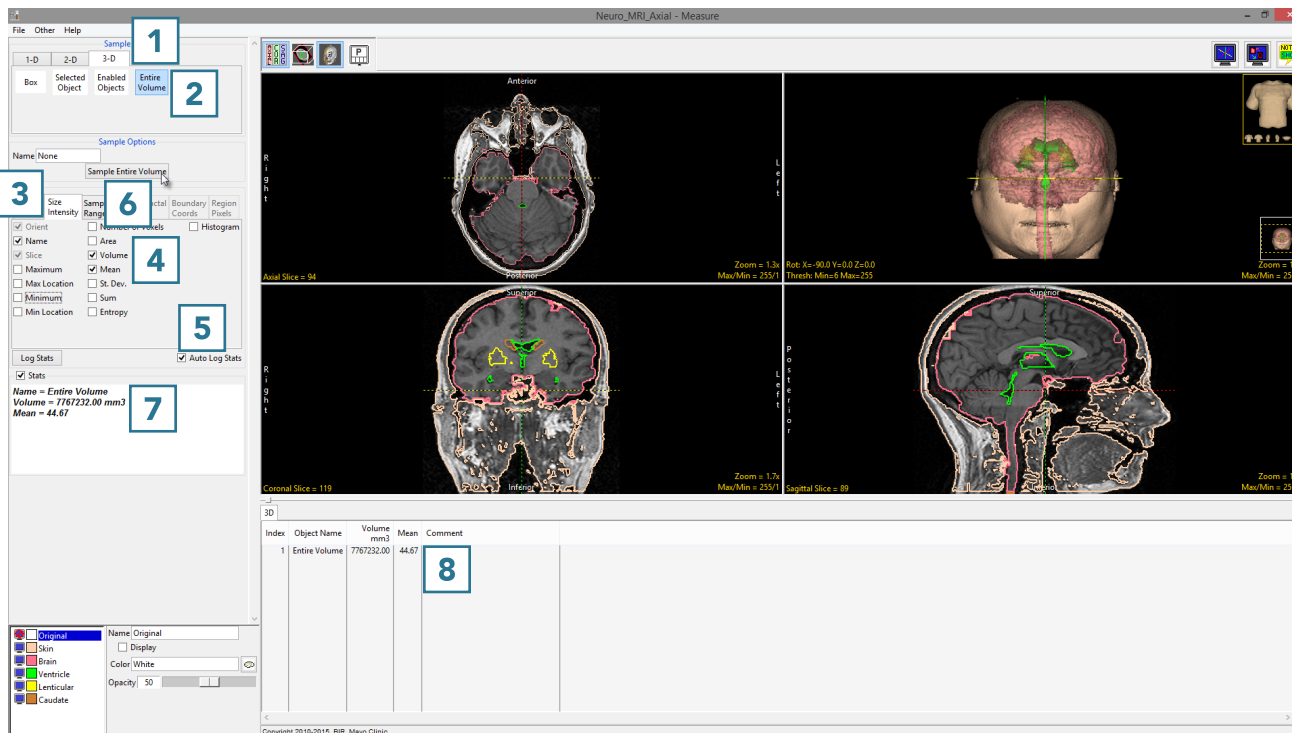


15. Sampling the Entire Data Set

Sometimes it is necessary to obtain statistics for the entire data set.

- Select MRI_3D_Head and open Measure.
- Select File > Load Object Maps and load MRI_3D_Head.obj.
- Select the 3D Sample Type. **1**
Choose Entire Volume. **2**
- Select Size Intensity **3** and make sure that Name, Volume and Mean are checked. Uncheck Area. **4**
- Check Auto Log Stats **5** and click Sample Entire Volume. **6**
- The selected stats for the entire volume will be reported in the Stats review area **7** and log file. **8**

 Download the MRI_3D_Head data set to follow along <http://analyzedirect.com/data/>



The screenshot shows the 'Neuro_MRI_Axial - Measure' window. The 'Sample' dropdown is set to 'Entire Volume' (1, 2). The 'Size Intensity' (3) section has 'Name', 'Volume', and 'Mean' checked, while 'Area' is unchecked (4). The 'Log Stats' checkbox is checked (5). The 'Sample Entire Volume' button is highlighted (6). The 'Stats' section (7) displays the following data:

Index	Object Name	Volume mm3	Mean	Comment
1	Entire Volume	7767232.00	44.67	

The bottom panel (8) shows the '3D' table with the same data. The main display area shows four viewports: Anterior, Superior, Coronal, and Sagittal, each displaying a 3D model of the head with a green sampling volume. The bottom panel also includes a legend for 'Original', 'Skin', 'Brain', 'Ventricle', 'Lenticular', and 'Caudate'.

Technically, to sample stats for the entire volume, an object map is not required.

- Select MRI_3D_Head and open Measure. [9]
- Select the 3D Sample Type [9] and choose Entire Volume. [10]
- Select Size Intensity [11] and make sure that Name, Volume, and Mean are checked. Uncheck Area. [12]
- Check Auto Log Stats [13] and click Sample Entire Volume. [14]
- The selected stats for the entire volume will be reported in the Stats review area [15] and log file. [16]

