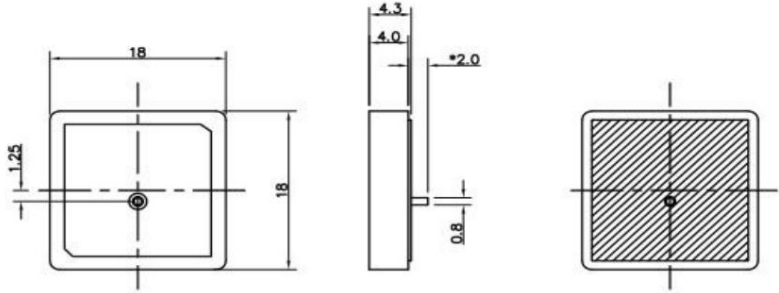
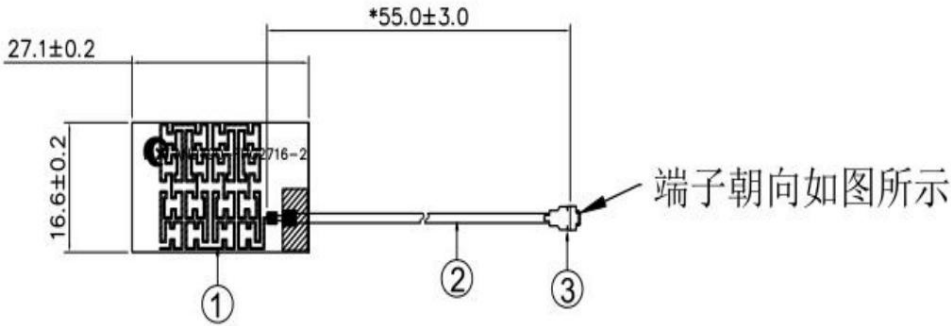
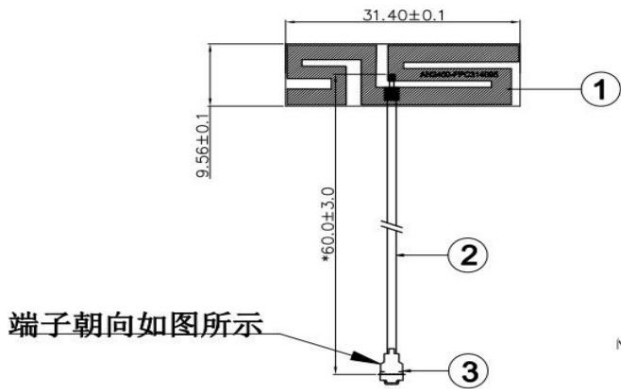
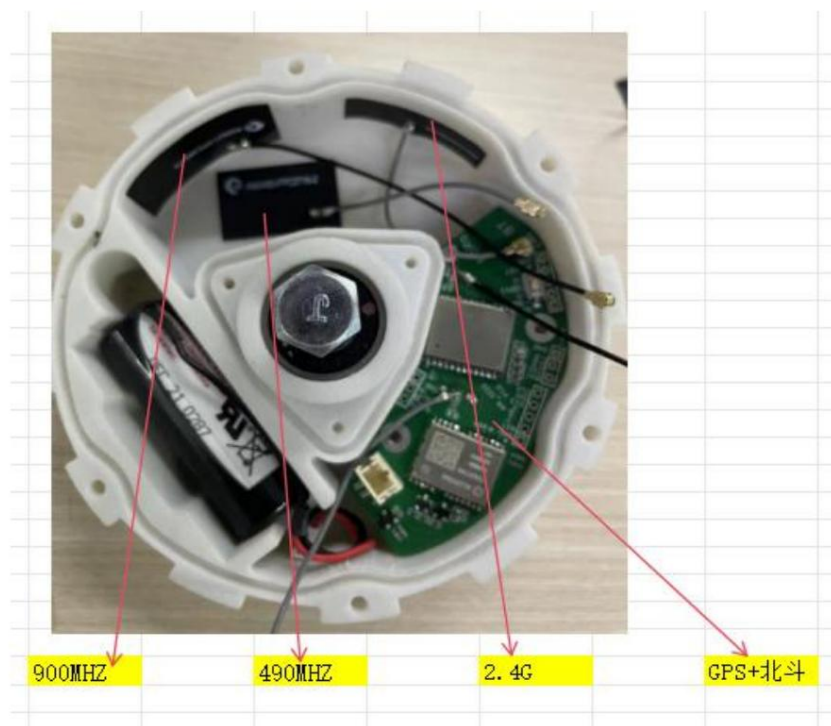
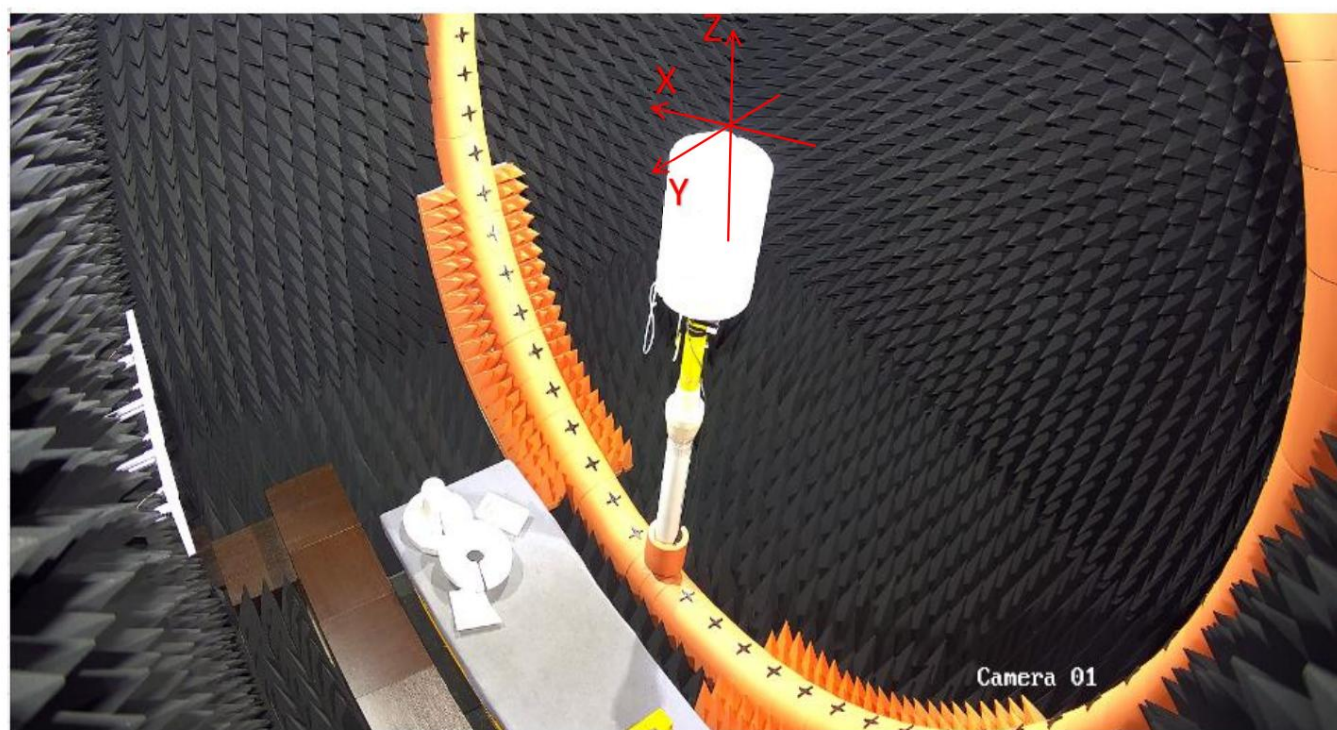


GPS+LORA+antenna report

GPS Antenna	Antenna Type: Ceramic Antenna Model: AG1575-0602
LORA antenna	Antenna type: FPC Antenna model: AN0490-FPC06GX
BT antenna	Antenna type: FPC Antenna model: AN2400-FPC373GX
GPS Antenna	 Technical drawing of a GPS Ceramic Antenna showing three views: top, side, and bottom. The top view is a square with dimensions 18x18 and a central mounting hole with a diameter of 1.25. The side view shows a thickness of 4.3, a mounting flange of 4.0, and a base of 0.8. The bottom view shows a square with a diagonal cross-hatch pattern. A dimension of 2.0 is indicated for the mounting flange.
LORA Antenna	 Technical drawing of a LORA FPC Antenna showing dimensions and terminal orientation. The drawing includes a top view of the antenna element with dimensions 27.1±0.2, 16.6±0.2, and 55.0±3.0. A label "2716-2" is present. The drawing also shows a side view of the antenna element and a terminal connector. The terminal connector is labeled "端子朝向如图所示" (Terminal orientation as shown in the figure).
BT Antenna Diagram	 Technical drawing of a BT FPC Antenna showing dimensions and terminal orientation. The drawing includes a top view of the antenna element with dimensions 31.40±0.1, 9.56±0.1, and 60.0±3.0. A label "AN2400-FPC373GX" is present. The drawing also shows a side view of the antenna element and a terminal connector. The terminal connector is labeled "端子朝向如图所示" (Terminal orientation as shown in the figure).
Manufacturer	Tengxiang Technology.Inc NO.53 Shatou ShaChong Road, ChangAn Town, Guangdong province, China



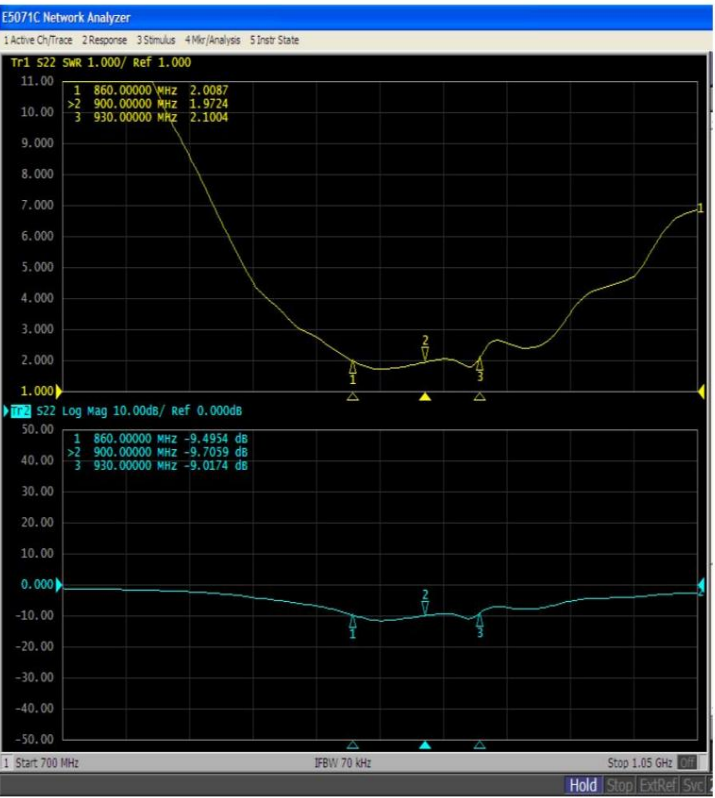
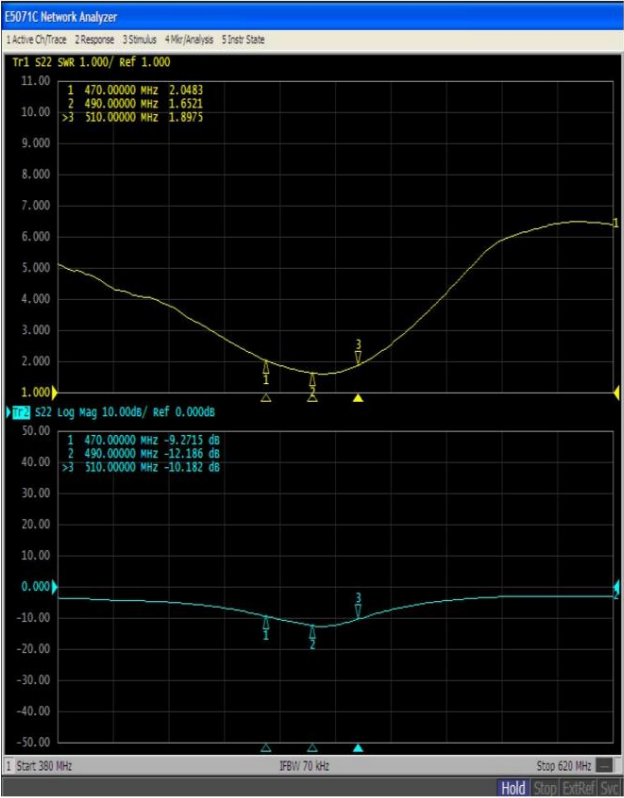
1. Test pictures



2.VSWR test

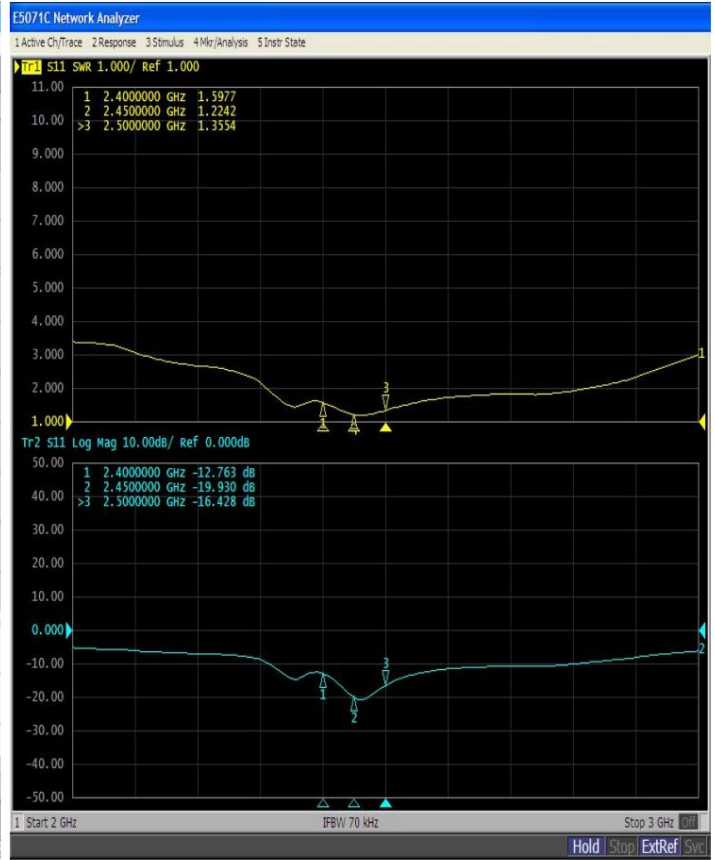
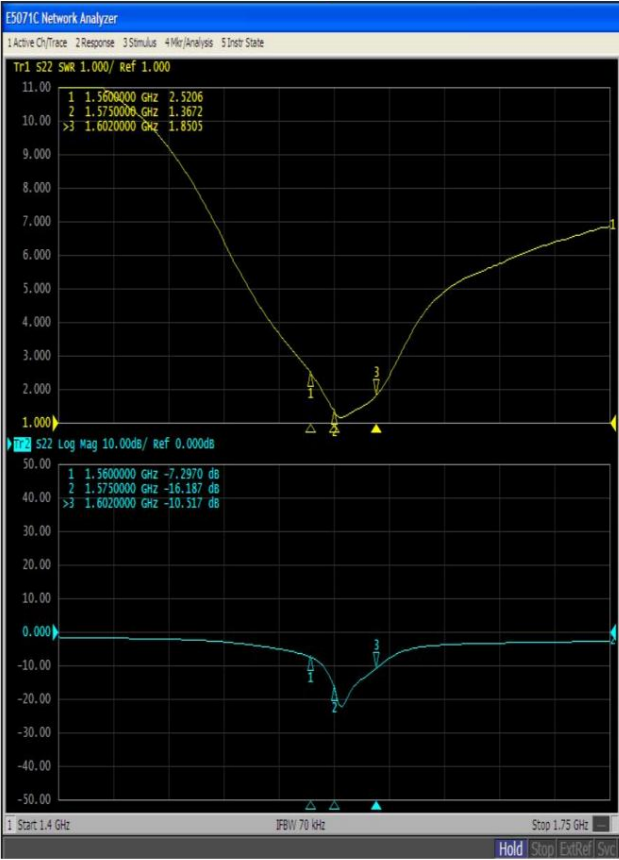
490MHZ

900MHZ



GPS

2.4G



3. PeakGain(dBi)&Efficiency(%)

490MHZ

Frequency ID	1	2	3	4	5	6	7	8	9
Frequency (MHz)	470.0	475.0	480.0	485.0	490.0	495.0	500.0	505.0	510.0
Gain (dBi)	1.07	1.15	1.21	1.35	1.42	1.33	1.24	1.19	1.02
Efficiency (%)	28.96	29.45	30.04	31.11	32.25	33.63	32.56	32.47	31.01

900MHZ

Frequency ID	1	2	3	4	5	6	7	8
Frequency (MHz)	860.0	870.0	880.0	890.0	900.0	910.0	920.0	930.0
Gain (dBi)	0.87	0.92	1.08	1.59	1.75	1.57	1.49	1.29
Efficiency (%)	31.06	30.33	30.95	31.33	30.32	29.48	28.52	28.05

GPS Antenna

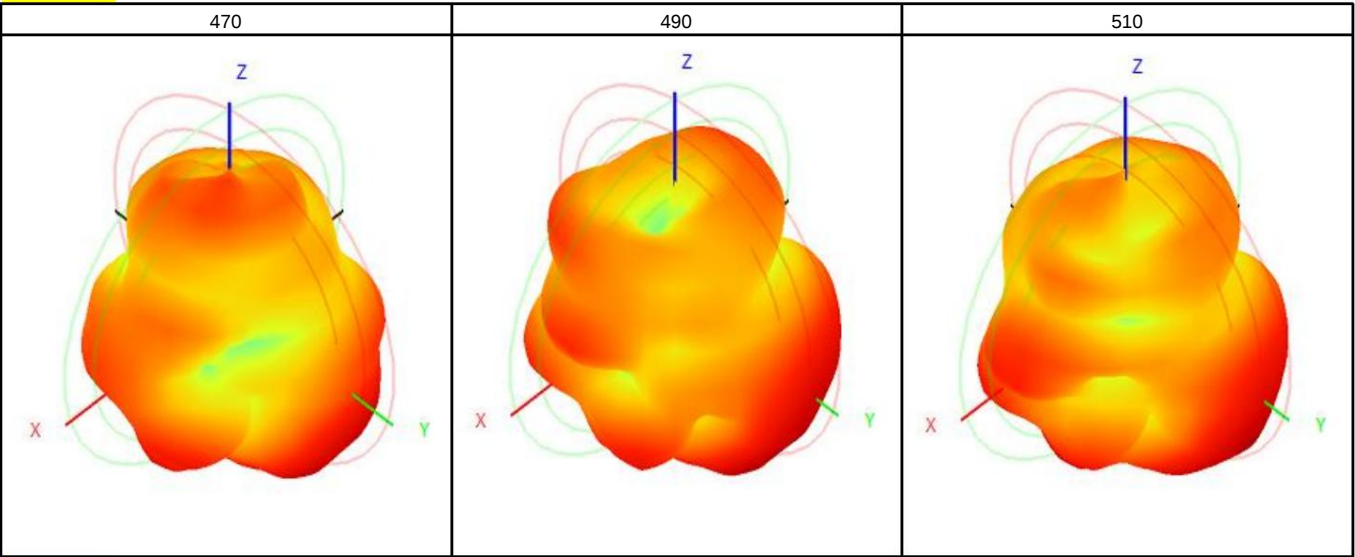
Frequency ID	1	2	3	4	5	6	7	8	9	10
Frequency (MHz)	1560.0	1565.0	1570.0	1575.0	1580.0	1585.0	1590.0	1595.0	1600.0	1605.0
Gain (dBi)	1.79	1.89	2.02	2.32	2.22	2.19	2.05	1.91	1.82	1.67
Efficiency (%)	45.10	47.36	50.32	52.30	52.44	51.43	51.25	50.32	48.66	46.20

2.4G

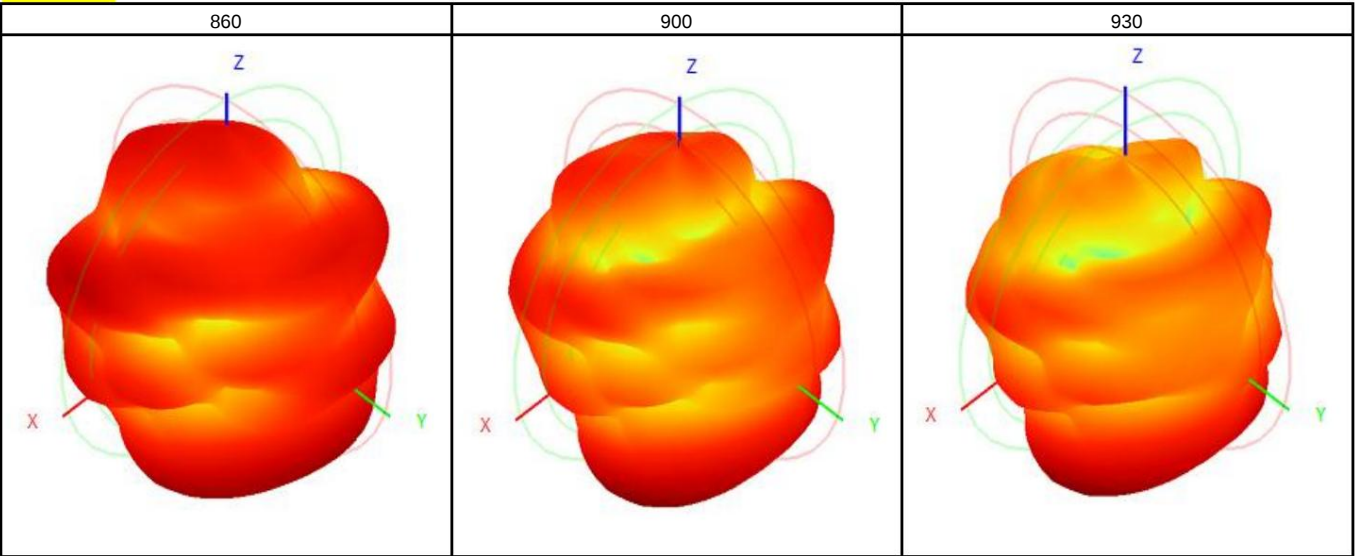
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	2.24	2.34	2.46	2.52	2.69	2.85	2.71	2.68	2.58	2.47	2.34
Efficiency (%)	55.41	57.26	58.63	59.75	60.16	61.36	60.45	59.42	58.22	57.01	56.34

4.3D Radiation Pattern

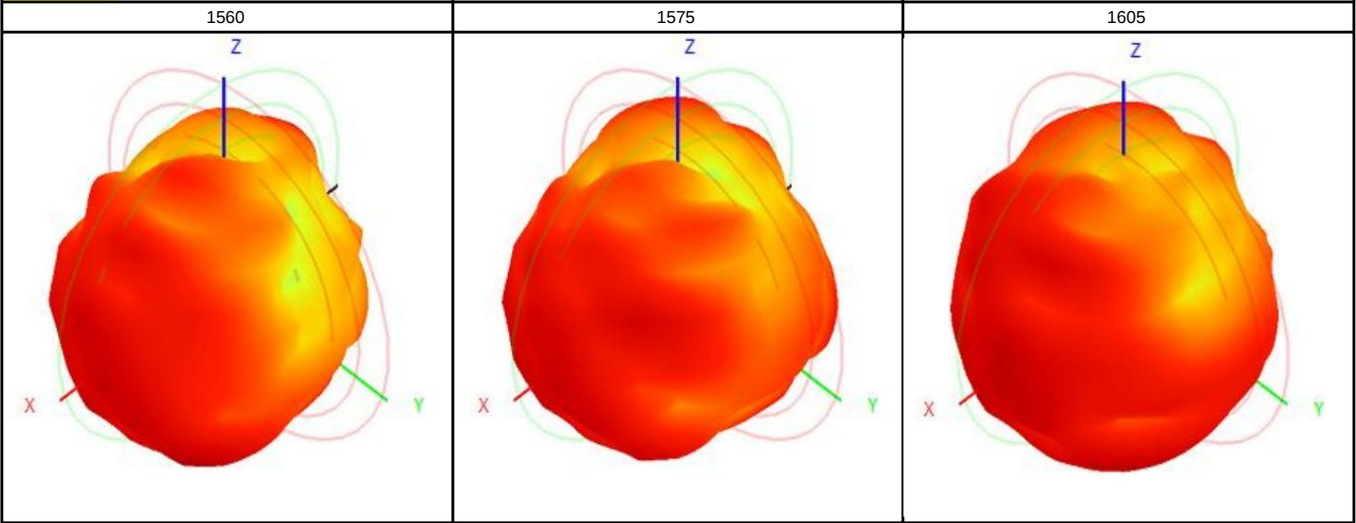
490MHZ



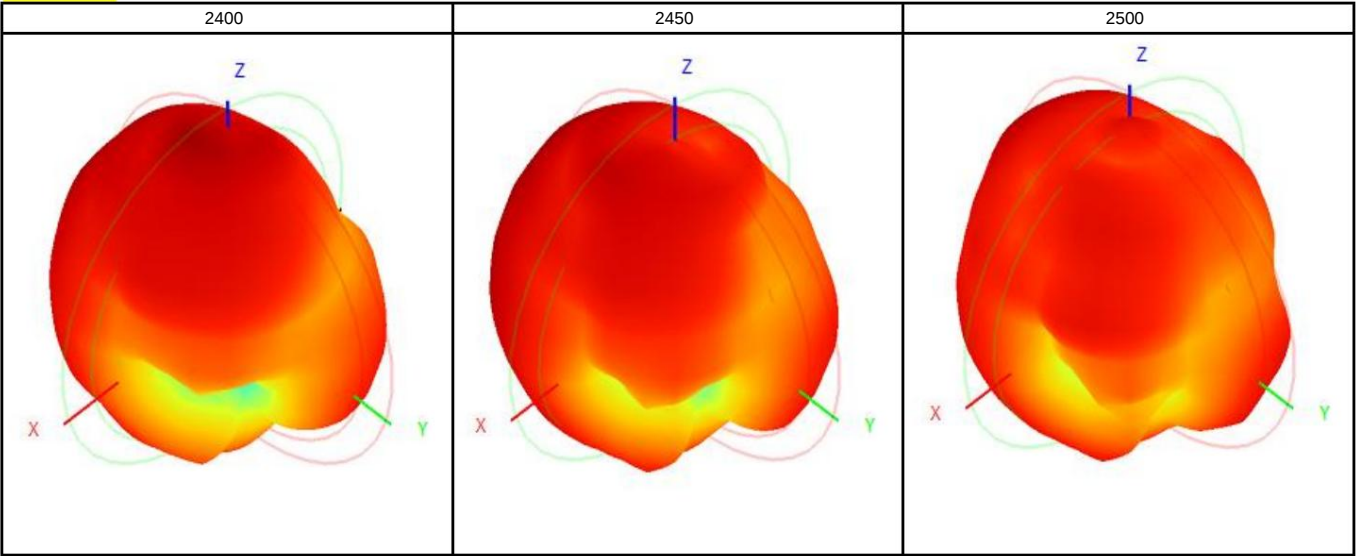
900MHZ



GPS

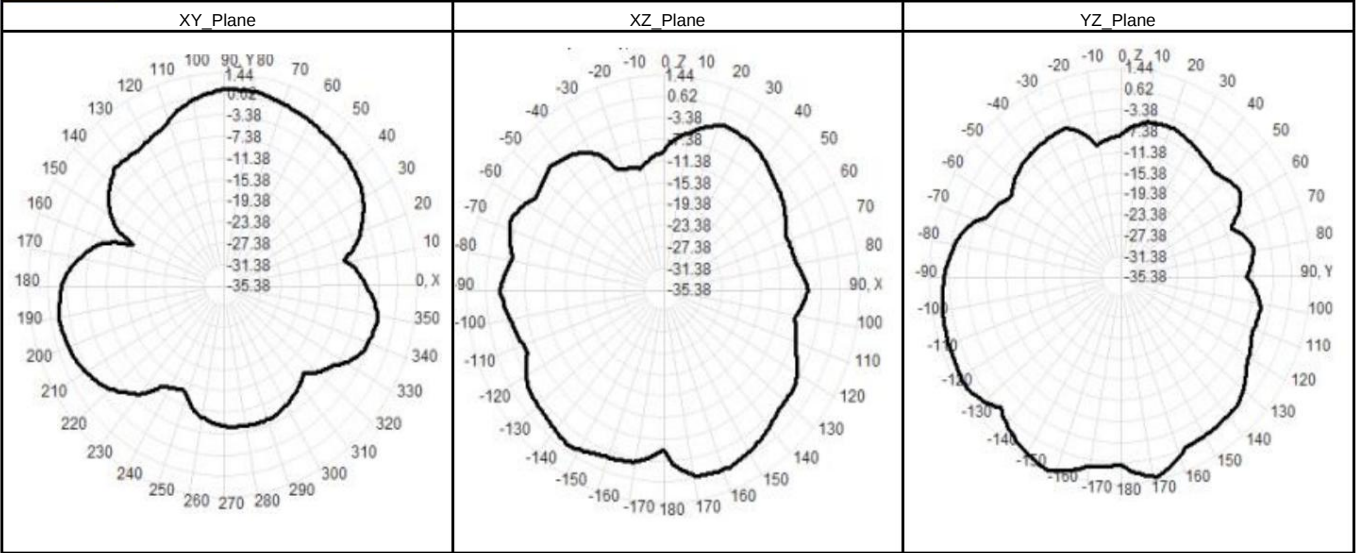


2.4G

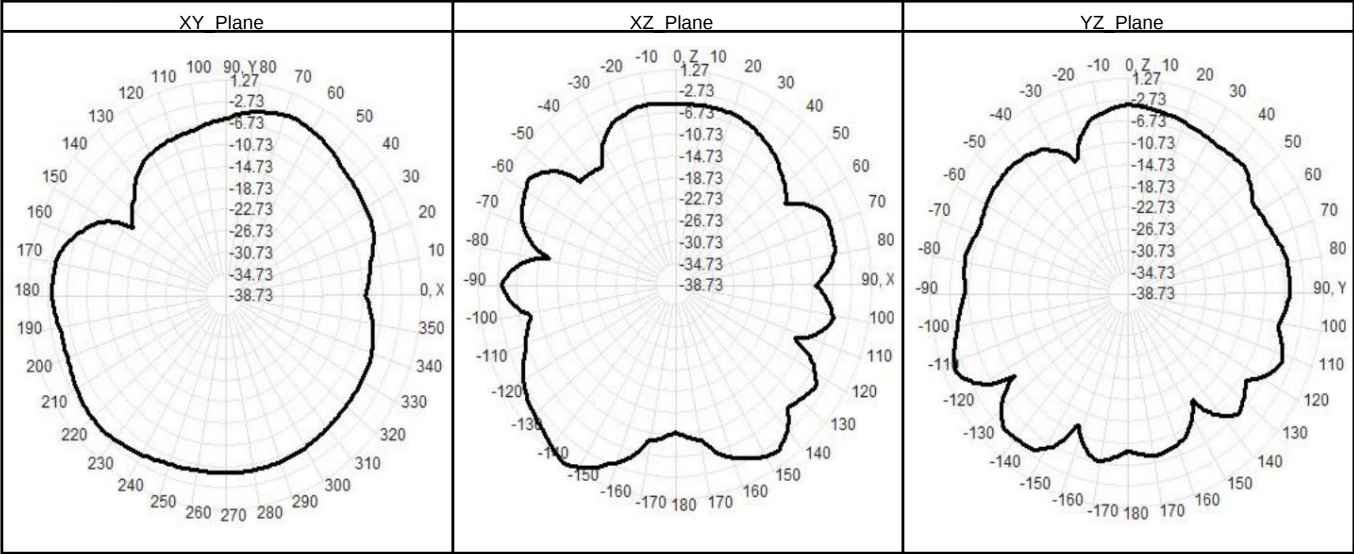


5.2D Radiation Pattern

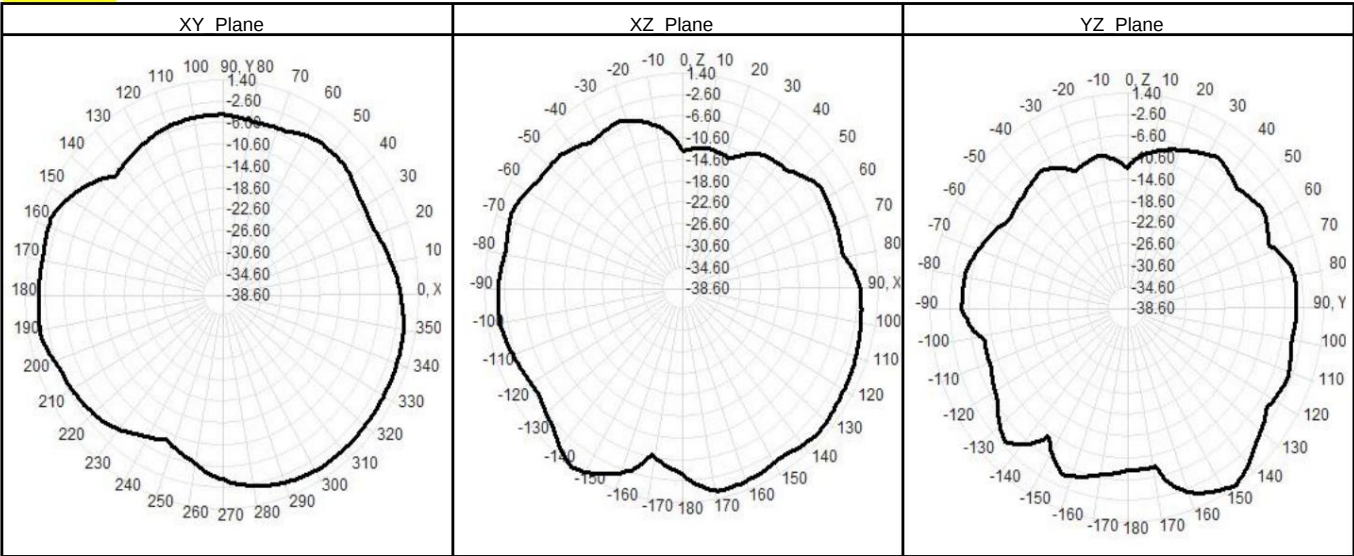
490MHZ



900MHZ



1575MHZ



2450MHZ

