

Antenna matching report

Customer:

Model Name: CAL206

Frequency: BT(2402~2480MHz)

HEK ANT P/N: ANT2012R2400A1L0

Date: 2025.05.23

Number: 20250523001

Producer: FAE

Supplier Name: Dongguan Hekang Electronics Co., LTD

Location: Room 301, Building 7, Times Zhirui Industrial
Development Center, No. 159, Sanlian Road, Luwu,
Changping Town, Dongguan City, Guangdong Province





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Appearance of customer Sample

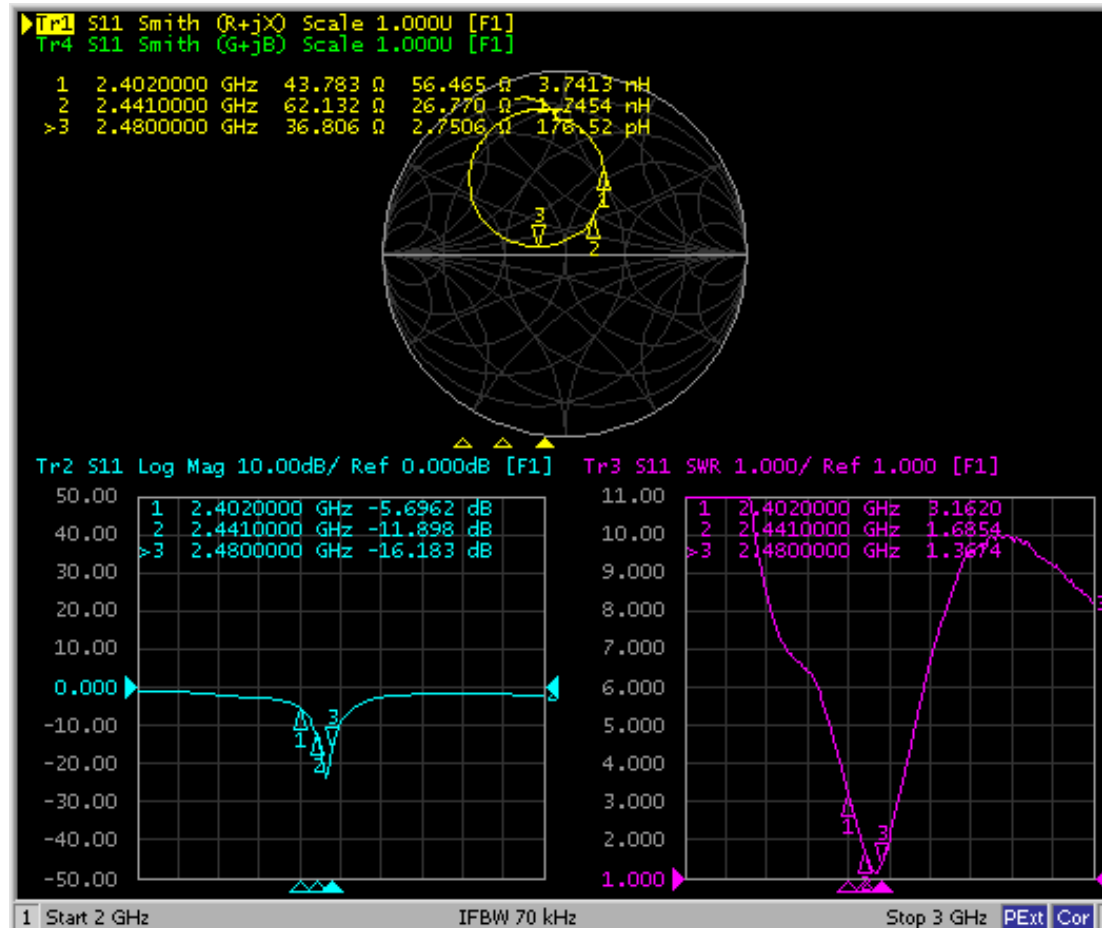


2012 Chip Antenna





Antenna S parameters



Item	Value		
	2402(MHz)	2441(MHz)	2484(MHz)
Smith(Ω)	43.78	62.13	36.80
Return loss(dB)	-5.69	-11.89	-16.18
VSWR	3.1	1.68	1.36





Antenna Passive parameter

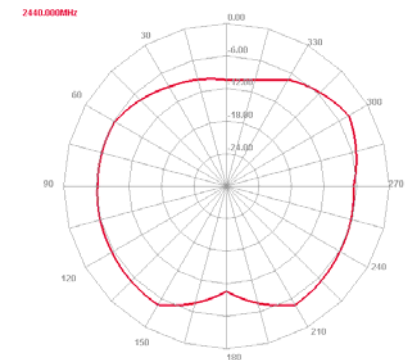
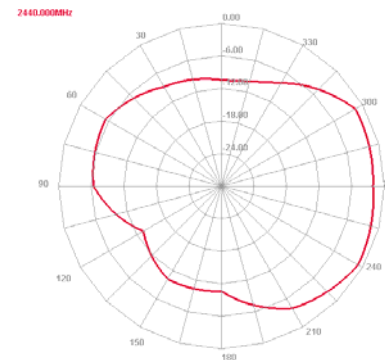
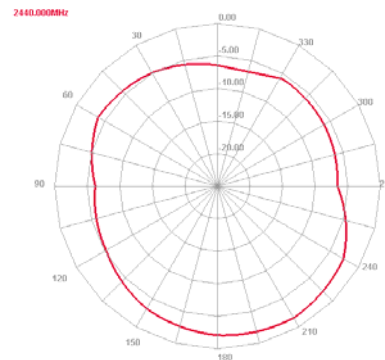
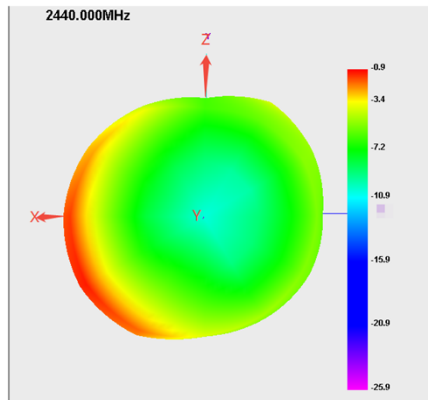
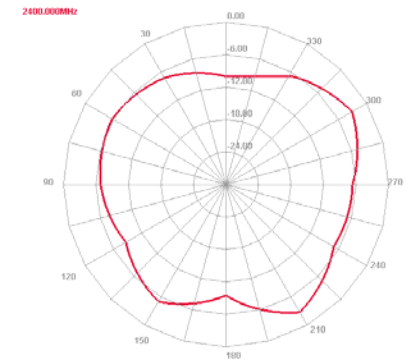
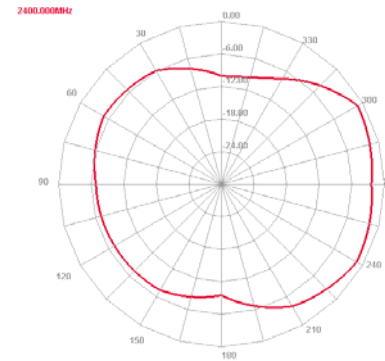
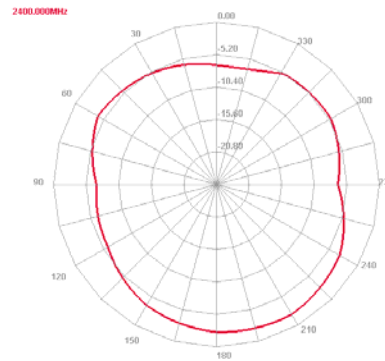
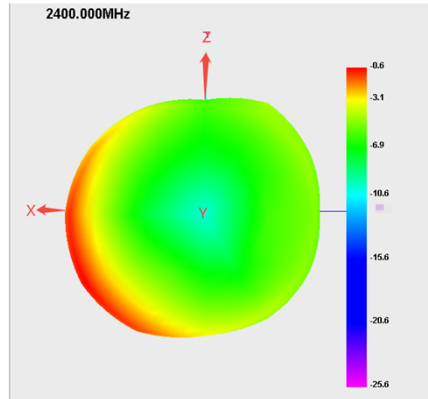
Frequency (MHz)	Efficiency (%)	Mean gain (dBi)	Peak Gain (dBi)
2400	36.2	-4.41	-0.62
2410	35.97	-4.44	-0.72
2420	35.72	-4.47	-0.88
2430	33.68	-4.73	-1.14
2440	34.22	-4.66	-0.94
2450	34.54	-4.62	-0.79
2460	33.37	-4.77	-0.89
2470	31.65	-5.00	-1.02
2480	32.27	-4.91	-0.91





Antenna radiation pattern

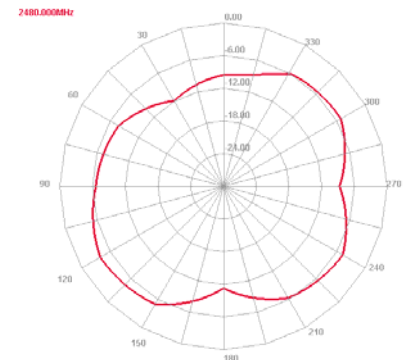
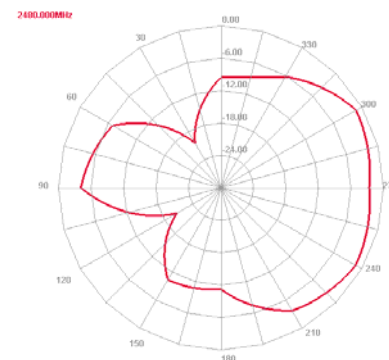
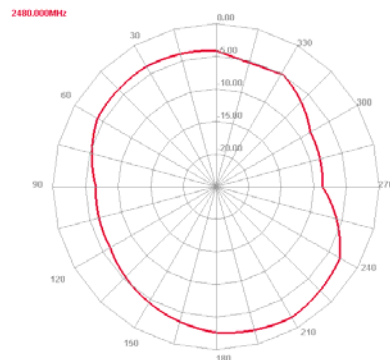
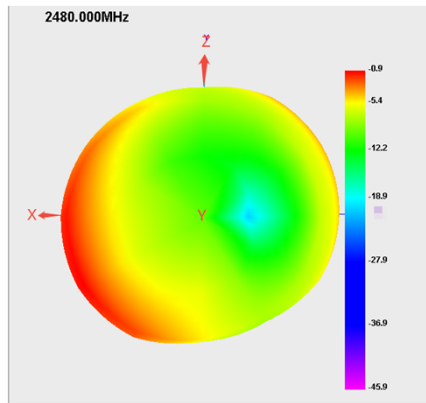
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Antenna radiation pattern

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Thanks

