



Master Wave

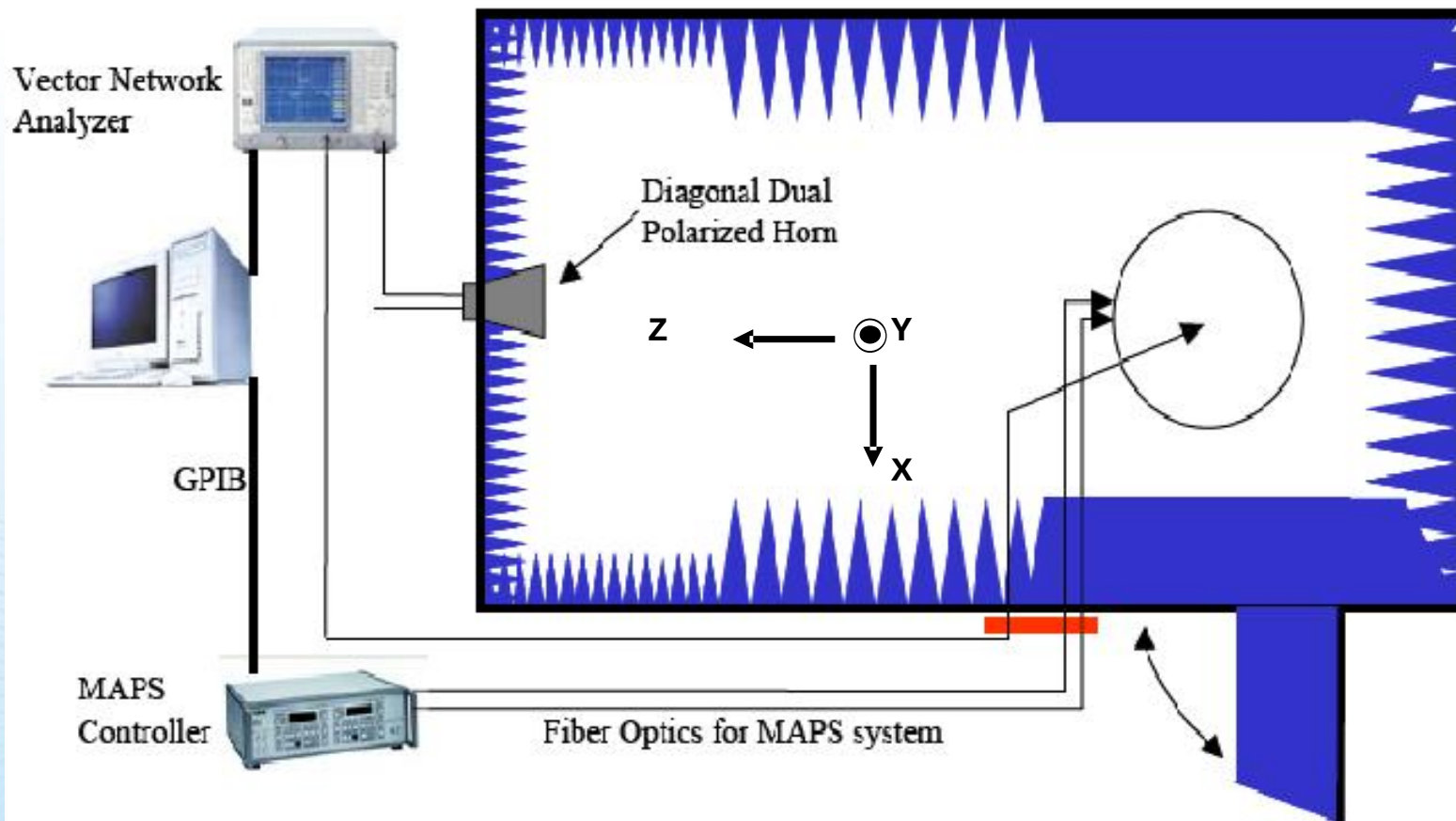
權億科技股份有限公司
Master Wave Technology Co., Ltd.

Camera Antenna for 2.4GHz Band Test Report 2011-07-21

Website : www.masterwave.com.tw



Measurement environment(1)



Measurement environment(2)

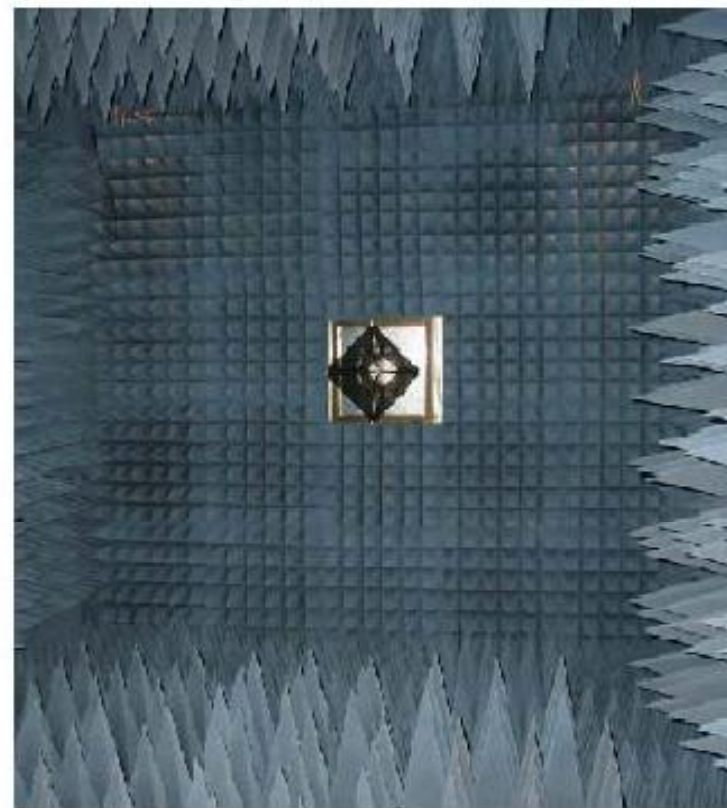
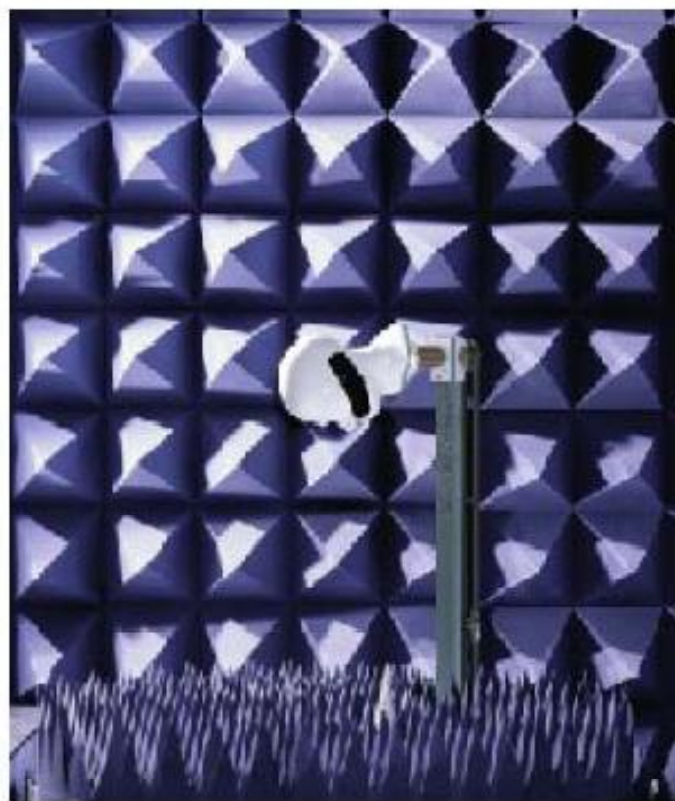
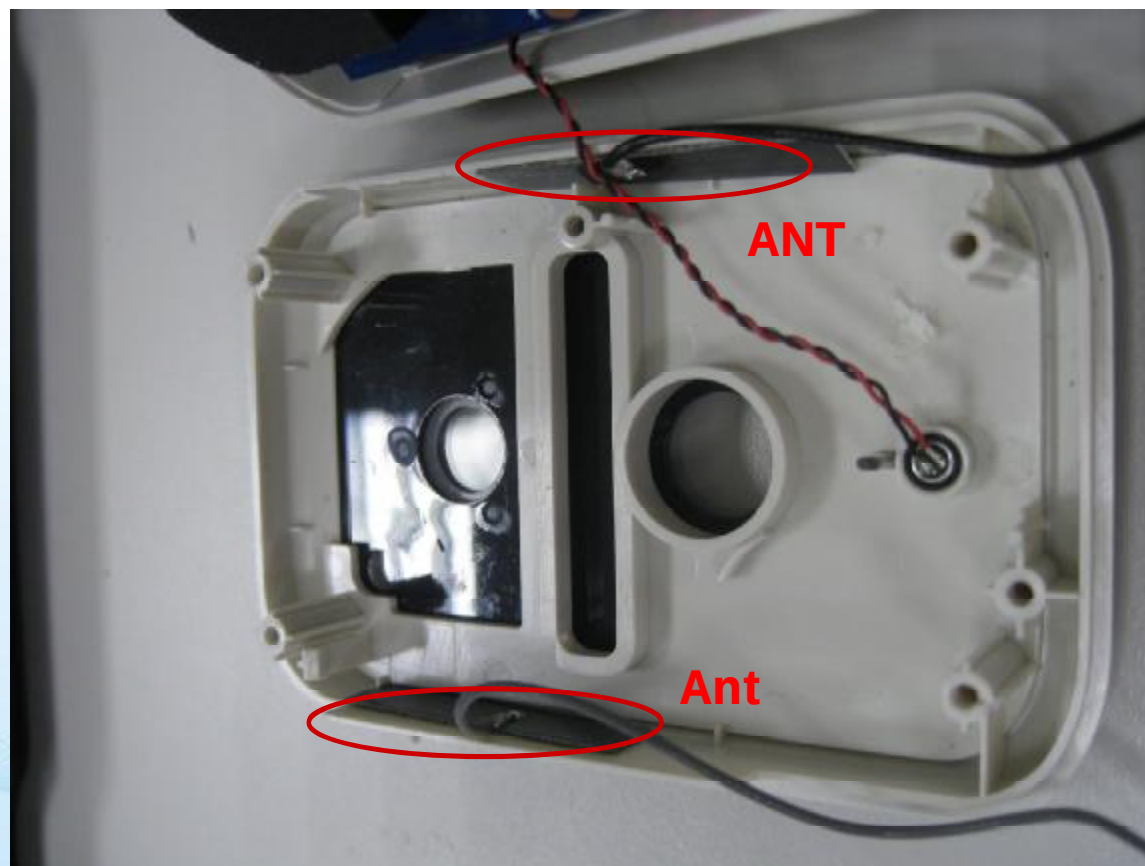


Figure 3: Typical test system showing 2115 medium duty MAPS on left and measurement antenna 3164-04 with the antenna set-up panel on right.



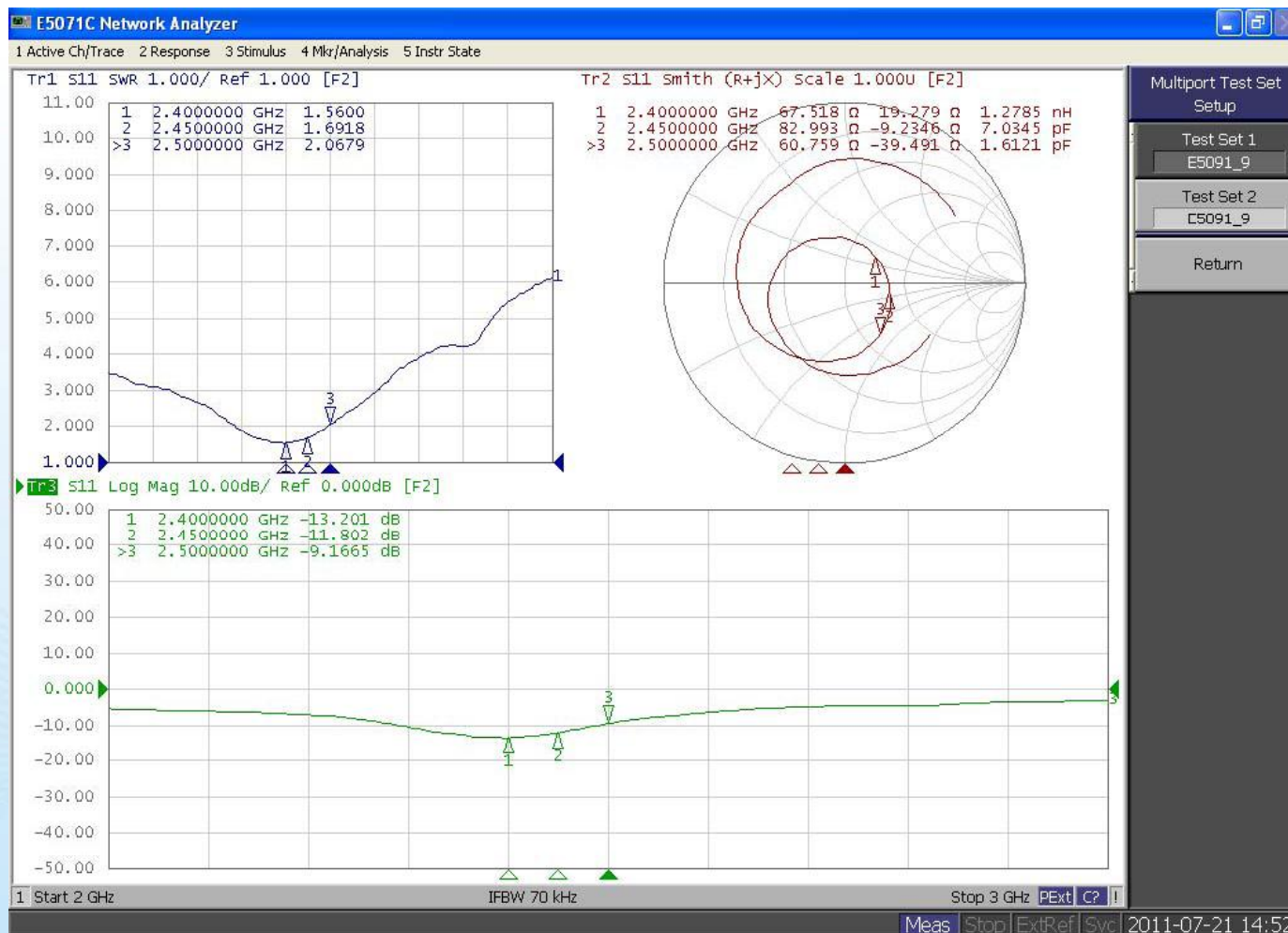
PCB Antenna Configuration

Antenna Material: FR-4





Impedance matching_ANT





Antenna Efficiency_Ant

XY-Plane			
Frequency (MHz)	2400	2450	2500
Peak Gain (dBi)	-2.88	-3.27	-4.57
Average Gain (dB)	-3.65	-4.07	-5.34
XZ-Plane			
Frequency (MHz)	2400	2450	2500
Peak Gain (dBi)	2.15	2.03	0.76
Average Gain (dB)	-2.87	-2.91	-3.92
YZ-Plane			
Frequency (MHz)	2400	2450	2500
Peak Gain (dBi)	-1.26	-0.98	-1.91
Average Gain (dB)	-4.6	-3.96	-4.67

Frequency (MHz)	2400	2450	2500
Efficiency (%)	53.08	55.05	44.49

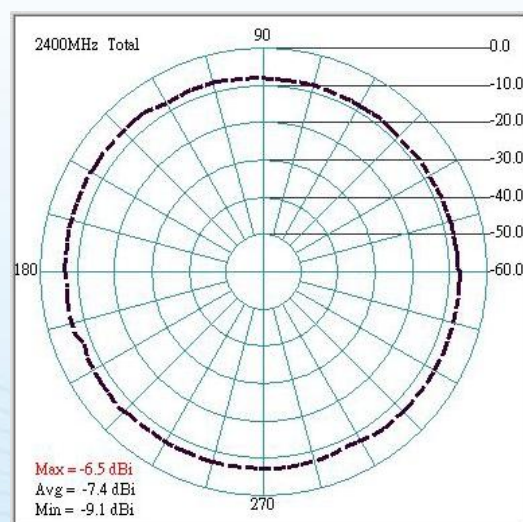
Antenna location



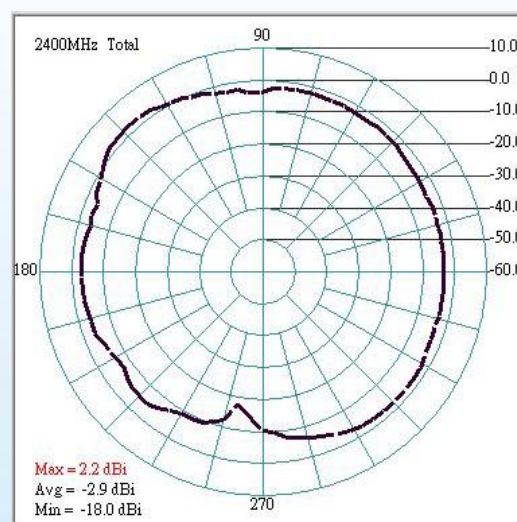


3D Radiation Pattern_Ant

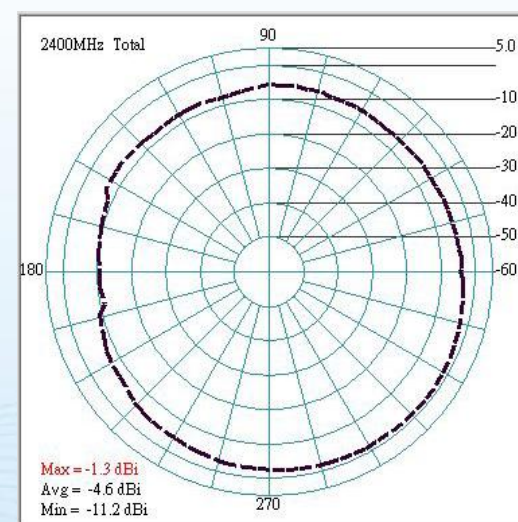
2400MHz



XY-Plane



XZ-Plane

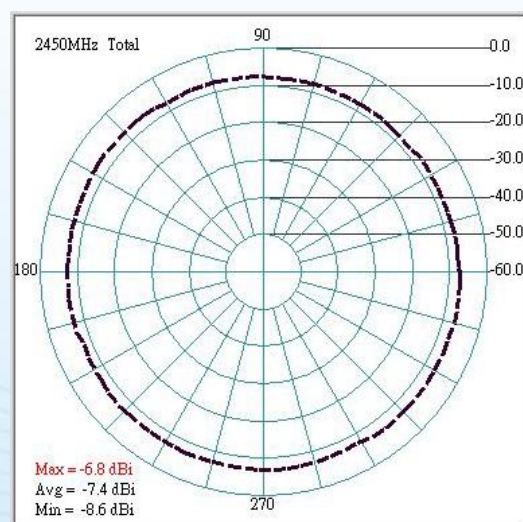


YZ-Plane

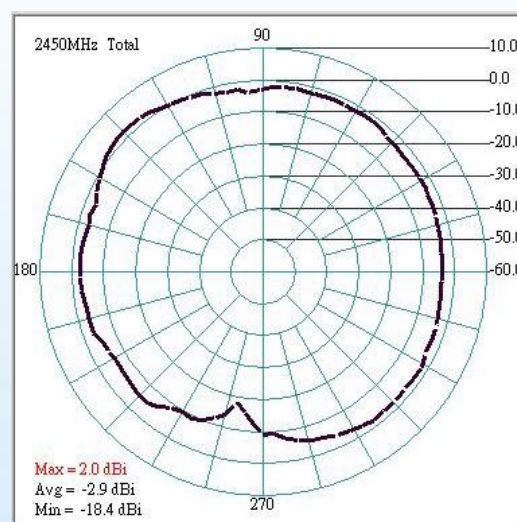


3D Radiation Pattern_Ant

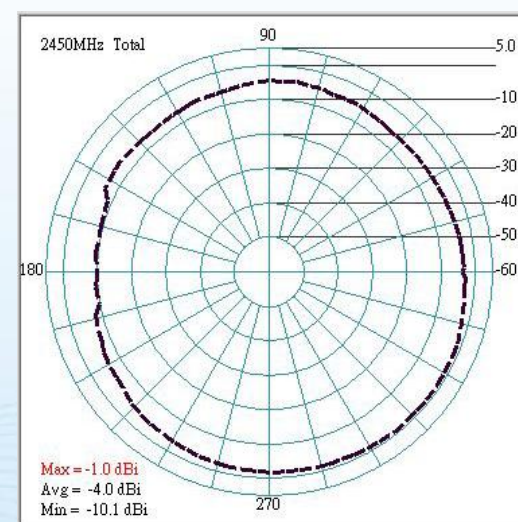
2450MHz



XY-Plane



XZ-Plane

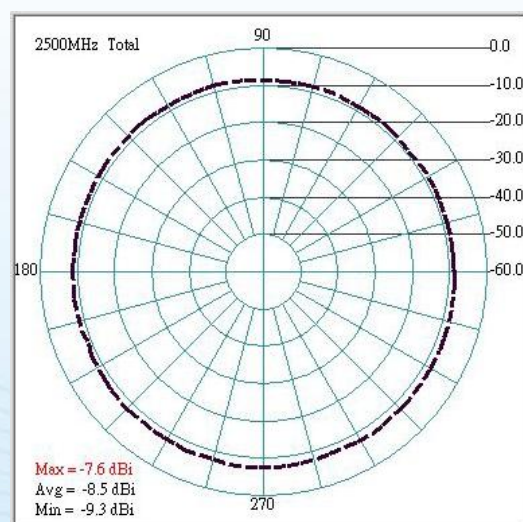


YZ-Plane

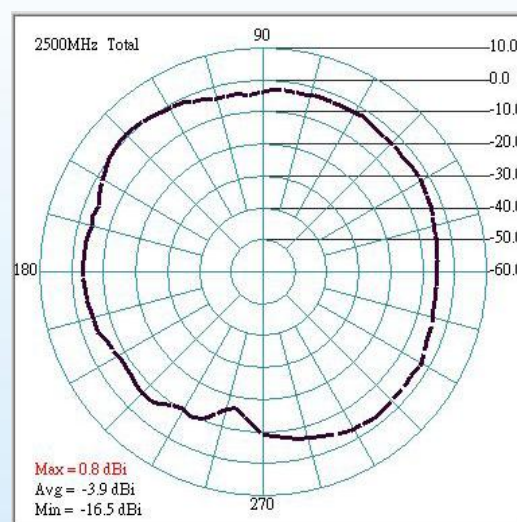


3D Radiation Pattern_Ant

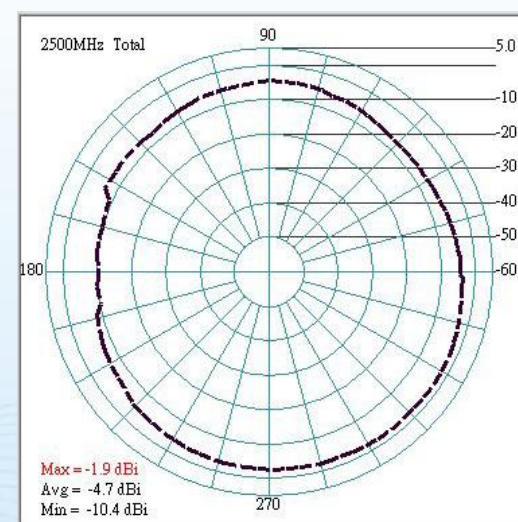
2500MHz



XY-Plane



XZ-Plane



YZ-Plane