

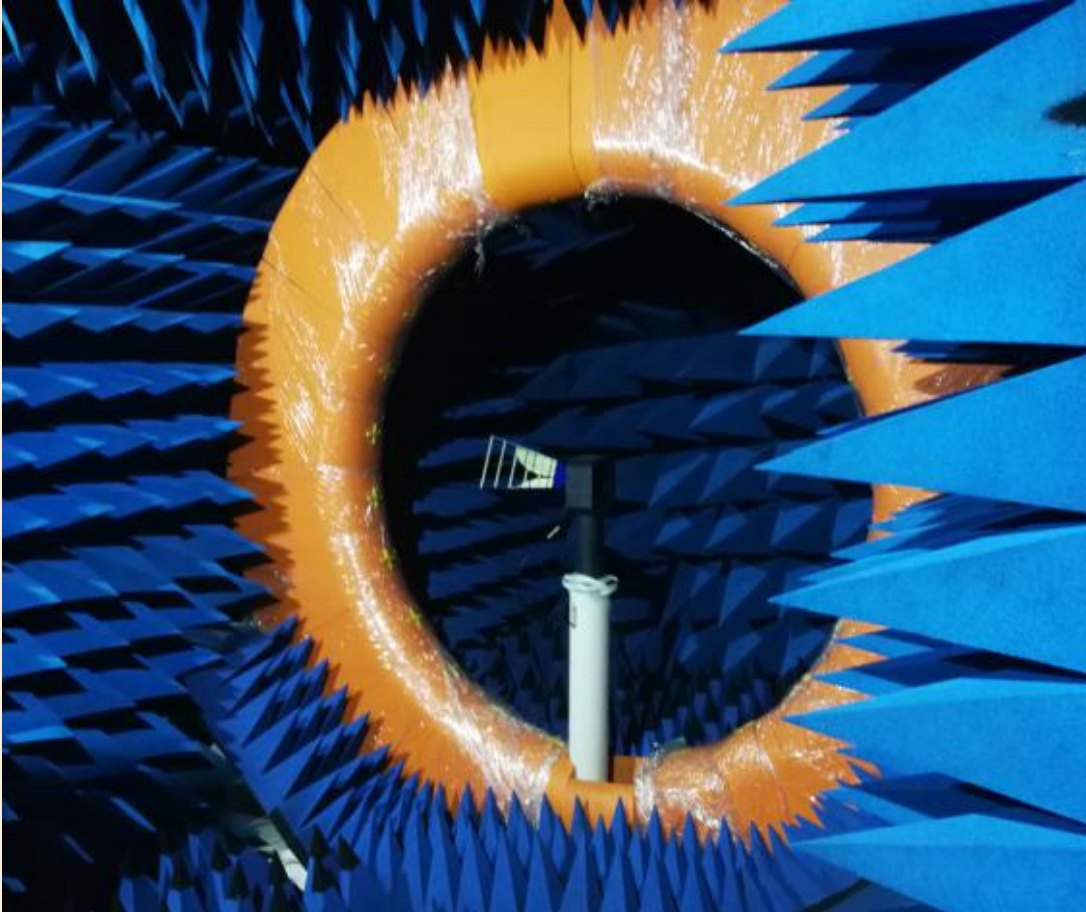
德威玛通讯设备有限公司
DWM Communication Equipment Co., Ltd.

Antenna Test Report
天线测试报告

❖ DATE: 2024-12-26



Test Equipment



A 24-probe microwave chamber



5G StarPoint SP9500



R&S CMW500



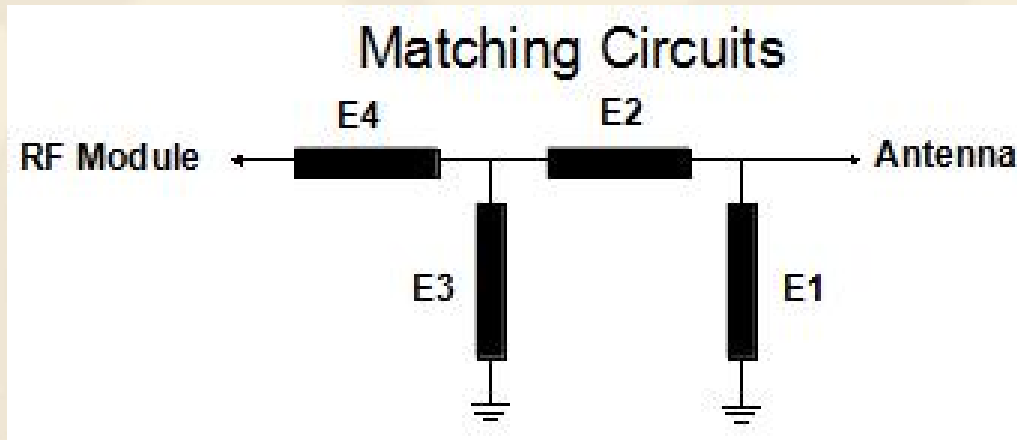
Agilent Technologies E5071C

Customer	VODOFO	Customer Number	LT32P80
Antenna Band	LTE-CAT1: 703~960MHz&1710~2690MHz GPS:1575.42MHz	DWM Number	
Date	2024/12/26	Author	

Specification

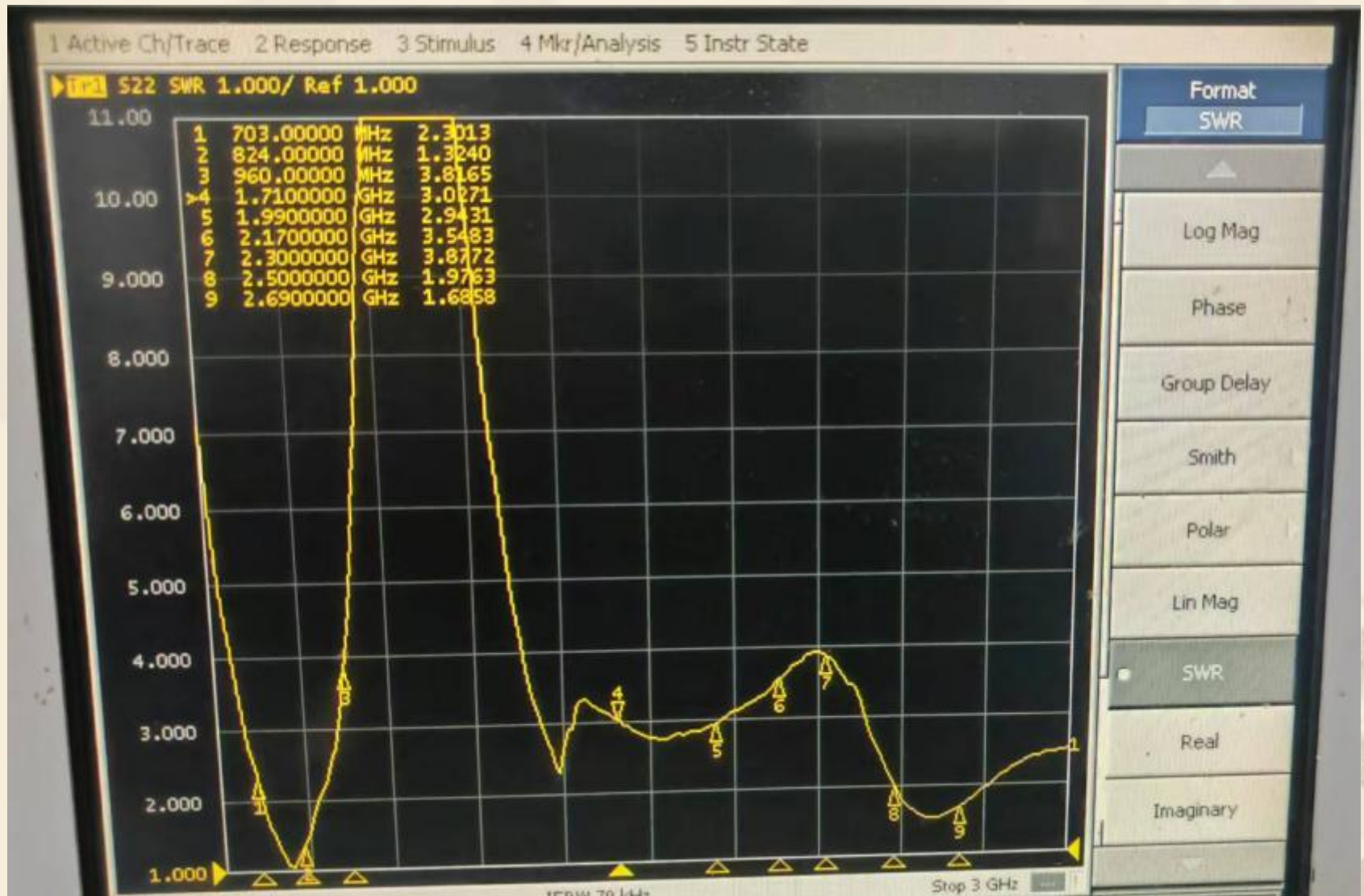
Technology Parameters	
Frequency (MHz)	703~960MHz 1710~2690MHz 1575.42MHz
Peak Gain(dBi)	703~960 MHz:2.35dBi 1710~2690MHz:2.06dBi 1575.42MHz:2.11dBi
Efficiency(%)	703~960 MHz>30% 1710~2690MHz>40% 1575.42MHz>50%
VSWR	703~960 MHz<4.0 1710~2690MHz<4.0 1575.42MHz<2.0
Impedance (Ω)	50 Ω
Antenna Type	LTE-CAT1:Monopole GPS:PATCH
Polarization	LTE-CAT1:Linear GPS:Circular

The matching test value

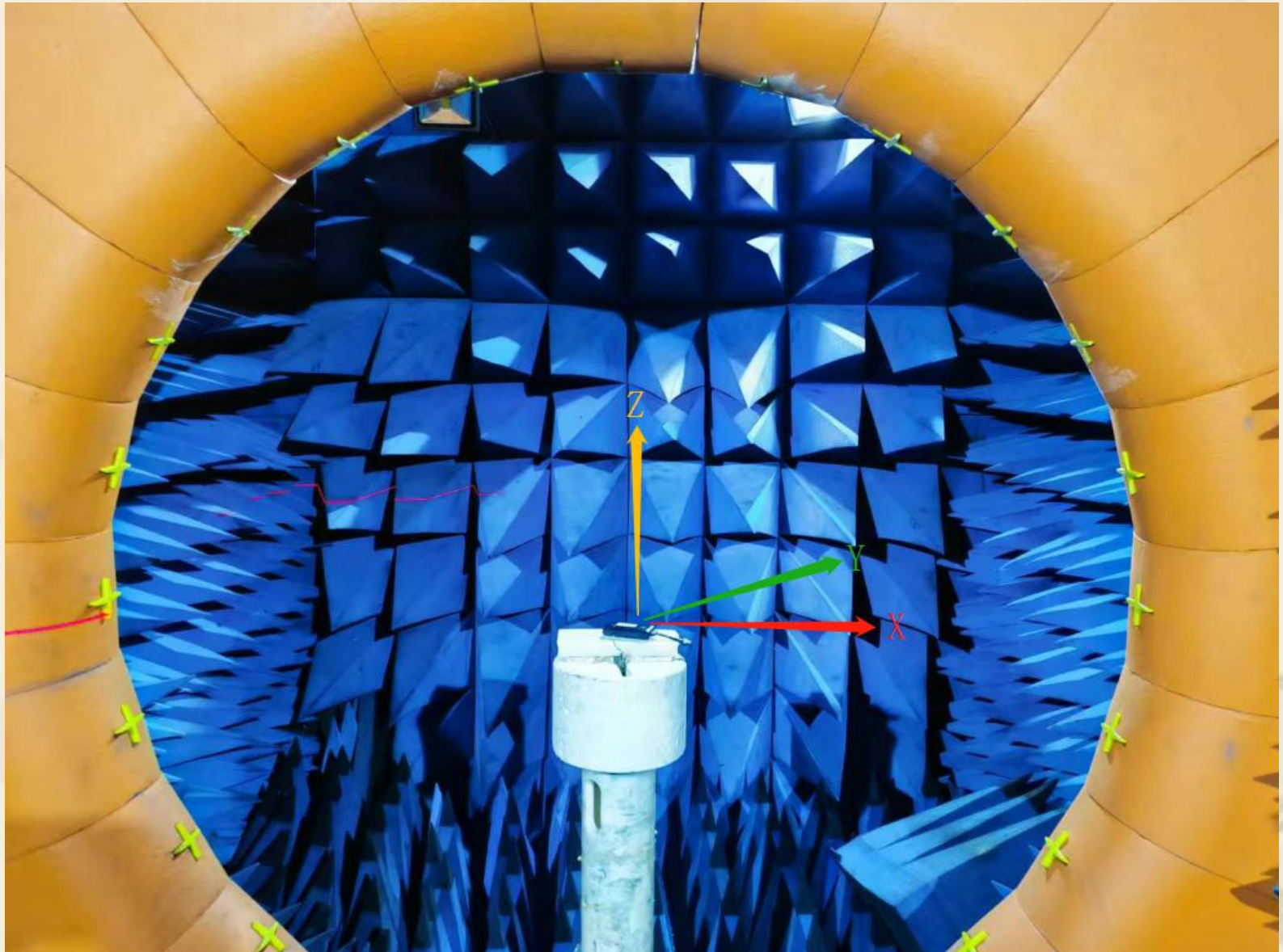


Element	Value
E1(0201)	8. 2nH
E2(0201)	0 Ω
E3(0201	NC
E4(0201)	

LTE-CAT1 Antenna Passive Data(SWR):



Anechoic Chamber Test

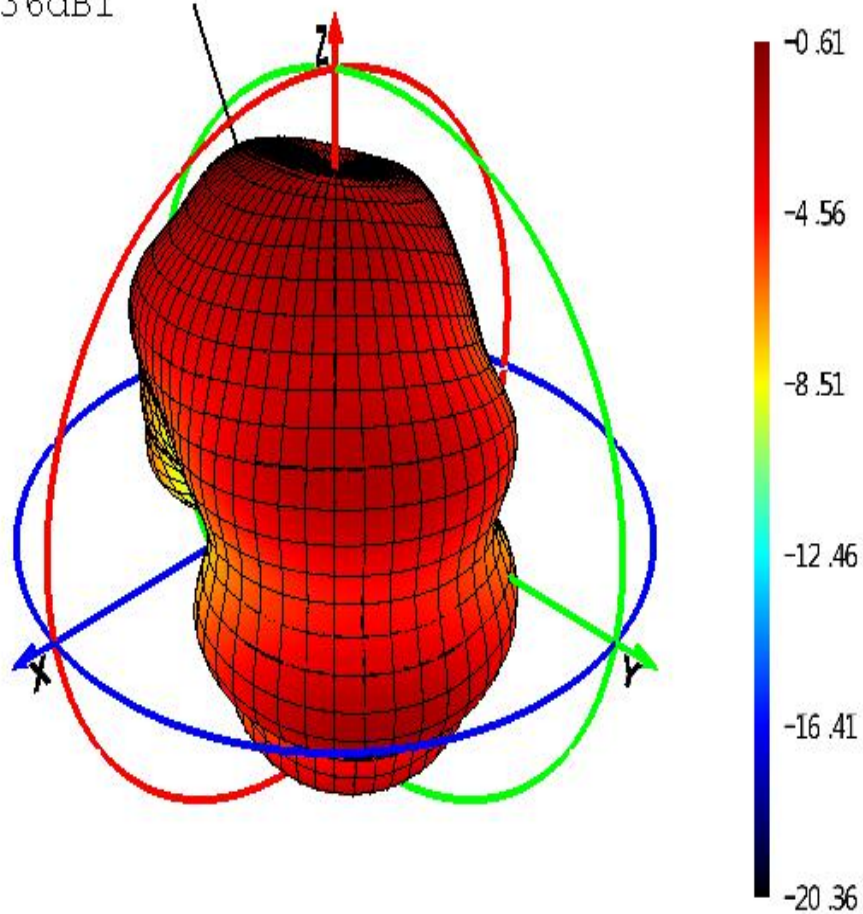


LTE-CAT1 Antenna Gain And Efficiency;

Gain&Efficiency				
Frequency (MHz)	Gain (dBi)	MinGain (dBi)	Efficiency (dB)	Efficiency (%)
700.00	1.32	-22.77	-3.28	47.00
720.00	1.90	-21.25	-2.65	54.32
740.00	-0.18	-20.60	-3.01	50.02
760.00	0.54	-21.26	-2.23	59.90
780.00	-0.16	-24.45	-1.99	63.23
800.00	-1.14	-26.64	-3.22	47.64
820.00	1.30	-24.71	-2.86	51.77
840.00	2.35	-20.05	-1.98	63.33
860.00	0.33	-21.68	-2.94	50.82
880.00	-0.02	-23.11	-3.22	47.63
900.00	-0.61	-20.36	-3.80	41.66
920.00	-0.98	-19.20	-3.90	40.74
940.00	-0.57	-17.78	-4.04	39.48
960.00	-2.02	-16.59	-4.78	33.27
1700.00	0.81	-17.45	-3.49	44.72
1750.00	1.34	-20.76	-3.45	45.19
1800.00	1.93	-24.05	-2.97	50.44
1900.00	1.35	-23.15	-3.58	43.80
2000.00	1.05	-21.32	-3.25	47.32
2100.00	1.20	-18.26	-3.20	47.89
2200.00	1.08	-20.45	-3.62	43.44
2300.00	0.76	-24.78	-3.32	46.55
2400.00	0.14	-29.83	-3.75	42.17
2500.00	1.82	-22.13	-2.27	59.33
2600.00	2.06	-18.16	-2.13	61.28
2700.00	2.03	-31.00	-2.69	53.85

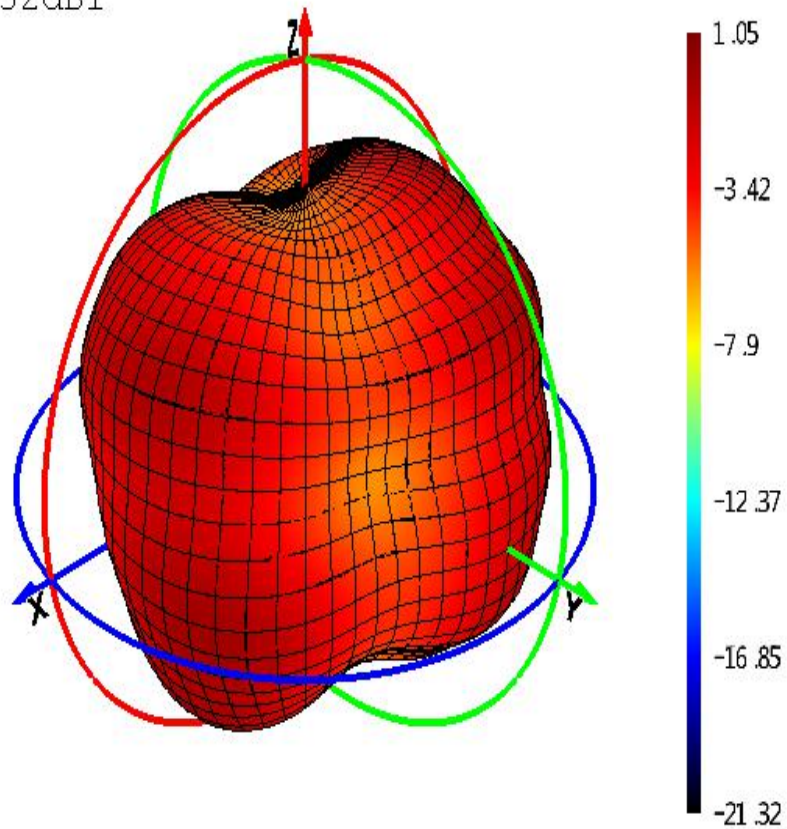
LTE-CAT1 Antenna 3D Pattern(900MHz):

MAX:-0.61dBi
MIN:-20.36dBi



LTE-CAT1 Antenna 3D Pattern(2000MHz):

MAX:1.05dBi
MIN:-21.32dBi



GPS Antenna Passive Data(SWR):

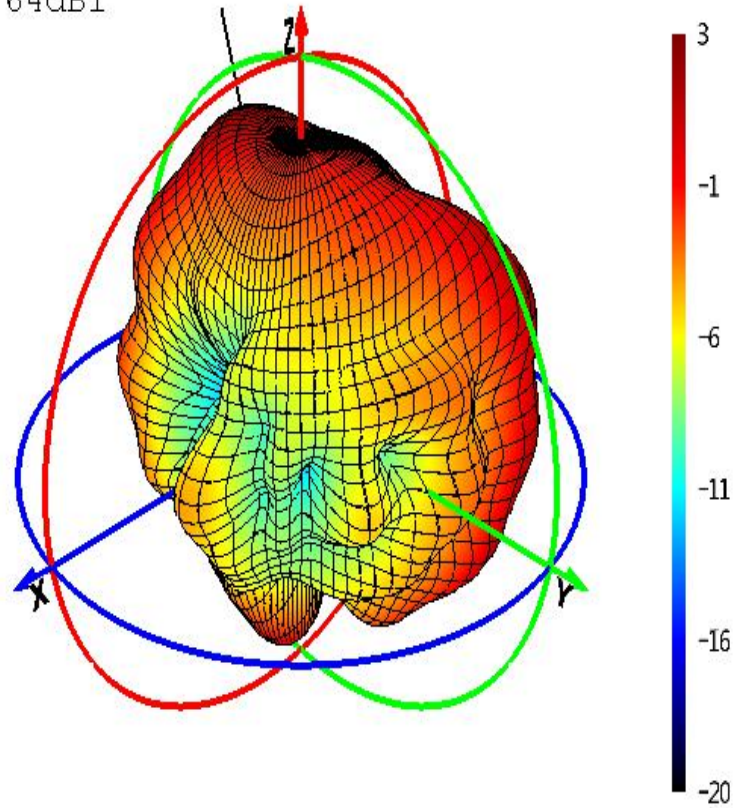


GPS Antenna Gain And Efficiency;

Gain&Efficiency				
Frequency (MHz)	Gain (dBi)	MinGain (dBi)	Efficiency (dB)	Efficiency (%)
1561.00	2.68	-21.14	-2.15	60.94
1570.42	2.91	-20.70	-1.84	65.52
1575.42	2.11	-21.64	-2.63	54.61
1580.42	2.24	-21.90	-2.44	57.02

GPS Antenna 3D Pattern(1575.42MHz):

MAX:2.11dBi
MIN:-21.64dBi





Thanks for your support.

DWM Communication Equipment co.,ltd

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