

antenna SPECIFICATION

Product description: 2.4G PCB Antenna

Uni Link's part number: ANTENNA-2400

Issue Date: 2022-12-09

Note: 2400-2500MHZ

Manufacturer: Shenzhen Sonoff Technologies Co.,Ltd.

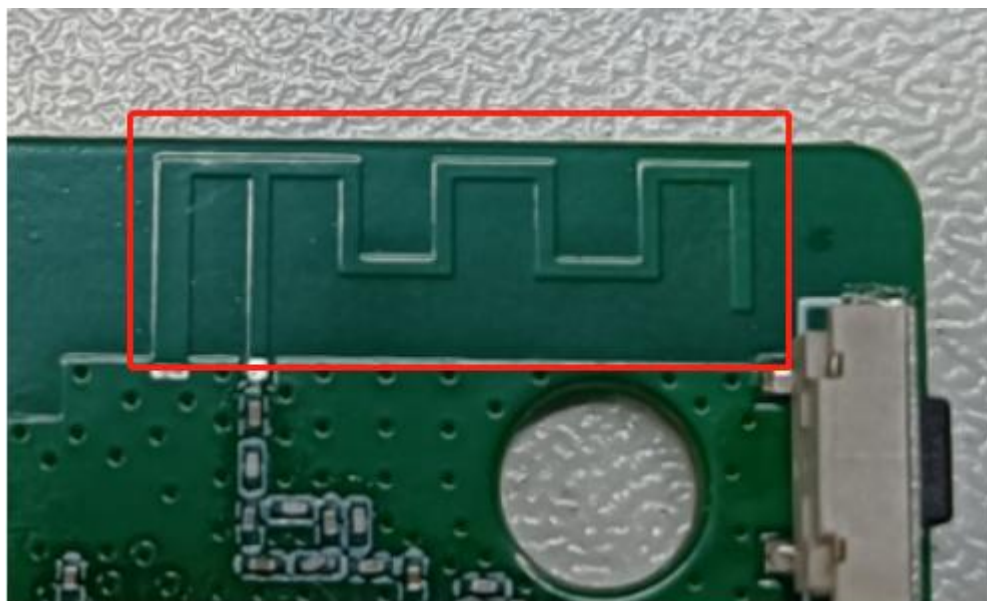
Address: 3F & 6F, Bldg A, No. 663, Bulong Rd, Shenzhen, Guangdong,
China

1、（PRODUCT TECHNICAL SPECIFICATION）

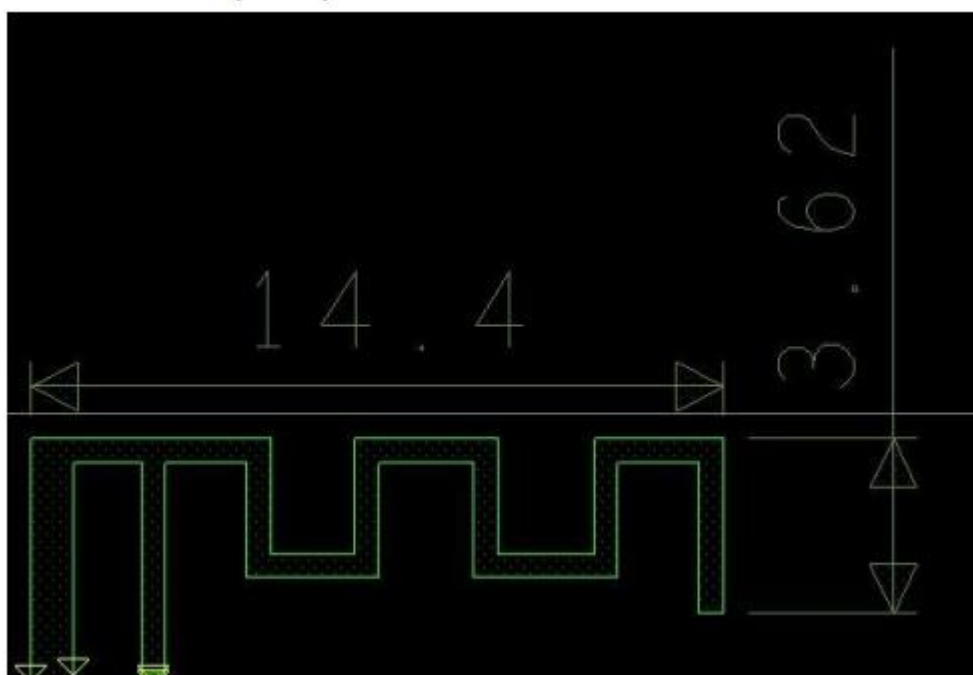
Electrical Specifications	
Frequency Range (MHz)	2400-2500
Input Impedence (Ω)	50
V.S.W.R	≤ 1.5
Gain (dBi)	-1.04
Polarization Type	Horizontal
Power Capacity (w)	2
Mechanical Specifications	
Antenna Length (mm)	14.4mm
Radiator	Cuprum
Connect Type	PCB

Working Temp(°C)	-10~40
Storage Temperature(°C)	-20~55
antenna size	14.4mm x 4.91mm x 0.1mm

2、PRODUCT PICTURE



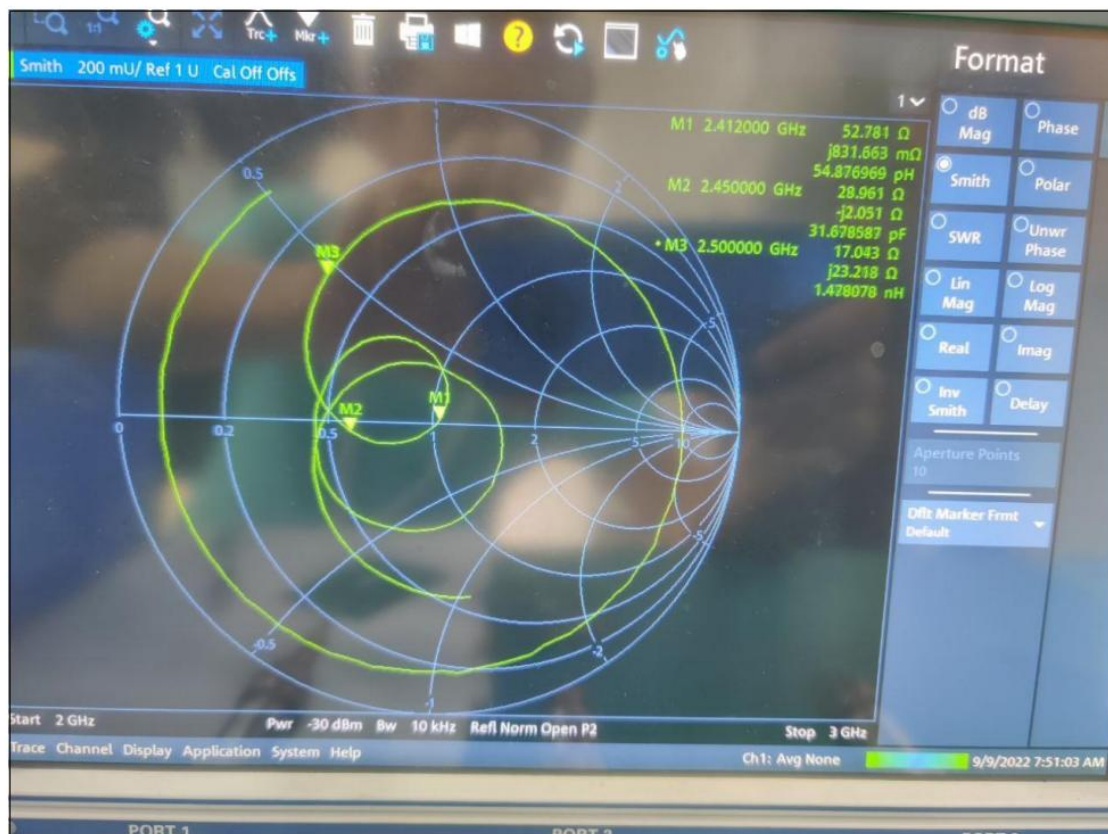
3、PRODUCT SPECIFICATION CHART

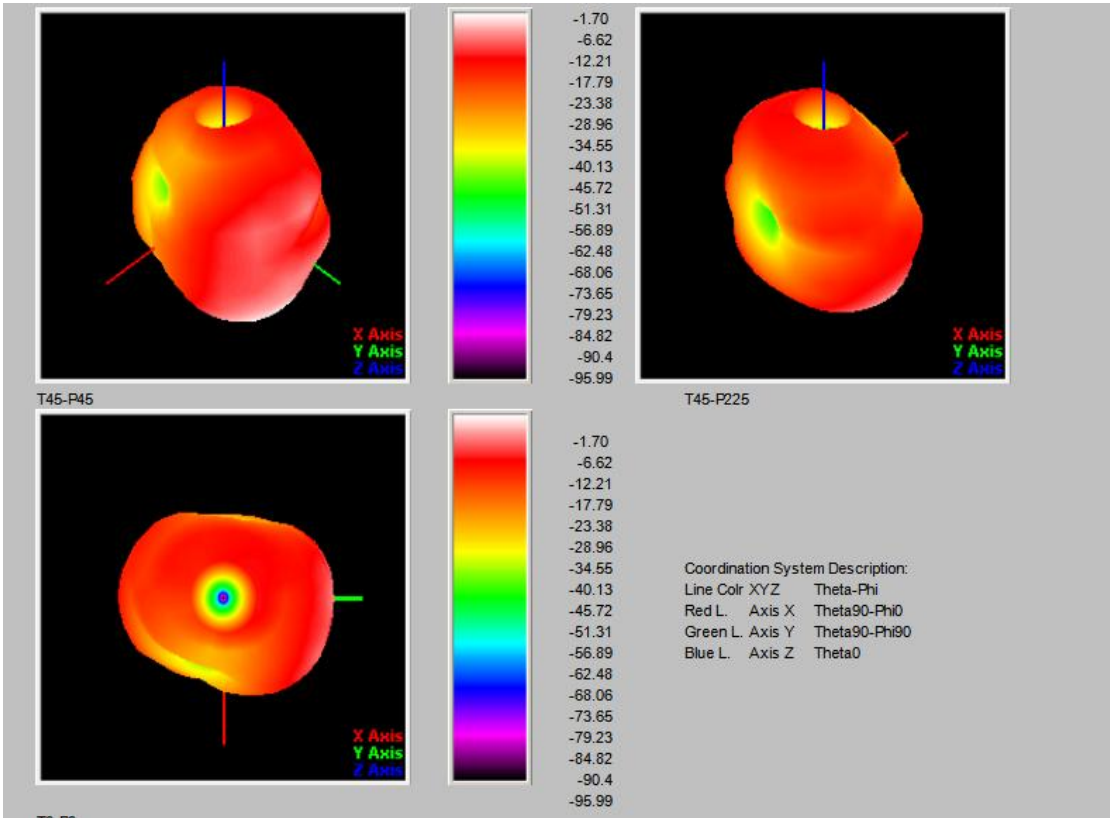
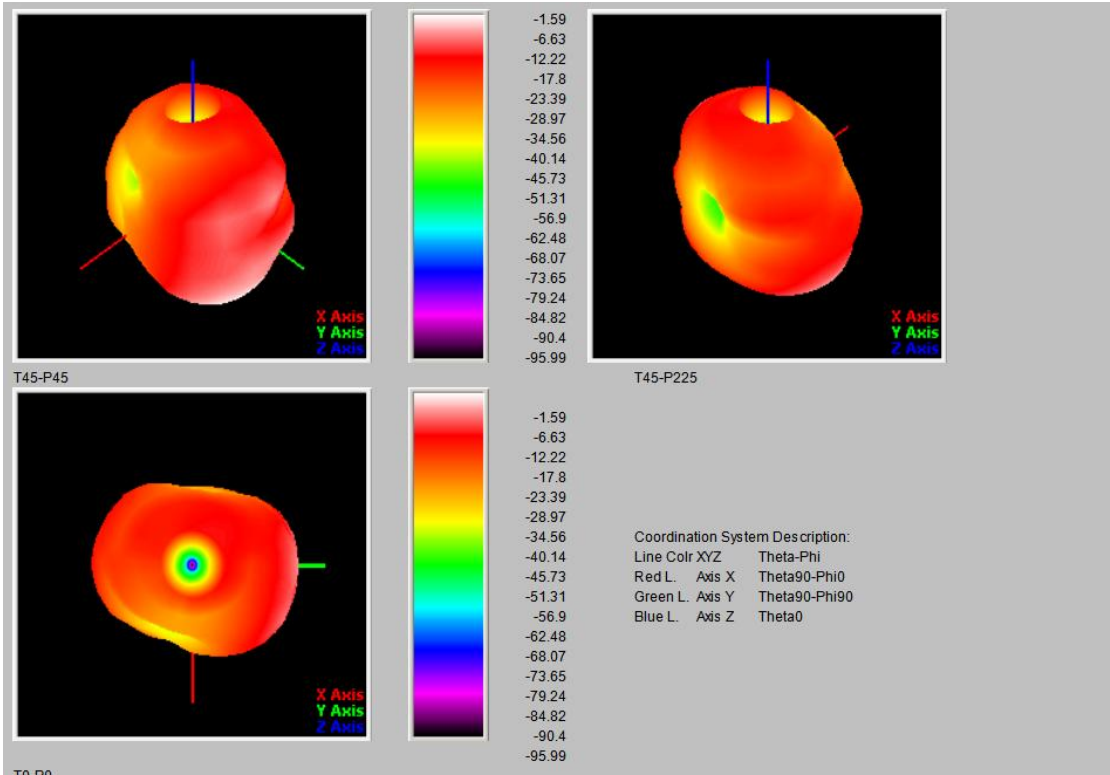


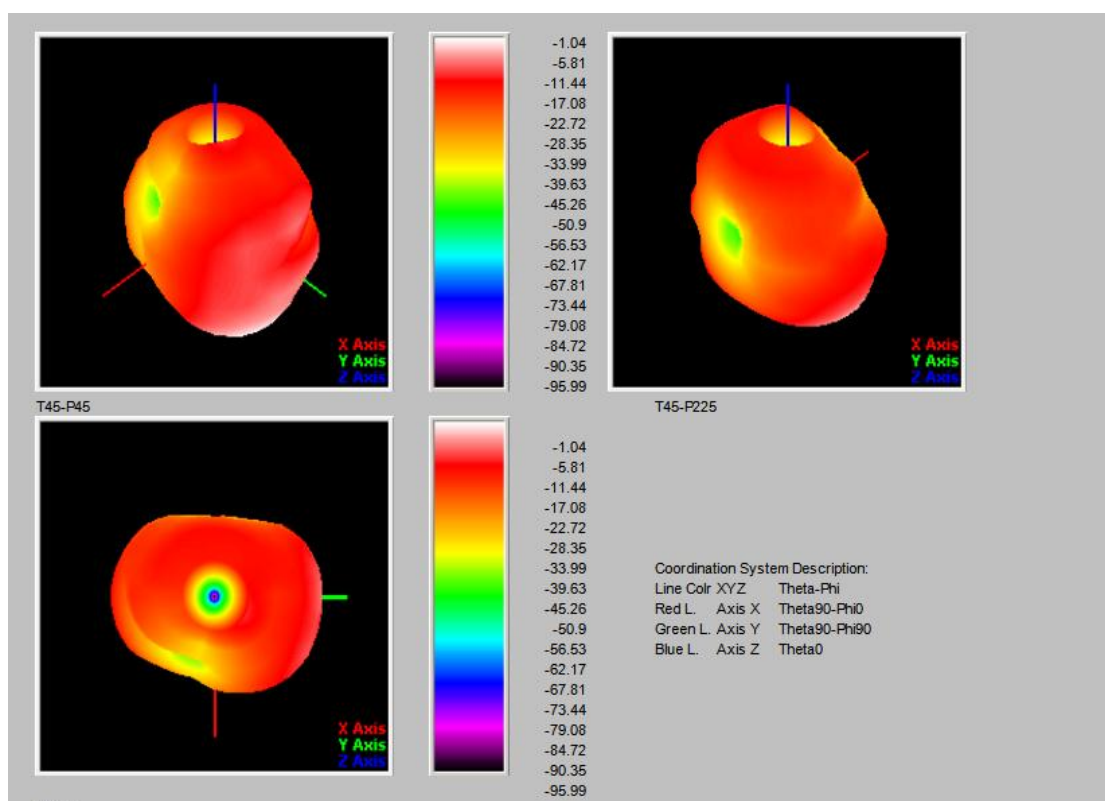
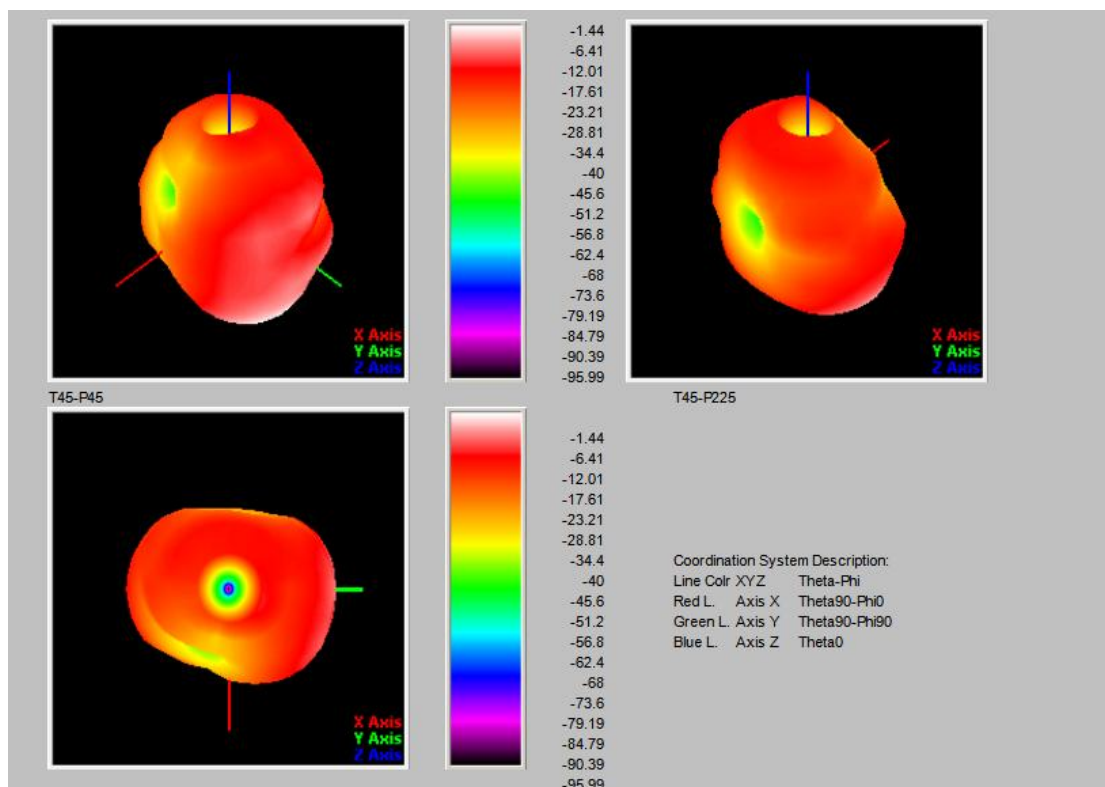
4、Antenna Gain

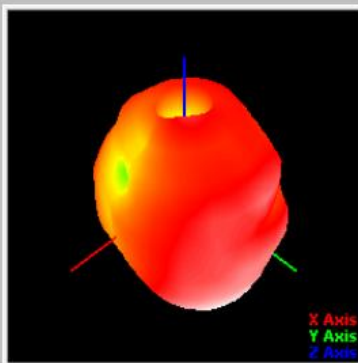
FETUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-6.67	-6.88	-6.78	-6.49	-7.18	-7.20	-7.18	-7.21	-7.13	-7.90	-7.87
Peak EIRP (dBm)	-1.59	-1.70	-1.44	-1.04	-1.84	-1.85	-1.89	-2.20	-2.49	-3.42	-3.46
Directivity (dBi)	5.08	5.18	5.34	5.45	5.34	5.35	5.28	5.01	4.64	4.48	4.41
Efficiency (dB)	-6.67	-6.88	-6.78	-6.49	-7.18	-7.20	-7.18	-7.21	-7.13	-7.90	-7.87
Efficiency (%)	21.50	20.50	21.00	22.40	19.10	19.00	19.20	19.00	19.40	16.20	16.30
Gain (dBi)	-1.59	-1.70	-1.44	-1.04	-1.84	-1.85	-1.89	-2.20	-2.49	-3.42	-3.46
NHPRP $\pm$ Pi/4 (dBm)	-7.53	-7.53	-7.18	-6.76	-7.53	-7.58	-7.58	-7.84	-8.15	-9.00	-9.04
NHPRP $\pm$ Pi/6 (dBm)	-9.03	-9.04	-8.70	-8.29	-9.06	-9.11	-9.12	-9.38	-9.68	-10.54	-10.60
NHPRP $\pm$ Pi/8 (dBm)	-10.18	-10.19	-9.85	-9.43	-10.21	-10.25	-10.26	-10.53	-10.83	-11.71	-11.78
Upper Hem. PRP (dBm)	-9.99	-10.15	-9.98	-9.65	-10.30	-10.31	-10.26	-10.27	-10.17	-10.90	-10.84
Lower Hem. PRP (dBm)	-9.39	-9.65	-9.60	-9.36	-10.08	-10.13	-10.11	-10.17	-10.12	-10.92	-10.93
Upper Hem. PRP (%)	10.01	9.67	10.04	10.84	9.33	9.32	9.42	9.39	9.63	8.14	8.24
Lower Hem. PRP (%)	11.51	10.83	10.97	11.59	9.82	9.72	9.74	9.63	9.73	8.10	8.07

5、Image of antenna field shape test





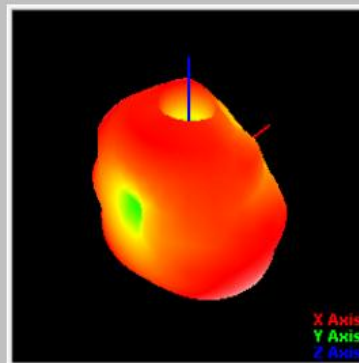




T45-P45

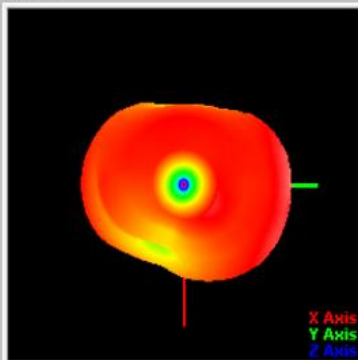


-1.84
-6.25
-11.85
-17.46
-23.07
-28.68
-34.29
-39.9
-45.51
-51.12
-56.73
-62.34
-67.94
-73.55
-79.16
-84.77
-90.38
-95.99

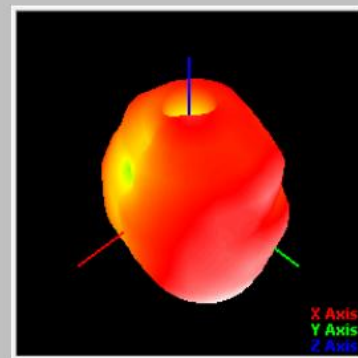


T45-P225

Coordination System Description:
Line Colr XYZ Theta-Phi
Red L. Axis X Theta90-Phi0
Green L. Axis Y Theta90-Phi90
Blue L. Axis Z Theta0



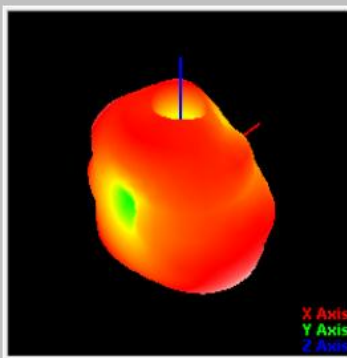
-1.84
-6.25
-11.85
-17.46
-23.07
-28.68
-34.29
-39.9
-45.51
-51.12
-56.73
-62.34
-67.94
-73.55
-79.16
-84.77
-90.38
-95.99



T45-P45

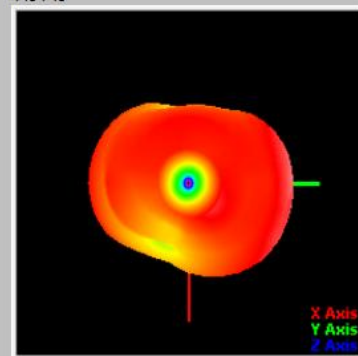


-1.85
-6.5
-12.09
-17.68
-23.28
-28.87
-34.46
-40.06
-45.65
-51.24
-56.84
-62.43
-68.02
-73.62
-79.21
-84.8
-90.4
-95.99

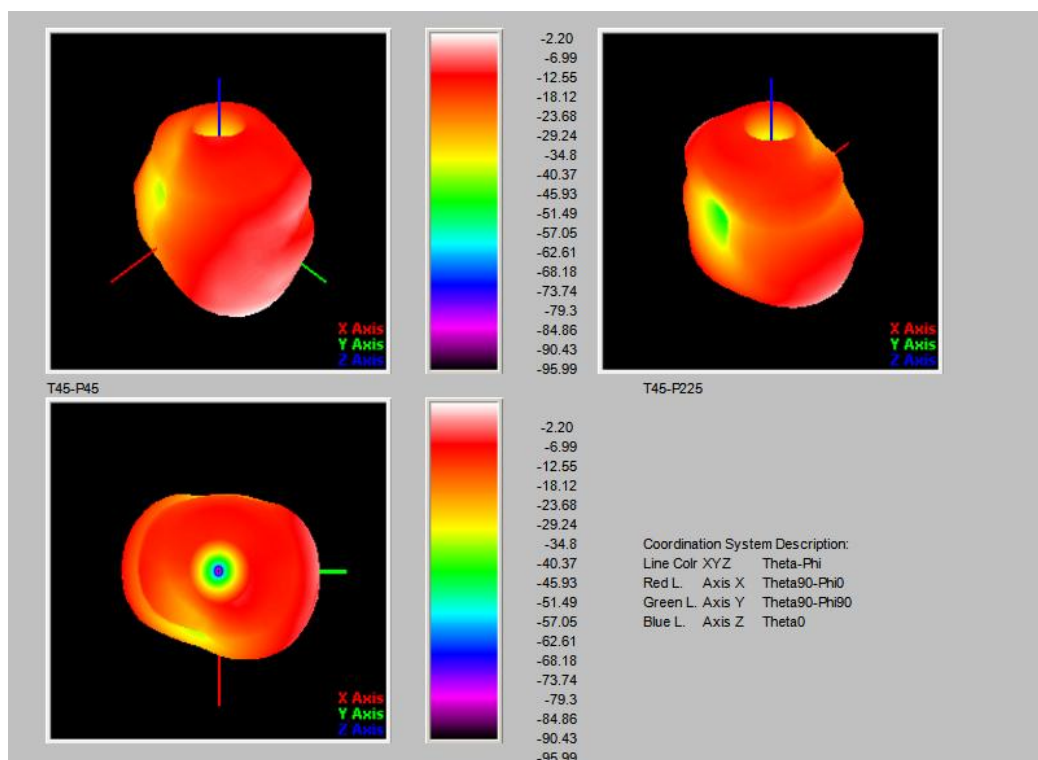
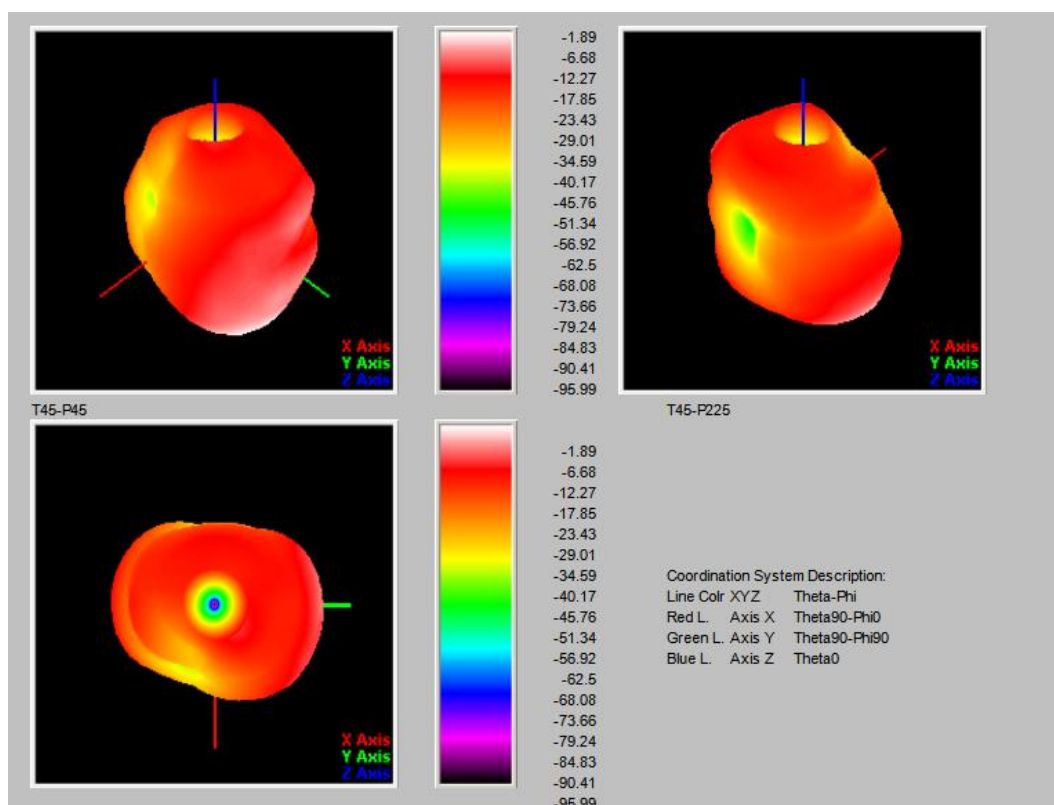


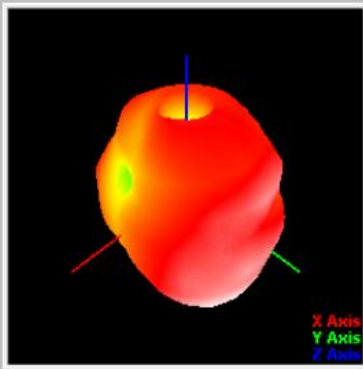
T45-P225

Coordination System Description:
Line Colr XYZ Theta-Phi
Red L. Axis X Theta90-Phi0
Green L. Axis Y Theta90-Phi90
Blue L. Axis Z Theta0

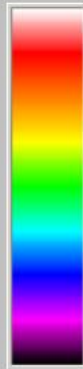


-1.85
-6.5
-12.09
-17.68
-23.28
-28.87
-34.46
-40.06
-45.65
-51.24
-56.84
-62.43
-68.02
-73.62
-79.21
-84.8
-90.4
-95.99

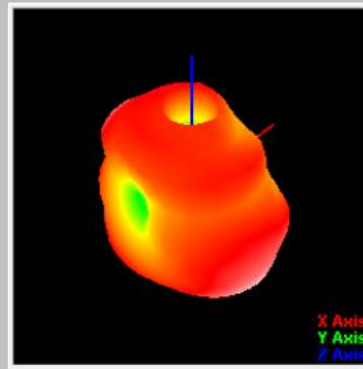




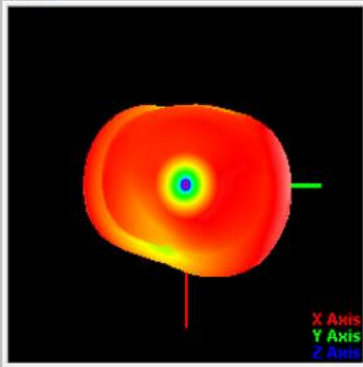
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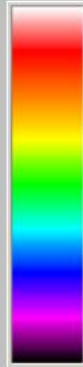
-2.49
-7.39
-12.92
-18.46
-24
-29.54
-35.07
-40.61
-46.15
-51.69
-57.23
-62.76
-68.3
-73.84
-79.38
-84.91
-90.45
-95.99



T45-P225

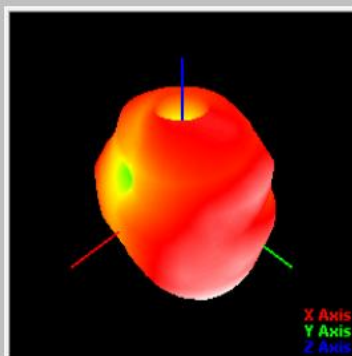


T45-P



-2.49
-7.39
-12.92
-18.46
-24
-29.54
-35.07
-40.61
-46.15
-51.69
-57.23
-62.76
-68.3
-73.84
-79.38
-84.91
-90.45
-95.99

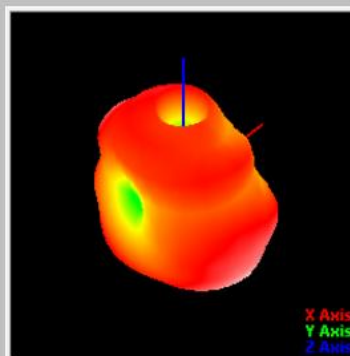
Coordination System Description:
Line Color XYZ Theta-Phi
Red L. Axis X Theta90-Phi0
Green L. Axis Y Theta90-Phi90
Blue L. Axis Z Theta0



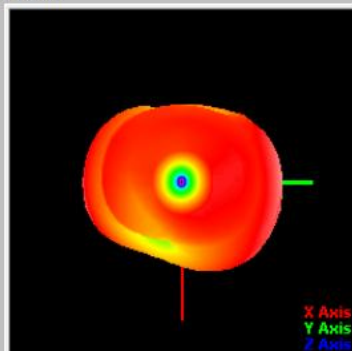
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-3.42
-7.78
-13.29
-18.81
-24.32
-29.83
-35.35
-40.86
-46.37
-51.89
-57.4
-62.91
-68.42
-73.94
-79.45
-84.96
-90.48
-95.99

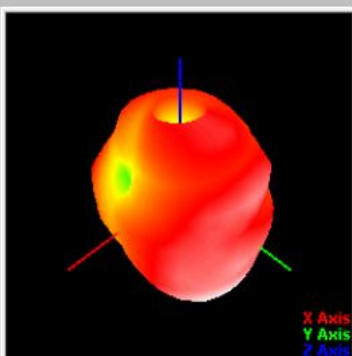


T45-P225



-3.42
-7.78
-13.29
-18.81
-24.32
-29.83
-35.35
-40.86
-46.37
-51.89
-57.4
-62.91
-68.42
-73.94
-79.45
-84.96
-90.48
-95.99

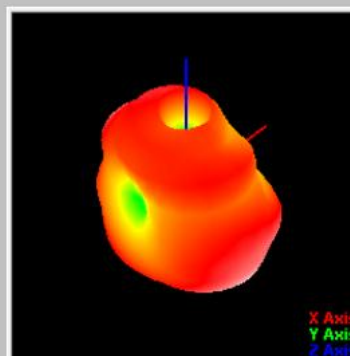
Coordination System Description:
Line Colr XYZ Theta-Phi
Red L. Axis X Theta90-Phi0
Green L. Axis Y Theta90-Phi90
Blue L. Axis Z Theta0



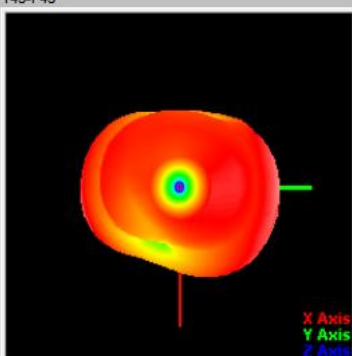
T45-P45



-3.46
-8.09
-13.58
-19.08
-24.57
-30.06
-35.56
-41.05
-46.54
-52.04
-57.53
-63.03
-68.52
-74.01
-79.51
-85
-90.5
-95.99



T45-P225



-3.46
-8.09
-13.58
-19.08
-24.57
-30.06
-35.56
-41.05
-46.54
-52.04
-57.53
-63.03
-68.52
-74.01
-79.51
-85
-90.5
-95.99

Coordination System Description:
Line Colr XYZ Theta-Phi
Red L. Axis X Theta90-Phi0
Green L. Axis Y Theta90-Phi90
Blue L. Axis Z Theta0