

Specifications For Passive Antenna of
Porject MT918

Customer/Project	MT918 A7 Antenna		Frequency Band	2300-2600MHZ 5150-5850MHZ	
JHSCT P/N	F-KY-31-0080-000-K0		Version	V3.0	
Date	2024.06.17				
SPEED					
Checked by	RF	SXX	Design by	RF	LCX
	ME	WJ		ME	XYB
	QC		Remark		
Customer					
Date					
Confirmed by	RF				
	ME				

1. Project Overview

This document is the specifications of the MT918 with Passive antenna.

The antenna solution is to make LDS wiring on the outside of the exterior surface bracket. The installation position is shown in Figure 1 :

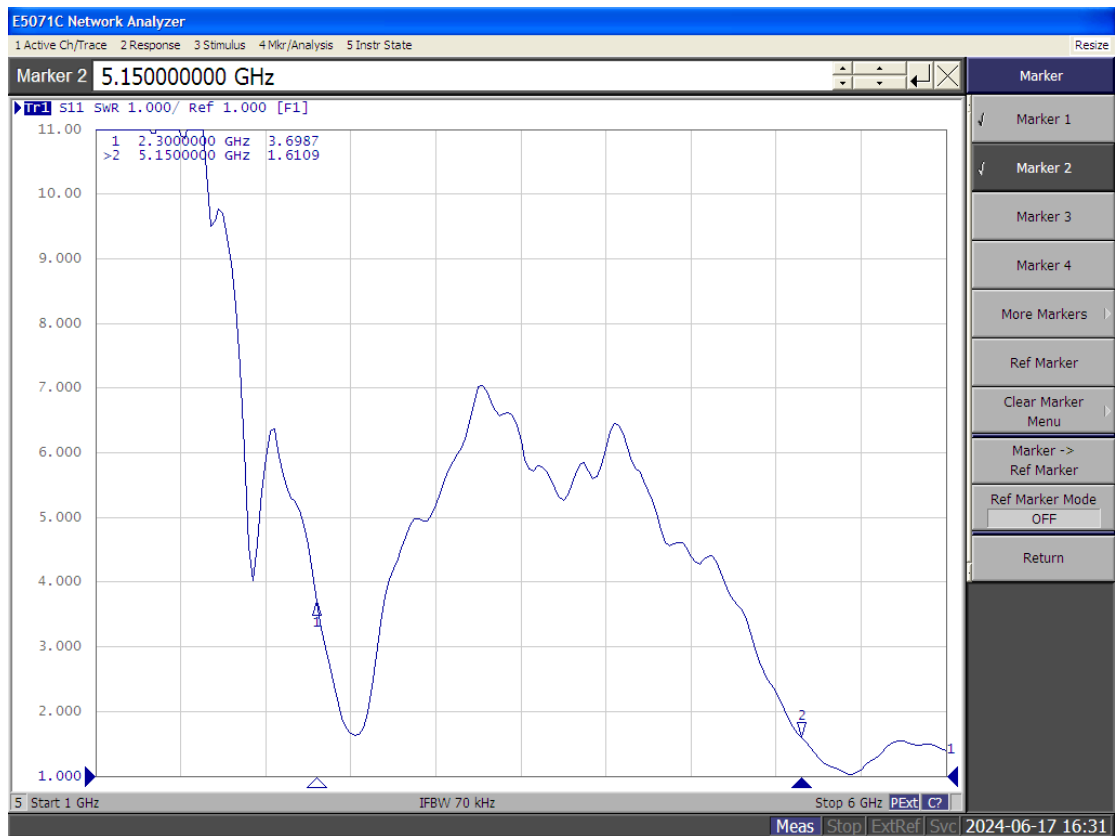


2. Antenna Specification

Antenna Form	Plastic Stent+LDS
Working Bands	2300-2600MHZ 5150-5850MHZ
Peak Gain	N/A
Efficency	> 30%
VSWR	<2
Impedance	500hm
Polarization	Linear polarization
A/R	N/A
Radiation Patten	Omnidirectional
Feed Mode	Pin
power capacity	33dBm
Size(L*W*H)	165mm*75mm*15mm
Weight	N/A
Operating temperature	-30 °C to +80 °C
Storage temperature	-30 °C to +80 °C

4 Test Results

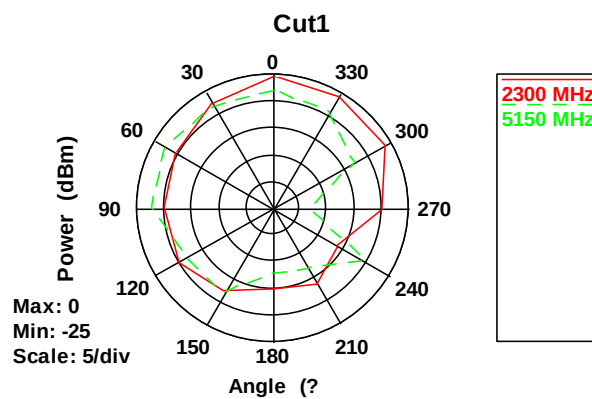
4.1 VSWR

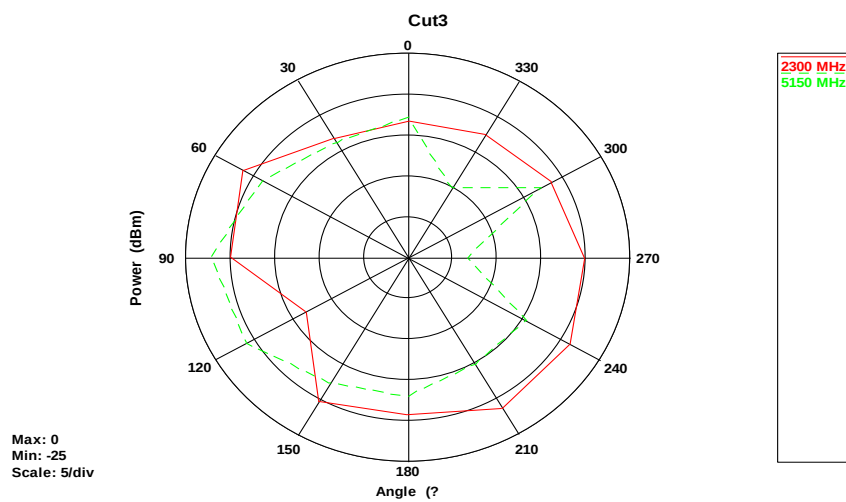
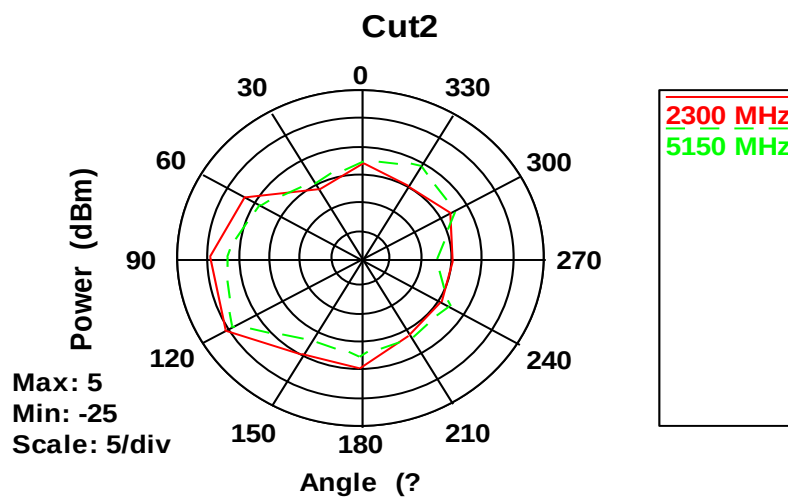


4.2 Passive Efficiency and Gain

Frequency	Efficiency	Gain (dBi)			
2300	30.8025	1.66368			
2310	29.6846	1.35046			
2320	27.6211	0.806264	2590	22.4066	-0.127628
2330	25.9916	0.373543	2600	20.9174	-0.353522
2340	24.7915	-0.060268	5150	23.4929	-0.665782
2350	23.889	-0.373071	5180	22.1527	-0.949427
2360	23.6925	-0.507938	5210	19.8448	-1.42084
2370	23.6303	-0.611059	5240	18.6845	-1.75947
2380	23.5925	-0.665864	5270	17.0296	-2.05681
2390	23.3822	-0.64665	5300	16.4144	-1.88157
2400	23.1959	-0.712905	5330	15.7735	-1.77927
2410	23.2153	-0.66741	5360	15.3976	-2.10764
2420	23.4123	-0.767195	5390	15.2188	-2.36204
2430	23.8281	-0.791629	5420	15.4198	-2.14943
2440	24.5904	-0.889872	5450	16.4928	-1.42507
2450	25.2923	-1.09716	5480	17.1799	-1.42182
2460	26.2272	-1.25418	5510	18.2682	-1.06618
2470	26.6318	-1.32425	5540	17.8586	-1.16978
2480	26.8336	-0.888586	5570	18.5094	-0.797778
2490	26.7494	-0.588853	5600	18.558	-0.28358
2500	26.7143	-0.273909	5630	19.1731	0.0062621
2510	26.8068	-0.128826	5660	18.9292	-0.36893
2520	27.0117	0.0821488	5690	19.3867	-0.590528
2530	26.9972	0.113669	5720	19.6964	0.132358
2540	26.6928	0.194007	5750	17.9706	-0.236785
2550	25.9882	0.238565	5780	17.6701	-0.325904
2560	25.5446	0.244967	5810	19.4555	-0.295806
2570	24.3966	0.141224	5840	21.1555	-0.212358
2580	23.5724	0.0596082	5850	22.0326	-0.333444

4.3 Antenna 2D pattern





5 Structure Diagram

