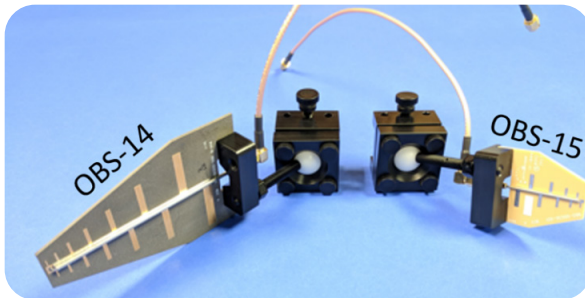


# OBS-14 and OBS-15 High Gain Antenna Array

## 4 element MIMO antenna with 10dB gain

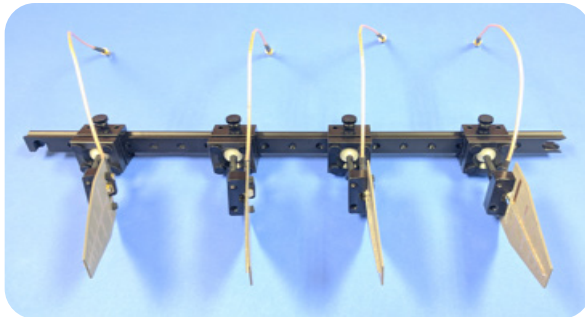
The octoBox® OBS-14 and OBS-15 high gain antenna arrays consist of 4 log-periodic high gain (HG) antenna elements that increase the link budget by about 10 dB vs. dipole antennas for each OTA (over-the-air) connection in the octoBox personal testbed; 20 dB for a link of two OTA-coupled devices, one in each octoBox.

OBS-14 antennas are optimized for 2-7.5 GHz frequency range. The smaller OBS-15 antennas are optimized for the 5-10 GHz band.

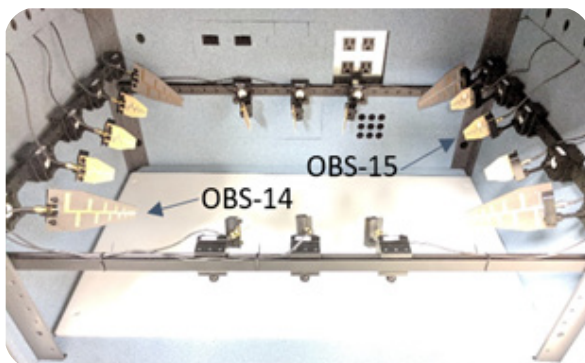


A ball joint on each antenna element allows precise pointing and polarization setting.

The antenna elements are mounted onto plastic rails and easily adjusted using plastic thumb screws to distribute around the walls and ceiling of the octoBox for optimum MIMO diversity or MU-MIMO gains.



Use octoScope's synchroSniffer to capture data for analysis while the test is taking place. This allows for detailed recording of any anomalous behavior observed during the testing.



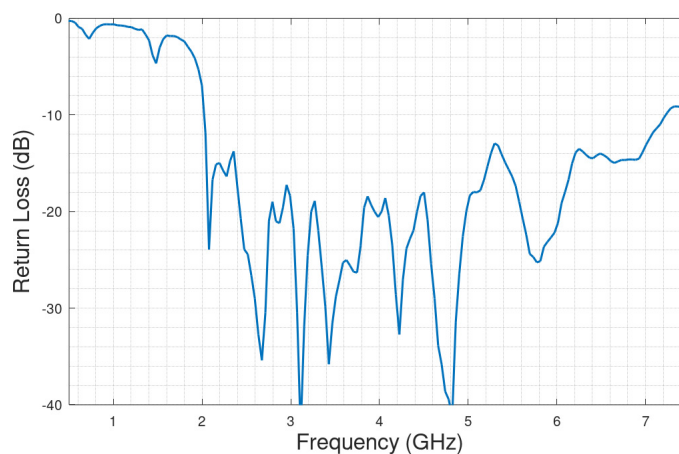
## Applications

- Wi-Fi 6e and legacy Wi-Fi, Bluetooth and cellular (LTE, LTE-Advanced, including LAA and MulteFire)
- Throughput vs. range measurements.

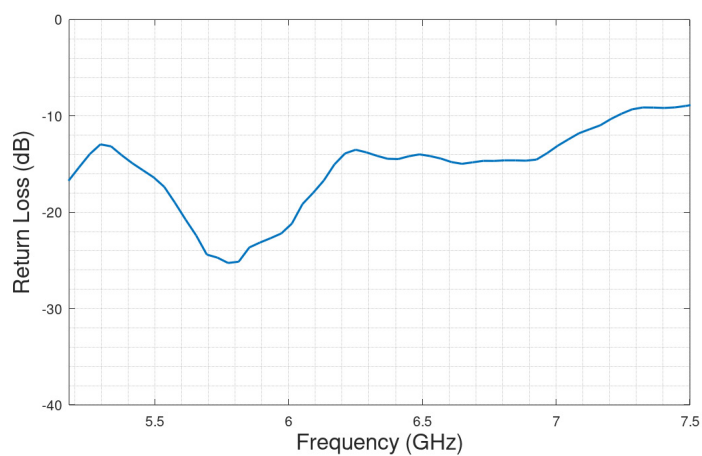
## Benefits

- Broadband log-periodic antenna elements, optimized for 2-7.5 GHz and 5-10 GHz frequency bands
- Plastic brackets, thumbscrews and ball joint for minimizing unwanted reflections
- Precise control of polarization and pointing with the plastic ball joint at the base of each antenna element.

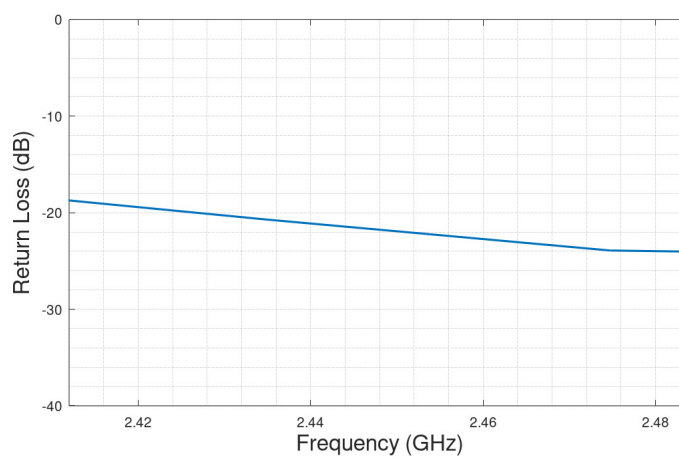
**Typical Return loss for OBS-14  
Full Bandwidth**



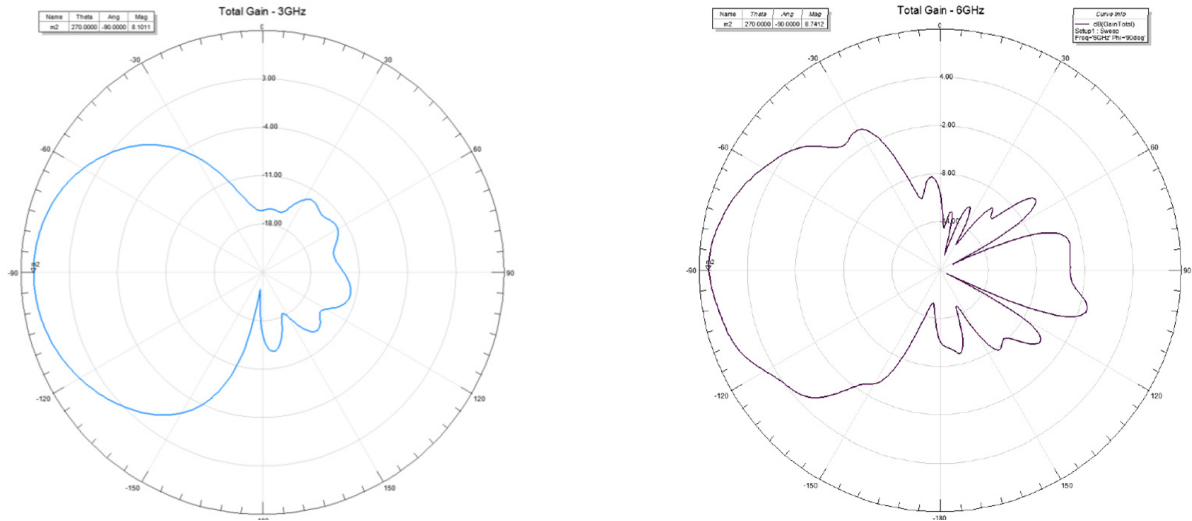
**Typical Return loss for OBS-14  
5 & 6 GHz Bands**



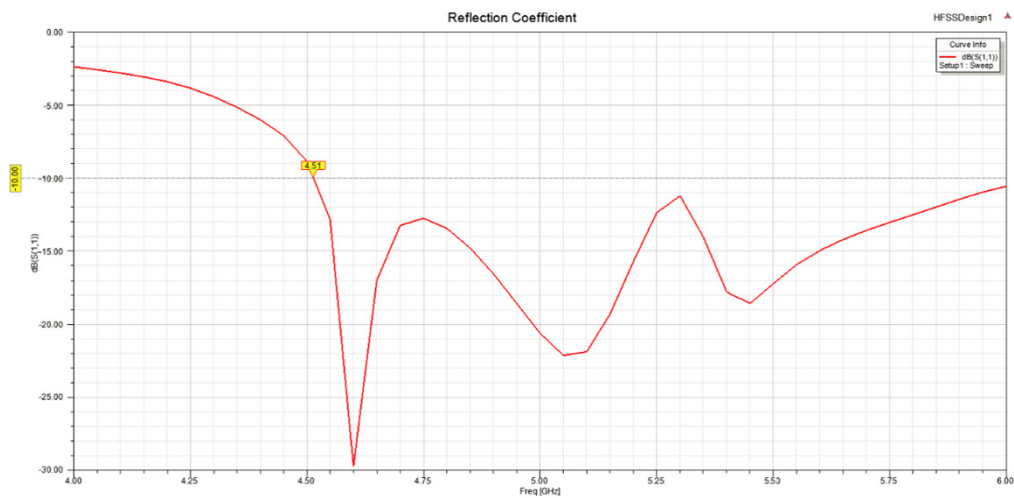
**Typical Return loss for OBS-14  
2.4 GHz ISM Band**



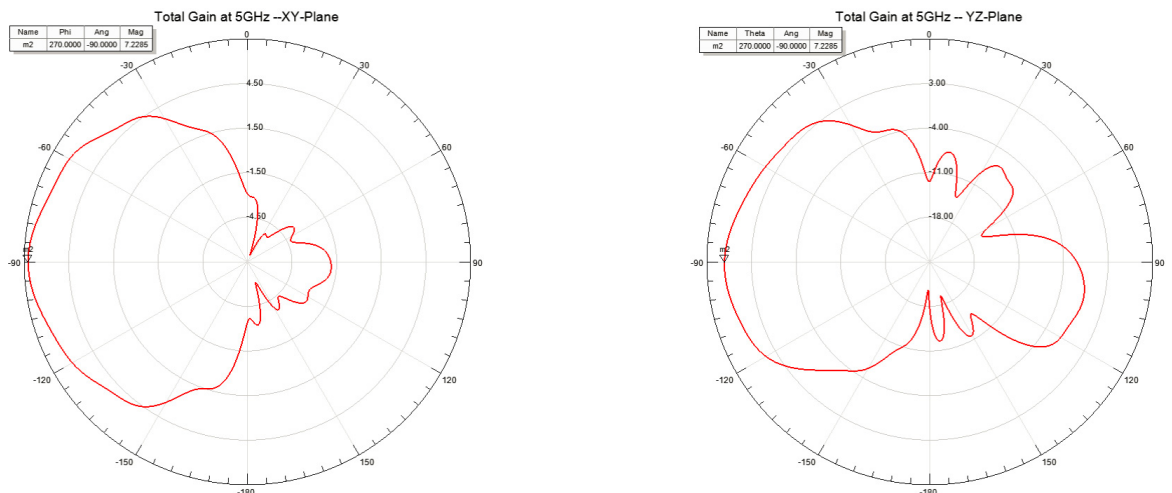
## OBS-14 Radiation Pattern



## OBS-15 Return Loss (S11)



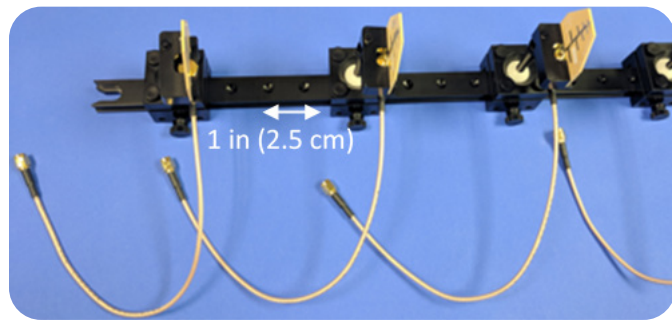
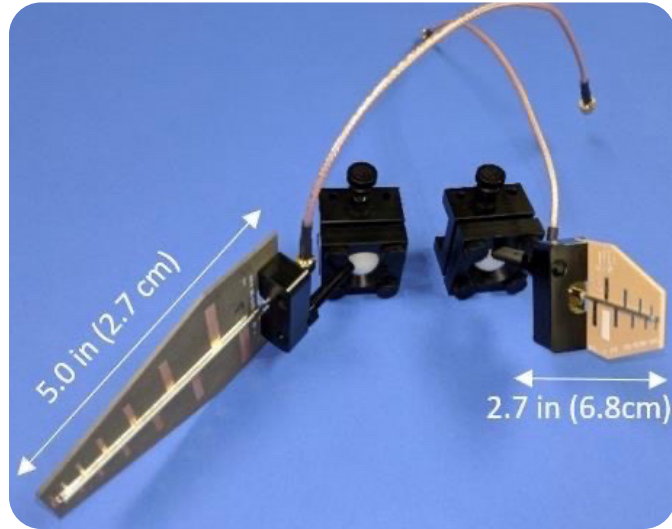
## OBS-15 Radiation Pattern



## About octoScope

[octoScope, a Spirent Company](#), is the market leader in automated testbeds for accurate, repeatable testing of Wi-Fi and 5G network functions and devices. Our highly-realistic, automated test suites save service providers, and device and network vendors millions in troubleshooting and customer care costs by enabling them to identify problems early in the development cycle before customers are impacted. Our patented testbed technology recreates real-world conditions in controlled testing environments to evaluate the performance of the latest Wi-Fi 6 and 6E, and 5G network equipment and devices. The combination of our solutions with Spirent's test portfolio enhances our automation and emulation capabilities, bringing even greater realism to our test suites and helping our customers innovate with unprecedented speed and efficiency.

## OBS-14 and OBS -15 Dimensions



The OBS 14 measurements are 5.0 inches long by 0.8 inches wide and the OBS-15 is 2.7 inches long by 0.8 inches wide. Indicator dimples on the antenna rail (right) are spaced at 1" intervals to aid in proper positioning of antenna elements.

### About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks. We help bring clarity to increasingly complex technological and business challenges. Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled. For more information visit: [www.spirent.com](http://www.spirent.com)

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