上海增信电子有限公司
Signal Plus Technology Co., Ltd.

Antenna Test Report

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Data Preview

Freq.(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480
VSWR	4.95	5.18	5.43	5.62	5.98	6.21	6.37	6347	6.61
Gain(dBi)	1.98	0.77	1.17	1.79	0.88	0.90	1.41	0.86	-0.09
Eff.%	34.6	26.4	27.9	31.7	27.3	27.7	31.3	28.9	25.7

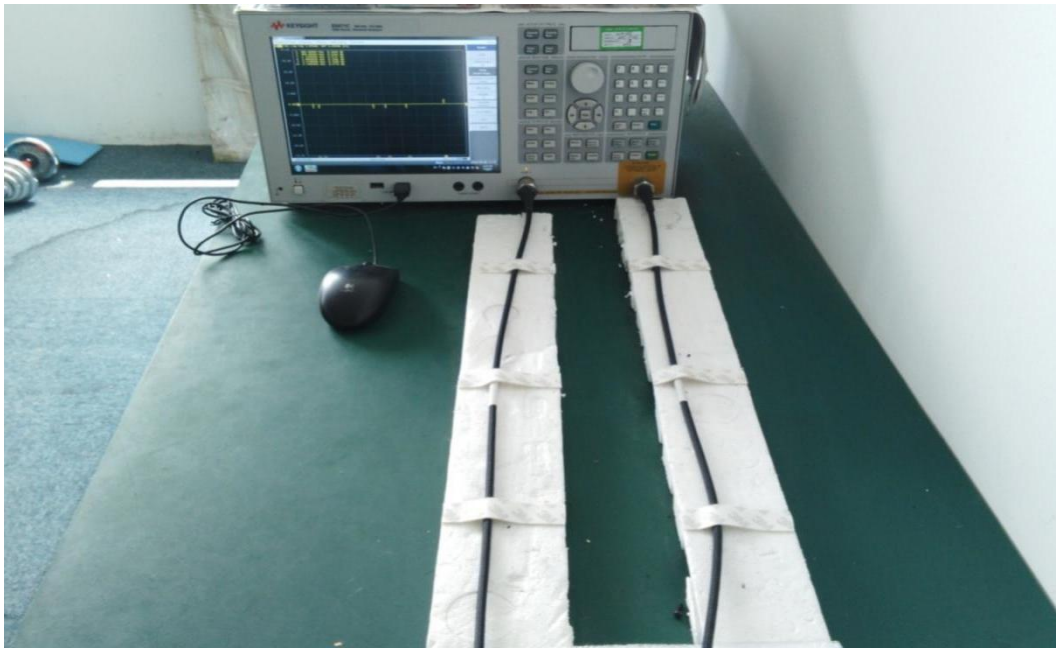
Freq.(MHz)	2490	2500
VSWR	6.83	7.05
Gain(dBi)	0.27	-0.59
Eff.%	27.6	22.6

1. RF Fixture Experiment

1.1 Test Setup

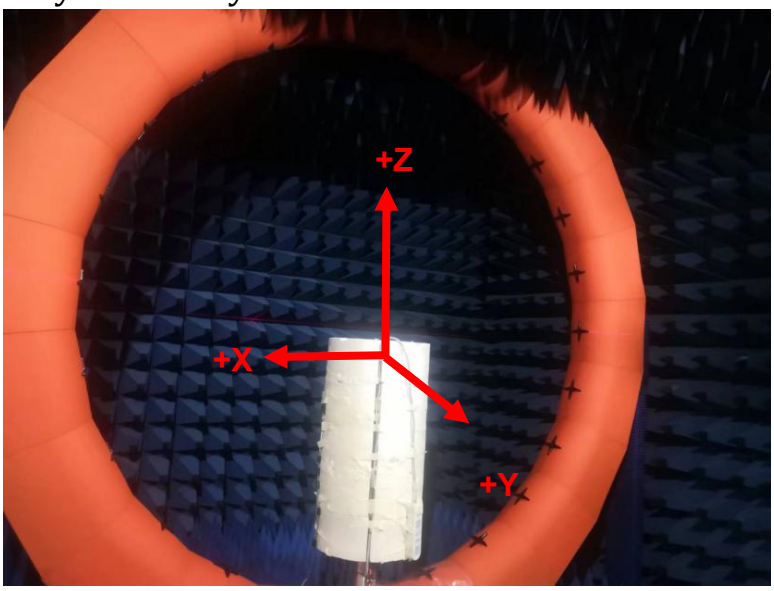
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S11) were performed using an KeySight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.



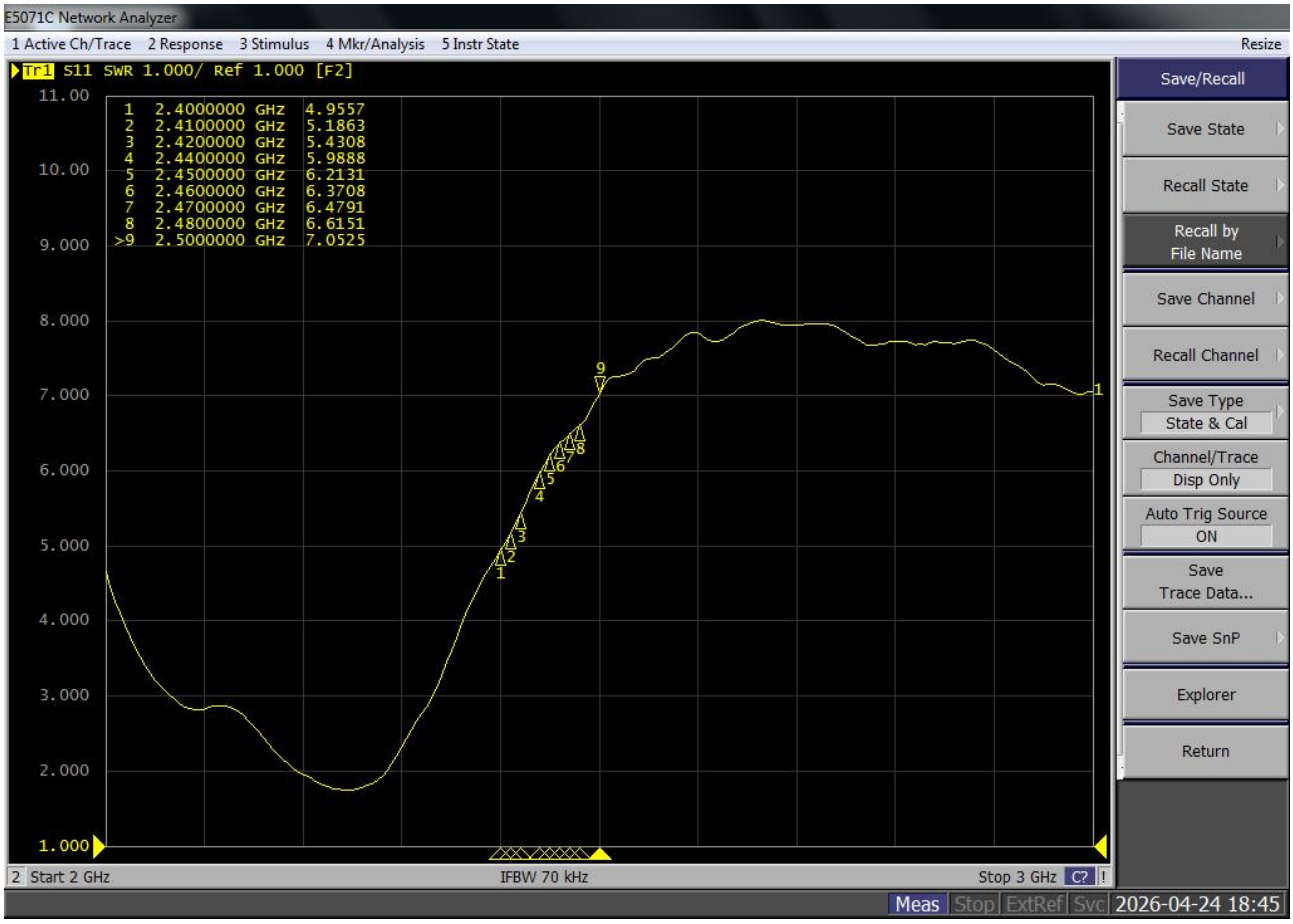
1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber.
The chamber provides less than –30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is:7m*4m*3m. The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.

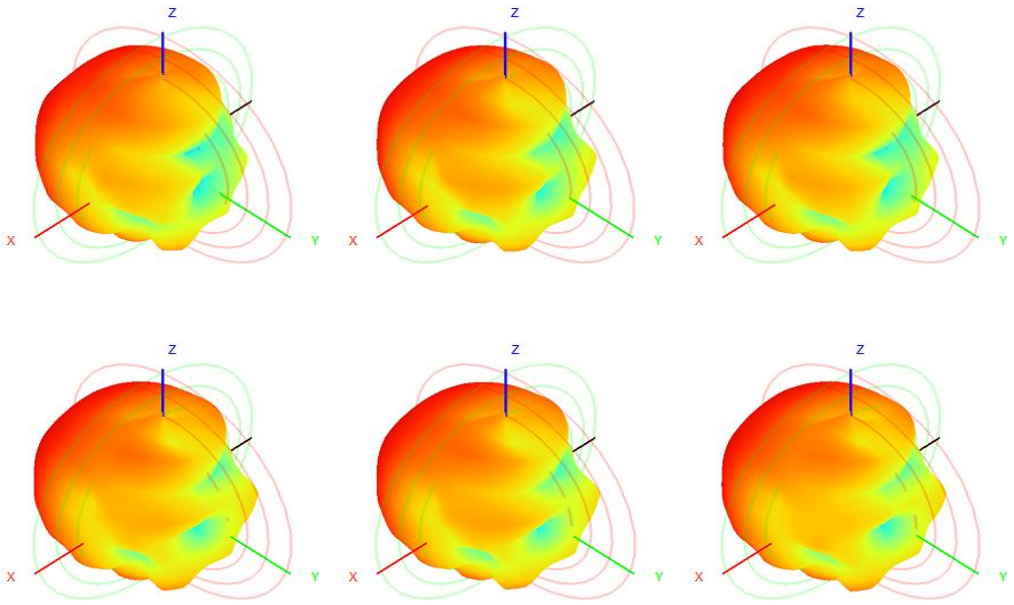


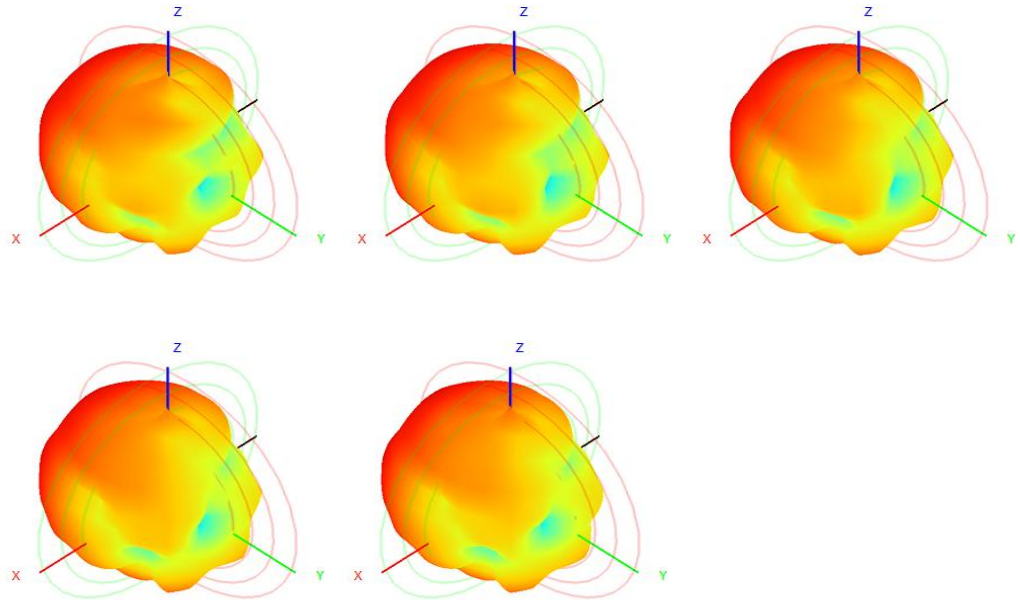
2. Antenna Solution

S11



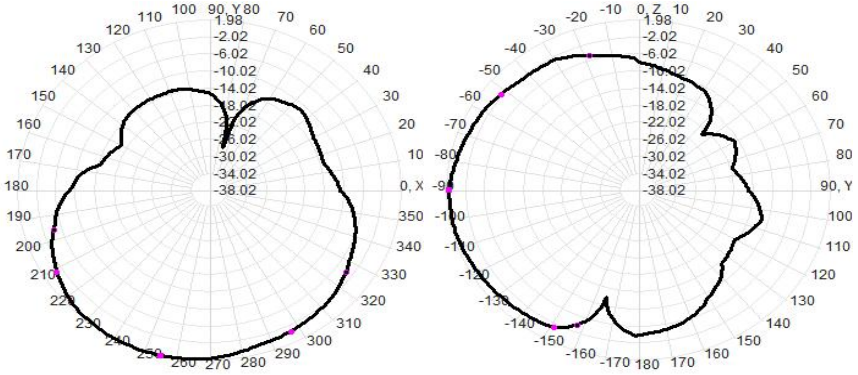
Radiationpatterns:3D(22400/2410/2420/2430/2440/2450/2460/2470/2480/2490/2500MHz)



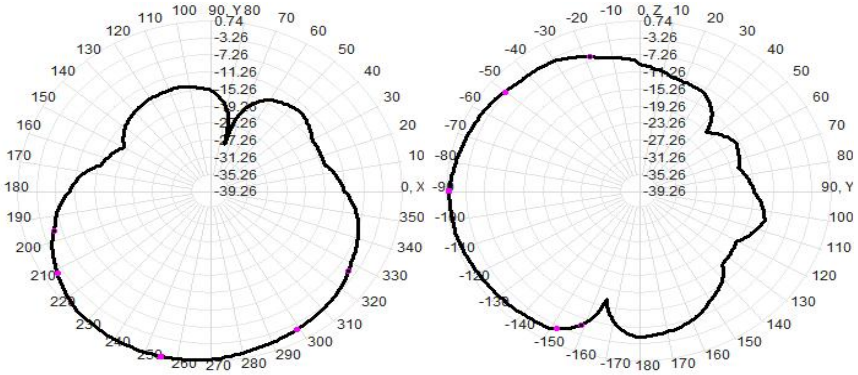


Radiationpatterns:2D(22400/2410/2420/2430/2440/2450/2460/2470/2480/2490/2500MHz)

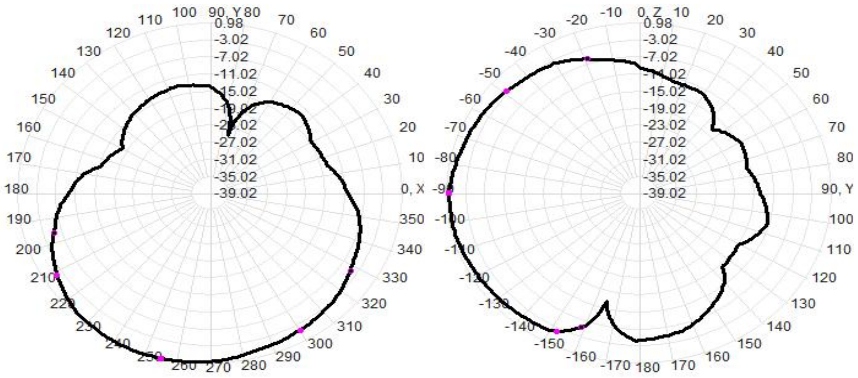
2400



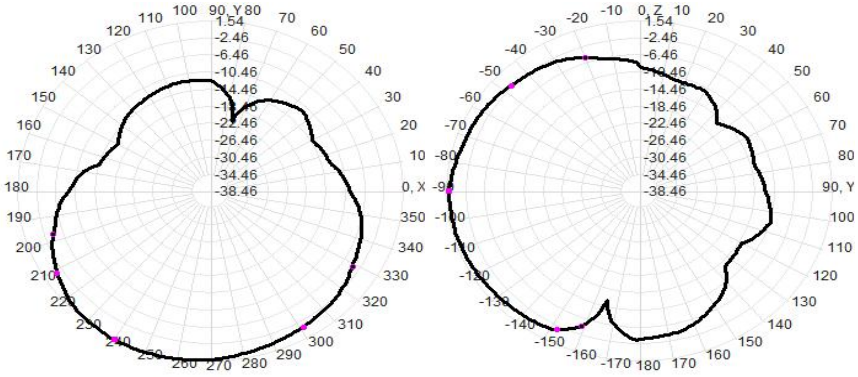
2410



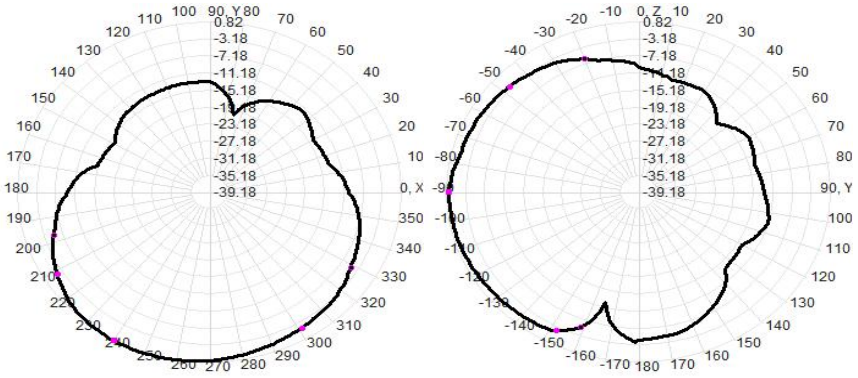
2420



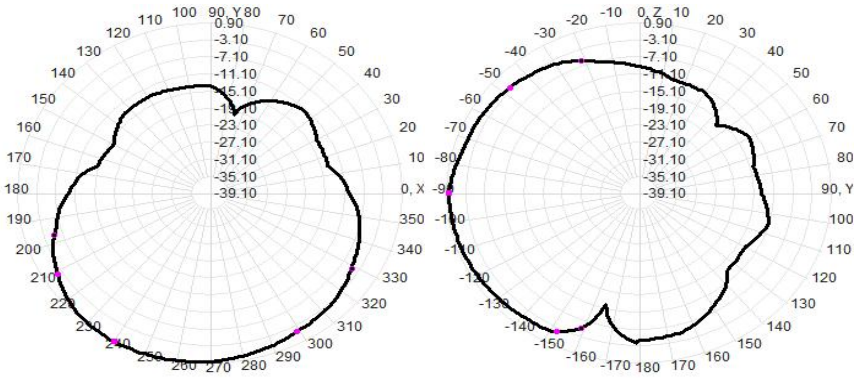
2430



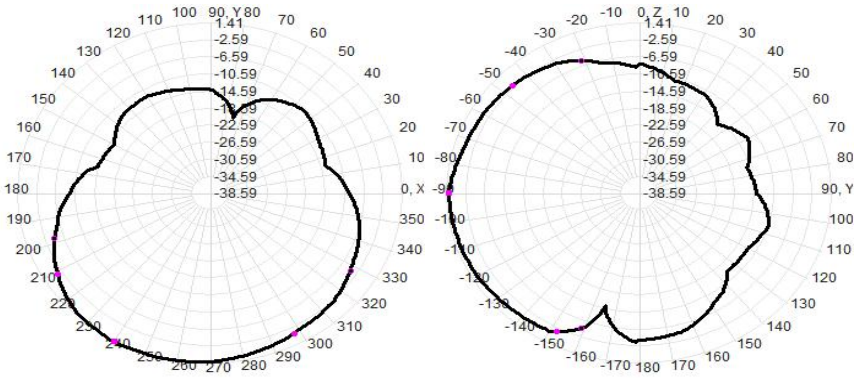
2440



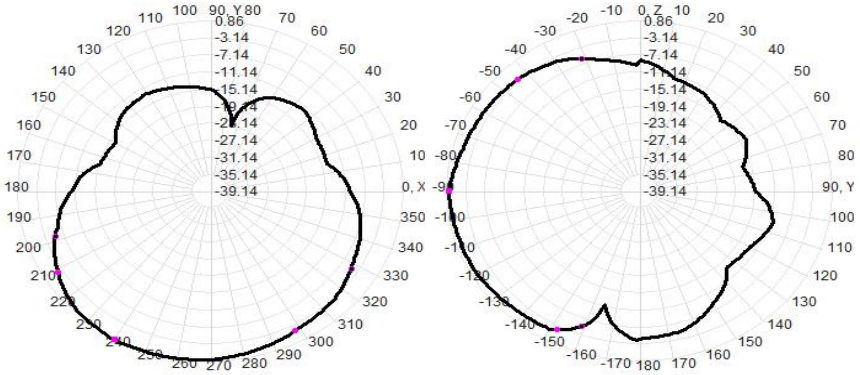
2450



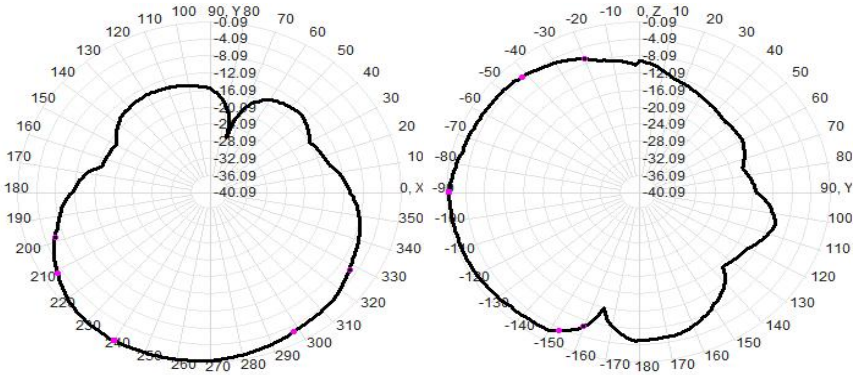
2460



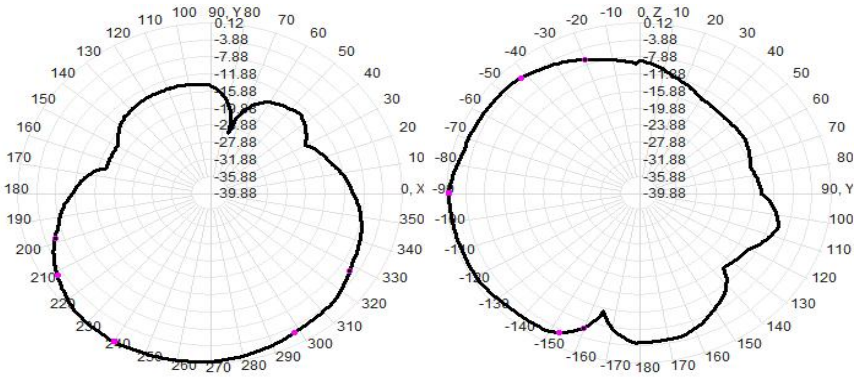
2470



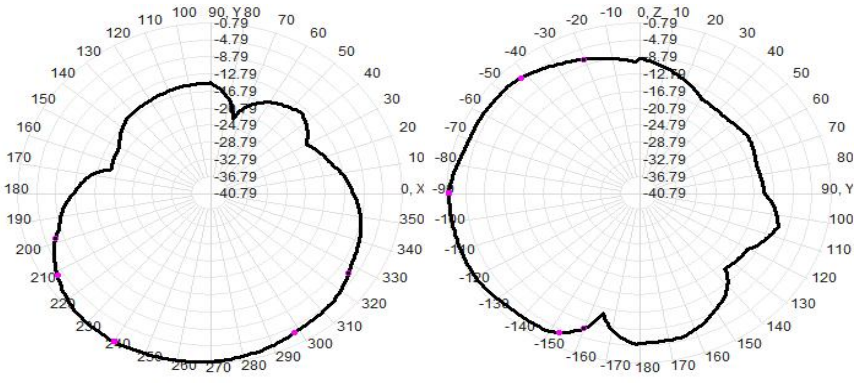
2480



2490



2500


90, Y 80
-0.79
-4.79
-8.79
-12.79
-16.79
-20.79
-24.79
-28.79
-32.79
-36.79
-40.79
0, X
0, Z 10