

Testing Report

Customer Name: JETI model s.r.o.

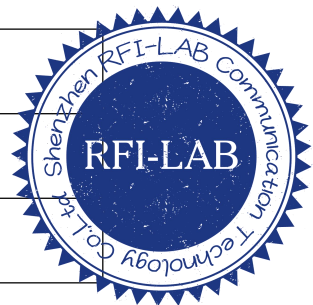
Product Name: 900MHz Antenna

Sample Model: DS-16 II

Reference Standard: *GB/T 9410-2008; ANSI/IEEE Std 149-2021*

Issue Date: 2022.12.6

Engineer: Jackson	Date: 2022.12.6
Auditor: Eason	Date: 2022.12.6
Approver: Janson	Date: 2022.12.6



Version

Version No.	Date	Description	Formulate	Approval
A0	2022.12.6	For the first time, formulate	Jackson	Eason

Contents

1.General Information	3
1.1 General information of testing institutions	3
1.2 Testing principle	3
1.3 Test equipment	4
1.4 Test environment	4
1.5 Statement	4
2.Sample Information	5
2.1 Client information	5
2.2 Description of EUT(S)	5
2.3 EUT appearance	6
2.4 EUT setup photo of free space OTA testing	6
3.Test Results	7
3.1 Test standard	7
3.2 Test uncertainty	7
3.3 Test data	8
3.3.1 Typical free space efficiency and gain	8
3.3.2 Typical free space radiation pattern	8
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1.General Information

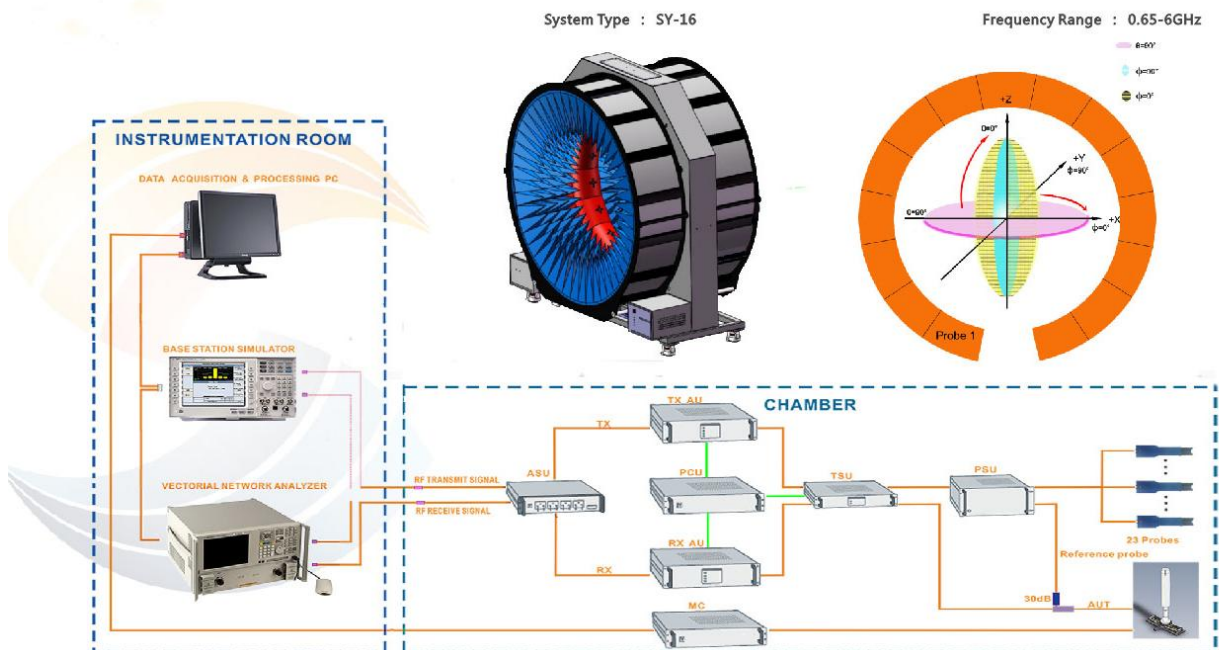
1.1 General information of testing institutions

Name	Shenzhen RFI-LAB Communication Technology Co., Ltd.
Address	/
Tel	/
E-mail	/
Equipment	All the equipment used in the report is fixed in 10/F A, Lingyun Bld, Liufang Rd, Baoan District, SZ

1.2 Testing principle



Multi-Probe OTA Measurement System



1.3 Test equipment

Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
16 probe microwave chamber	3*3*2.5	RFI-LAB-RF-A00	SUNYIELD	2021.3.15	2023.3.14
Network Analyzer	E5071C	RFI-LAB-RF-A02	Agilent	2022.5.13	2023.5.12

1.4 Test environment

Temperature	23.2°C
Humidity	59%RH
Pressure	100.20kPa

1.5 Statement

- (1) The test results in the report are only applicable to the tested samples and the tested samples work under the environment described in the report.
- (2) Only Shenzhen RFI-LAB Communication Technology Co., Ltd. have the right to modify the report, and the modification information shall be annotated in the revision form.
- (3) Any objection to this report shall be raised within 30 days after formal confirmation of the report.
- (4) This report is invalid if there is any evidence that the sample information provided is falsified.
- (5) The report is invalid without the signature of the auditor and approver.

2.Sample Information

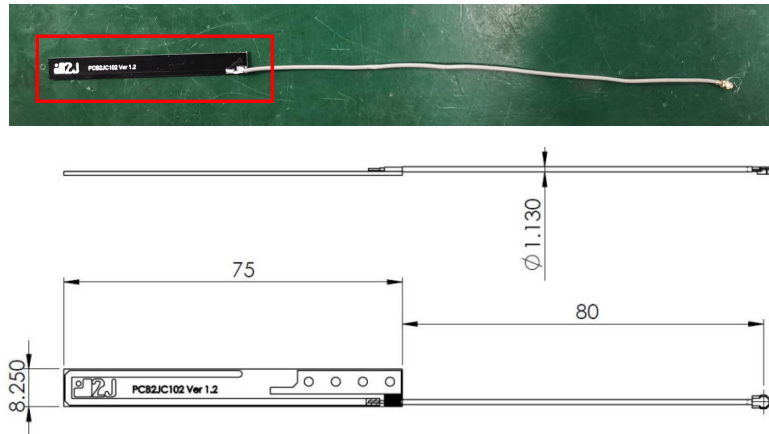
2.1 Client information

Name	JETI model s.r.o.
Address	Lomena 1530, Pribor, 74258 Czech Republic
Contacts	/
Tel	/
E-mail	/

2.2 Description of EUT(S)

Product Name	900MHz Antenna
Sample Model	DS-16 II
Antenna Size	8.25*75mm
Antenna Type	PCB antenna
Serial No.	/
Test Item	Antenna gain; Efficiency; Radiation pattern
Frequency Range	900MHZ-930MHZ
Received Date	2022.12.5
Test Date	2022.12.6
Remark	/

2.3 EUT appearance

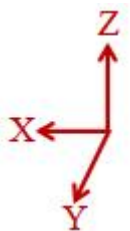
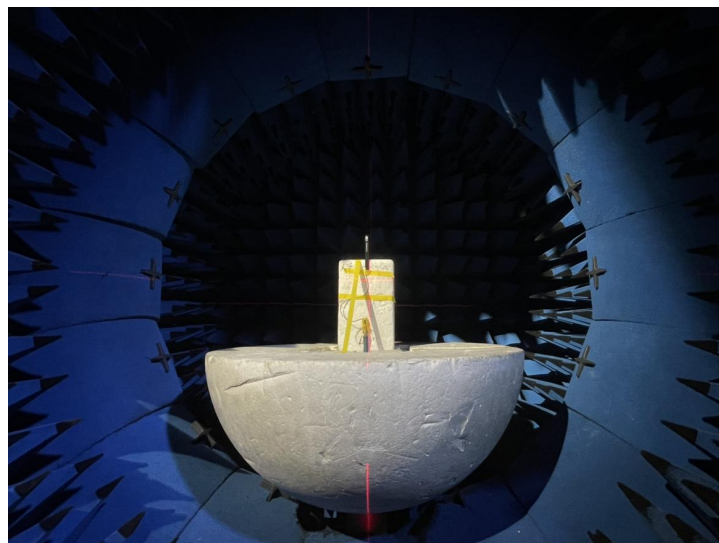


2.4 EUT setup photo of free space OTA testing

Planform



Front view



3. Test Results

3.1 Test standard

Name	Parameter	Method	Standard no.
Mobile communication antenna	Antenna gain	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Radiation pattern		
Antenna	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-2021
	Gain and directivity		

3.2 Test uncertainty

The uncertainty was calculated on the basis of the GUM published by ISO, using the inclusion factor of $K=2$ and the 95% confidence level to express the extended uncertainty.

Item	Uncertainty
Antenna gain	$\pm 1\text{dB}$
Radiation efficiency	$\pm 10\%$

3.3 Test data

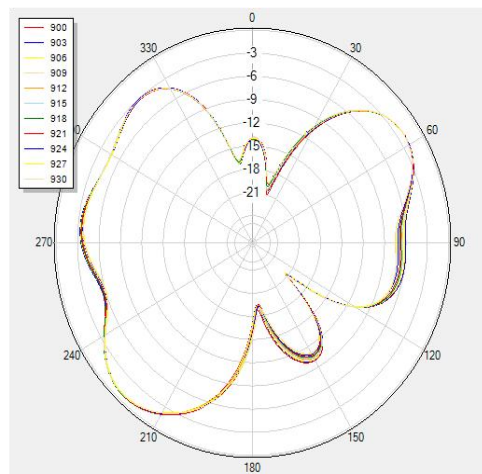
3.3.1 Typical free space efficiency and gain

Frequency/MHz	900	903	906	909	912	915	918	921	924	927	930
Peak Gain/dBi	-0.78	-0.73	-0.73	-0.71	-0.71	-0.61	-0.60	-0.65	-0.74	-0.76	-0.65
Efficiency/%	34.57	34.70	34.42	34.42	33.90	34.50	34.46	34.08	33.39	32.97	33.41

3.3.2 Typical free space radiation pattern

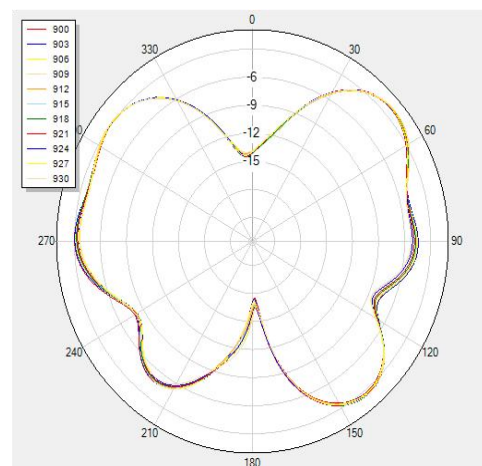
(1) X-Z Plane:

V Phi=0



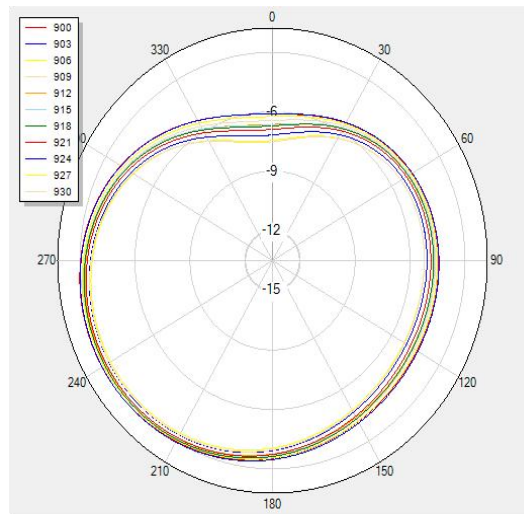
(2) Y-Z Plane:

V Phi=90

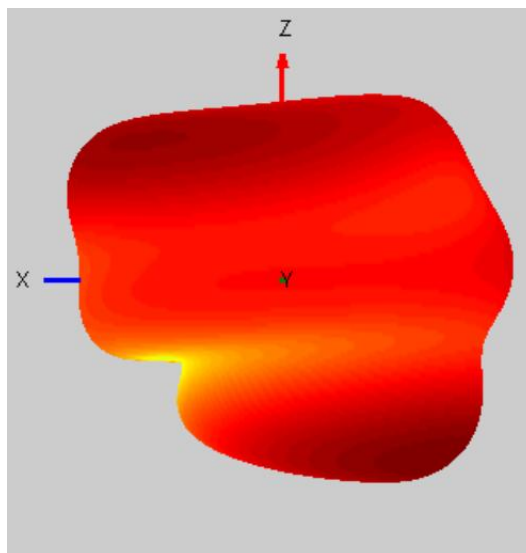


(3) X-Y Plane:

H Theta=90



(4) Typical Free Space 3D Radiation Pattern at 915MHz:



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