

For this data the PVA was lying parallel to the ground and sitting on top of a stack of dielectric foam on a turn table (see Figure 1). The convention used previously will be scrapped for a hopefully more intuitive one. HPol will be perpendicular to the ground and VPol will be parallel (convention set by the orientation of the PVA which is strongest in VPol). The collected data comes in the form of csv files since no automated digitizing into root files was possible using the 5 GSa/s scope provided by the Anechoic chamber personnel. The csv files are named tek*.csv, where in place of the star is a few leading zeros and a number after them. The table below indicates what is in each file, there is 10 files for each orientation. The angular orientation of the PVA was changed via the turntable it sat upon with an accuracy on the order of 0.1° , the PVA was turned clockwise from 0 to 90° . The receiver was an ARIANNA LPDA.

S11 data was also taken with a nice network analyzer supplied by the chamber. This data is located in the “NWA” folder.

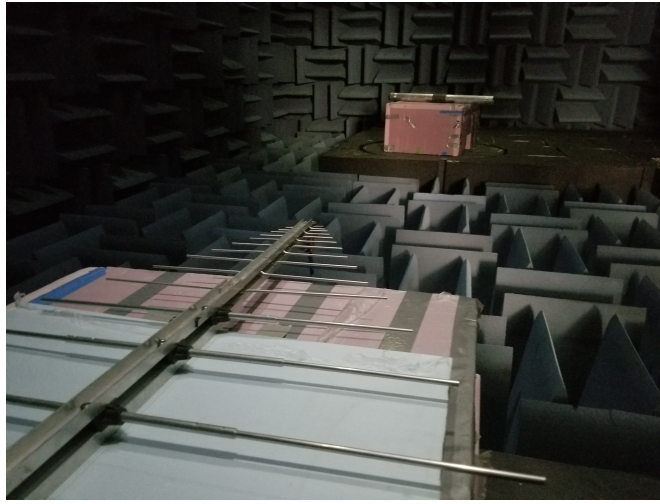


Figure 1: The setup with both in VPol orientation as per the convention used in this document.

LPDA Orientation	PVA angle	File number
VPol	0°	1-10
VPol	30°	11-20
VPol	45°	21-30
VPol	60°	31-40
VPol	75°	41-50
VPol	90°	51-60
VPol	15°	61-70
HPol	0°	71-80
HPol	15°	81-90
HPol	30°	91-100
HPol	45°	101-110
HPol	60°	111-120
HPol	75°	121-130
HPol	90°	131-140