

Specifications For Passive Antenna of
Porject MT918

Customer/Project	MT918 A6 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 :

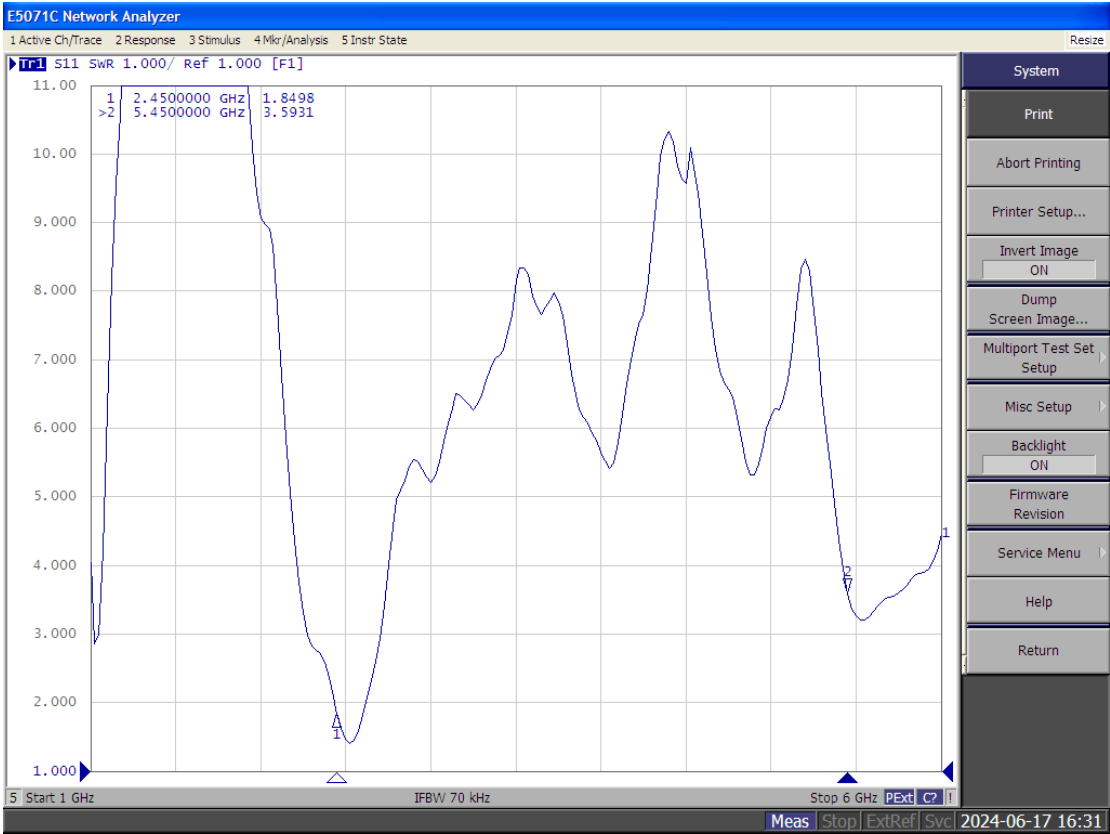


2. Antenna Specification

Antenna Form	Plastic Stent+LDS
Working Bands	2300-2600MHZ 5150-5850MHZ
Peak Gain	N/A
Efficiency	> 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

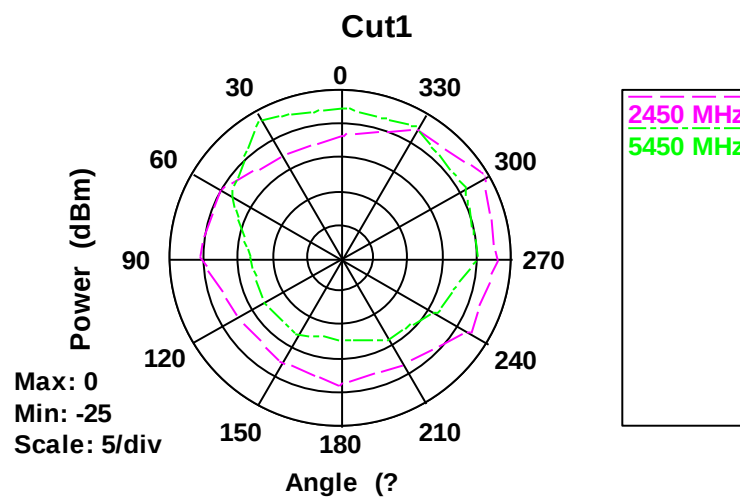
4.1 VSWR

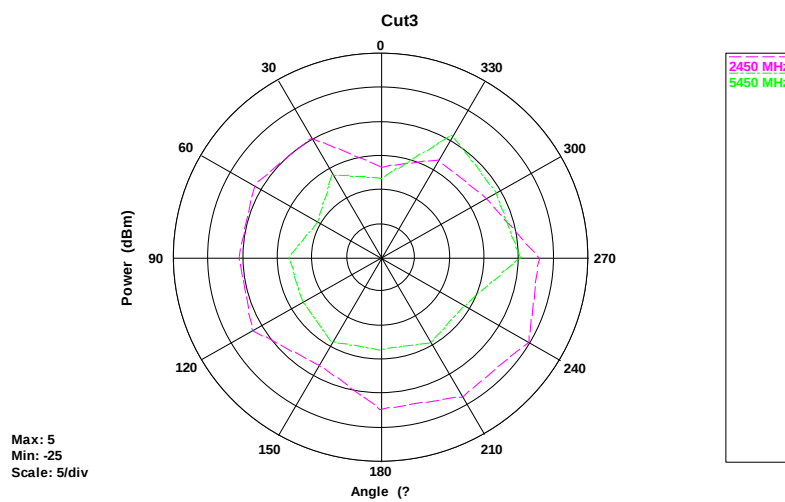
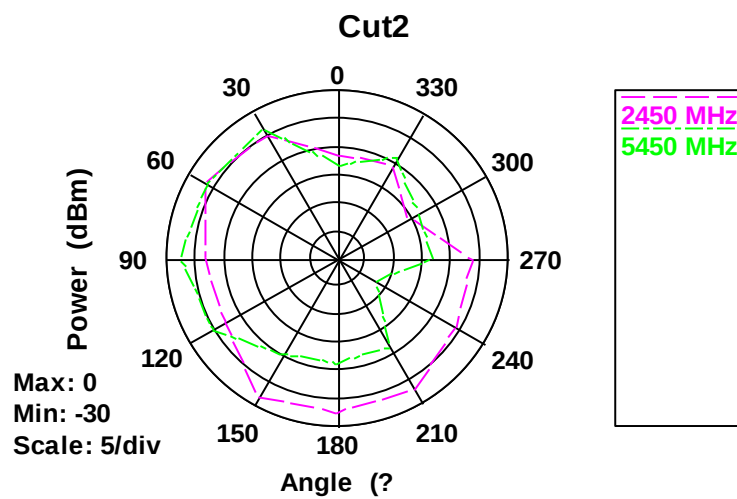


4.2 Passive Efficiency and Gain

Frequency	Efficiency	Gain (dBi)			
2300	17.1493	-3.63783	2580	32.2419	0.109295
2310	17.8128	-3.64603	2590	31.8617	-0.213107
2320	19.0104	-3.43347	2600	30.913	-0.600396
2330	19.9398	-3.20104	5150	31.7373	0.0502193
2340	21.1393	-3.03121	5180	33.0503	0.0425946
2350	22.4936	-2.80499	5210	33.1532	-0.082616
2360	23.3748	-2.77656	5240	32.5599	0.0033603
2370	24.5395	-2.59816	5270	32.5686	0.204291
2380	25.4946	-2.44862	5300	34.1492	0.40675
2390	26.392	-2.08348	5330	33.3025	0.356726
2400	28.1624	-1.62351	5360	32.1064	0.0386019
2410	29.8022	-1.23109	5390	31.0622	0.282369
2420	31.3478	-0.872719	5420	32.5798	0.637074
2430	32.4135	-0.654218	5450	32.5042	0.710242
2440	33.7047	-0.431495	5480	31.51	0.683833
2450	34.2952	-0.346288	5510	28.5465	0.0650188
2460	35.2418	-0.078814	5540	28.3181	-0.370164
2470	35.0632	0.0835272	5570	28.1883	-0.42888
2480	34.6723	0.255522	5600	27.6675	-0.672952
2490	34.3241	0.404184	5630	25.9503	-0.95055
2500	33.6194	0.522651	5660	25.2408	-1.04433
2510	33.235	0.600517	5690	26.1959	-1.02914
2520	33.2218	0.723837	5720	26.6448	-1.1502
2530	33.2045	0.813722	5750	27.7675	-0.936566
2540	33.2685	0.86697	5780	27.5825	-1.06122
2550	32.8289	0.722066	5810	27.831	-1.25302
2560	33.03	0.597398	5840	24.5757	-1.6394
2570	32.6937	0.433197	5850	24.0345	-1.57726

4.3 Antenna 2D pattern





5 Structure Diagram

