**Magnetic Field Data Generation in STK**

Follow the instructions below. Completion of these steps will yield a file that the Helmholtz Cage program can read.

1. Design satellite scenario, and note reference frame/coordinate system (ICRF, J2000, etc)
2. Click *Report and Graph Manager*
3. If custom report is already generated, skip to step
4. Click *Create New Report Style*
5. Name the report style something sensible like “Magnetic\_Field”
6. The data provider window should appear, type “Vectors” in the search bar and click *Filter*
7. Expand the *Vectors* category that has the noted reference frame/coordinate system
8. Expand the *MagField* category for either IGRF or WMM as both are reputable models
9. Select *x*, *y*, and *z* such that they are added to *Report Contents*
10. Select *Okay*, the window should close
11. Ensure in the *Report and Graph Manager* window, the new report style is highlighted
12. Select *Generate*
13. Click *Show Step Size* and change time to desired step size, if it differs
14. Click *Save as .csv*, note that there will be issues saving if *Time* is included in the Report Contents