

QUICK CARD

Blind Scanner Measurement

This quick card describes how to set up the OneAdvisor 800 **SPA06MA-O Radio Analysis Module** to Scan for presence of all Carriers in a C-Band




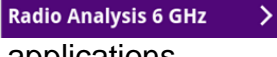

- OneAdvisor 800 equipped with the following:
 - SPA06MA-O Radio Analysis Module
 - ONA-SP-5GOTA Software Option
 - Or ONA-SP-5GRAN Software Option
 - ONA-SP-BS Software Option
- Omni Antennas such as G700050350 stick Antenna or Magnetic Mount Omni Antennas G700050345 or G700050358
- Optional G700050616 C-Band Band Pass Filter (to block out nearby strong signals outside of C-Band)



Figure 1: Test Setup

Note: To Scan Carriers Outside of C-Band, the C-Band Bandpass Filter will need to be removed

LAUNCH TEST

1. Press the Power button  on the ONA-800 base top panel to turn on the OneAdvisor.
2. Tap  Home to display the Home Screen.
3. Tap  Tests to display the Tests menu.
4. Tap  Radio Analysis 6 GHz to show Radio Analysis test applications.
5. Tap the 5G NR Signal Analyzer icon  BLIND SCAN

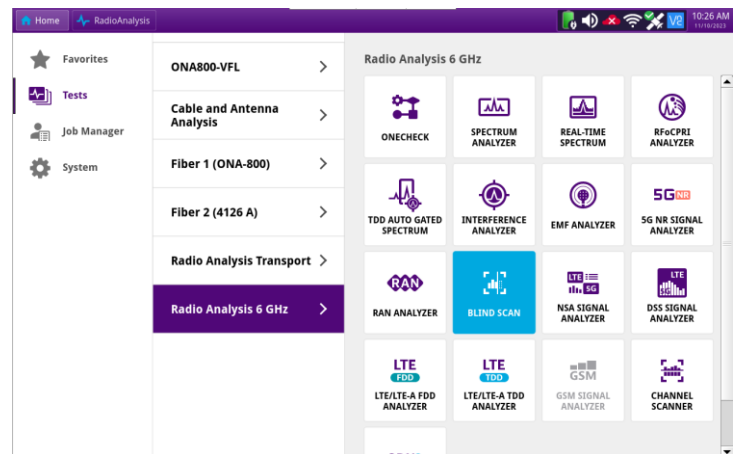
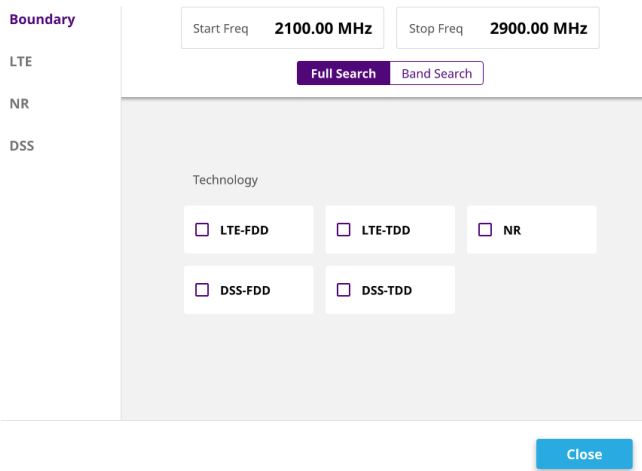


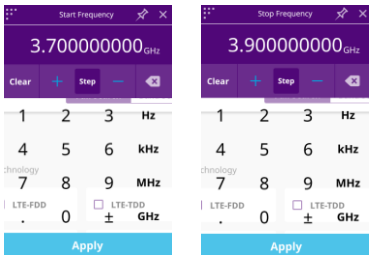
Figure 2: Select Test

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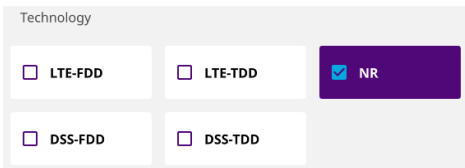
6. Tap the icon to Configure Blind Scanner
7. The Window below will open



8. Enter the Start and Stop Frequency to Scan. For C-Band scan from 3700 MHz to 3900 MHz followed by **Apply**



9. Tap NR to Scan C-Band followed by **Close**



10. Note the Default C-Band Subcarrier Spacing (SCS) is 30 kHz along with 20 ms Periodicity and Search Type GSCN (850 NR uses 15 kHz SCS)
11. Tap the and ONA-800 will start Scanning

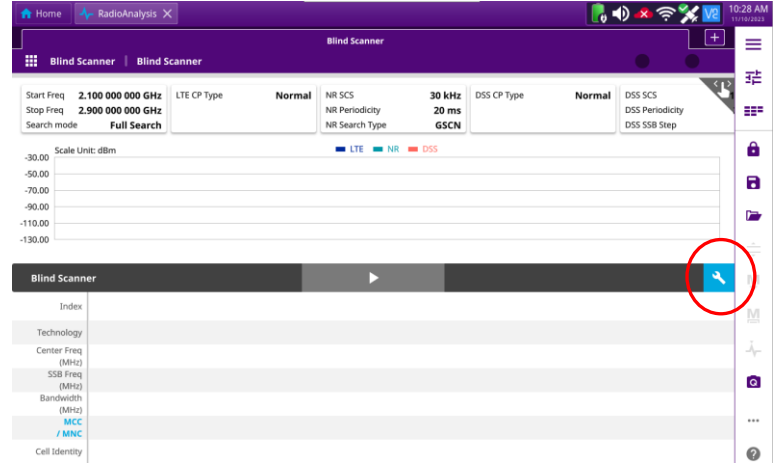


Figure 3: Configure Scan

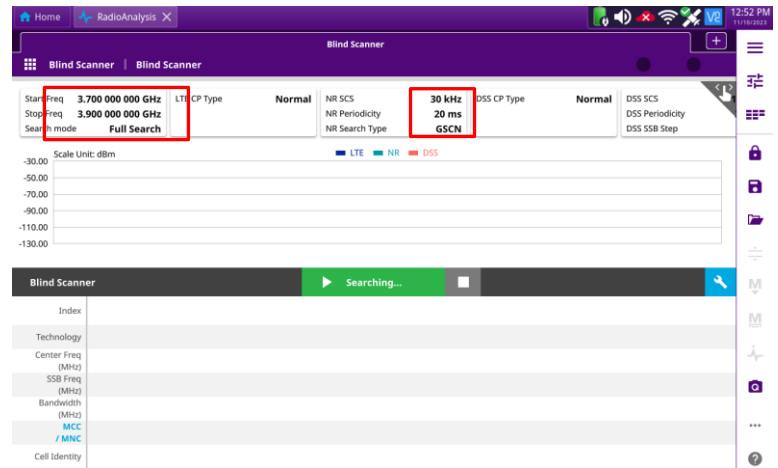


Figure 4: Start Scan

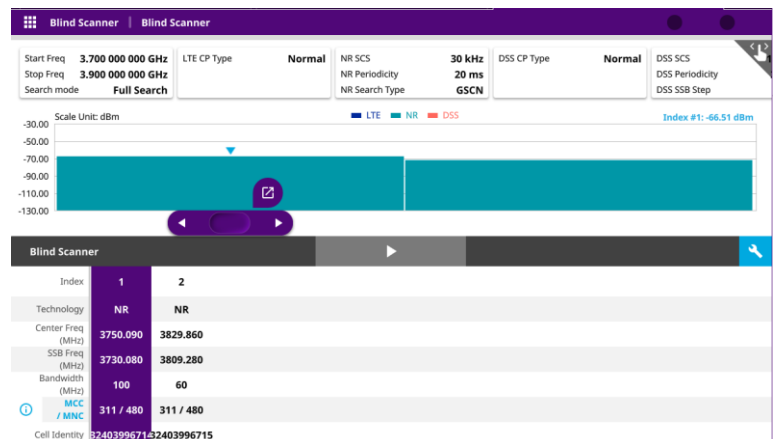


Figure 5: Scan Result

QUICK CARD

- Tap the icon to open Scanned Carrier window with MCC/MNC information
- Select the Carrier of Interest by Tapping on the Carrier, e.g. Index 1 or move the to the carrier of interest
- Notice the color of the two carriers found is green which indicates they are NR carriers
- Tap the icon on the top of the scroll bar to initiate test
- The Application Launcher Window Opens

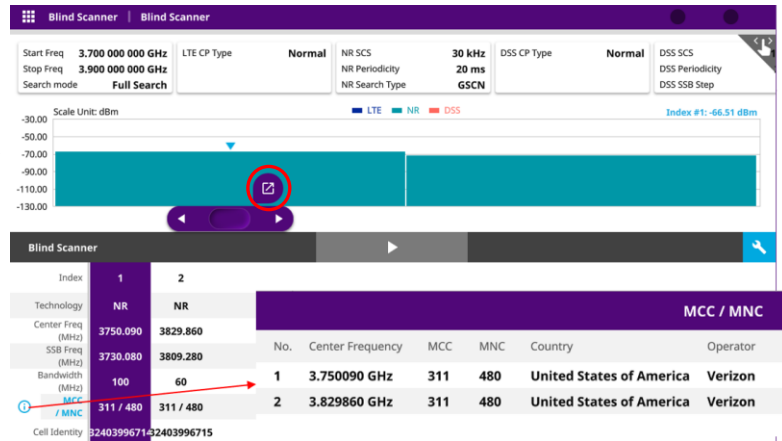


Figure 6: Decode Carrier Information

- Tap the to select the Band. Select Band n77

650006 (5G NR)		
Band No	Frequency	Channel No
Band n78 (TD 3500)	3.750090000 GHz	650006 DL
Band n77 (TD 3700)	3.750090000 GHz	650006 DL

- followed by and then
- The default Measurement is Interference Analysis, and it will take to the Realtime Spectrum Analysis Screen
- To perform Signal Analysis, Tap followed by
- The Signal Analysis opens the Beam Analysis Measurement that show 5G NR Synchronization Signal Block (SSB) KPI's including PCI, RSRP, SINR, EVM, and Time Error

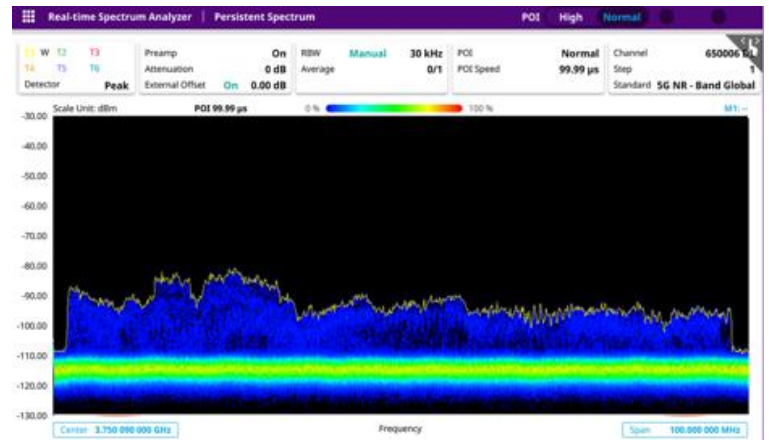


Figure 7: RTSA Spectrum

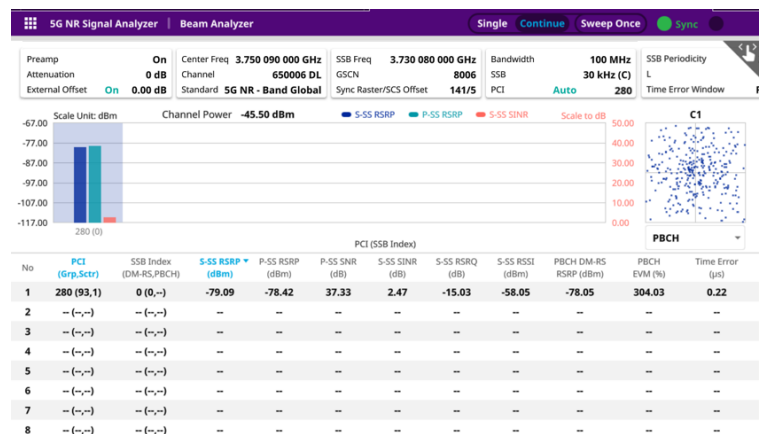


Figure 8: Beam Analysis