

Korea Soundbar

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Prepared by : ShaoJun Peng

Checked by : Leeting Hsieh

Approved by : ZhiWei Chen

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Antenna Design history

Released Date	Version	Record
Jul. 17th, 2020	0.0	Antenna test report
Oct. 08th,2020	0.1	Mockup housing Antenna test report
Nov. 20th,2020	0.2	Antenna location change
Apr. 07th,2021	1.0	New housing antenna test report

Requirements of Antenna Design and Measurement

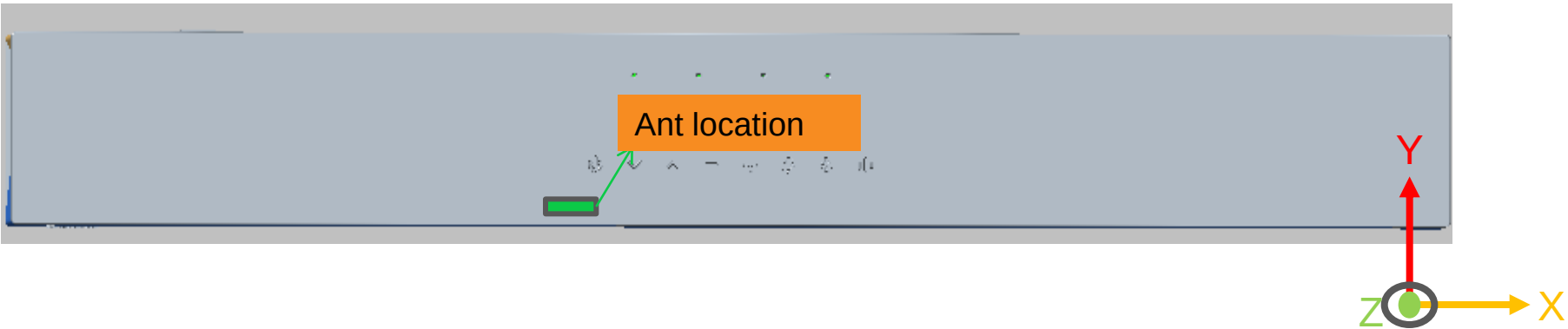
Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
BT	1	2400 – 2500MHz	

Requirements of Measurement

Test Item	Specification	Remark
Return Loss	< -10dB	
Peak gain	< 3dBi	
Efficiency	> 50%	

Antenna Placement & Solution

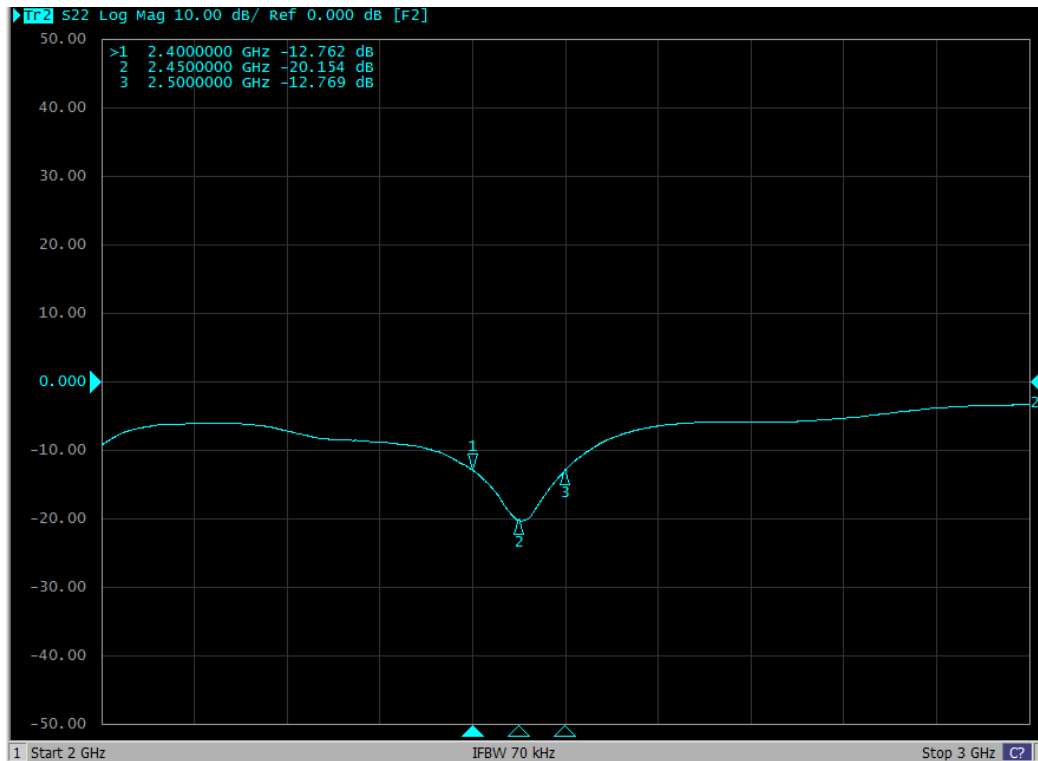


Antenna	Size (L * W * H)	Cable Type
A1	30mm*15mm*0.4mm	$\Phi=1.37$

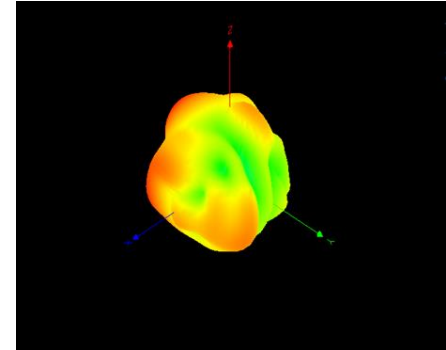
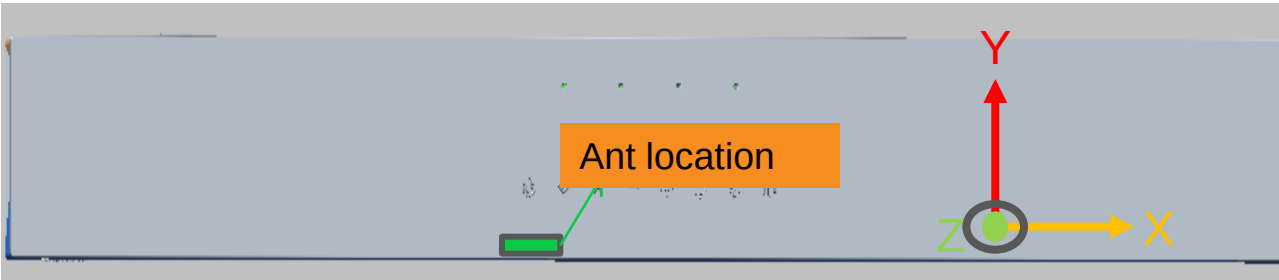
Return Loss Results

A1

[2400 – 2500MHz]



3D Radiation Pattern Results



Results Summary

Peak gain & Efficiency

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	2.23	50.68
2450	2.48	51.78
2500	2.15	50.47

3. Conclusions

Antenna Performance Summary

1. The specifications as shown in the figure are up to the standard.

Test Item	Specification	Result
Return Loss	< -10dB	OK
Peak gain	< 3dBi	OK
Efficiency	> 50%	OK

Thank you

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