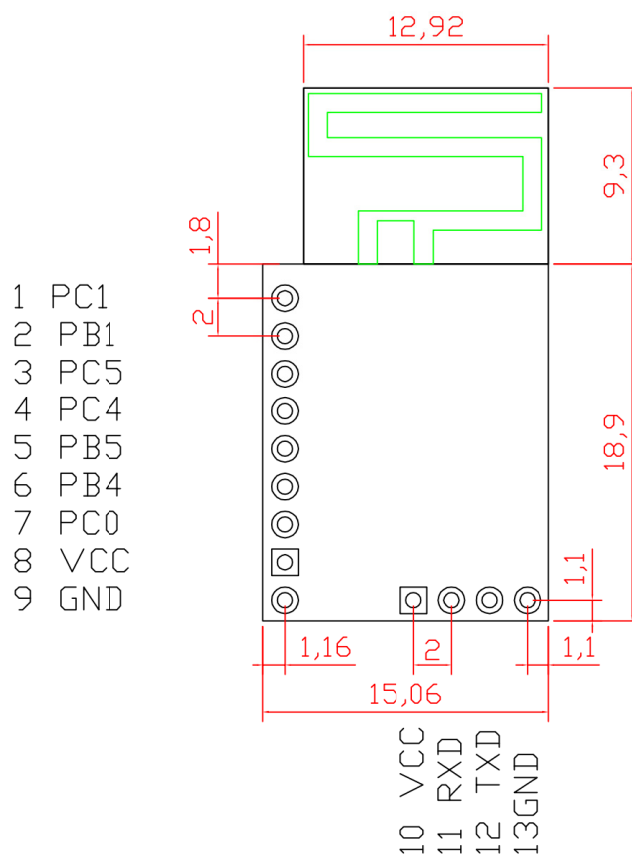


一、Product sizeUnit mm

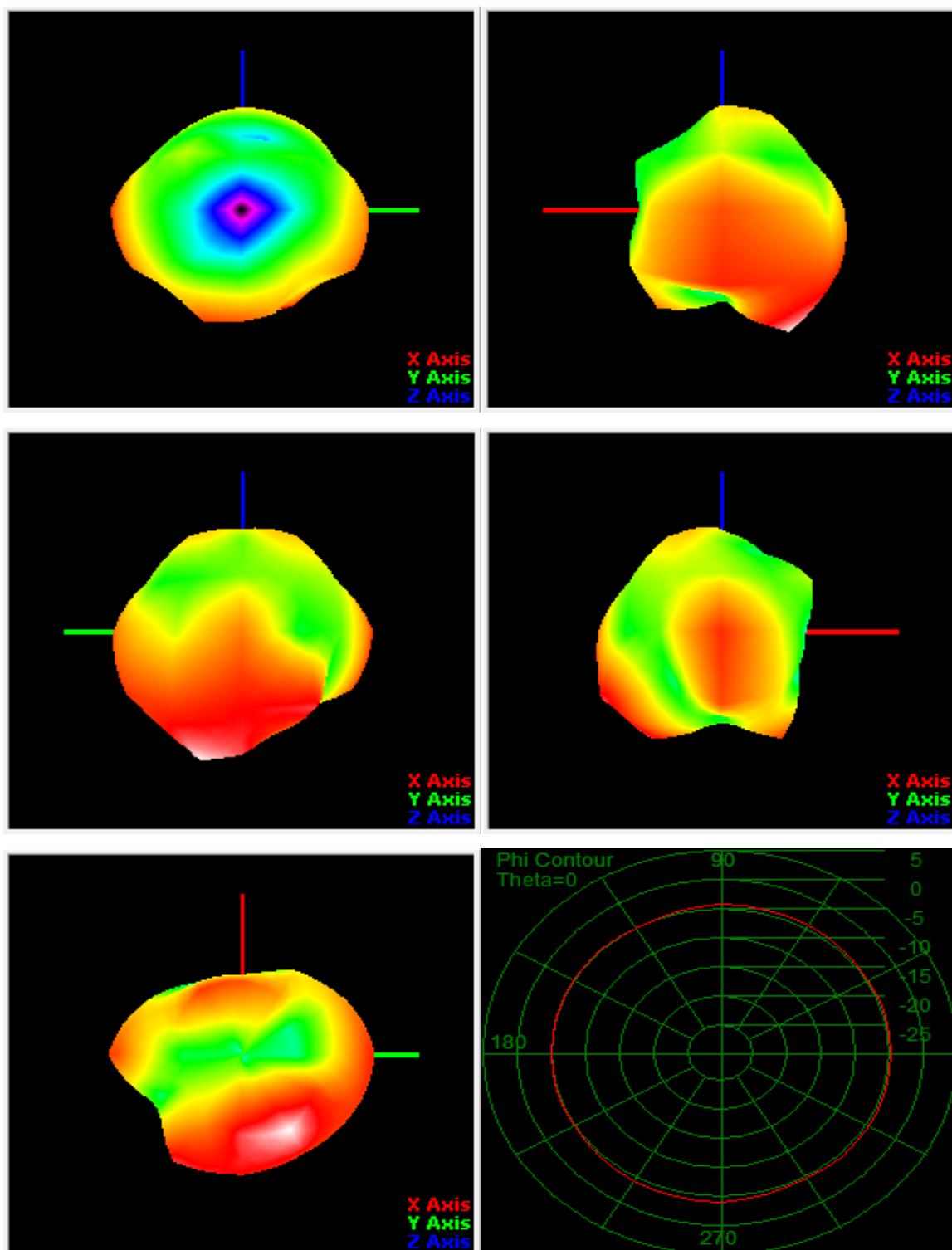
UNIT: MM

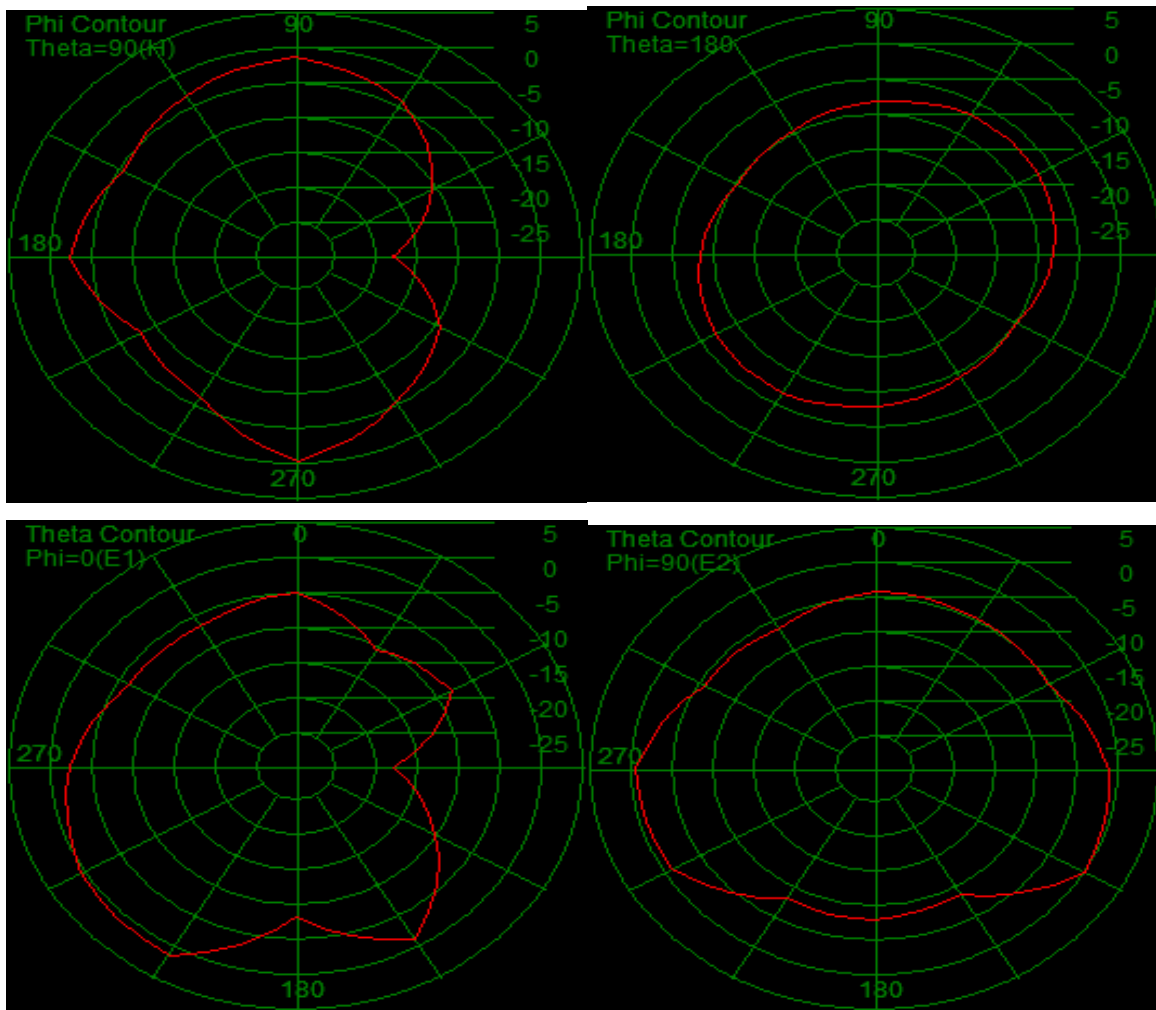
**二、Antenna parameters**

Antenna Manufacturers	Shenzhen HPD Technology Co., Ltd.
Address	Room 1713~1715, Floor 17, Building C, Chuangxin Square, No.2007, Pingshan Avenue, Liulian Community, Pingshan Street, Pingshan District, Shenzhen, Guangdong Province ,China 518118
Antenna Name	80BV5, IFA 2.48GHz PCB antenna
Antenna Model	ANT_80BV5_PCB_IFA
Tester	paul.xue

Test Point ID	Freq. (MHz)	Gain(dBi)	Efficiency (%)
1	2400.0	2.67	42.6%
2	2410.0	1.87	34.6%
3	2420.0	2.50	39.4%
4	2430.0	2.27	36.4%
5	2440.0	2.70	40.0%
6	2450.0	3.03	41.2%
7	2460.0	2.92	39.7%
8	2470.0	3.32	41.5%
9	2480.0	2.96	38.7%
10	2490.0	3.51	42.5%
11	2500.0	3.02	38.0%

					Passive -Freq2480.00MHZ									
		0	30	60	90	120	150	180	210	240	270	300	330	360
H+V Total (30° Step)	0	-5.06	-5.12	-4.50	-4.29	-5.03	-4.82	--	--	--	--	--	--	--
	30	-10.59	-11.31	-7.74	-4.71	-4.09	-4.41	-6.74	-4.08	-3.83	-6.43	-8.53	-8.78	--
	60	-8.13	-7.27	-7.73	-5.55	-7.94	-7.54	-6.49	-6.29	-5.80	-5.72	-7.01	-5.66	--
	90	-18.36	-10.84	-4.29	-1.37	-3.26	-5.64	-2.38	-8.17	-6.75	-0.62	-5.73	-9.86	--
	120	-10.65	-5.15	-2.95	-0.41	-0.82	-1.11	0.20	0.95	-8.94	-1.26	-4.53	-9.83	--
	150	-1.42	-2.92	-9.19	-9.20	-0.76	2.96	1.12	-4.06	-6.21	-8.37	-3.93	-0.87	--
	180	-8.41	-7.16	-7.08	-8.29	-9.57	-10.43	--	--	--	--	--	--	--
		0	30	60	90	120	150	180	210	240	270	300	330	360
H (30° Step)	0	-8.58	-18.25	-13.35	-6.49	-5.18	-5.57	--	--	--	--	--	--	--
	30	-14.44	-13.85	-10.06	-6.30	-4.90	-4.81	-8.62	-4.49	-9.27	-10.93	-9.34	-24.15	--
	60	-8.16	-7.47	-9.41	-6.66	-8.80	-12.68	-9.12	-6.65	-7.87	-6.02	-8.14	-7.08	--
	90	-24.97	-24.32	-7.60	-1.99	-3.61	-6.44	-3.78	-8.85	-7.89	-1.08	-8.27	-13.94	--
	120	-13.31	-10.76	-16.73	-2.36	-1.83	-1.55	-0.80	0.50	-10.90	-1.60	-6.83	-14.36	--
	150	-6.25	-16.70	-12.41	-11.59	-1.08	2.96	0.86	-5.52	-14.81	-9.83	-6.69	-3.81	--
	180	-26.99	-18.64	-11.34	-9.38	-9.93	-12.68	--	--	--	--	--	--	--
		0	30	60	90	120	150	180	210	240	270	300	330	360
V (30° Step)	0	-7.62	-5.33	-5.11	-8.31	-19.70	-12.87	--	--	--	--	--	--	--
	30	-12.89	-14.86	-11.58	-9.83	-11.78	-14.97	-11.28	-14.47	-5.29	-8.34	-16.26	-8.90	--
	60	-29.07	-20.87	-12.68	-12.02	-15.35	-9.12	-9.92	-17.29	-10.00	-17.48	-13.39	-11.20	--
	90	-19.43	-11.04	-7.02	-10.10	-14.27	-13.39	-7.99	-16.57	-13.11	-10.54	-9.27	-12.01	--
	120	-14.05	-6.55	-3.14	-4.83	-7.64	-11.28	-6.64	-9.10	-13.35	-12.49	-8.38	-11.72	--
	150	-3.15	-3.10	-11.99	-12.93	-12.24	-28.07	-11.14	-9.50	-6.86	-13.79	-7.21	-3.94	--
	180	-8.48	-7.48	-9.12	-14.84	-20.54	-14.38	--	--	--	--	--	--	--





END