

规格承认书

SPECIFICATION FOR APPROVAL

日期
DATE: 2025.09.26

版本
REV.: V1.0

客 户
CUSTOMER:

Asiatelco Technologies Co. Ltd.

客 户 料 号

CUSTOMER P/N:

品 名
PART NAME:

SPL1304 (LoRa Antenna)

供 方 料 号
SUPPLIER P/N:

W03-1028-R0A

送样日期 Date:

送样数量 Q'TY:

Pcs

客户确认 CUSTOMER APPROVED BY		
工程研发部	生产采购部	承认
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

供方确认 SUPPLIER SIGNATURE		
研发部	工程部	批准
ENGINEER R&D DEPT	ENGINEER R&D DEPT	APPROVAL

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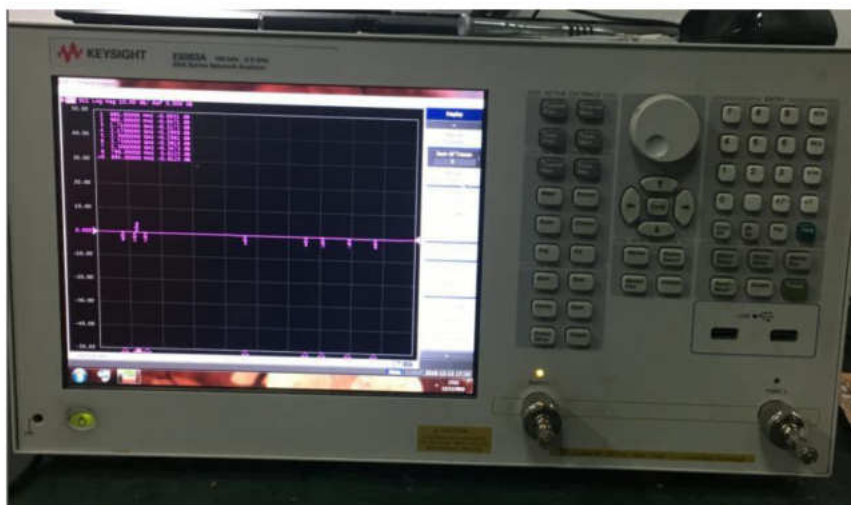
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1.RF Fixture Experiment

1.1 Test Setup

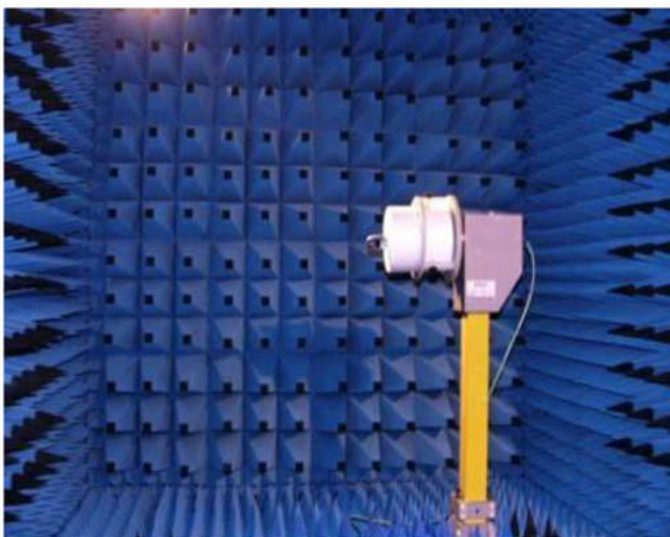
1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S11) were performed using an KeySight E5071C Network Analyzer. The isolation between antennas is also teste. The testing was performed with apparatus in free space.



1.1.2 Anechoic Chamber Test Setup

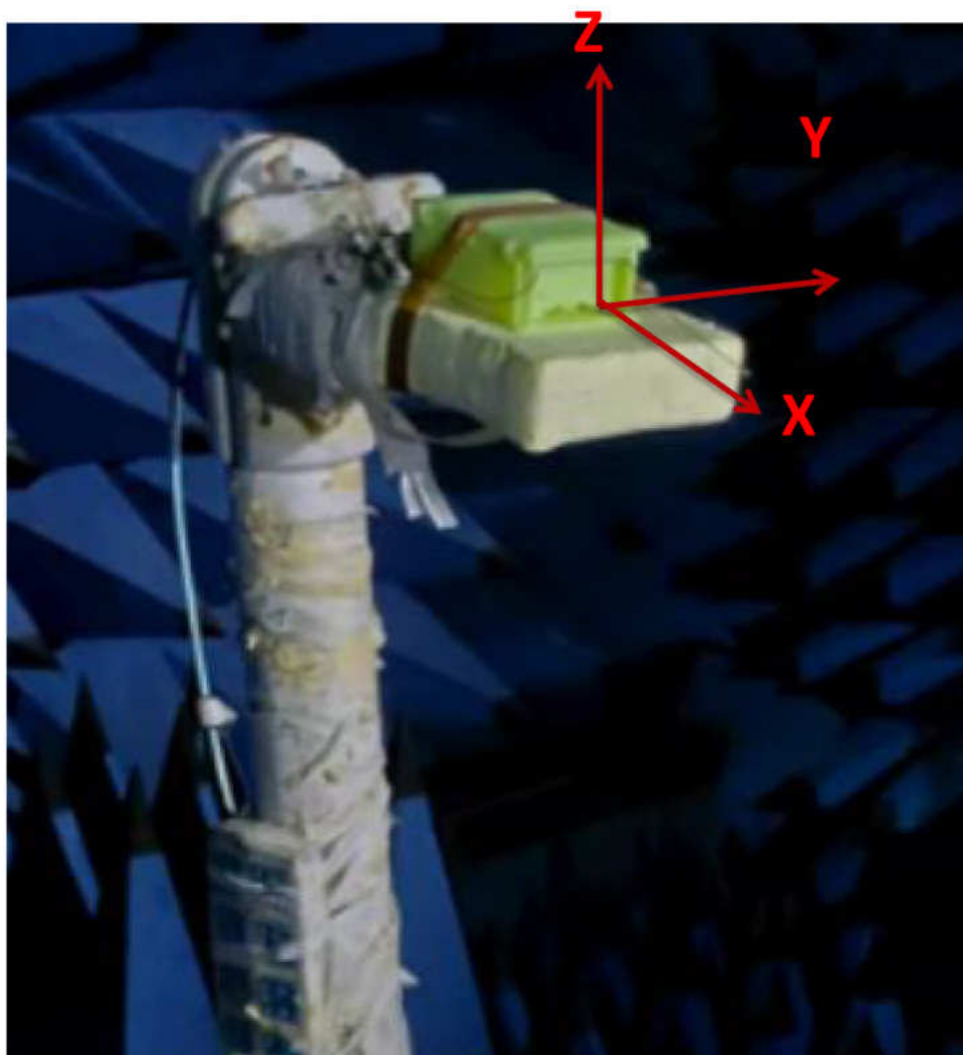
When we test Gain and Efficiency of the antenna, we will use the ETS 3D chamber. The chamber provides test frequency from 400MHz to 6GHz. The real test environment is showing as following picture



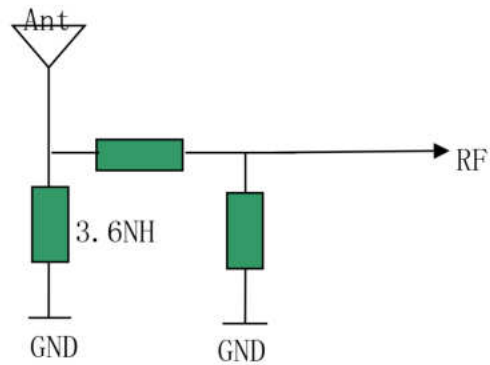


1.2 UE configuration

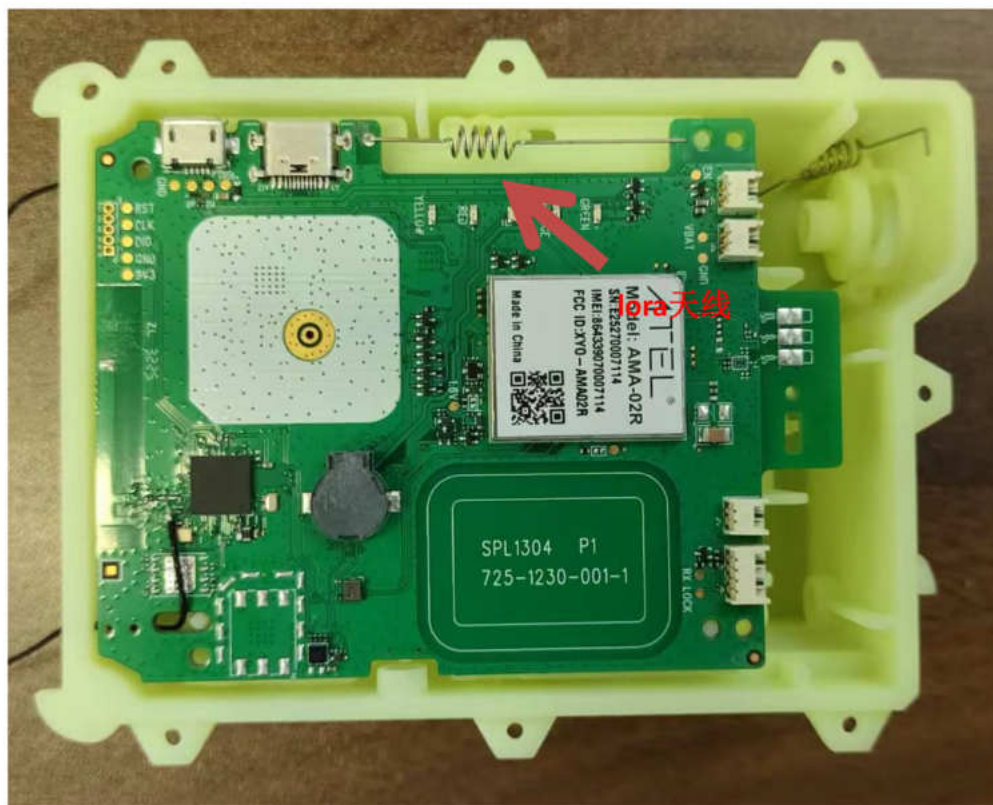
1.2.1 Antenna location pictures



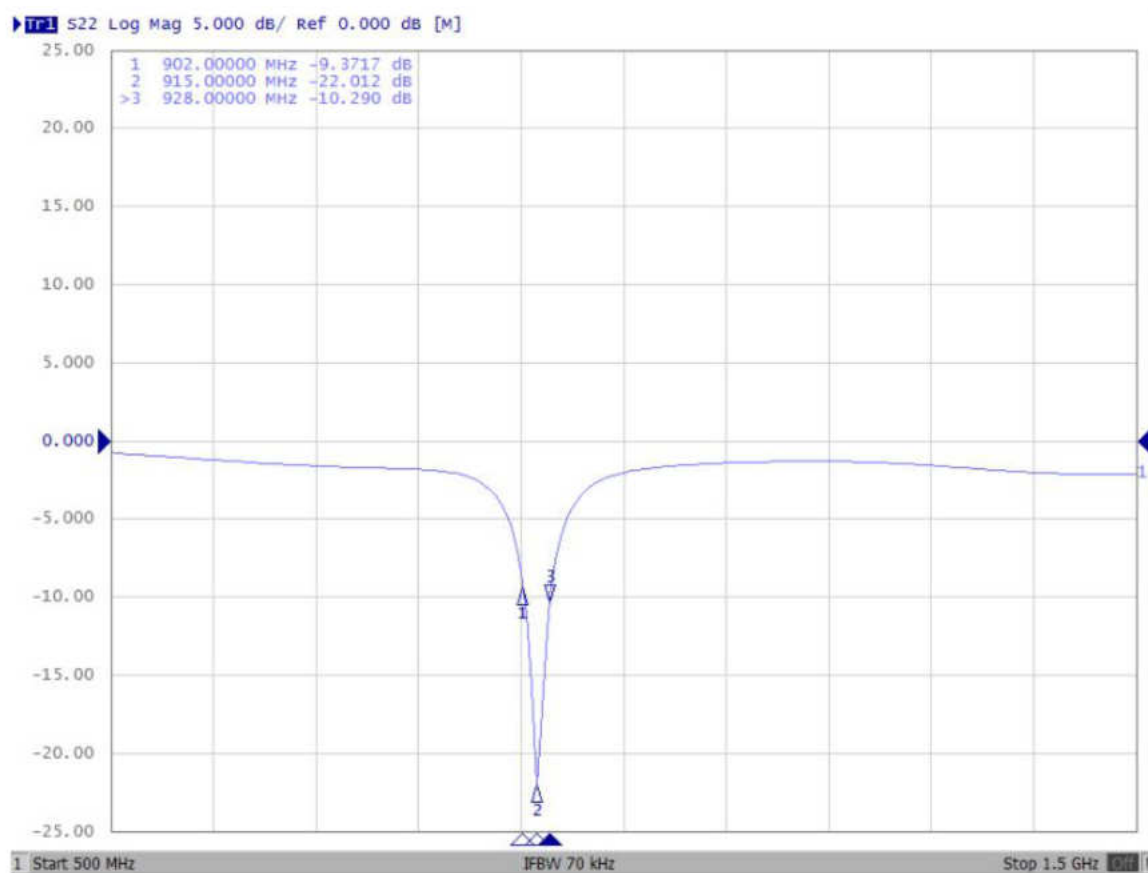
1.2.2 RF matching for different antennas



1.2.3 Physical figure



2.S11



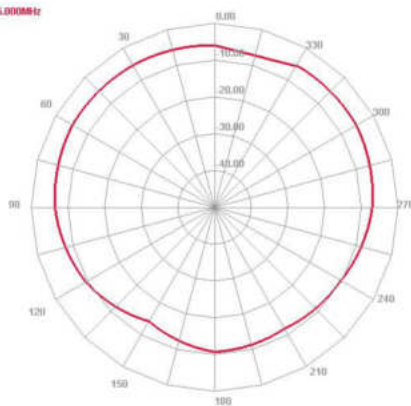
3. Peak Gain & Efficiency

Frequency (MHz)	Gain(dBi)	Efficiency (%)
902	-1.15	30.19
903	-1.24	30.16
904	-1.26	30.07
905	-1.34	29.9
906	-1.37	30.06
907	-1.35	30.12
908	-1.33	30.3
909	-1.42	30.52
910	-1.38	30.77
911	-1.37	30.88
912	-1.28	31.15
913	-1.23	31.41
914	-1.25	31.62
915	-1.34	31.68
916	-1.38	31.67
917	-1.25	31.65
918	-1.35	31.61
919	-1.39	31.38
920	-1.38	31.12
921	-1.3	30.85
922	-1.36	30.39
923	-1.45	30.12
924	-1.49	29.94
925	-1.43	30.05
926	-1.45	29.88
927	-1.51	29.84
928	-1.55	29.73

4. 2D

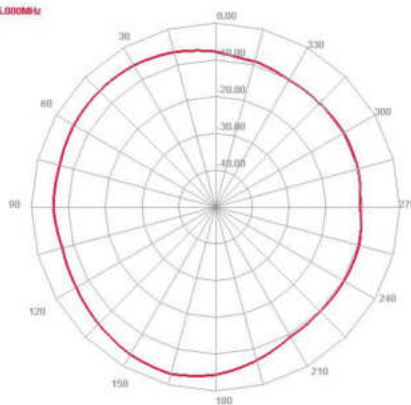
Horizontal

915.000MHz



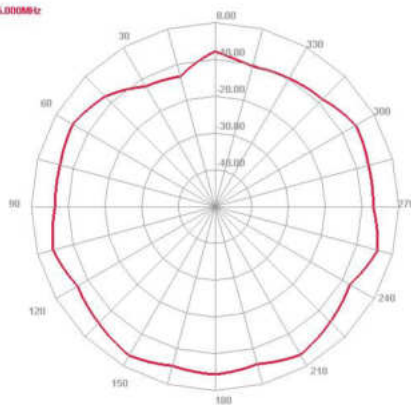
E1 Face

915.000MHz

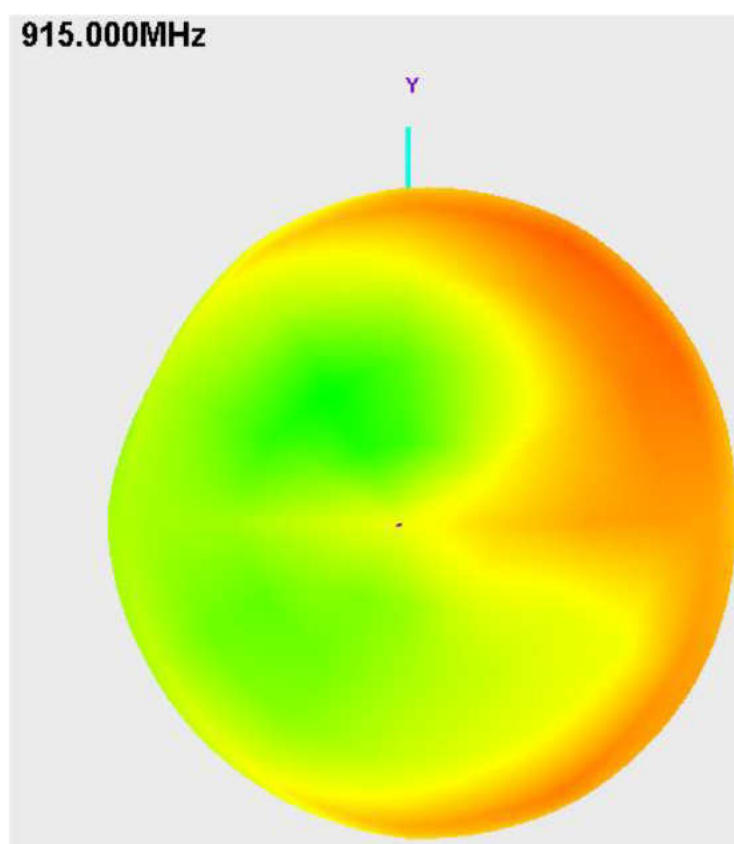


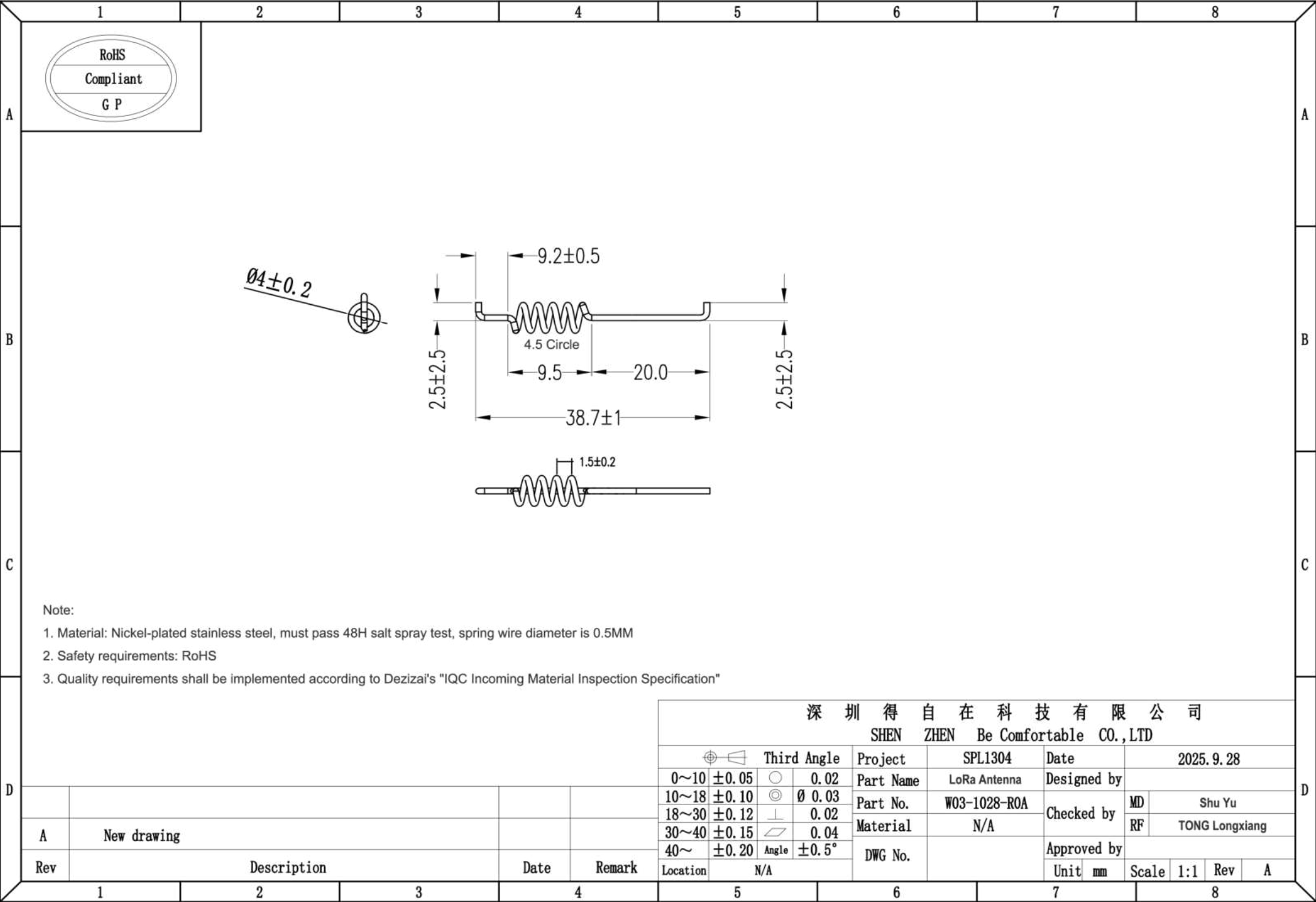
E2 Face

915.000MHz



5. 3D





Product Packaging Standards

Date: 2025.9.26

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Rev: A

Product Name: SPL1304 LoRa Antenna

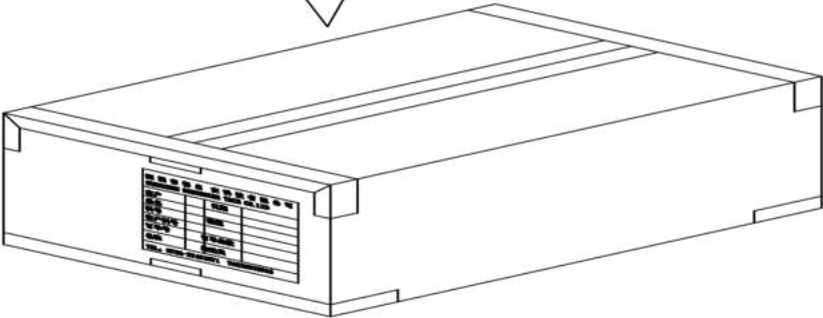
1) Product



2) Packed in PE bags, 50 pieces per bag



3) Pack into one box, subject to the actual packaging.



4) Seal the box, and attach the production label and RoHS label on the outer box

Approve: _____

Confirm: _____

Write: Shu Yu