QUBE 6015

UHF RFID Antenna

Specification

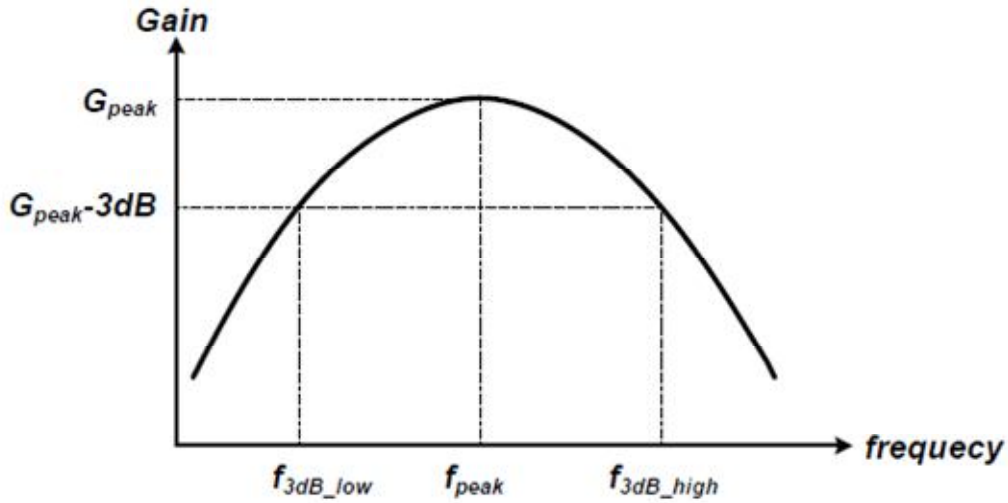
1. Part Name

KSA-921A6015B100B

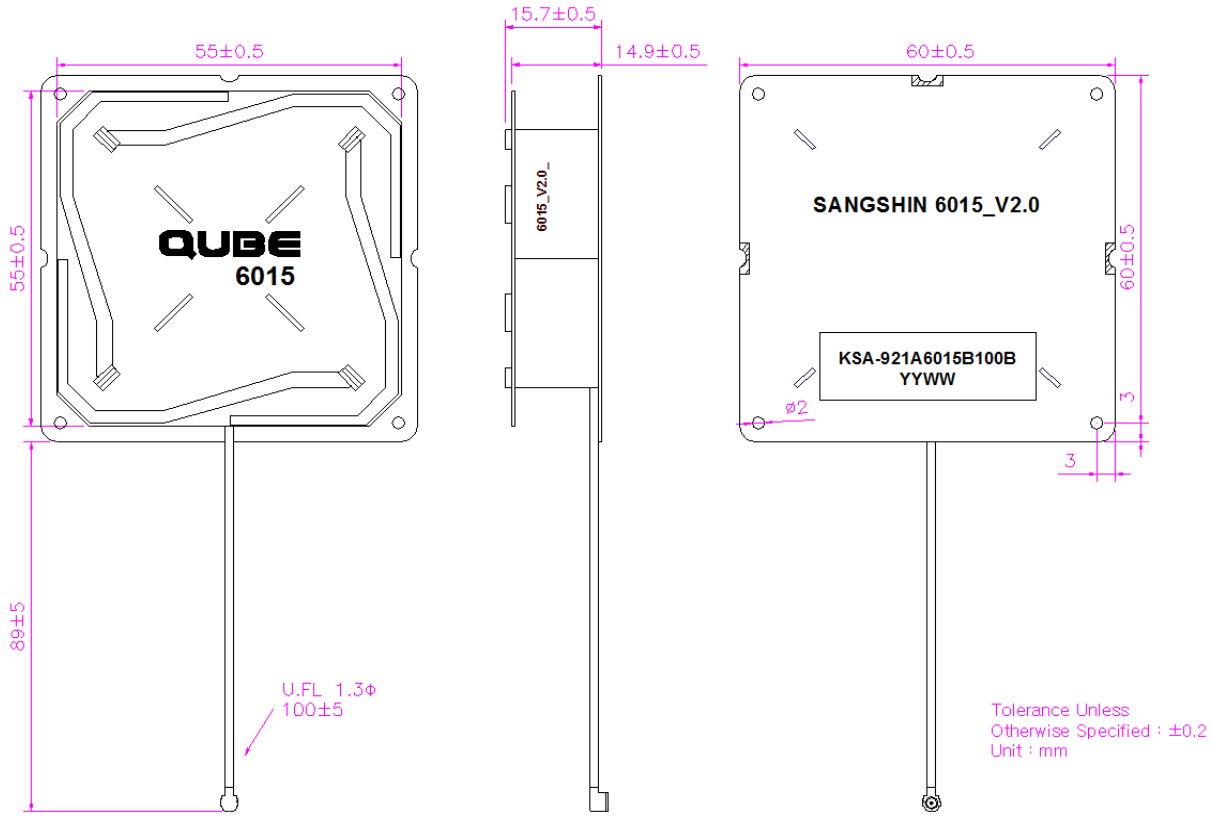
2. Electrical Specifications

Item	Specifications			
	Min.	Typical	Max.	Unit
Center Frequency (= Fc)	917	921	925	MHz
Operating Frequency	Fc ± 13	Fc ± 15		MHz
Return Loss @ Operating Frequency			-15	dB
Polarization		R.H.C.P		
Peak Gain @ Fc (RHCP)	3.3	3.5		dBic
Axial Ratio @ Fc			1.3	
Beamwidth (@3dB)	80	100		degree
Impedance		50		Ω
Operating Temperature	-30		+70	℃
Weight		14.3		g

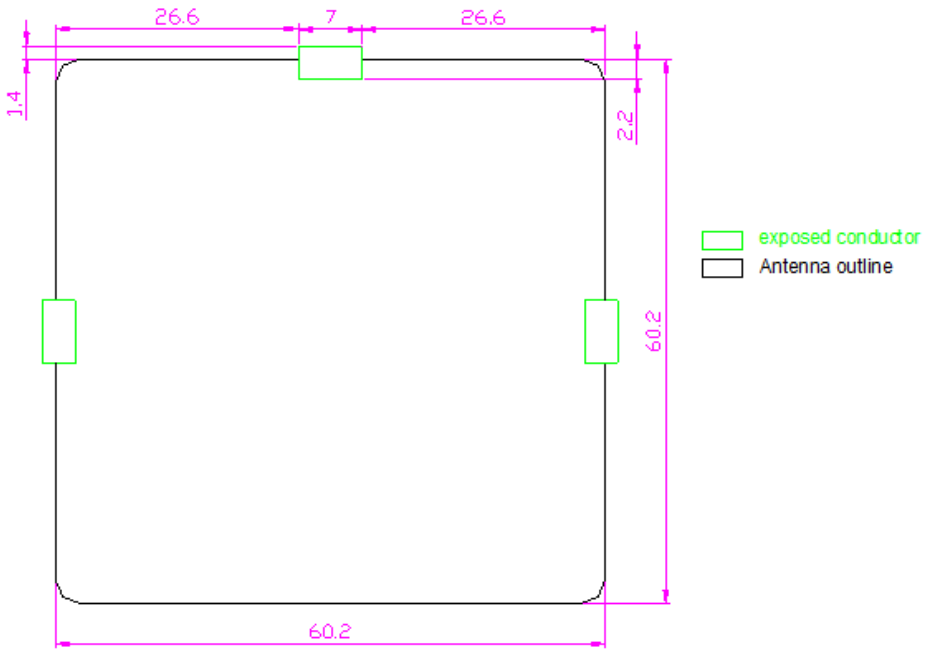
Note 1. Operating frequency is defined as frequency range between f3dB_low and f3dB_high.



3. Dimensions

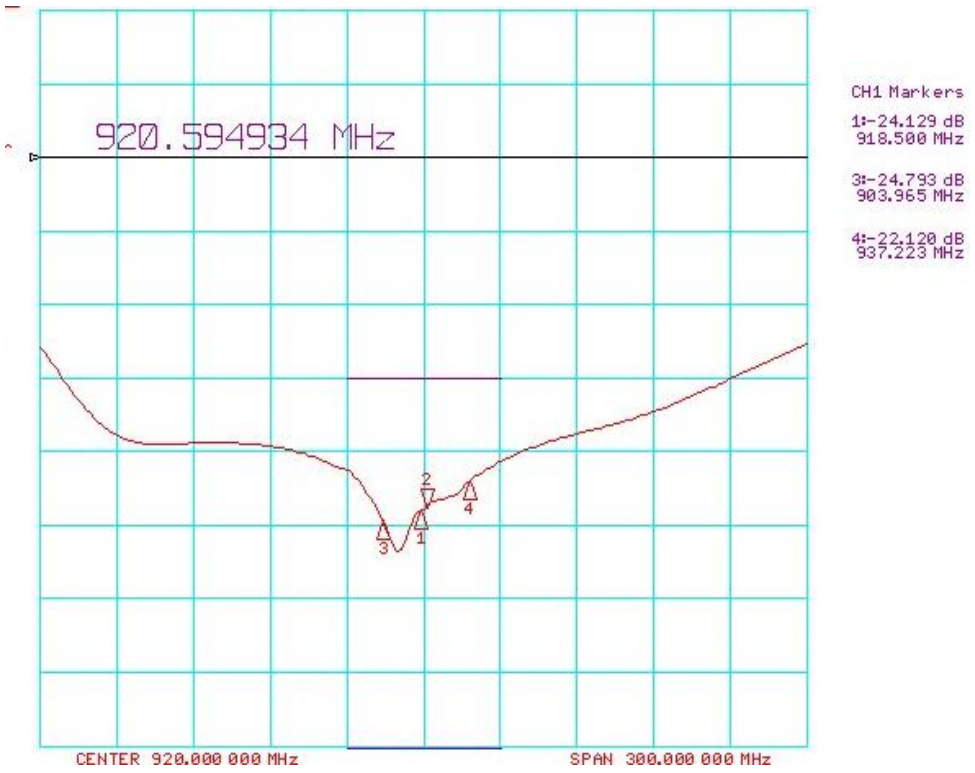


- Foot Print

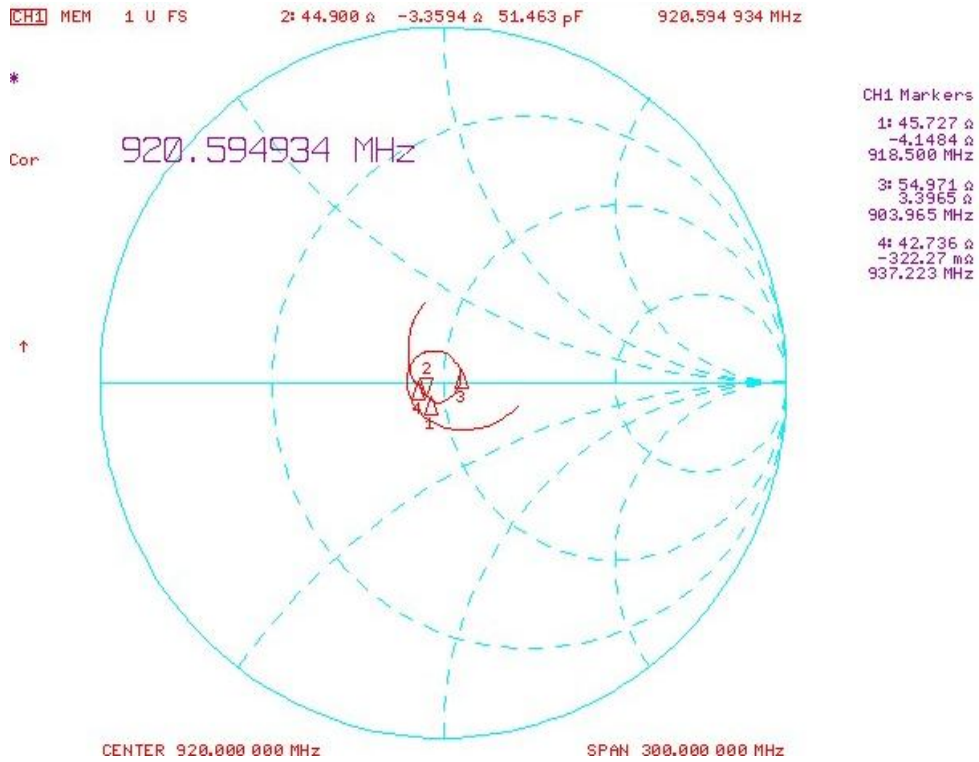


4. S-parameter Data

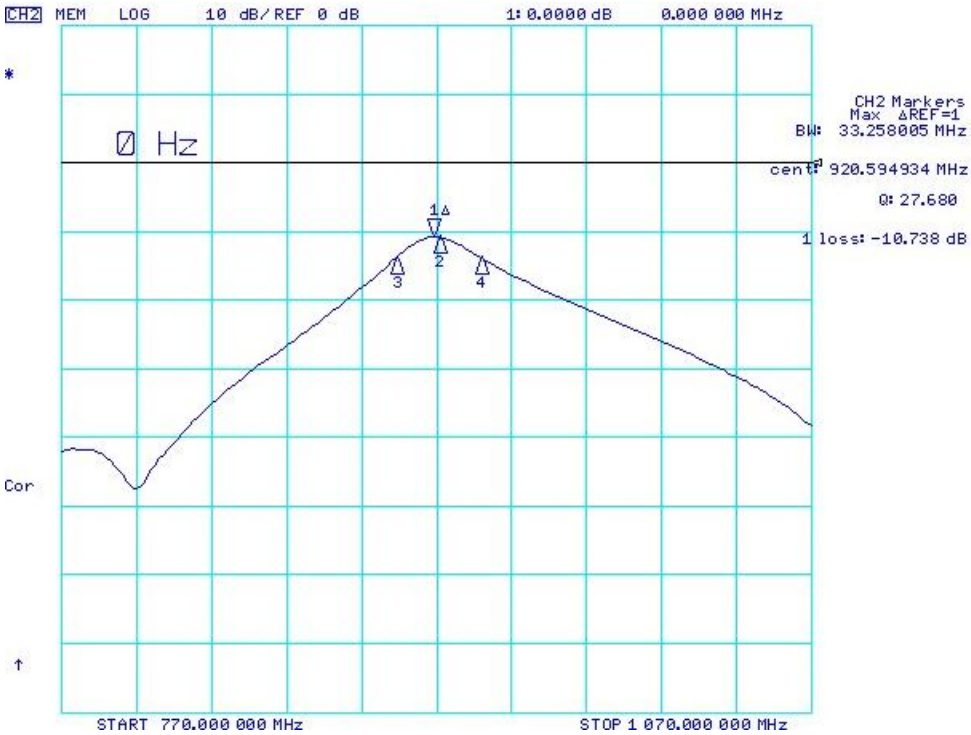
4.1 Return Loss (S11)



4.2 Smith Chart (S11)

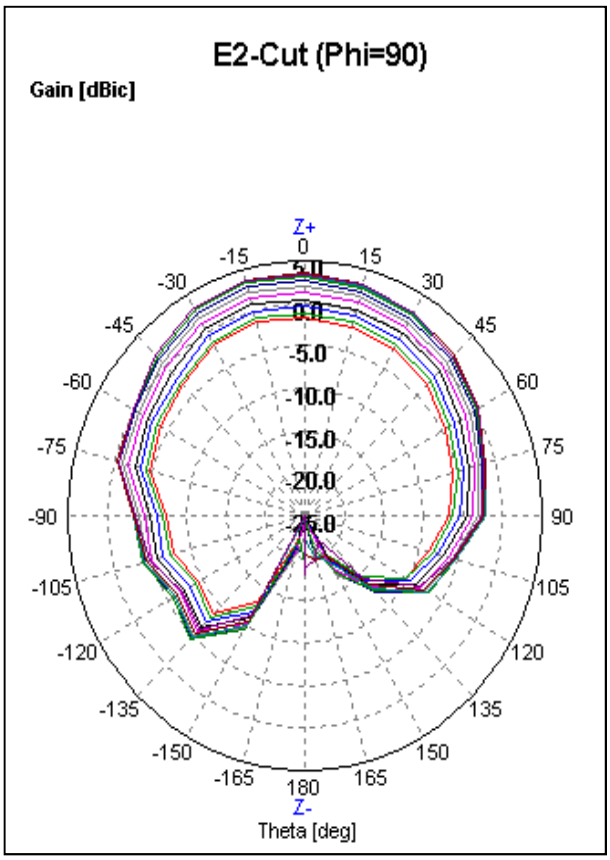


4.3 Gain (S21)


CH2 MEM LOG 10 dB/ REF 0 dB
1: 0.0000 dB 0.000 000 MHz
CH2 Markers
Max ΔREF=1
BW: 33.258005 MHz
cent: 920.594934 MHz
Q: 27.680
1 loss: -10.738 dB
Ø Hz
Cor
START 770.000 000 MHz
STOP 1 070.000 000 MHz

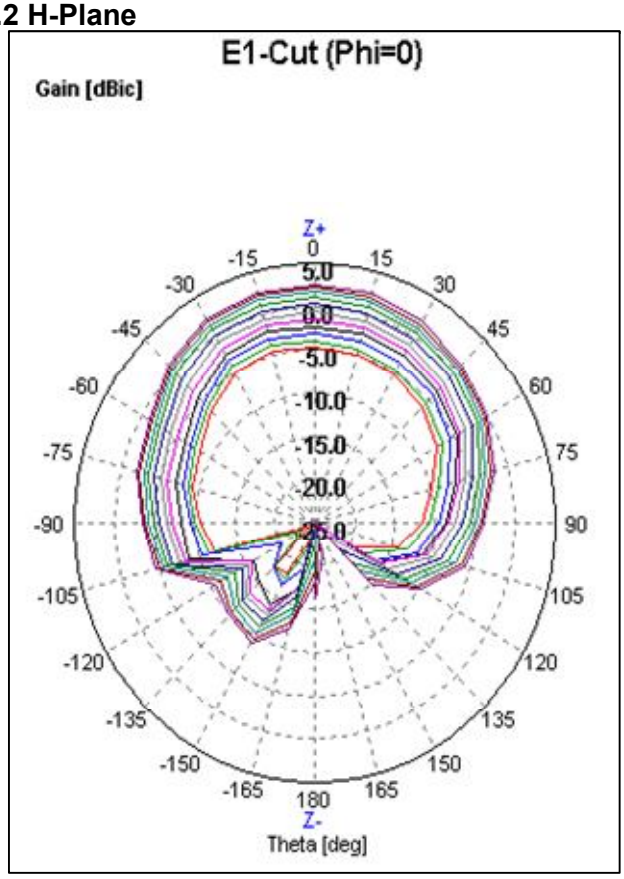
5. Antenna Chamber Data

5.1 E-Plane



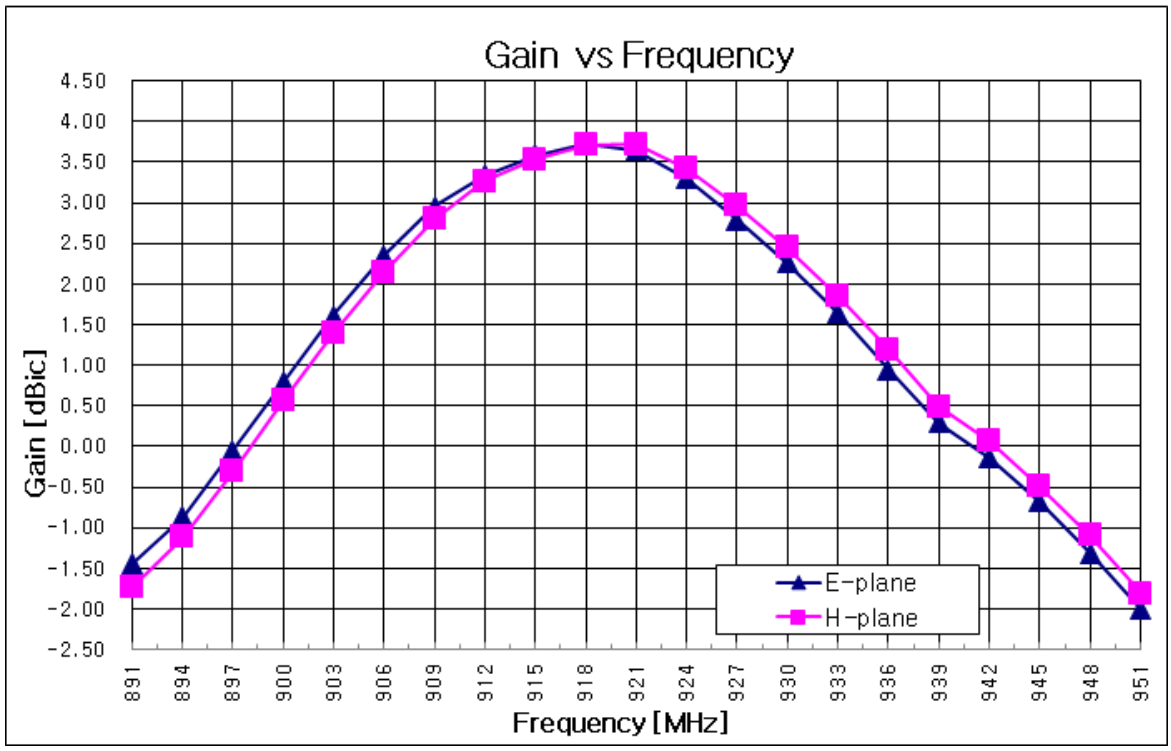
E - plane	
Frequency [MHz]	Gain [dBic]
891	-1.45
894	-0.87
897	-0.05
900	0.79
903	1.61
906	2.35
909	2.95
912	3.34
915	3.58
918	3.72
921	3.65
924	3.30
927	2.79
930	2.26
933	1.64
936	0.94
939	0.29
942	-0.14
945	-0.68
948	-1.31
951	-2.01

5.2 H-Plane



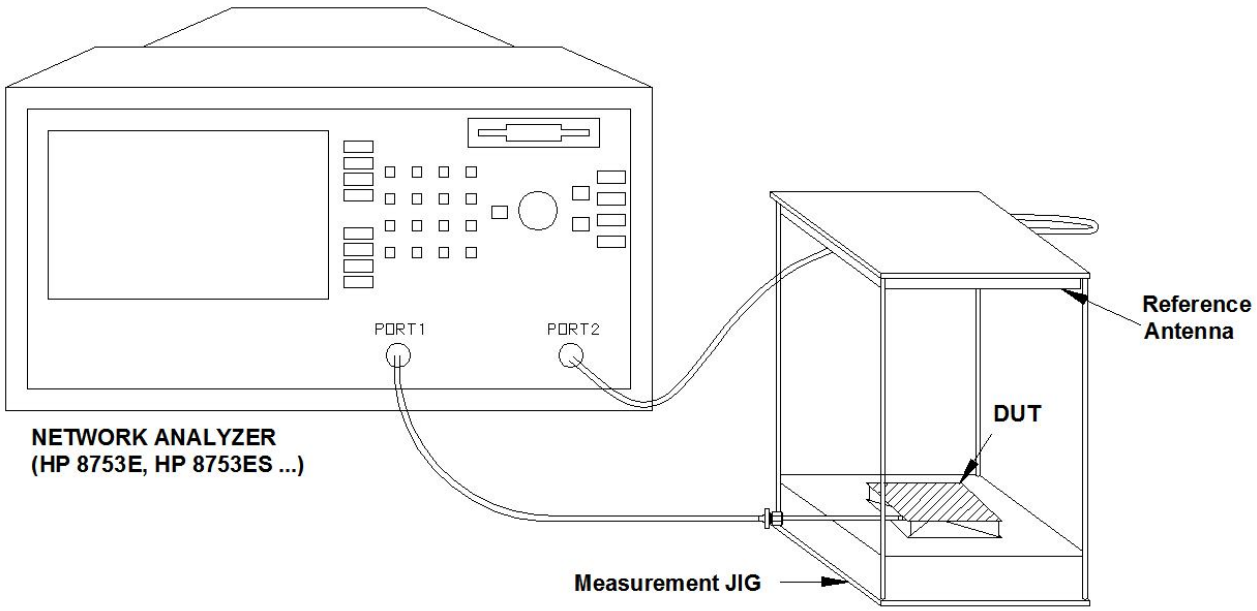
H - plane	
Frequency [MHz]	Gain [dBic]
891	-1.74
894	-1.12
897	-0.31
900	0.56
903	1.39
906	2.15
909	2.80
912	3.26
915	3.53
918	3.71
921	3.72
924	3.42
927	2.96
930	2.45
933	1.85
936	1.19
939	0.49
942	0.07
945	-0.49
948	-1.09
951	-1.81

5.3 Gain vs Frequency

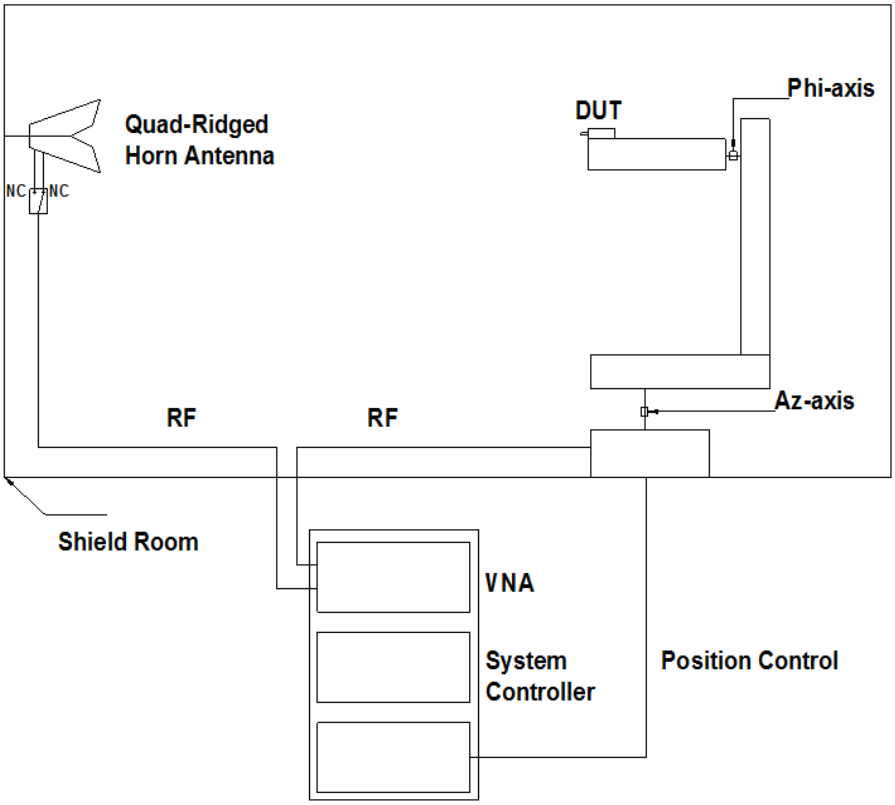


6. Measurement Condition

6.1 S-parameter Measurement



6.2 Gain Measurement



8.Revision

Revision No.	Originator	Description of Change	Date of Changes
0.2.0	SM Yun	Full specification	19-May-15

9.Address Information

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