



Report number:
SZ21050128E01

test report

Applicant: Shenzhen Vili Valley Wireless Technology Co., LTD

Sample name: FRP antenna

Model: 902MHz-930MHz

trademark:NA

brand:NA

Test standard: GB/T 9410-2008

Date of receipt: 2021-05-13

Test date: 2021-05-13

Issue date: 2021-05-17



authorized
strength:

A handwritten signature in black ink, appearing to read "柯志清".

Ke Zhiqing

sign and
issue:

A handwritten signature in black ink, appearing to read "池世伦".

Chisholm

Note: This report is issued by Moore Laboratory and shall not be reproduced without the written permission of Moore Laboratory. The test results in this report are applicable only to specific samples and specific tests, and the information in this report can be verified and confirmed on our website.

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edition	date	Reason for change
1.0	2021-05-17	editio princeps

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1. Basic information

Note: Provided by the applicant and the manufacturer.

1.1. Information on the applicant and manufacturer

Applicant:	Shenzhen Vili Valley Wireless Technology Co., LTD
Applicants address:	Shenzhen Baoan Xixiang Peach Blossom Spring Science and Technology Innovation Park, one branch, three floors
manufacturer:	N/A
Manufacturer address:	N/A

1.2 Sample information

frequency range:	902MHz-930MHz
Polarization mode:	N/A

remarks:

1. For detailed information on samples, please refer to the instructions provided by the applicant or manufacturer.

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2. Test results

2.1 References

Main reference document for testing:

order number	document name	Document title
1	GB/T 9410-2008	General technical specifications for mobile communication antennas

2.2 Sample testing conditions

During the test, the environmental conditions are within the listed range:

temperature (° C):	10-30
relative humidity (%):	25-75

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3. Test result list

3.1 Gain and roundness

frequency	Antenna gain (dBi)	roundness (dB)
902MHz	5.42	1.80
904MHz	5.61	1.81
906MHz	5.60	1.76
908MHz	5.56	1.73
910MHz	5.53	1.66
912MHz	5.57	1.61
914MHz	5.74	1.55
916MHz	6.03	1.51
918MHz	6.09	1.47
920MHz	6.04	1.41
922MHz	5.95	1.36
924MHz	5.83	1.32
926MHz	5.81	1.35
928MHz	5.77	1.36
930MHz	5.69	1.37

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3.2. Efficiency

frequency	productivene ss
902MHz	74.02%
904MHz	76.58%
906MHz	76.34%
908MHz	74.85%
910MHz	74.11%
912MHz	74.09%
914MHz	76.16%
916MHz	78.27%
918MHz	79.42%
920MHz	79.10%
922MHz	77.99%
924MHz	76.85%
926MHz	76.56%
928MHz	77.45%
930MHz	78.16%

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3.3 Half power wave velocity width

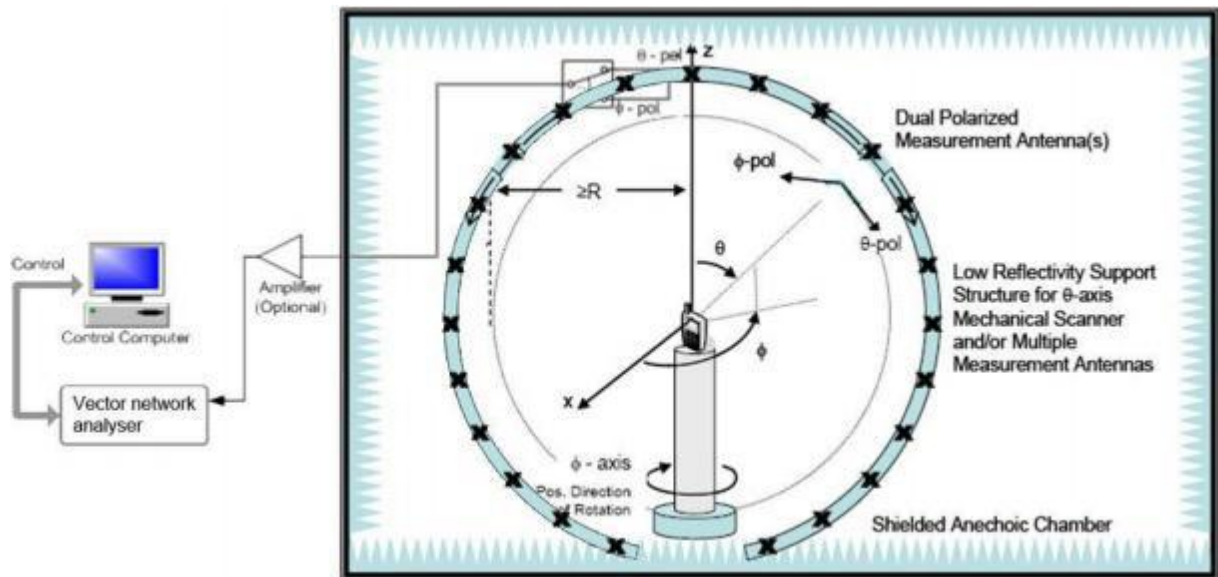
frequency	Half power wave velocity width (degree)	
	Phi=0	Theta=90
902MHz	24.05	23.59
904MHz	24.09	23.85
906MHz	24.24	24.18
908MHz	24.26	24.56
910MHz	24.24	23.97
912MHz	24.20	21.58
914MHz	24.10	21.61
916MHz	26.15	21.61
918MHz	26.19	21.61
920MHz	26.24	21.60
922MHz	28.24	21.66
924MHz	28.18	21.75
926MHz	28.31	21.86
928MHz	26.25	21.95
930MHz	26.45	21.96

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Annex A Test system connection



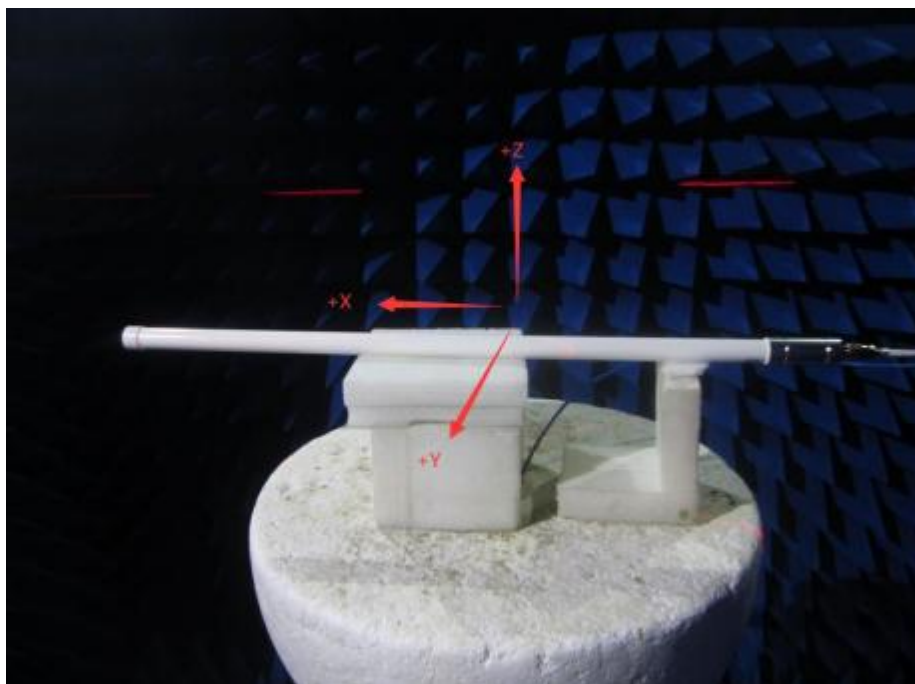
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Annex B, sample photos

1. Test environment



2. Appearance of samples



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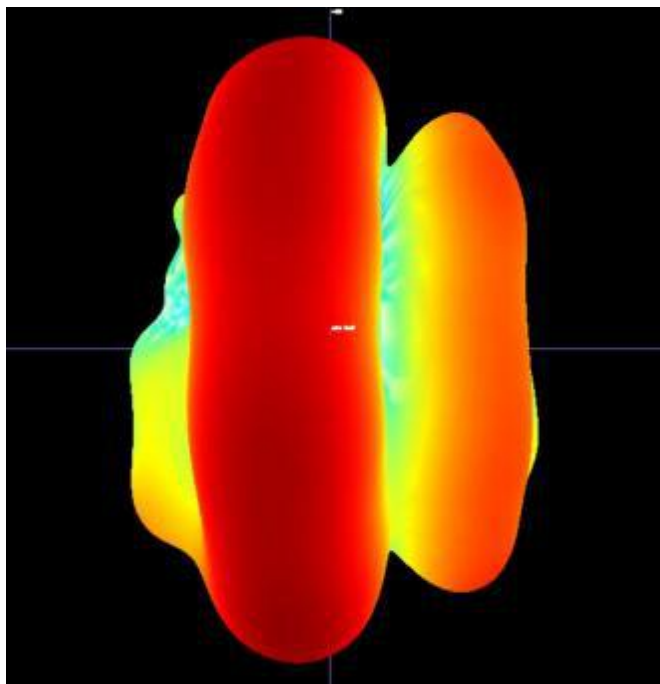
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Website:

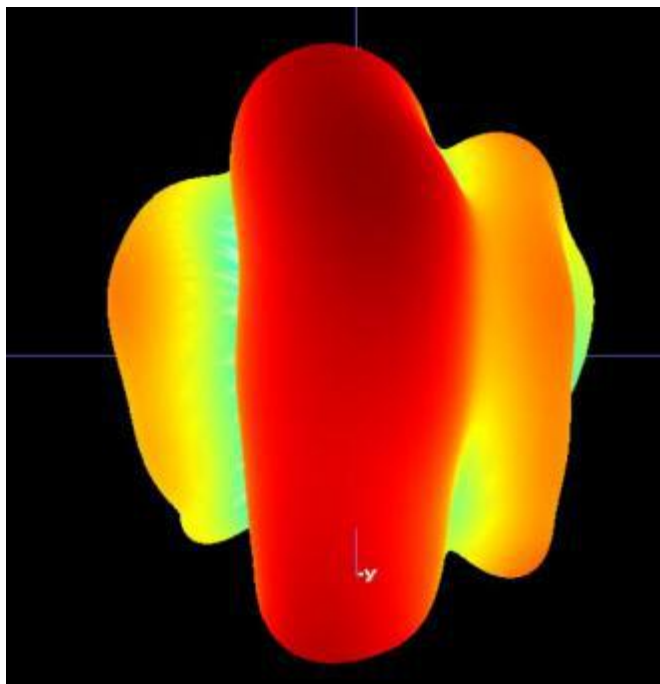
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Annex C Test Antenna Radiation Diagram

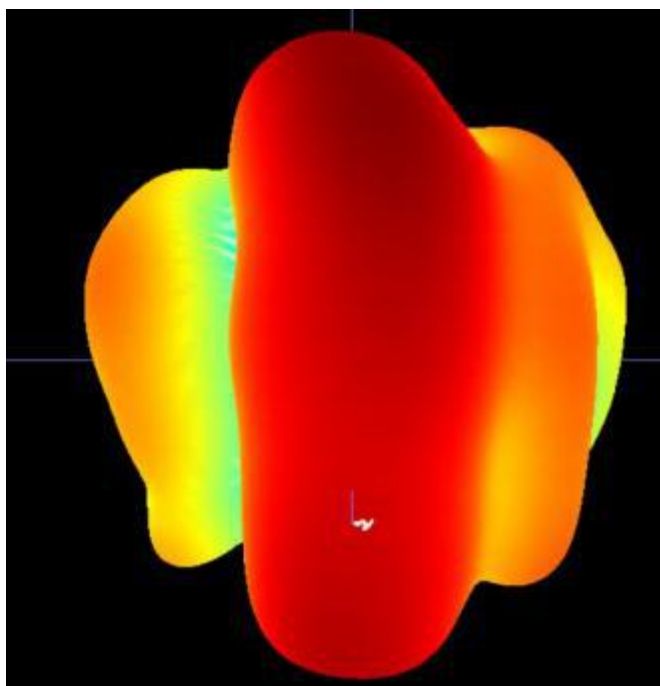
a)3D graph



902MHz



916MHz

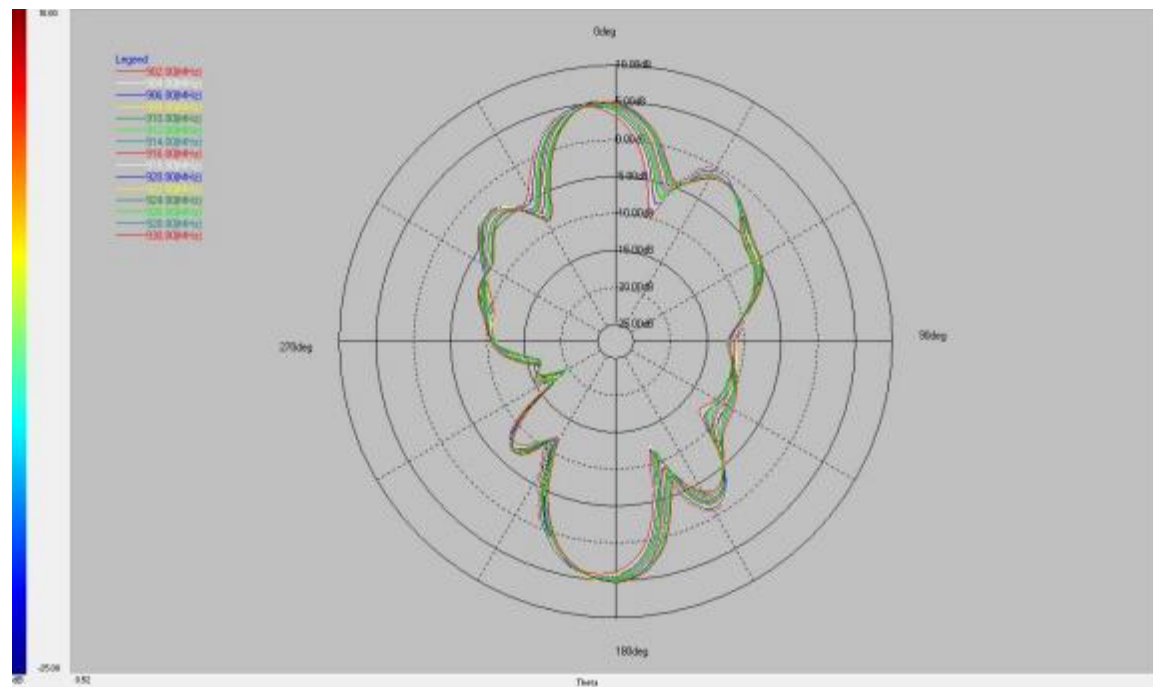


930MHz

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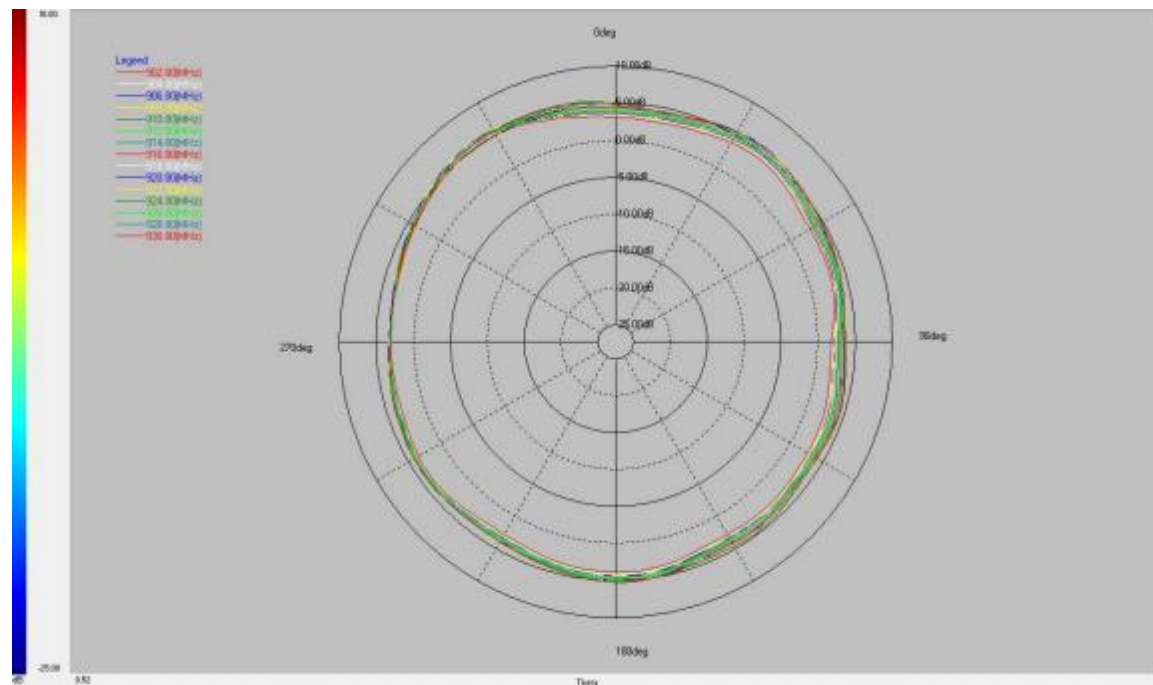
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b) $\Phi=0$ degrees



XZ plane

c) $\Phi=90$ degrees

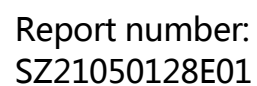


YZ surface

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d) Theta=90 degrees



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Annex D Information on testing institutions

1. List of test equipment

device name	manufacturer	model	serial number
network analyzer	Agilent	E5071C	MY46214666
4*4*4, full wave dark room	SATIMO	4*4*4	N/A
SG24 Antenna Test System	SATIMO	SG24	N/A

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matters need attention

1. The report is invalid without the seal of the testing unit.
2. The report is invalid without the signature of the preparer and the signatory.
3. The report is invalid if it is altered.
4. If you have any objection to the test report, please report to the testing unit within 15 days from the date of receipt of the report.
5. "P" means "the test result meets the requirements", "F" means "the test result does not meet the requirements", "N/A" means "the requirements do not apply to the product", and "/" means "not tested".

Basic information of the test laboratory

Name of laboratory:	Shenzhen Moore Universe Communication Technology Co., LTD-Moore Laboratory
Laboratory address:	No.8 Longchang Road, Baocheng 67 District, Baoan District, Shenzhen City, Floor 1-3, Building A, Flying Science and Technology Park
telephone:	+86 755 36698555
portraiture:	+86 755 36698525

Address where testing is to be conducted

name:	Shenzhen Moore Universe Communication Technology Co., LTD-Moore Laboratory
address:	No.8 Longchang Road, Baocheng 67 District, Baoan District, Shenzhen City, Floor 1-3, Building A, Flying Science and Technology Park

The report is closed

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