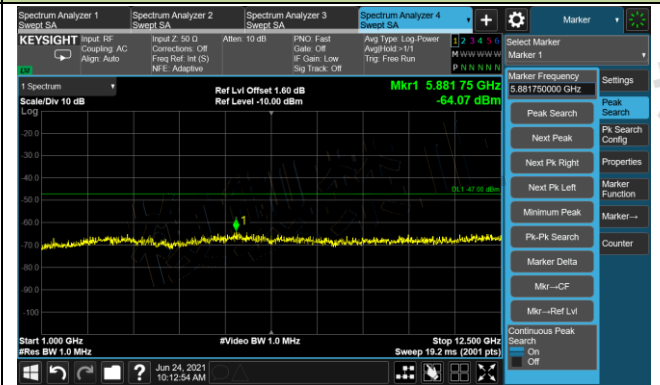


2.5MHz - 2442MHz - Ant 1

30 ~ 1000MHz

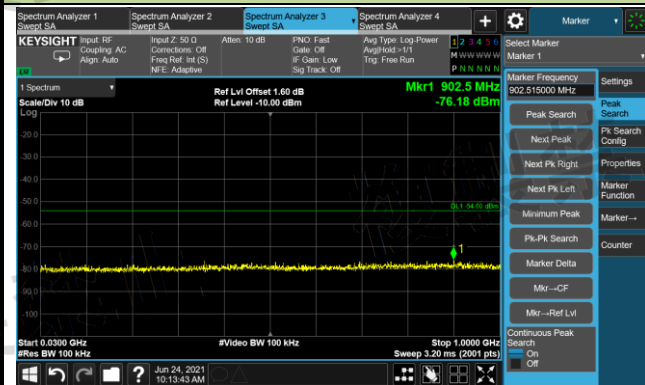


1000 ~ 12500MHz



2.5MHz - 2472MHz - Ant 1

30 ~ 1000MHz



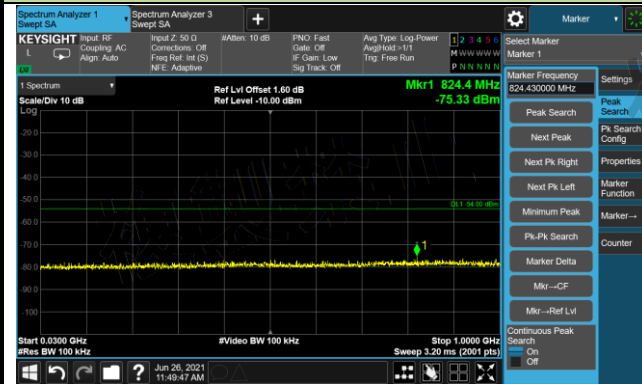
1000 ~ 12500MHz



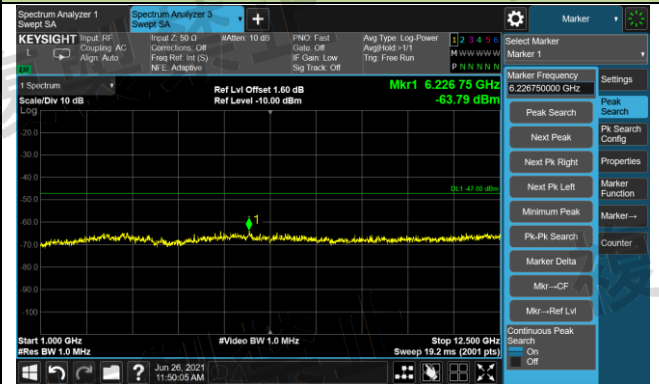
Receiver Spurious Emissions

10MHz - 2412MHz - Ant 1

30 ~ 1000MHz

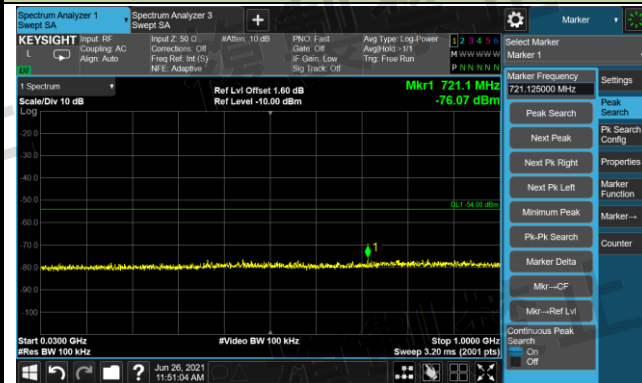


1000 ~ 12500MHz

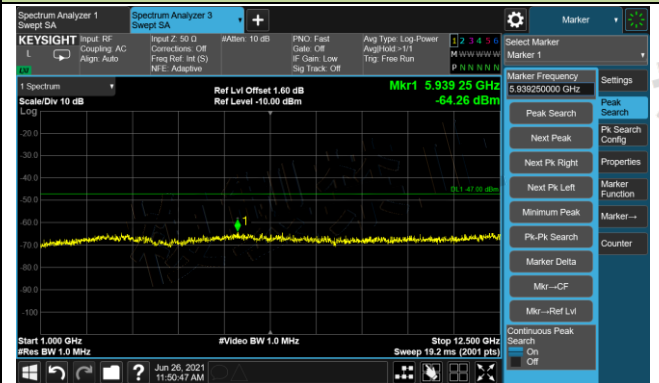


10MHz - 2442MHz - Ant 1

30 ~ 1000MHz

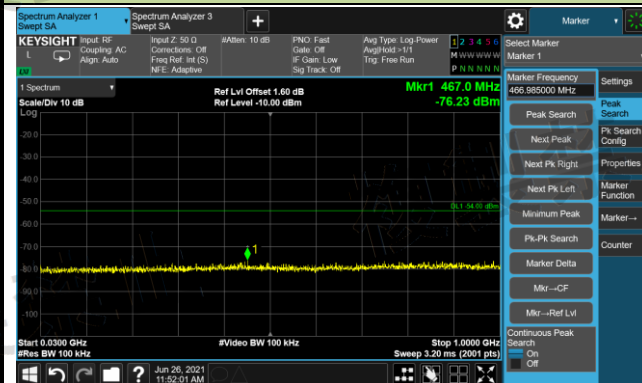


1000 ~ 12500MHz

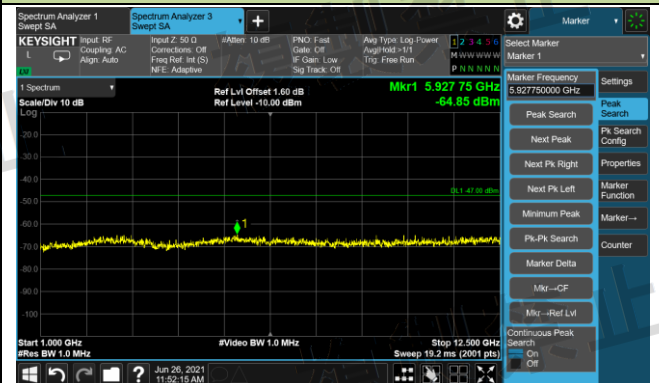


10MHz - 2472MHz - Ant 1

30 ~ 1000MHz



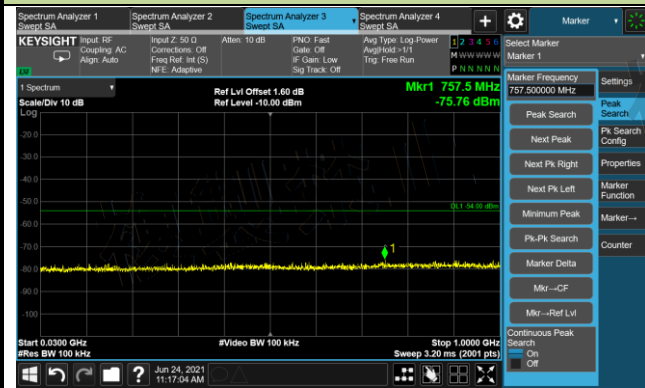
1000 ~ 12500MHz



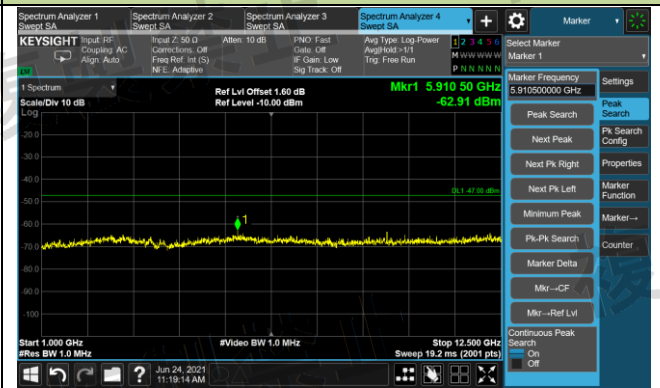
Receiver Spurious Emissions

10MHz - 2412MHz - Ant 2

30 ~ 1000MHz

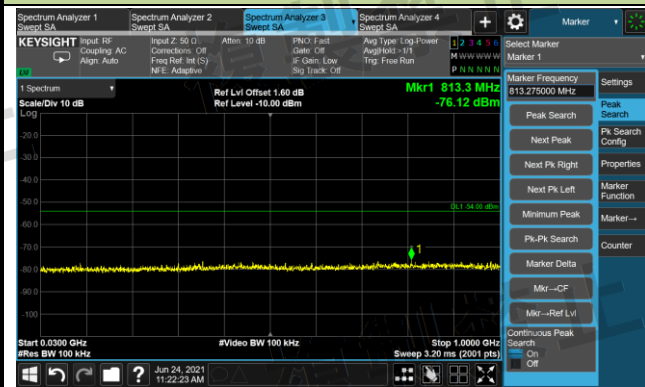


1000 ~ 12500MHz

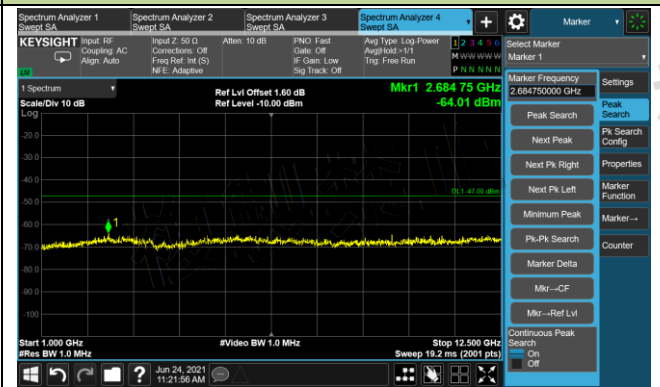


10MHz - 2442MHz - Ant 2

30 ~ 1000MHz

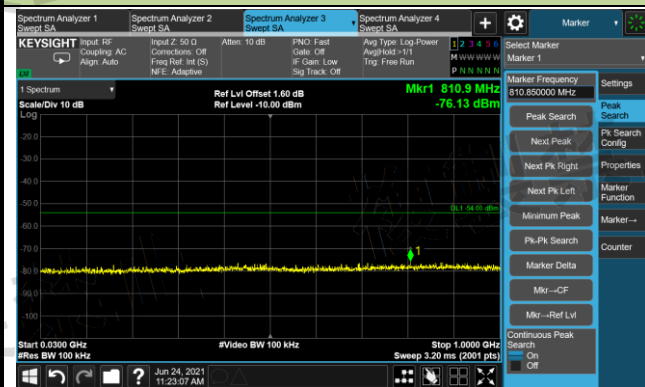


1000 ~ 12500MHz

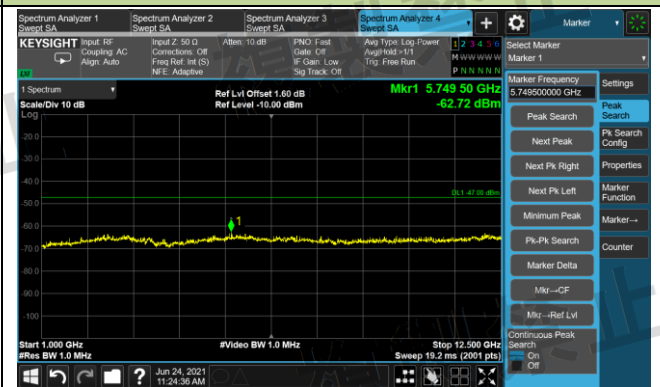


10MHz - 2472MHz - Ant 2

30 ~ 1000MHz



1000 ~ 12500MHz



4.8. Carrier Sensing

4.8.1. Test Limit

Stop transmission while carrier detecting.

Field intensity in the direction of the maximum gain of a receiving antenna: 100mV/m (It's a radiated testing detection threshold level).

The conducted detection threshold level shows as below:

(6)式の電界強度 E を既定値の 100mV/m (100dB μ V/m) とし、 λ (m)を F (MHz) に変換し、 P を dBm 単位で表すと (7) 式を得る。

$$P[\text{dBm}] = 22.79 + G - 20\log F \quad \text{-----} \quad (7)$$

P : 受信機のアンテナ端子に入力される受信電力 [dBm]

G : 受信アンテナの絶対利得 [dBi]

F : キャリア周波数 [MHz]

4.8.2. Test Procedure Used

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

Link EUT and Access Point to Directional Coupler input port.

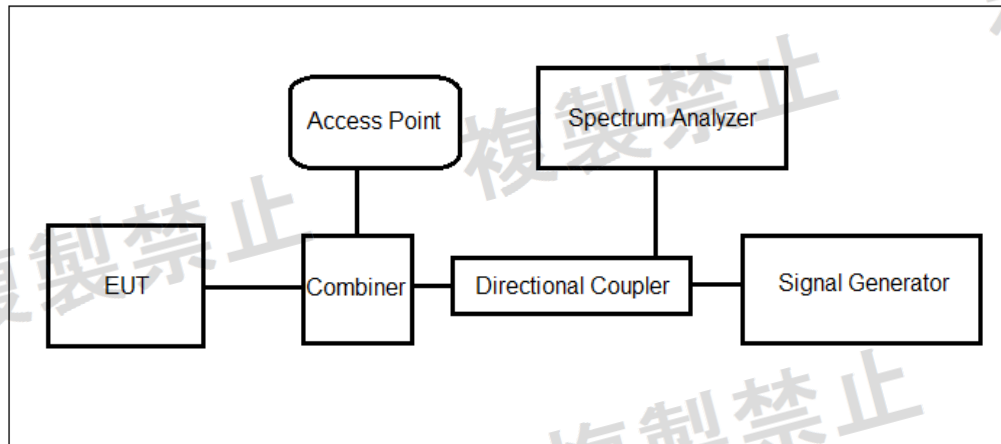
Link Signal Generator and Spectrum Analyzer to test port and output port in the Directional Coupler separately.

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.

4.8.3. Test Setup



4.8.4. Test Result

This item is only applicable to 2.4GHz OFDM 40MHz Bandwidth.

5. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with MIC

Notice No.88 Annex 43.

The End

Appendix A - EUT Photograph

Refer to “ 2106RSU024-JE” file.