



通力电子

AK3314 Antenna test Report

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Data: 2022.07.05

■ Antenna Placement



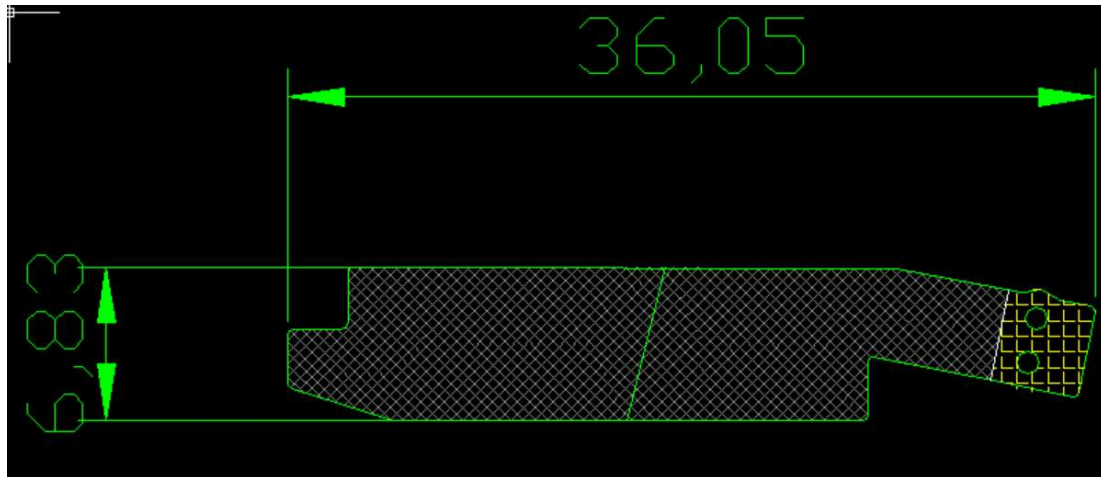
■ Antenna dimension map

Antenna Type:PCB Antenna

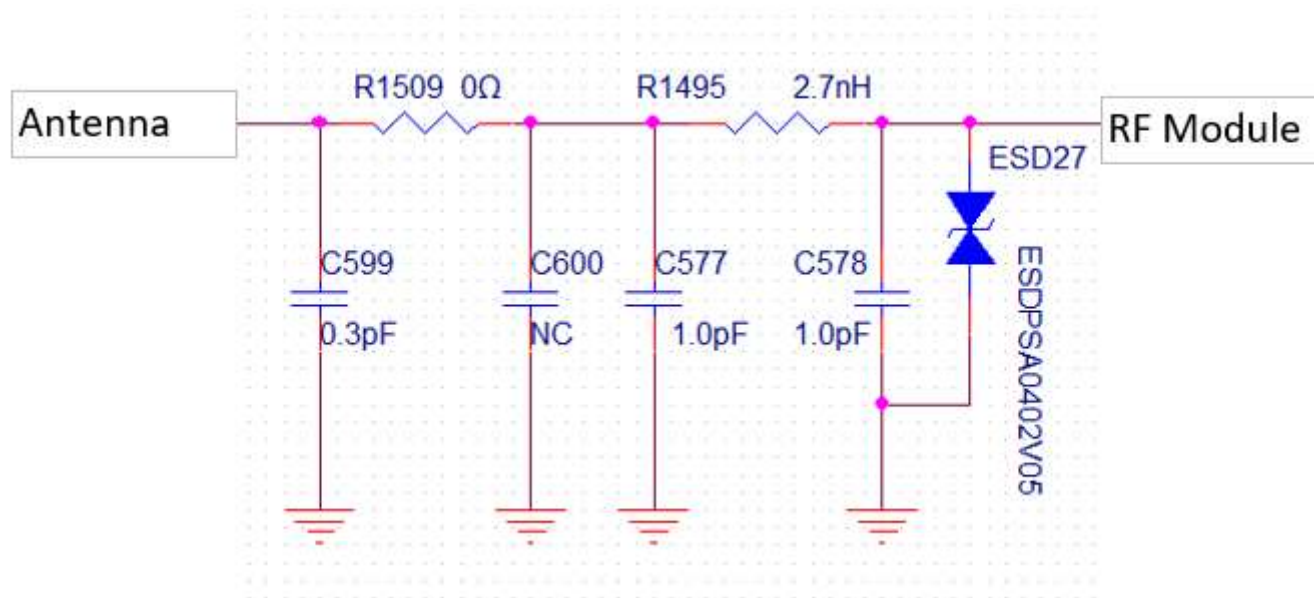
Antenna Brand: Tonly

Length*Width:36.05mm*6.83mm

Antenna Supplier:TCL Tonly Electronics (Huizhou) Co.,Ltd.



■ Antenna matching circuit

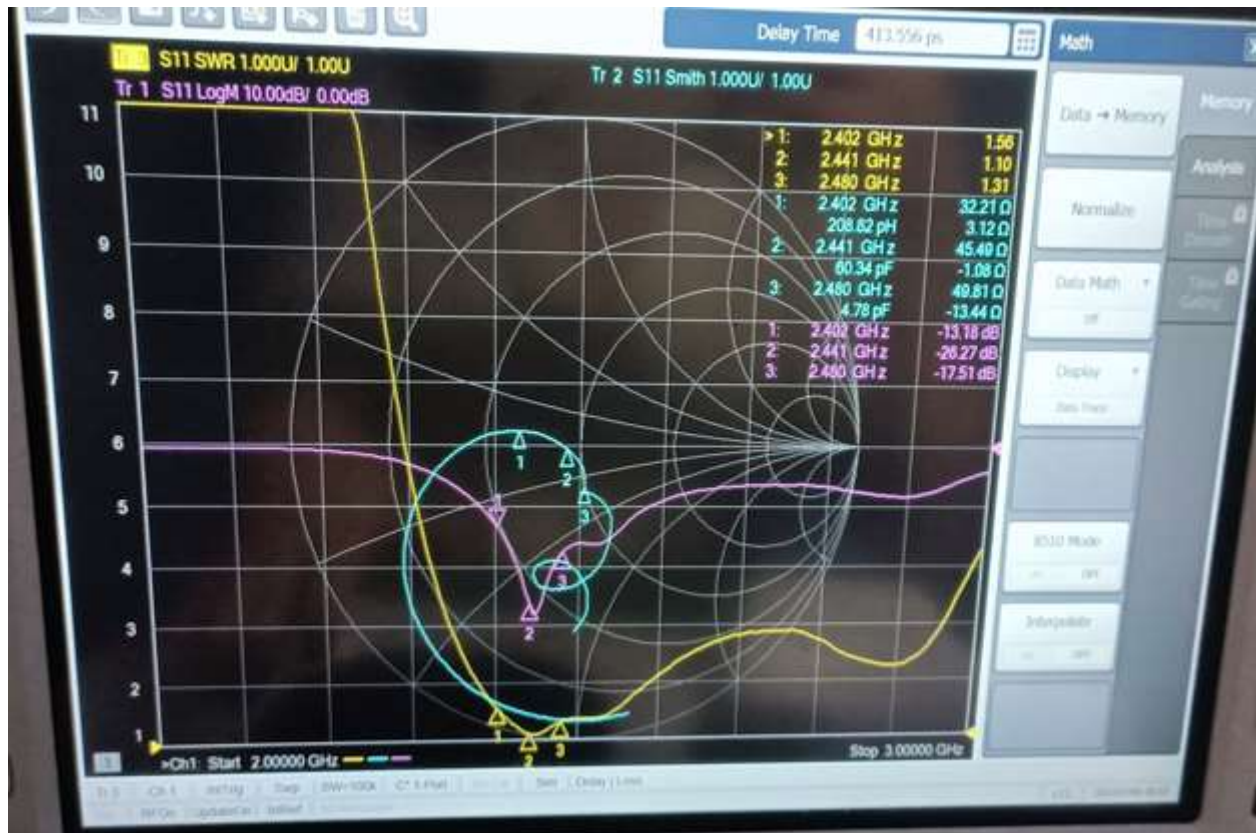


Element	Value
R1509	0Ω
R1495	2.7nH
C599	0.3pF
C600	NC
C577	1pF
C578	1pF
ESD27	00402V05



■ Antenna S parameter

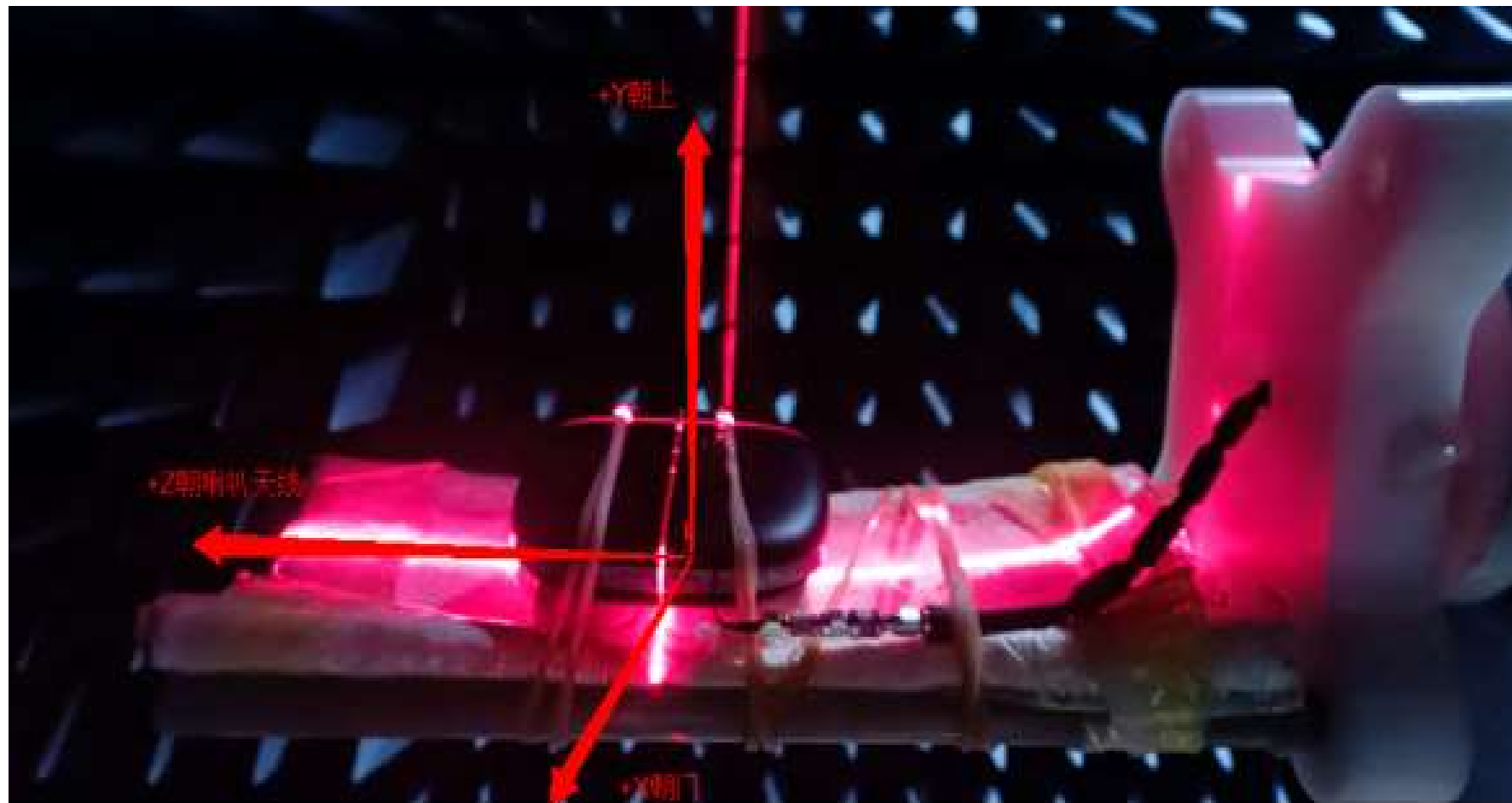
S11:



Fre(Mhz)	2402	2441	2480	Spec.
VSWR	1.56	1.1	1.31	≤2.0



■ Test fixture



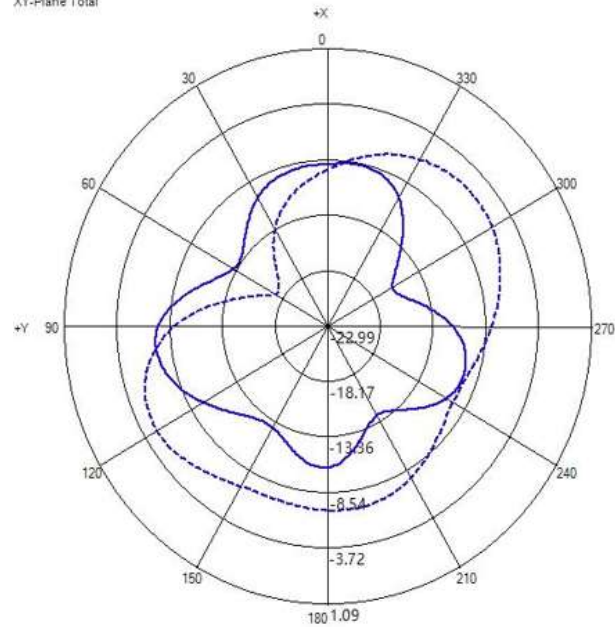
■ Antenna PASSIVE parameter

Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	1.470358363	-3.945024031	40.31787155
2410	1.606242737	-3.834342444	41.35859298
2420	1.655404631	-3.702944117	42.62904351
2430	1.903565876	-3.585684268	43.79571019
2440	2.213776308	-3.491294568	44.75798673
2450	2.417935285	-3.437395392	45.31692791
2460	2.663760449	-3.360061146	46.13110796
2470	2.761575774	-3.278348026	47.00728815
2480	2.534639633	-3.313514149	46.62819297
2490	2.427446161	-3.381243499	45.90665513

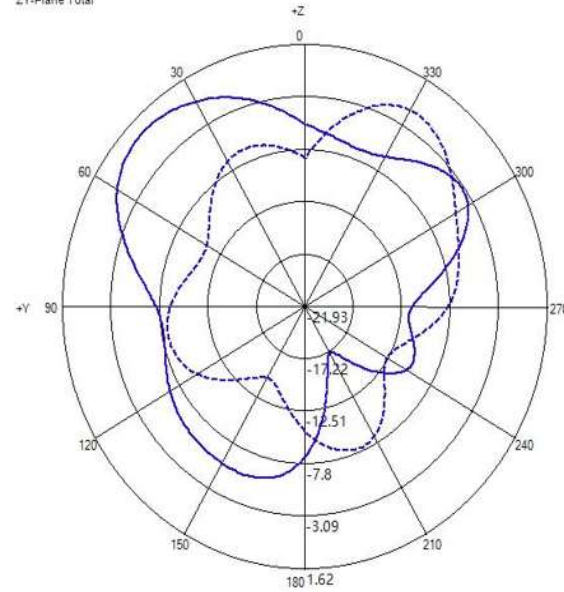


■ Antenna pattern

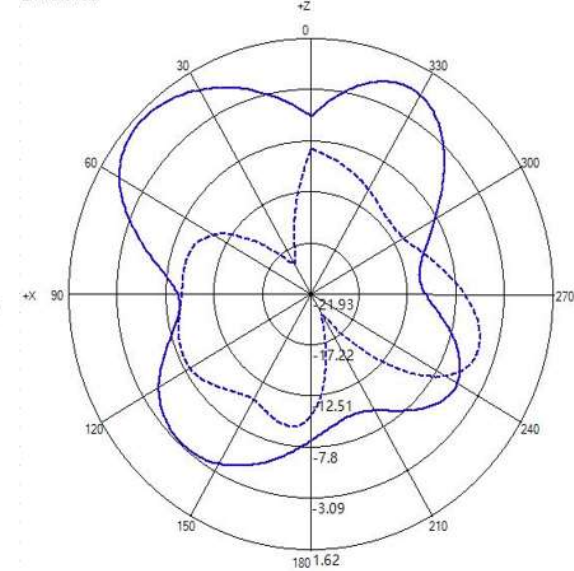
Channel (MHz) 2440 XY-Plane Max. (dB) -7.43 Ave. (dB) -10.7289
XY-Plane Total



Channel (MHz) 2440 ZY-Plane Max. (dB) -0.6 Ave. (dB) -5.05021
ZY-Plane Total



Channel (MHz) 2440 ZX-Plane Max. (dB) -0.16 Ave. (dB) -3.99912
ZX-Plane Total



■ Antenna active parameter

BR/DH1		
CHANNEL	TRP (dBm)	TIS (dBm)
0	3.15	-91.32
39	3.18	-91.52
78	3.43	-92.13

