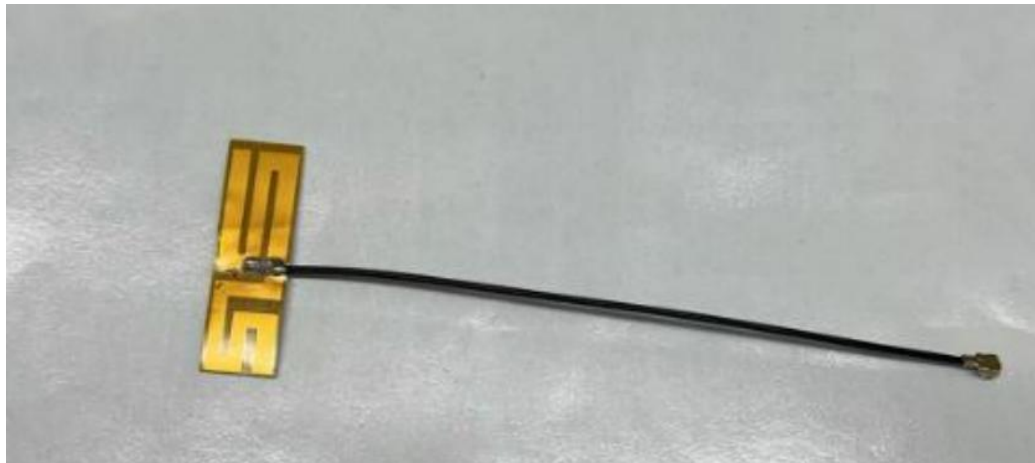
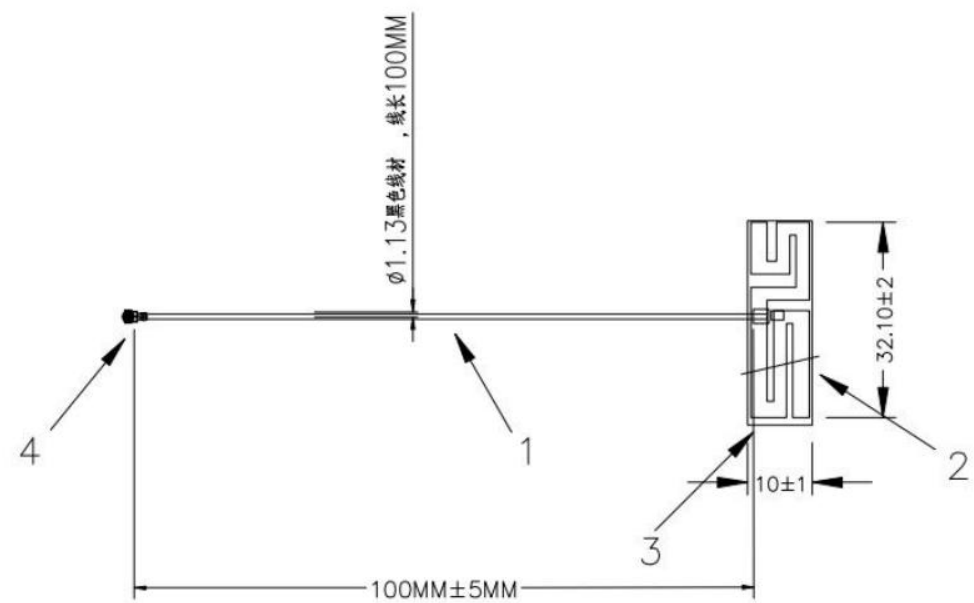


Antenna Specification

Product	:	2.4G/5.8G FPC ANT
Model Name	:	GDT-DX-500
Manufacture	:	Shenzhen Guandetong Electronic Co., Ltd.
Address	:	3rd Floor, Building D, Huan Guan Nan Maoyuan Industrial Park, Guanhu Subdistrict, Longhua District, Shenzhen
Test Item	:	Antenna gain; Radiation pattern and efficiency
Antenna Type	:	FPC Antenna
Frequency Range	:	2400MHz-2500MHz, 5150-5800MHz





Test Data

Serial Number	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
Efficiency (dBi)	-2.08	-2.09	-2.20	-1.99	-2.01	-2.14	-2.29	-2.30	-1.98	-2.07	-2.55
Gain (dBi)	1.85	1.88	1.72	1.91	1.89	1.80	1.67	1.72	2.12	2.02	1.48
Efficiency (%)	61.99	61.82	60.25	63.29	62.97	61.09	59.05	58.90	63.38	62.12	55.61
Directivity (dB)	3.93	3.97	3.92	3.89	3.90	3.94	3.95	4.02	4.10	4.09	4.03
Maximum Gain Position (theta)	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
Maximum Gain Position (Phi)	60.00	60.00	60.00	60.00	60.00	60.00	45.00	45.00	45.00	45.00	45.00
Horizontal Polarization Efficiency (%)	38.55	41.75	40.08	39.62	42.46	39.05	37.57	39.65	40.35	40.04	36.79
Vertical Polarization Efficiency (%)	23.44	20.08	20.17	23.67	20.51	22.05	21.49	19.24	23.03	22.08	18.82

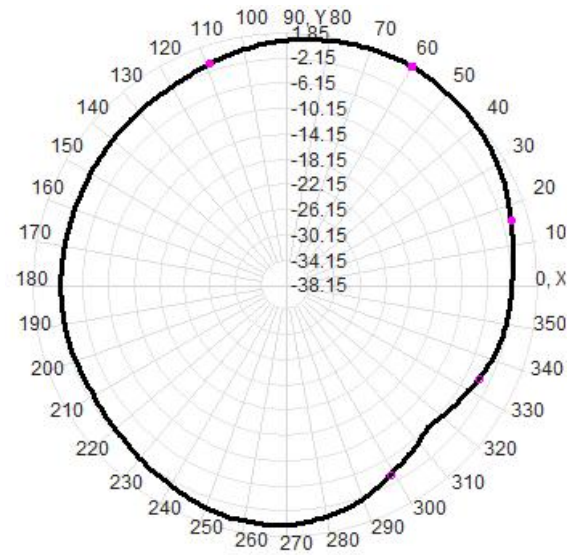
Upper hemisphere efficiency (%)	37.59	37.90	37.03	38.75	38.62	37.19	35.85	35.87	38.58	37.85	33.84
Lower hemisphere efficiency (%)	24.40	23.92	23.22	24.53	24.34	23.90	23.20	23.03	24.79	24.27	21.76

Serial Number	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0
Efficiency (dBi)	-1.07	-1.17	-1.39	-1.18	-0.69	-0.92	-1.04	-0.51	-0.55	-0.69	-0.62	-0.13	-0.95	-0.81
Gain (dBi)	3.01	3.01	2.32	2.79	3.43	3.30	3.10	3.71	4.10	3.88	4.21	4.35	3.69	4.38
Efficiency (%)	78.22	76.32	72.68	76.19	85.41	80.87	78.74	88.85	88.14	85.29	86.70	96.99	80.44	83.05
Directivity (dB)	4.07	4.19	3.71	3.97	4.11	4.22	4.13	4.23	4.65	4.57	4.83	4.48	4.63	5.18

Maximum Gain Position (theta)	45.00	45.00	45.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00
Maximum Gain Position (Phi)	165.00	165.00	165.00	210.00	210.00	210.00	195.00	195.00	195.00	195.00	195.00	210.00	210.00	210.00
Horizontal Polarization Efficiency (%)	40.71	41.68	40.52	39.95	43.00	40.67	39.25	43.50	43.23	42.98	44.15	48.91	41.63	42.45
Vertical Polarization Efficiency (%)	37.51	34.64	32.16	36.24	42.40	40.19	39.49	45.35	44.91	42.31	42.55	48.09	38.81	40.60
Upper hemisphere efficiency (%)	49.53	49.93	48.42	50.99	56.09	51.49	48.31	53.47	51.74	48.91	49.46	54.61	44.71	44.86
Lower hemisphere efficiency (%)	28.69	26.39	24.25	25.21	29.31	29.38	30.43	35.38	36.40	36.38	37.24	42.39	35.73	38.19

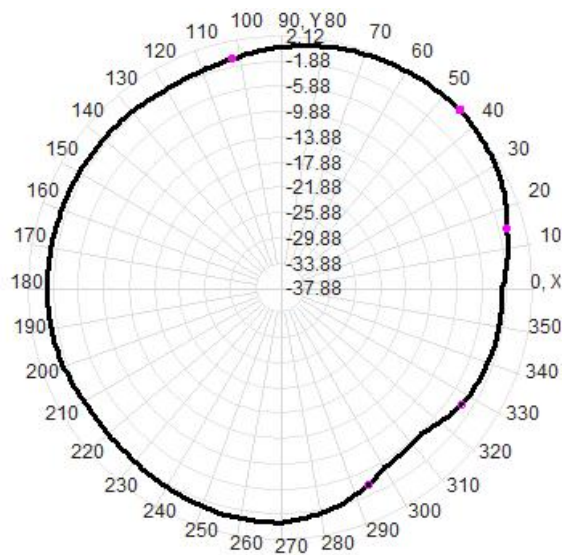
(1) X-Z Plane:

V Phi=0



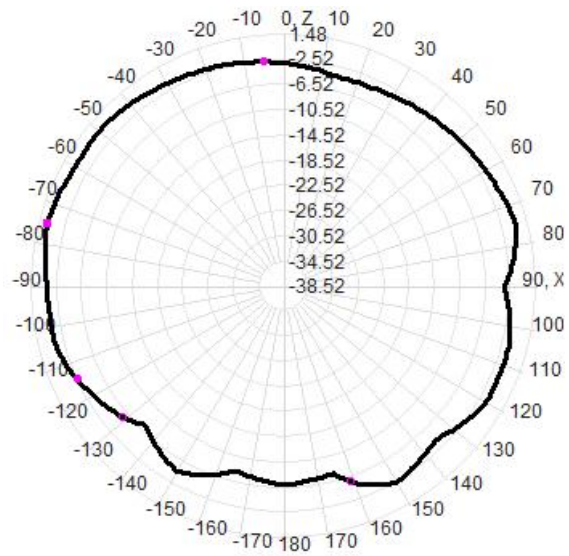
(2) Y-Z Plane:

V Phi=90

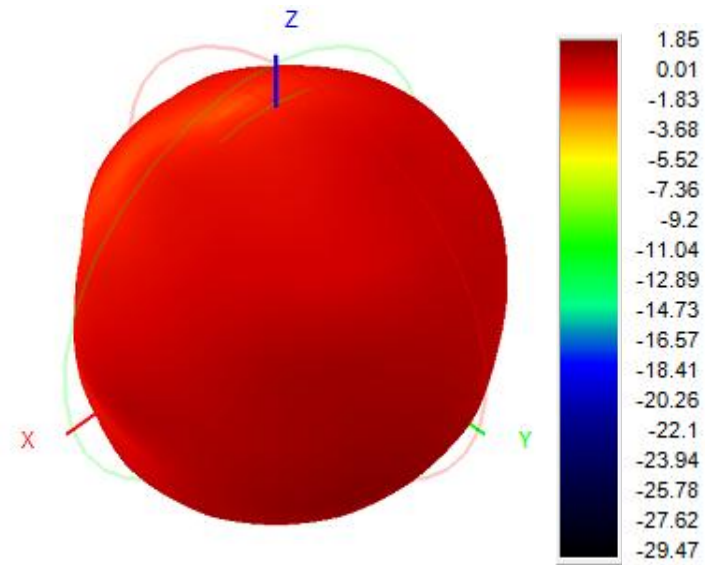


(3)X-Y Plane:

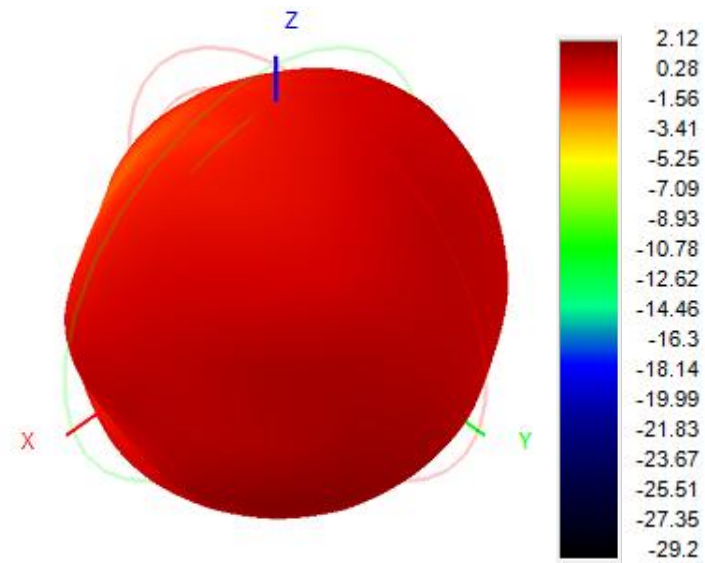
H Theta=90



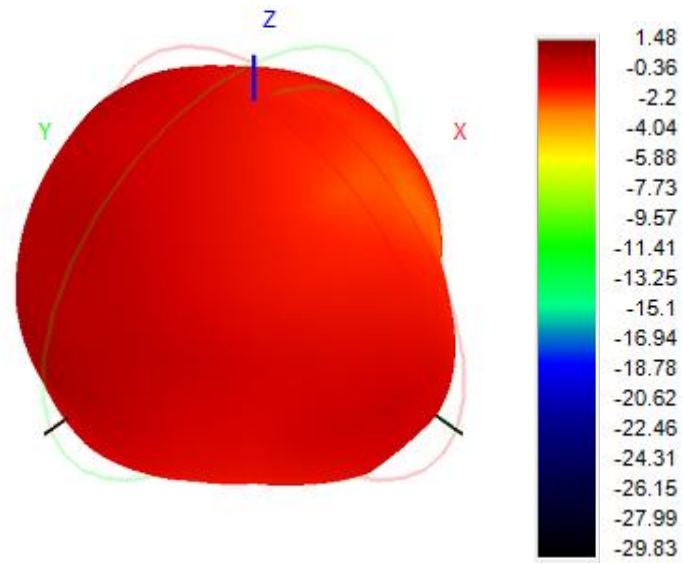
3D Pattern for 2400MHz



3D Pattern for 2480MHz

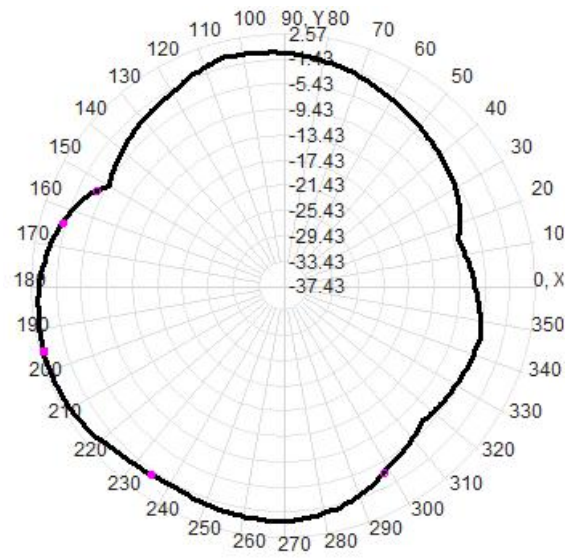


3D Pattern for 2500MHz



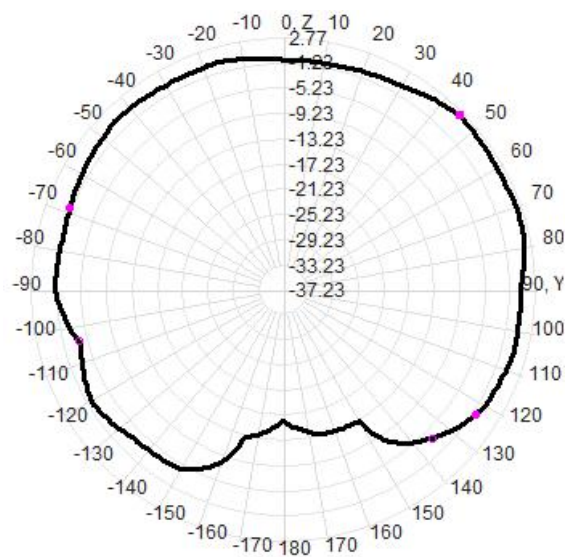
(1) X-Z Plane:

V Phi=0



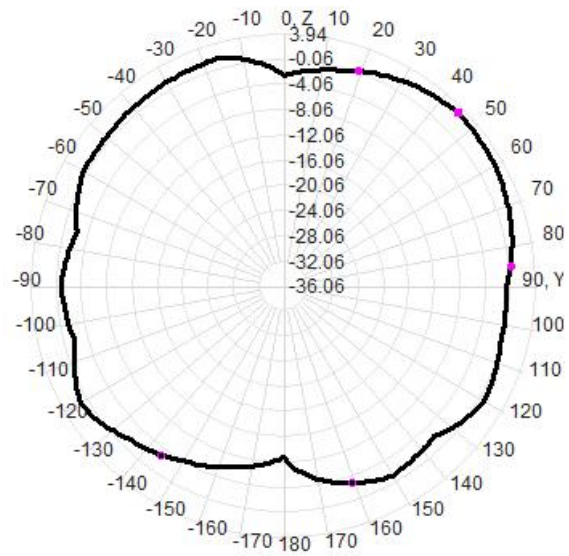
(2) Y-Z Plane:

V Phi=90

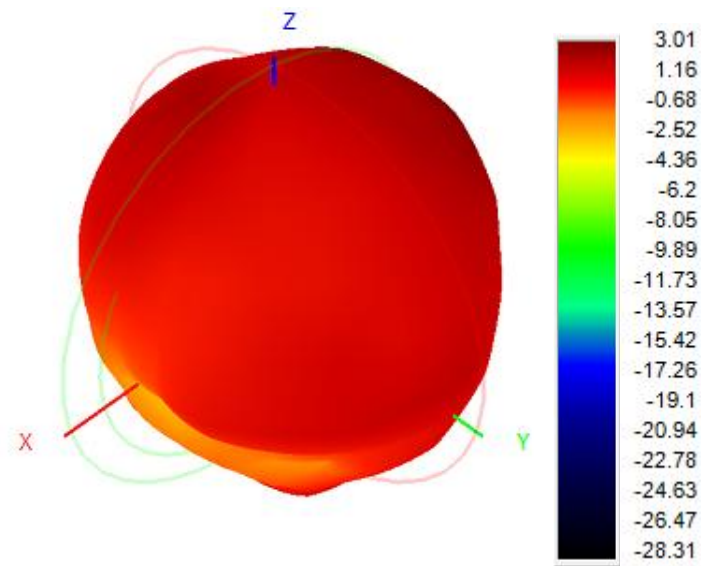


(3)X-Y Plane:

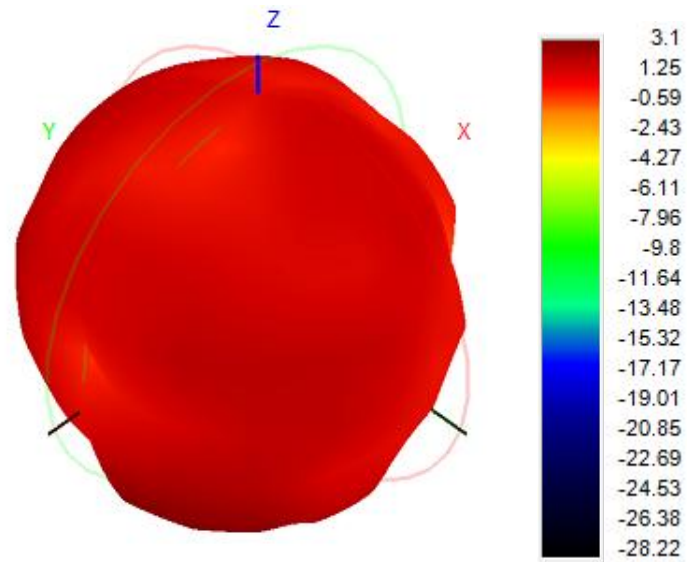
H Theta=90



3D Pattern for 5150MHz



3D Pattern for 5450MHz



3D Pattern for 58000MHz

