

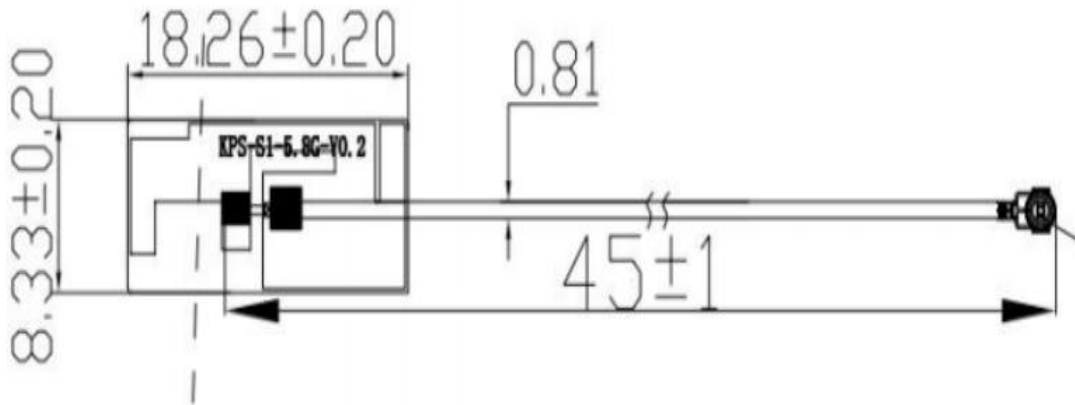
Product specification

Quick Reference Date

WIFI	
Frequency Band	5150 ~ 5850MHz
Interface	SDIO1.1/2.0/3.0
Size	17mm*17mm*2.4mm
Operating	-40℃~+85℃
Storage Temperature	-55℃~+125℃
VBAT	3.3V
VDD_PIO	1.8V or 3.3V
Working current	350mA
Max current	<700mA
Humidity	Operating Humidity 60% to 85% Non-Condensing

All the technical data and information contained herein are subject to change without prior notice

Antenna Layout & module on the system board

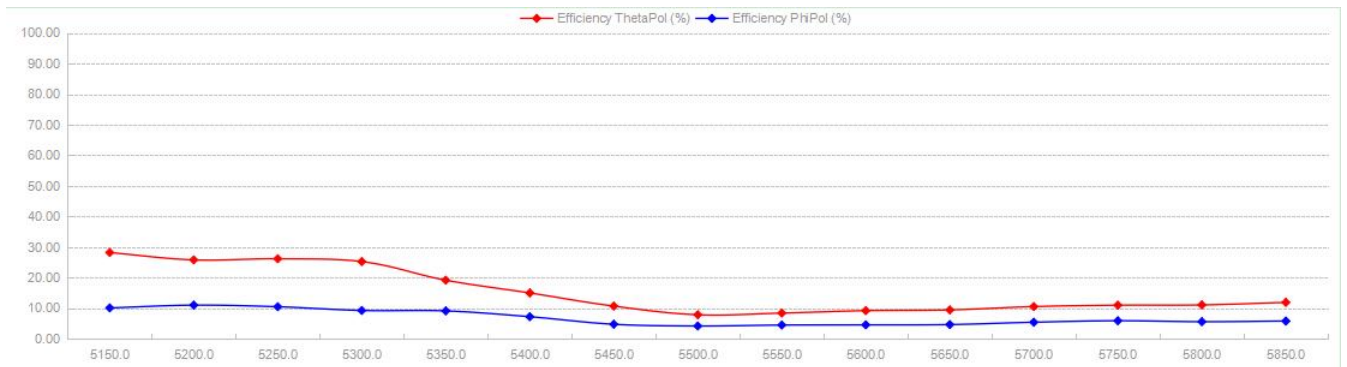
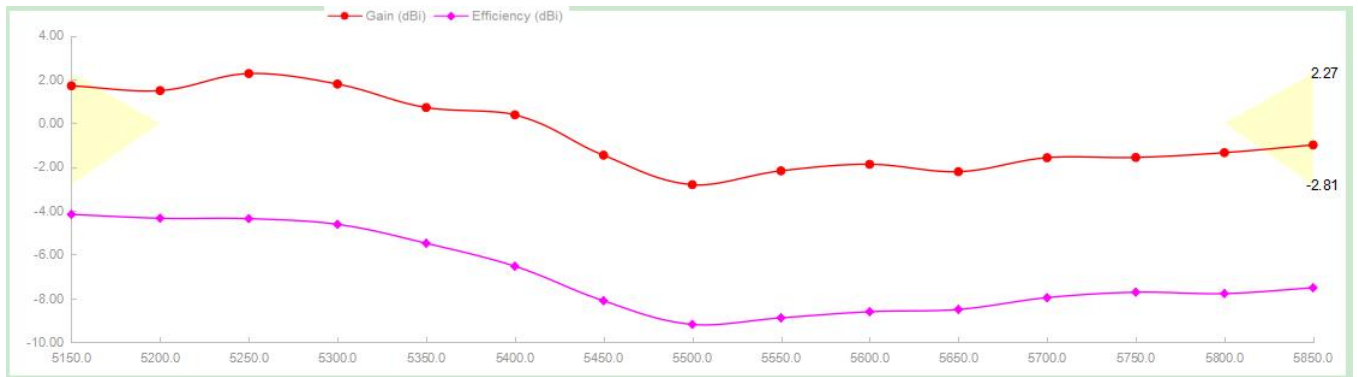


Antenna Gain

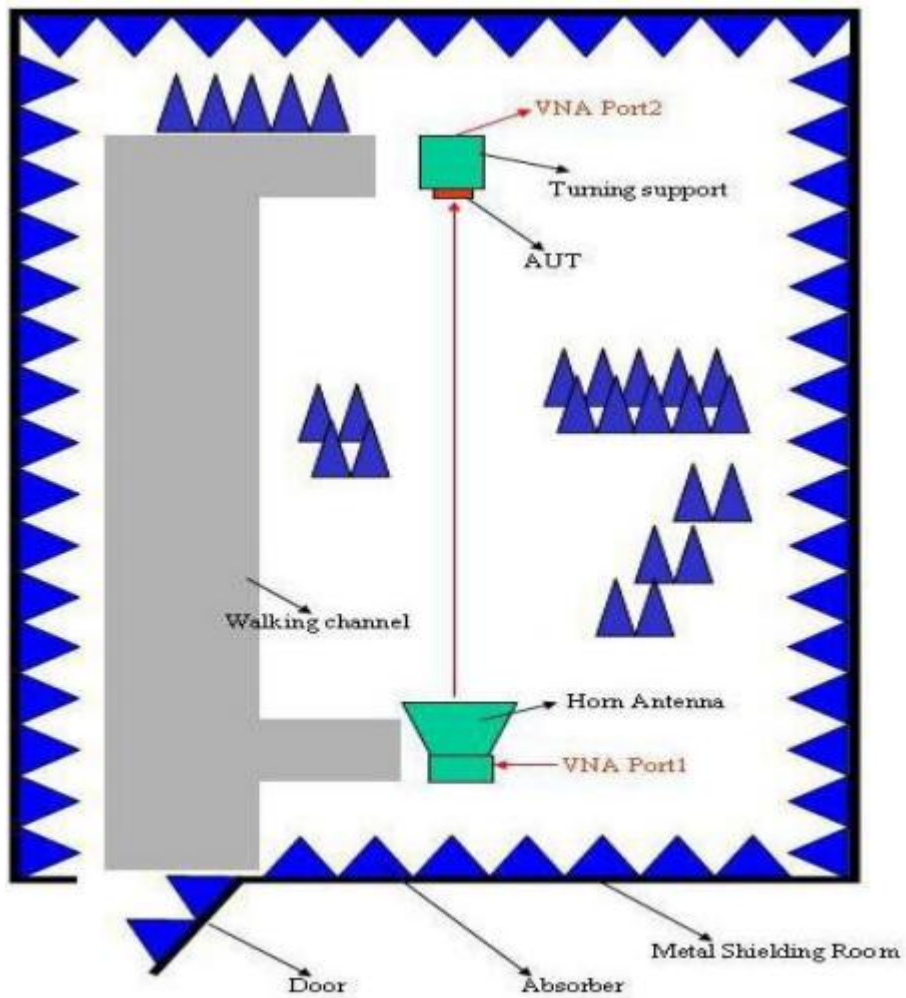
Efficiency Table

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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	5850.0
Efficiency (dBi)	-4.17	-4.34	-4.36	-4.62	-5.48	-6.53	-8.11	-9.19	-8.89	-8.61	-8.51	-7.97	-7.72	-7.78	-7.52
Gain (dBi)	1.71	1.49	2.27	1.79	0.72	0.38	-1.46	-2.81	-2.18	-1.88	-2.22	-1.58	-1.57	-1.35	-0.99
Efficiency (%)	38.30	36.80	36.65	34.51	28.28	22.21	15.45	12.05	12.91	13.76	14.10	15.96	16.90	16.66	17.71
Directivity (dB)	5.87	5.83	6.63	6.41	6.20	6.92	6.65	6.38	6.72	6.74	6.29	6.39	6.16	6.44	6.52
Peak Gain Position (Theta)	116.00	116.00	115.00	115.00	115.00	115.00	115.00	115.00	116.00	116.00	116.00	116.00	114.00	116.00	116.00
Peak Gain Position (Phi)	73.00	72.00	69.00	70.00	99.00	72.00	70.00	98.00	73.00	73.00	73.00	73.00	99.00	72.00	70.00
Efficiency ThetaPol (%)	28.20	25.80	26.17	25.25	19.16	14.99	10.70	7.86	8.41	9.21	9.45	10.54	10.99	11.07	11.90
Efficiency PhiPol (%)	10.10	11.00	10.48	9.26	9.12	7.23	4.75	4.19	4.49	4.56	4.65	5.42	5.91	5.58	5.81
Upper Hem. Efficiency (%)	23.99	22.51	21.93	20.92	16.37	12.64	8.70	6.50	7.06	7.56	7.60	8.50	8.93	8.75	9.33
Lower Hem. Efficiency (%)	14.31	14.29	14.72	13.59	11.92	9.57	6.75	5.55	5.84	6.21	6.50	7.46	7.97	7.91	8.38

7-2-5. 3D Efficiency vs. Frequency



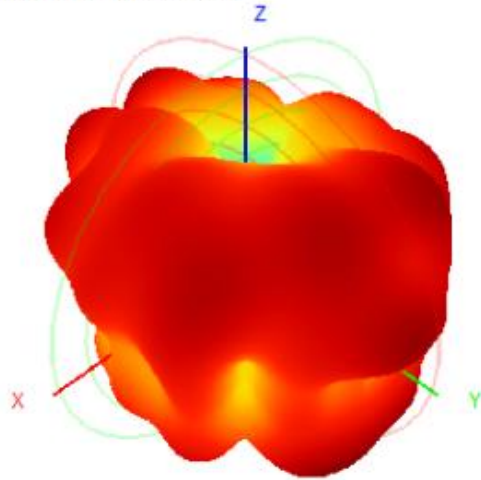
The Environment of Antenna Radiation Pattern



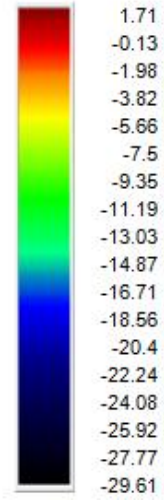
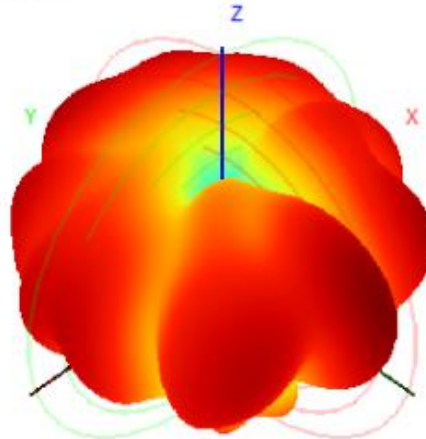
5150~5850 MHz Band

3D Gain Pattern @ 5150 MHz (unit: dBi)

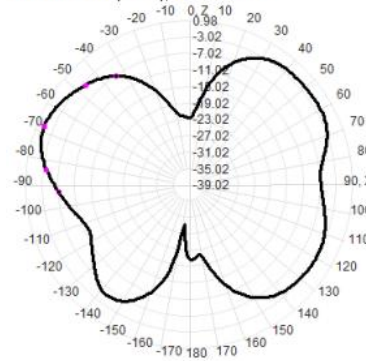
5150.0MHz H+V, Eff: 38.3%



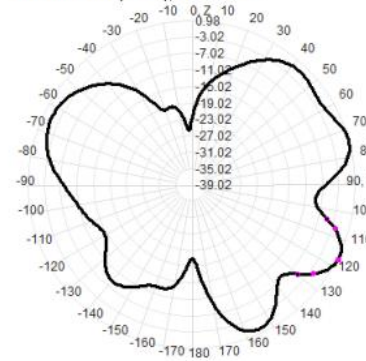
Back View



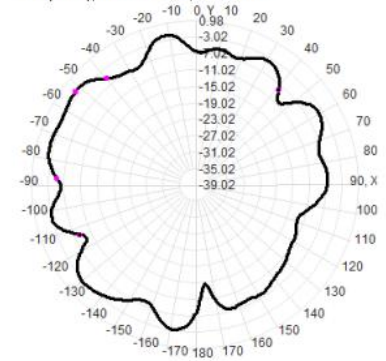
5150.0MHz Total(E1-XZ), Max=-0.91dBi



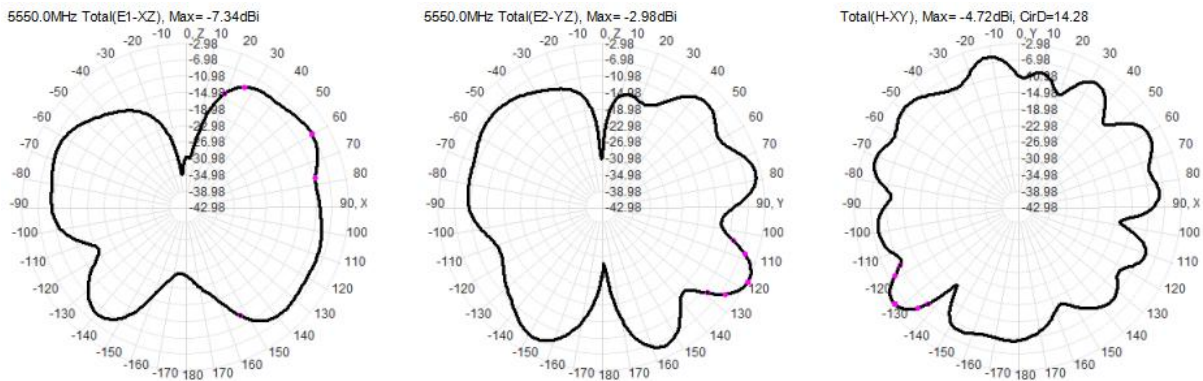
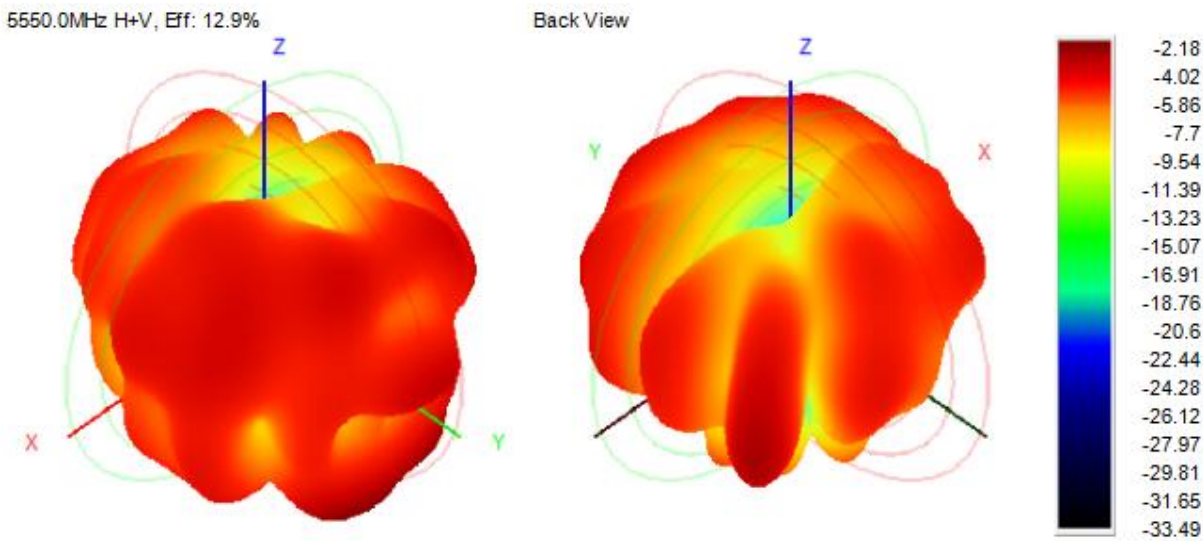
5150.0MHz Total(E2-YZ), Max=0.98dBi



Total(H-XY), Max=-1.96dBi, CirD=12.95



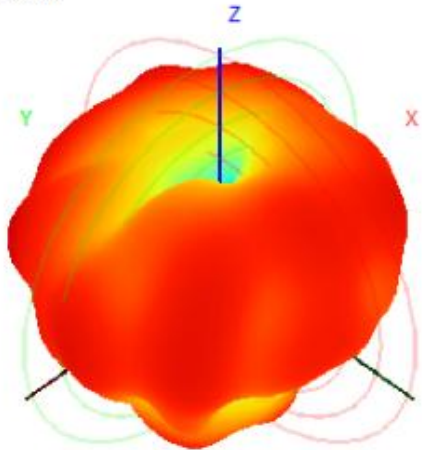
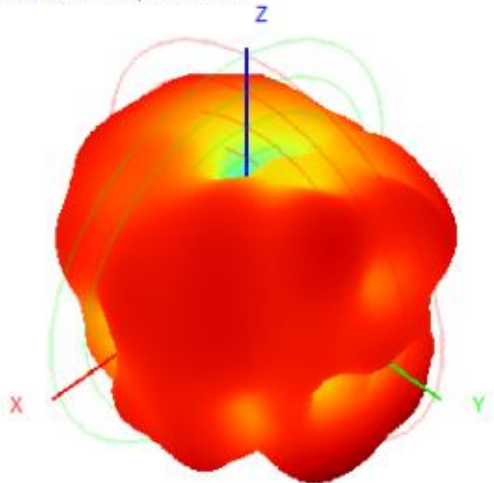
3D Gain Pattern @ 5550 MHz (unit: dBi)



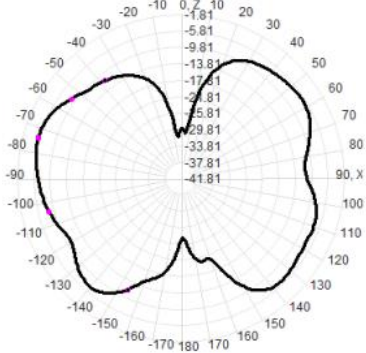
3D Gain Pattern @ 5850 MHz (unit: dBi)

5850.0MHz H+V, Eff: 17.7%

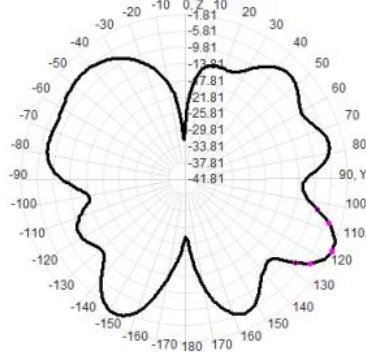
Back View



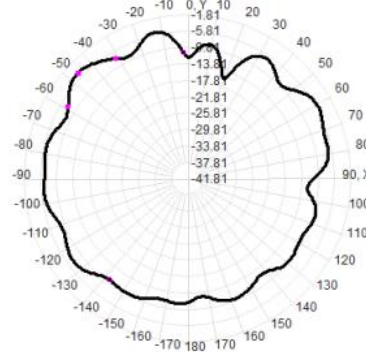
5850.0MHz Total(E1-XZ), Max=-5.53dBi



5850.0MHz Total(E2-YZ), Max=-1.81dBi



Total(H-XY), Max=-4.66dBi, CirD=11.28



V.S.W.R.

