

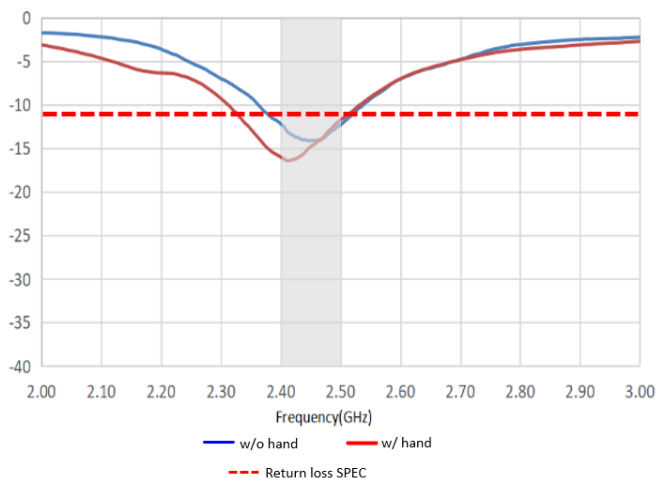
CORSAIR RGP0126 Antenna Spec.

Antenna proposal & specification

Antenna Proposal			
Wireless Function	■ Wi-Fi 2.4G antenna		
Antenna type	■ 2.4G on board antenna (PIFA type)*1		
Measurement data			
	Customer spec	Measurement data w/o hand	Measurement data w/ hand
Return loss	< -10 dB	< -10 dB	< -10 dB
Efficiency	■ 2.4G Ant > 30%.	■ 2.4G Ant > 46%.	■ 2.4G Ant > 20%.
Peak Gain	■ 2.4G peak <	■ 2.4G peak < 0.98 dBi	■ 2.4G peak < -1.12 dBi

Measurement data

❖ S-parameter: Return loss



Frequency (MHz)	2.4G Ant w/o hand	2.4G Ant w/ hand	specification
2400	-12.20	-16.00	
2450	-14.10	-14.80	< -10 dB
2500	-12.30	-11.70	

Unit : dB

Return loss table

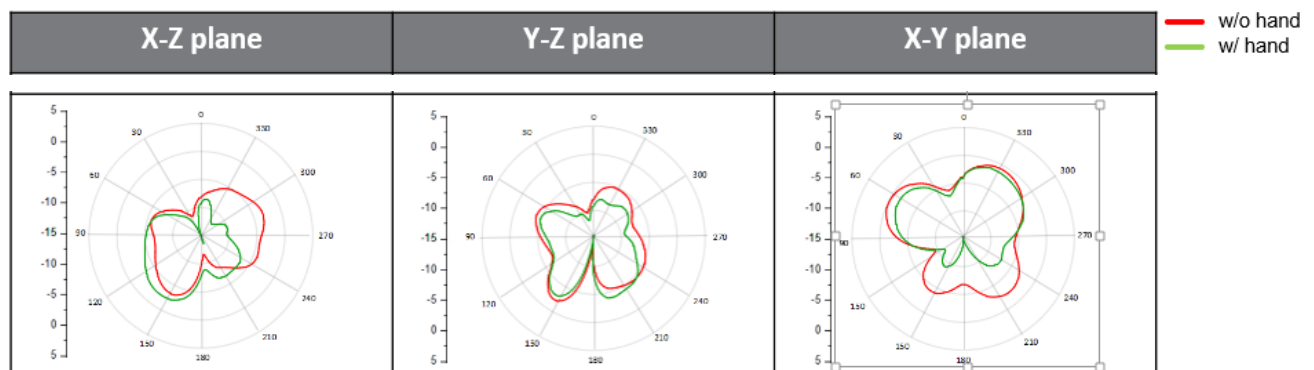
Measurement data

Radiation pattern - DUT orientation setting

	XZ	YZ	XY
0°	Top	Top	Right
90°	Right	Front	Front
180°	Bottom	Bottom	Left
270°	Left	Rear	Rear

Measurement data

Radiation pattern – 2.45GHz



Measurement data

❖ Gain table: 2.4G ANT_w/o hand

Frequency (MHz)	XZ plane		YZ plane		XY plane		E-total (dBi)	Efficiency
	Peak Gain (dBi)	Average Gain (dB)	Peak Gain (dBi)	Average Gain (dB)	Peak Gain (dBi)	Average Gain (dB)		
2400	-2.04	-5.06	0.07	-2.77	0.38	-3.02	0.79	47%
2450	-2.61	-6.01	0.68	-3.38	-0.02	-3.76	0.98	50%
2500	-3.30	-6.79	-0.08	-4.63	-1.17	-4.47	0.31	46%

❖ Gain table: 2.4G ANT_w/ hand

Frequency (MHz)	XZ plane		YZ plane		XY plane		E-total (dBi)	Efficiency
	Peak Gain (dBi)	Average Gain (dB)	Peak Gain (dBi)	Average Gain (dB)	Peak Gain (dBi)	Average Gain (dB)		
2400	-3.15	-7.99	-2.34	-5.99	-2.11	-6.58	-1.12	24%
2450	-3.20	-8.43	-2.31	-6.64	-2.17	-7.06	-1.13	22%
2500	-2.77	-7.79	-3.33	-7.38	-2.73	-7.31	-1.86	20%