

产品规格承认书

Specification For Approval

产品名称: 3216 Chip antenna

Product Name :

产品型号: 3216F245M02

Model No. :

公司名称: Voyetra Turtle Beach, Inc.

Company :

地址: 15822 Bernardo Center Drive, Suite 105 San Diego,

Address : CA 92127

一 产品结构图 Product structure diagram

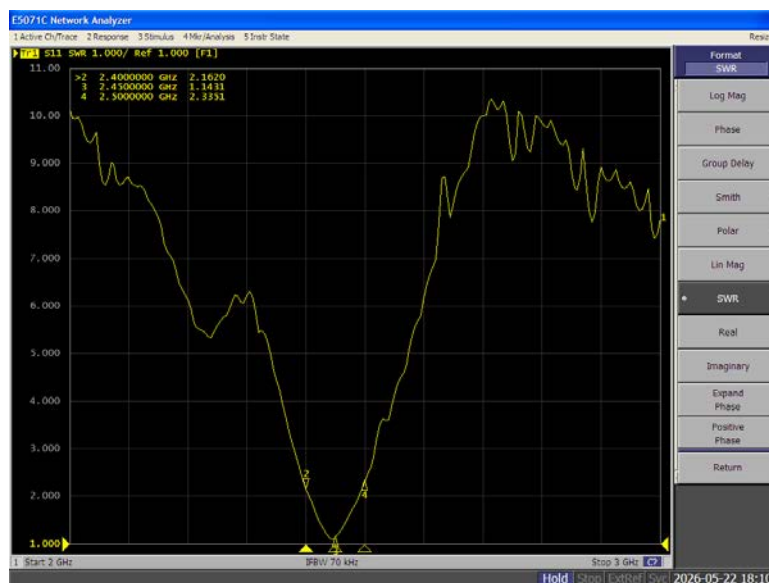
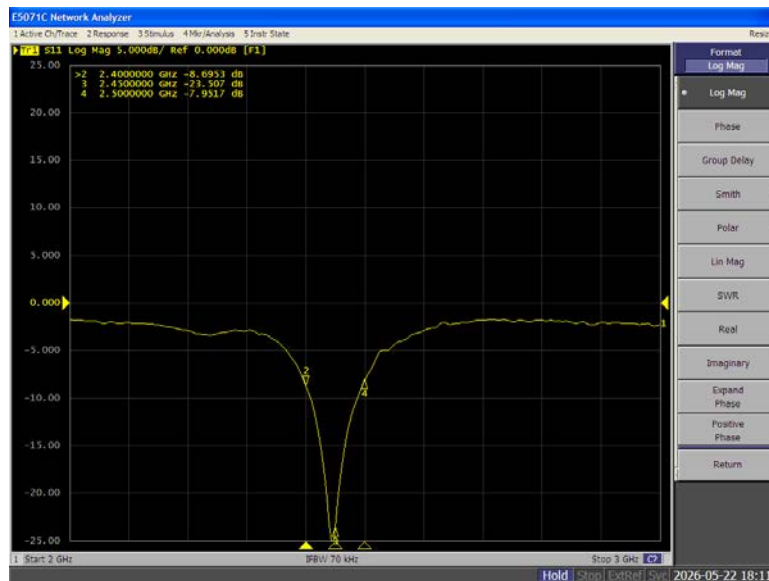


	Dimension (mm)
L	3.23 ± 0.20
W	1.66 ± 0.20
T	1.23 ± 0.20

二 天线技术参数 Antenna technical parameters

型号名 Model No.	3216F245M02
天线类别 Antenna type	Chip antenna
频段 Frequency range	2400-2500MHz
驻波比 SWR	< 2.4
效率 Efficiency	> 39 %
增益 Maximum gain	0.88 dBi

三 天线回波损耗/驻波比 Return loss/VSWR

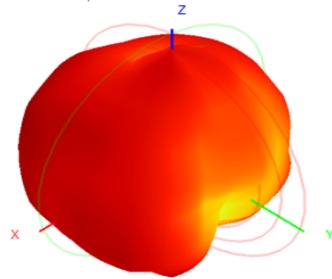


四 增益和效率 Gain and Efficiency

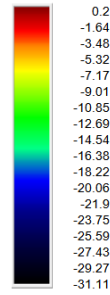
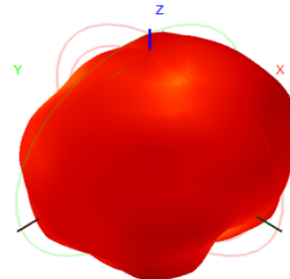
Freq. (MHz)	Efficiency (dBi)	Gain (dBi)	Efficiency (%)
2400.0	-3.40	0.20	45.69
2410.0	-3.49	0.13	44.82
2420.0	-3.42	0.04	45.49
2430.0	-3.19	0.53	47.94
2440.0	-3.32	0.84	46.54
2450.0	-3.21	0.88	47.76
2460.0	-3.37	0.66	46.03
2470.0	-3.58	0.17	43.88
2480.0	-3.75	0.08	42.18
2490.0	-3.99	0.13	39.87
2500.0	-4.06	0.35	39.22

五 3D/ 2D directional pattern

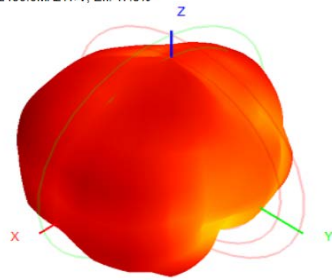
2400.0MHz H+V, Eff. 45.7%



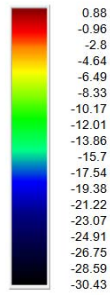
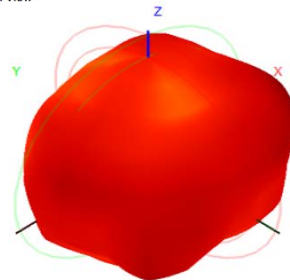
Back View



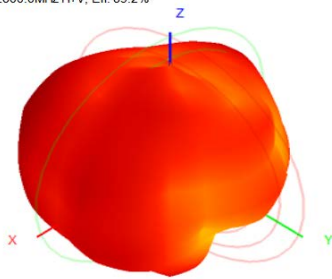
2450.0MHz H+V, Eff. 47.8%



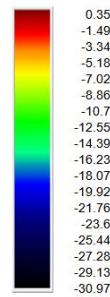
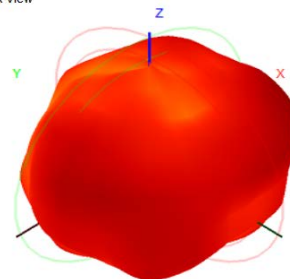
Back View



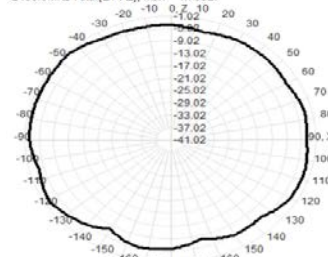
2500.0MHz H+V, Eff. 39.2%



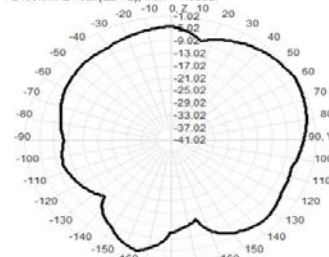
Back View



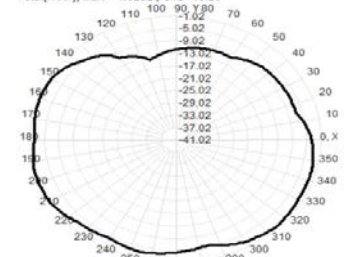
2400.0MHz Total(E1-XZ), Max=-1.73dB



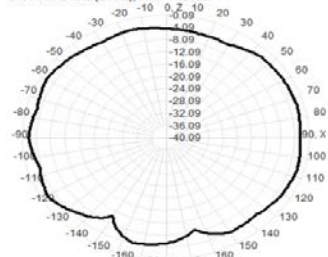
2400.0MHz Total(E2-YZ), Max=-1.59dB



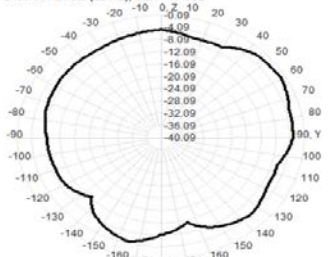
Total(H+V), Max=-1.02dB, CirD=13.23



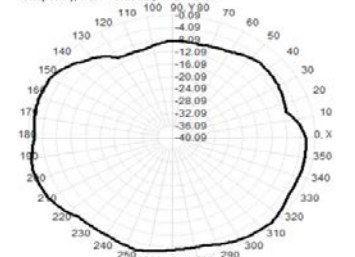
2450.0MHz Total(E1-XZ), Max=-1.95dB

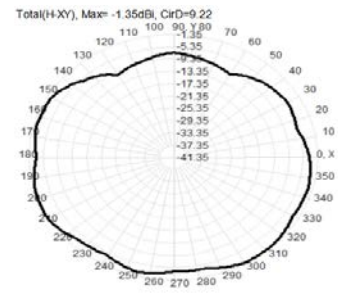
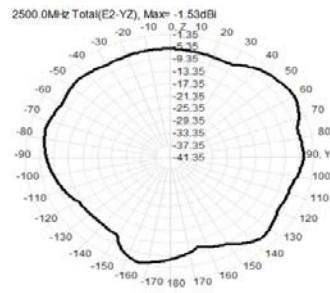
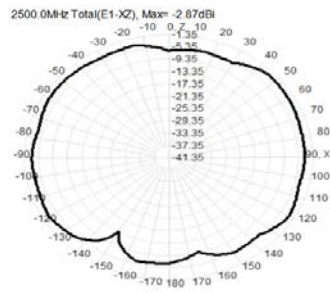


2450.0MHz Total(E2-YZ), Max=-1.49dB



Total(H+V), Max=-0.09dB, CirD=10.31





六 测试系统 test system

The test system is a 4*4*4 FETU 24-probe test system.