

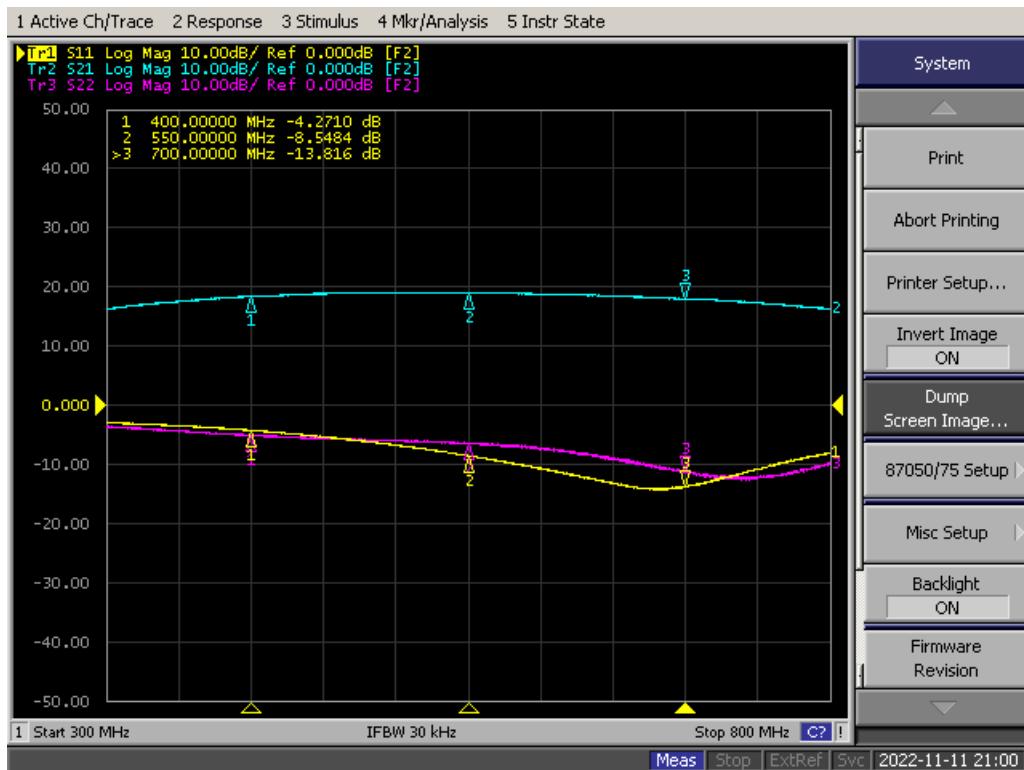


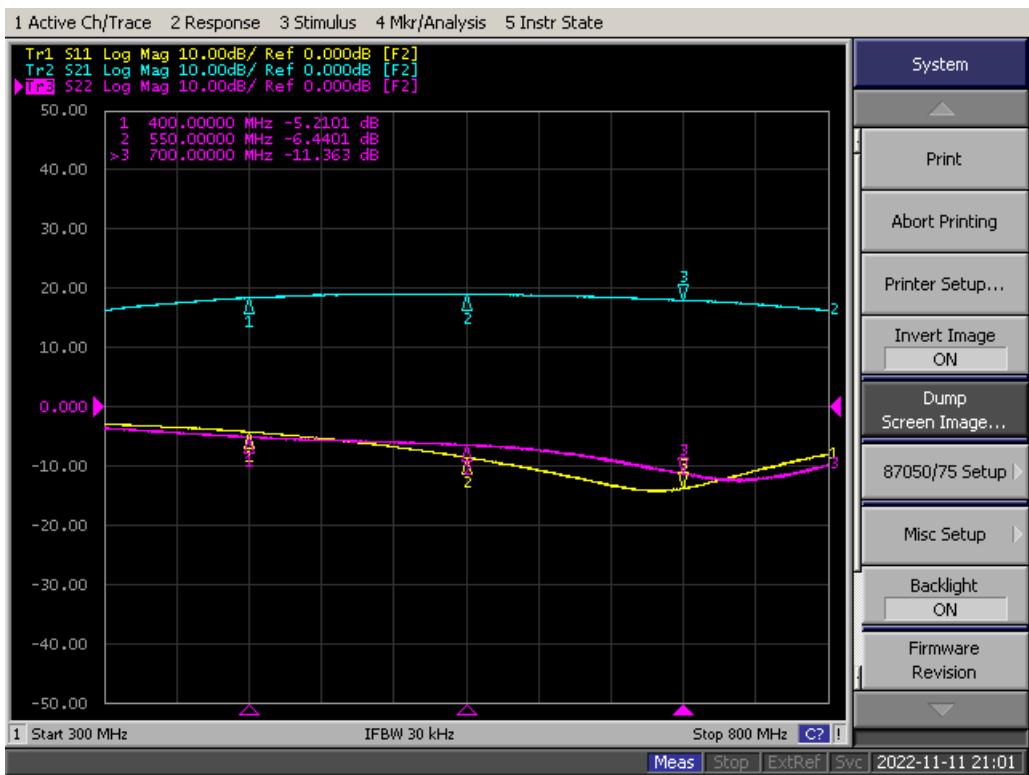
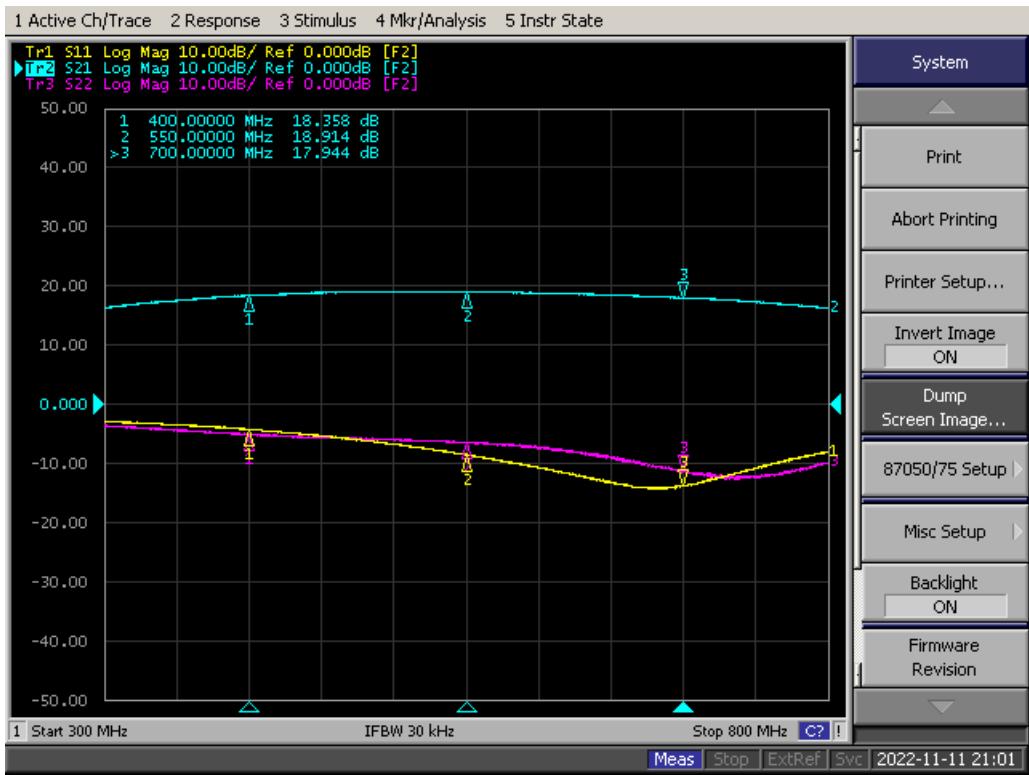
ZDH1012 400-700MHz-5V 应用笔记

一、射频指标

工作频率 (Frq)	MHz	400	550	700
增益 (S21)	dB	18.3	18.9	17.9
输入回损 (S11)	dB	-4.3	-8.5	-13.8
输出回损 (S22)	dB	-5.2	-6.4	-11.4
P1dB 功率 (Pout)	dBm	27.0	25.3	24.4
输入功率(Pin)	dBm	9.7	7.5	7.8
P1dB 工作电流 (Icc)	mA	364	359	356
工作电压 (VCC)	V	5	5	5
静态电流 (Icq)	mA	350	350	350
输出饱和功率(Pout)	dBm	28.9	27.0	26.8
饱和时输入功率(Pin)	dBm	16	16	16
饱和时工作电流 (Icc)	mA	322	328	322
OIP3 (Pout=+9dBm/tone,Δf=1MHz)	dBm	41.6	41.4	40.2
OIP3 (Pout=+12dBm/tone,Δf=1MHz)	dBm	42.7	42.3	40.5

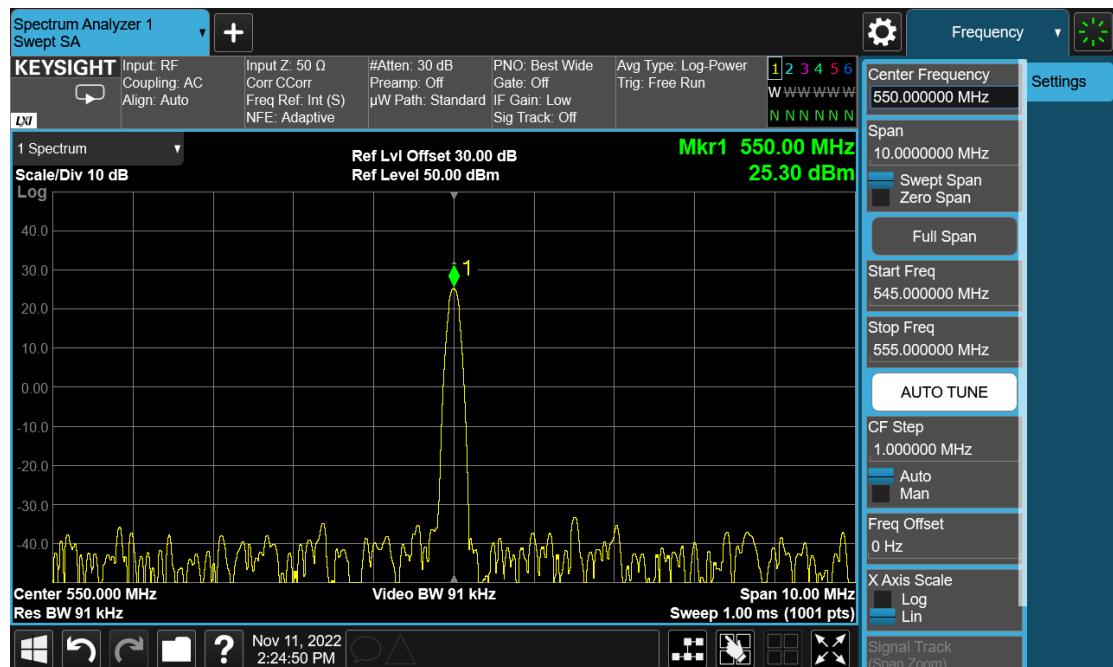
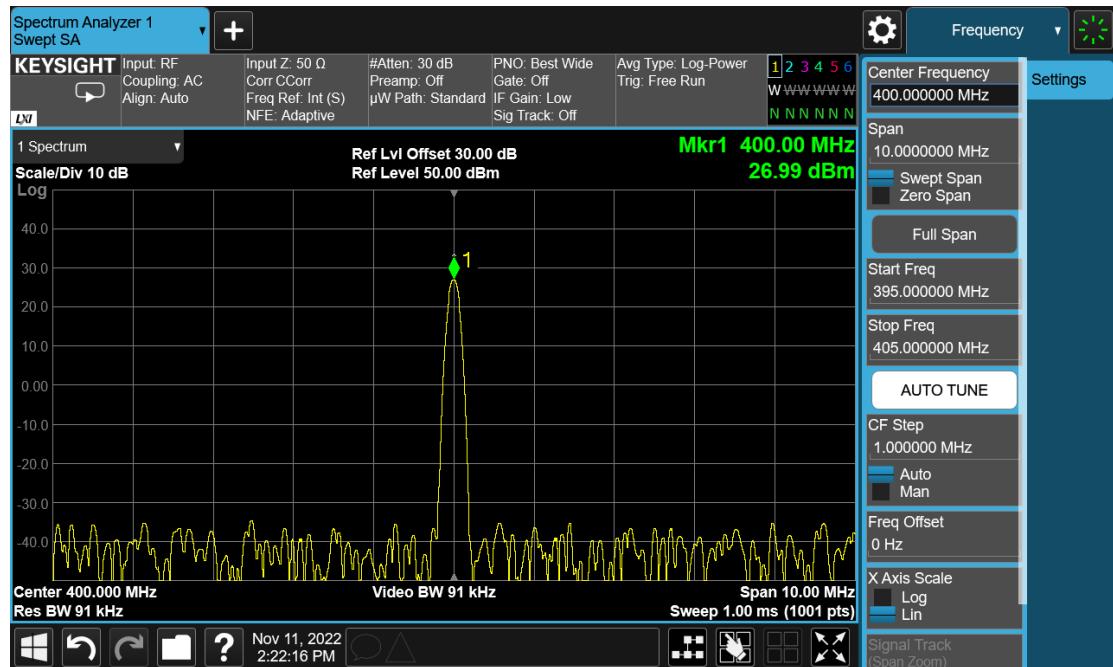
二、实测 S 参数图

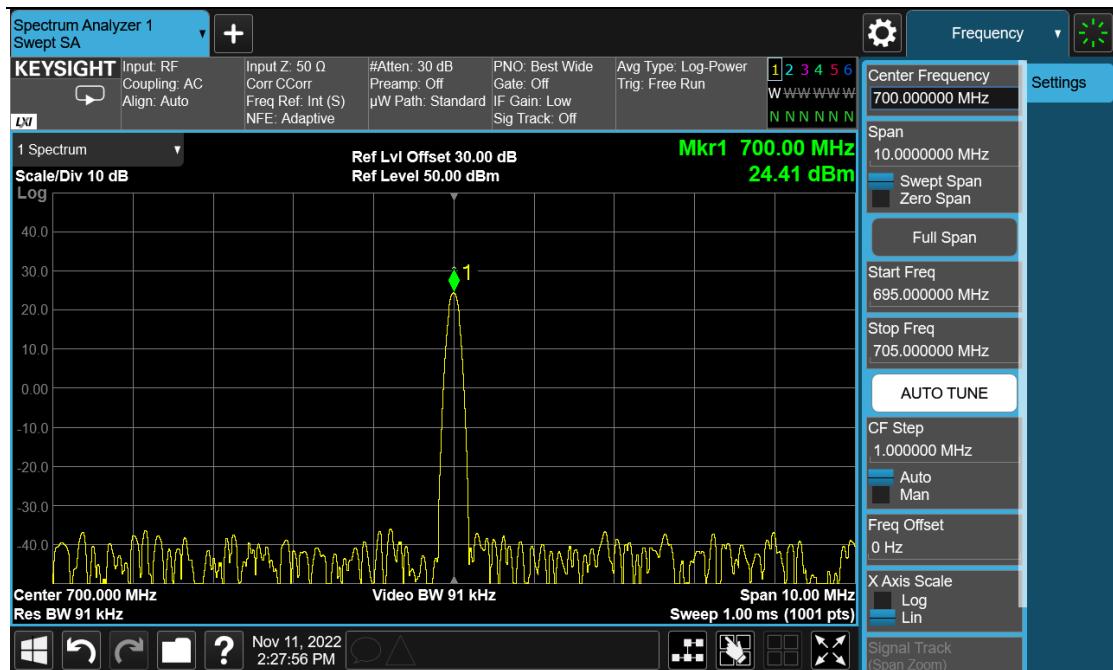




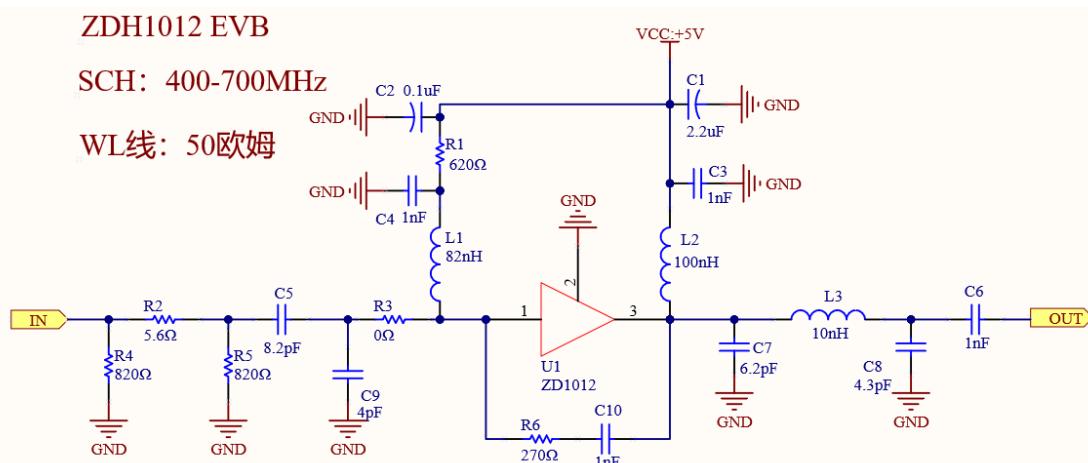


三、实测输出功率图





四、评估板原理图

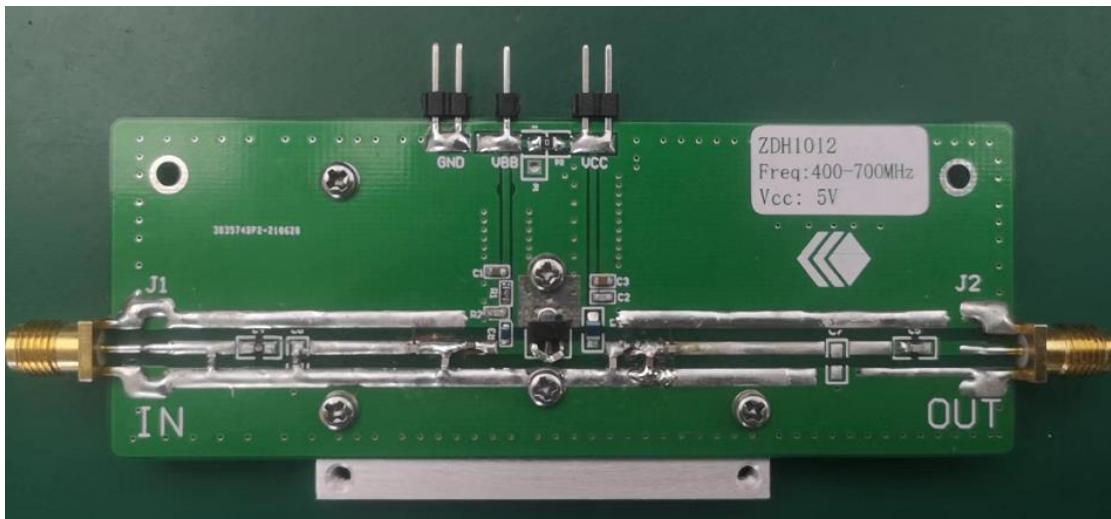


1、PCB板材介电常数4.4,板厚0.8mm,50欧姆微带线宽1.5mm;



北京中电宏业科技有限公司

五、实物图



北京中电宏业科技有限公司
技术部
2022.11.11