

Product Model		Security Classification
RC Volvo Mining Excavator		Confidential
HW Version	/	Total 8 pages
SW Version	/	

Antenna Test Report

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1. Basic information

DUT Model	RC Volvo Mining Excavator
Identification of product	203729018
Antenna Type	Dipole
Dimensions	30mm
Applicant:	zhongshan JunCheng Plastic Electronic Toys Ltd.
Address:	YaGang Industrial Zone SanXiang Town ZhongShan City Guangdong province
Tested by:	Shenzhen Gongjin Electronic Co., Ltd. Laboratory
Address:	No.2, Danzi North Road, Pingshan Dist., Shenzhen, Guangdong, China
TEL:	0755-89990666
Test Date	2021-03-22

2. Test equipments

Name	Manufacturer	Model	Cal.Due
Network analyzer	Agilent	E5071C	2021-03-09
Microwave Anechoic Chamber	Satimo	5*5*5	2021-03-09
SG24 Multi-probe Antenna Measurement System	Satimo	SG24	2021-03-09

3. Test conclusion

Test Result	PASS
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4. Pass criteria

1) Electrical Properties

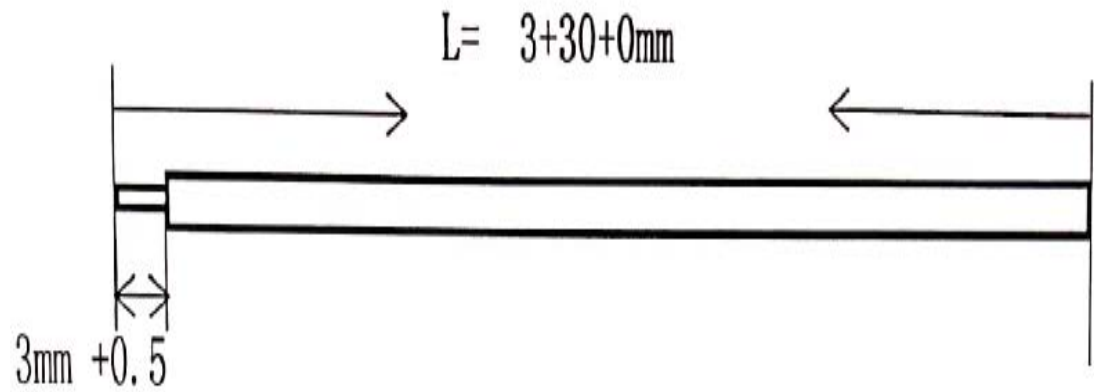
Frequency Range: ANT1:2416MHz、2443MHz、2470MHz

Gain : ANT1: 2416MHz: -2.947dBm、2443MHz: -2.821dBm、2470MHz: -2.823dBm

2) Physical Properties

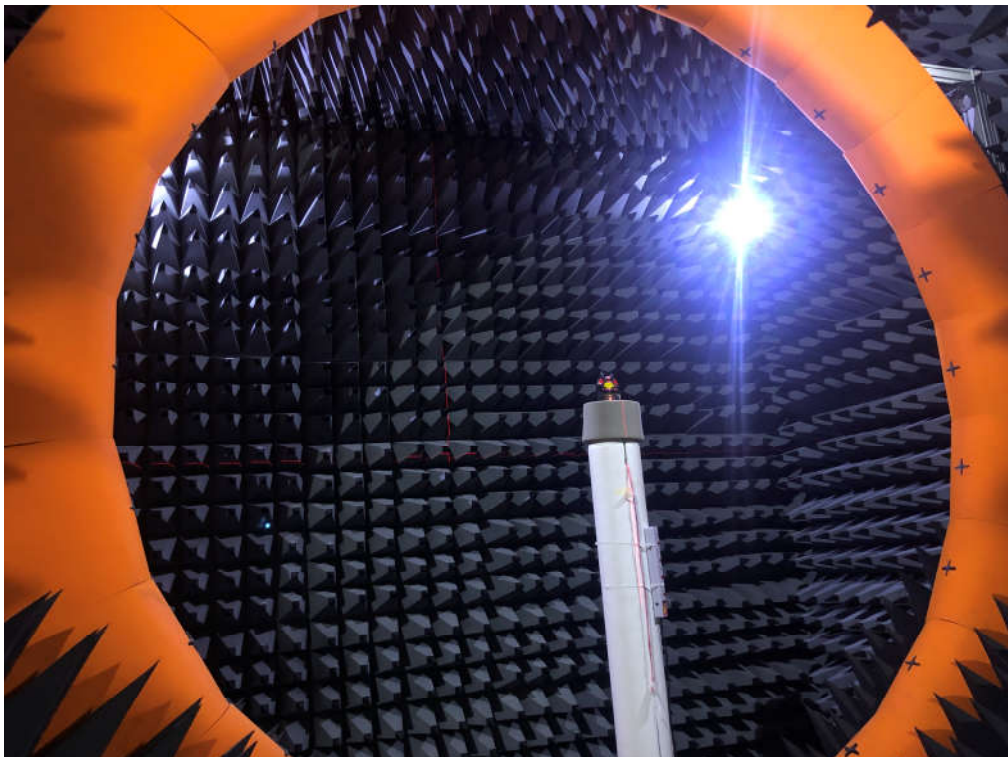
Operating Temp: -10℃~+60℃

5. EUT Phono



6. Test Phono

Test set-up as follow practicality pictures:





7. Test result

Test item	Frequency (GHz)	Gain (dBi)	Efficiency (%)	Result
ANT 1	2416MHz	-2.947	17.60%	PASS
	2443MHz	-2.821	17.66%	PASS
	2470MHz	-2.823	17.28%	PASS

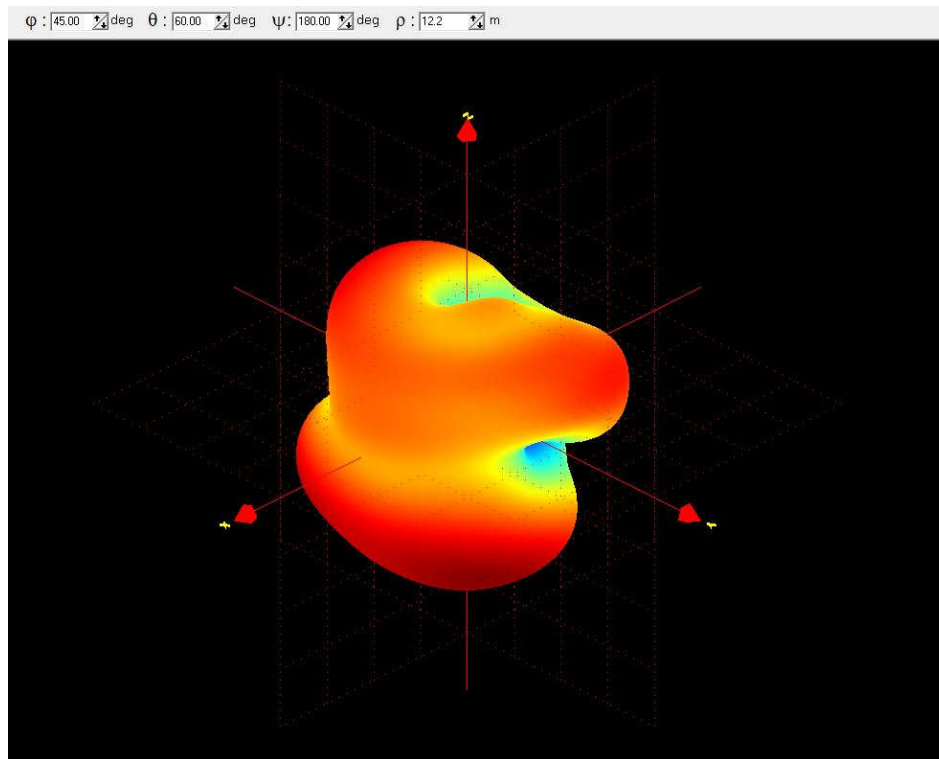
ANT 1

Frequency	Gain . dB	Efficiency
2416	-2.94739	0.176038
2443	-2.82129	0.176597
2470	-2.82325	0.172782

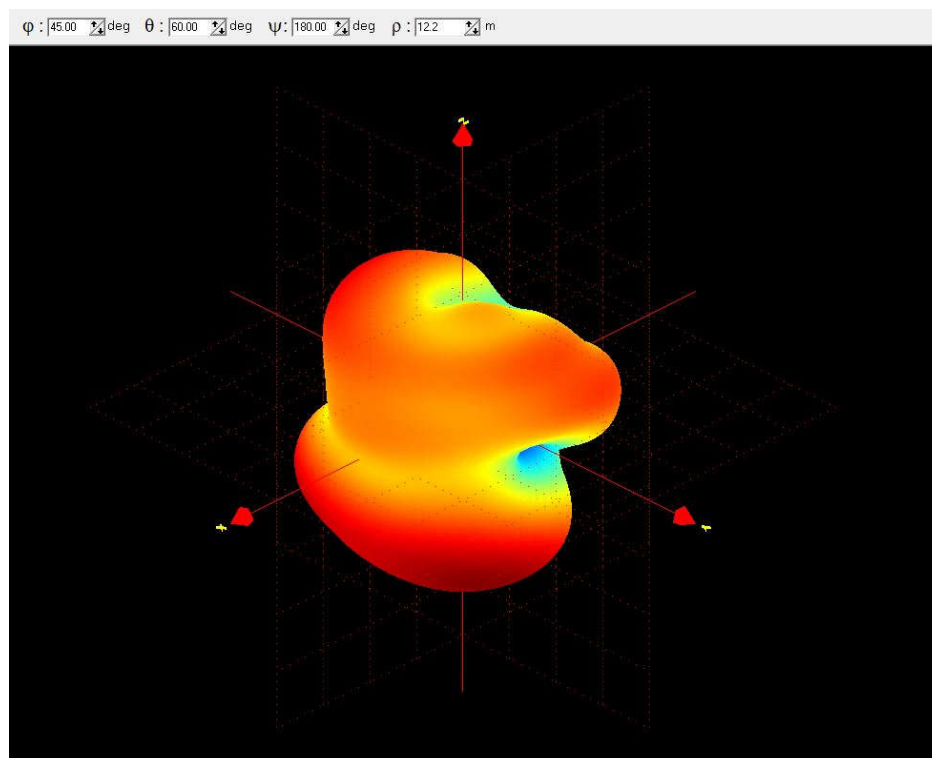
8. Test picture

1) 2.4G--3D Radiation Pattern:

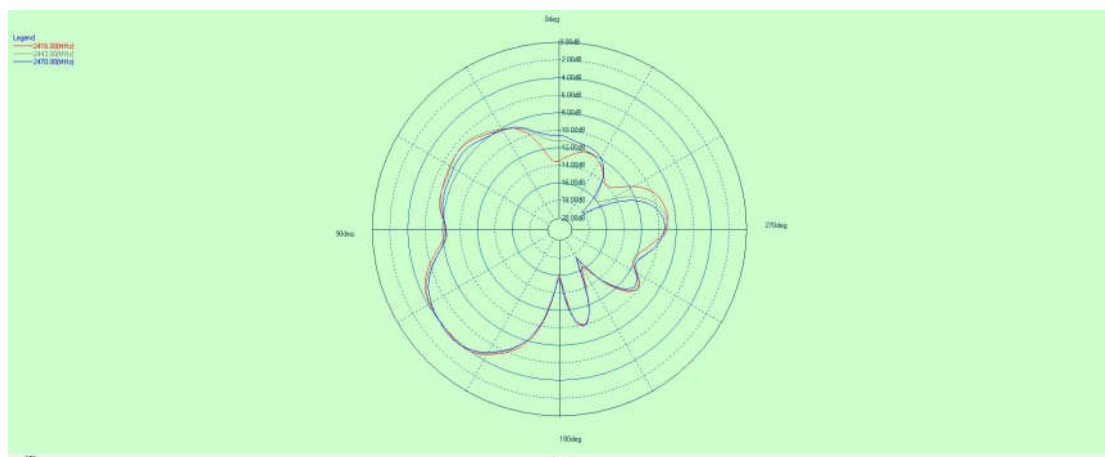
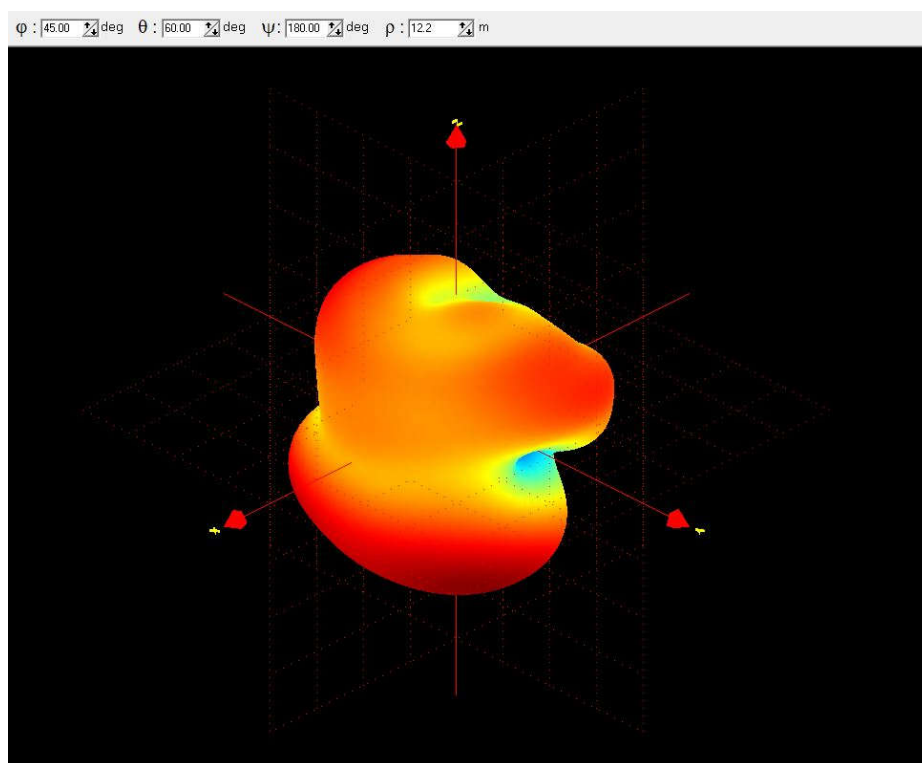
2413MHz:



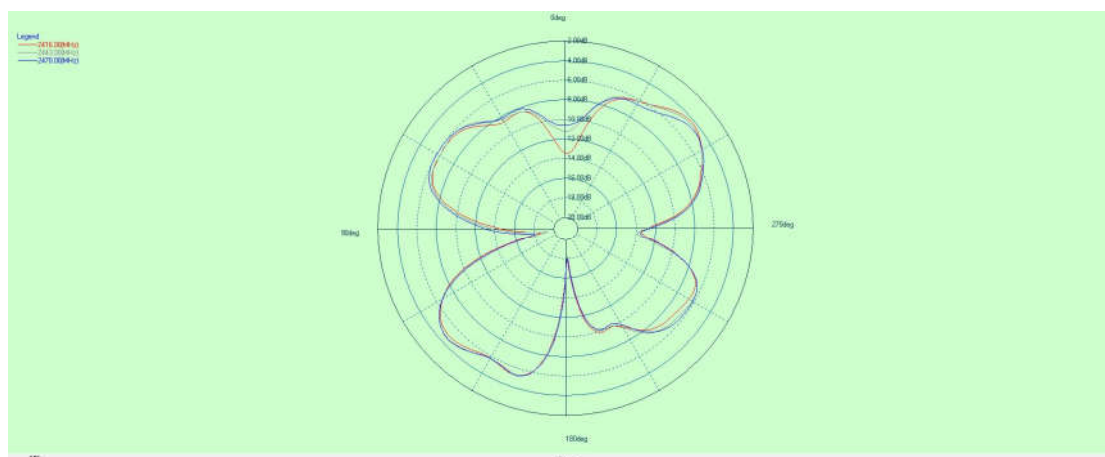
2443MHz:



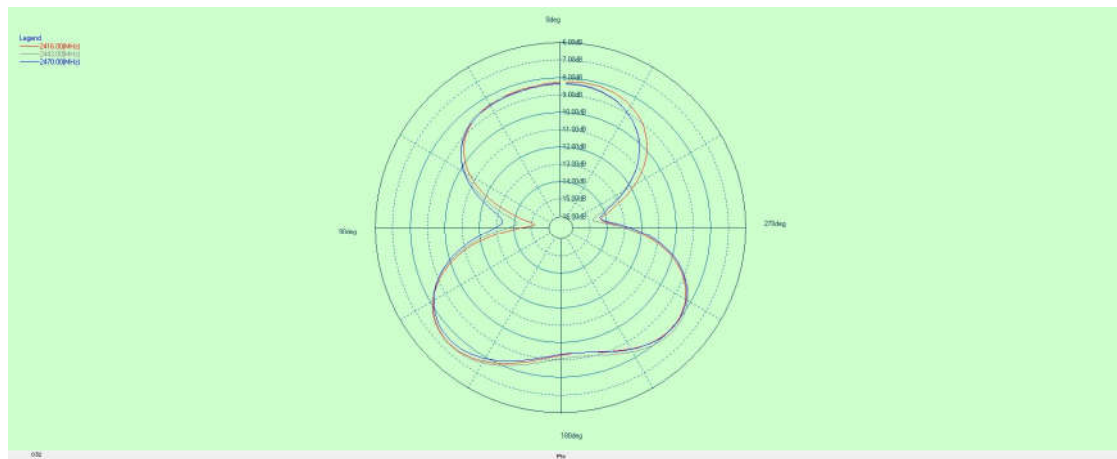
2470MHz:



Theta=0



Theta=90



Phi=90

-----The end-----