

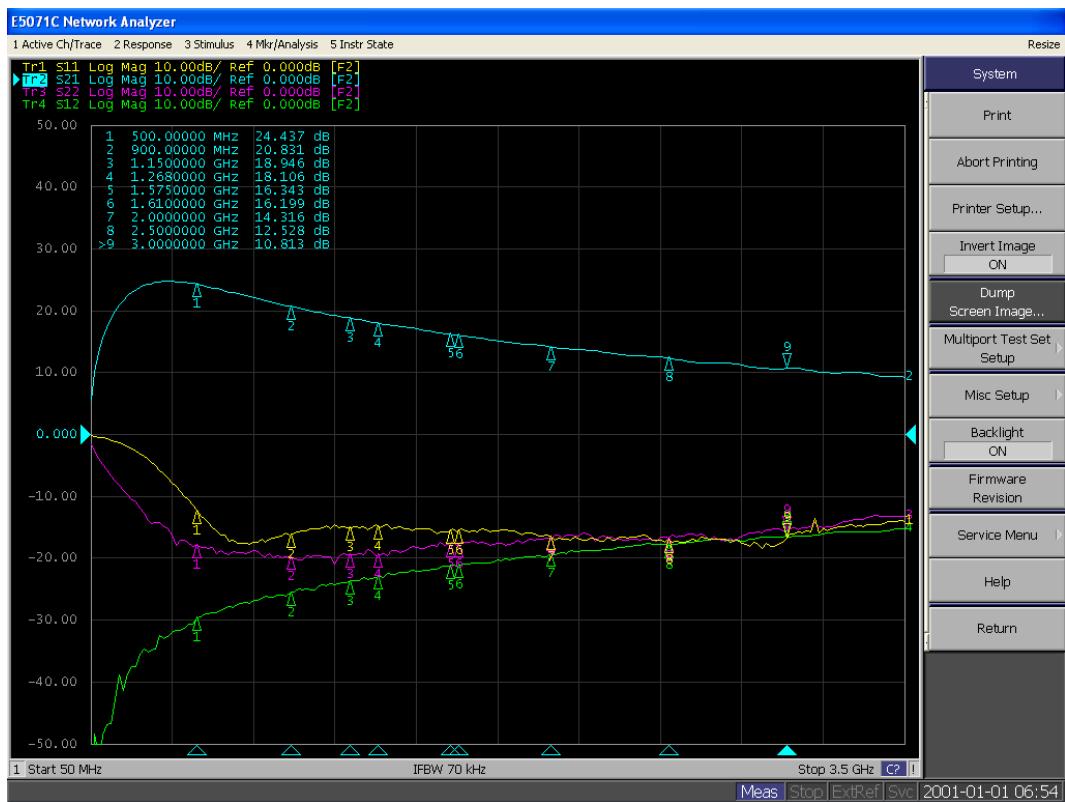


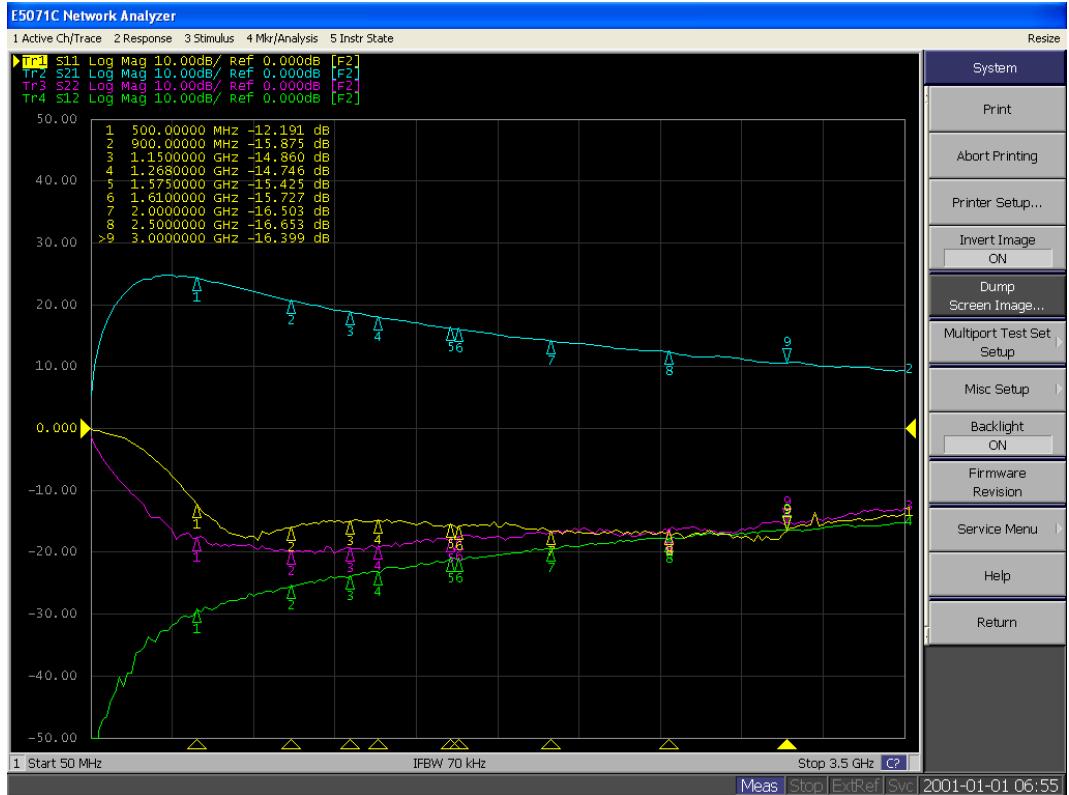
ZDH9157 500M-3GHz-5V 应用笔记

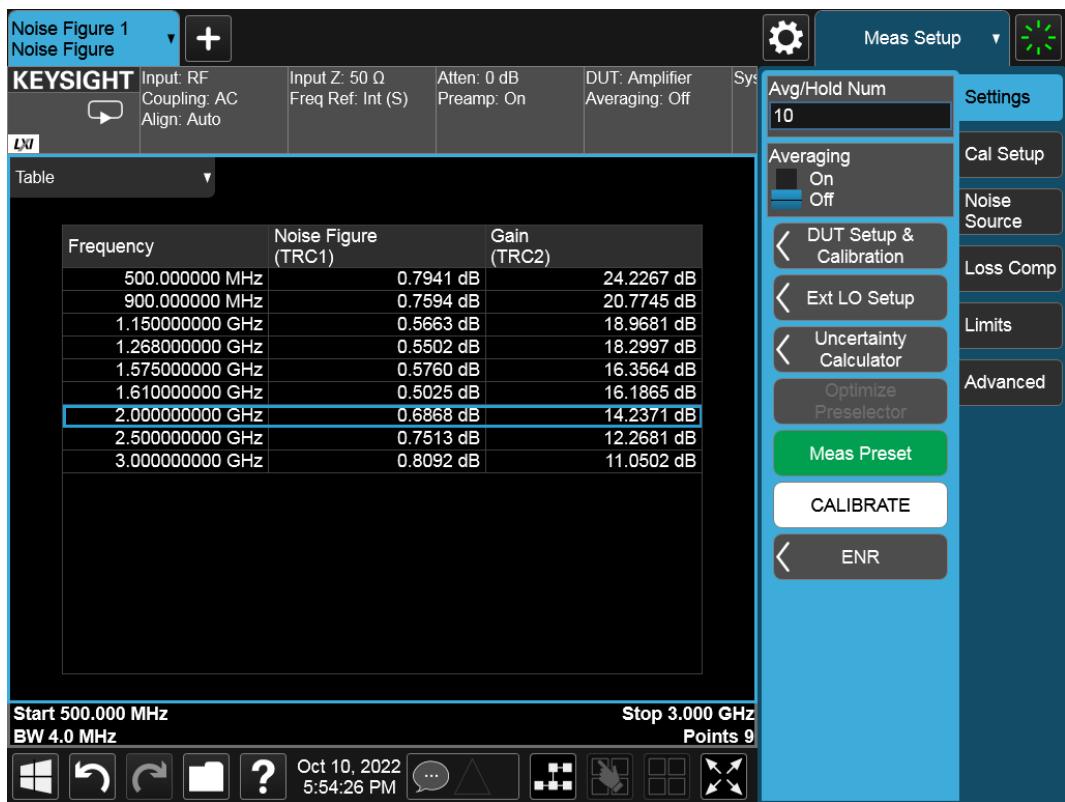
一、射频指标

工作频率 (Frq)	MHz	500	900	1150	1268	1575	1610	2000	2500	3000
增益 (S21)	dB	24.43	20.83	18.94	18.10	16.34	16.20	14.31	12.52	10.81
噪声系数 (NF)	dB	0.79	0.76	0.56	0.55	0.57	0.5	0.68	0.75	0.81
输入回损 (S11)	dB	-12.19	-15.87	-14.86	-14.74	-15.42	-15.72	-16.50	-16.65	-16.40
输出回损 (S22)	dB	-18.14	-19.46	-19.19	-19.24	-17.59	-17.67	-16.50	-16.41	-15.37
P1 功率 (Pout)	dBm	22.54	22.77	22.93	23.10	23.34	23.23	23.61	23.90	23.99
输入功率(Pin)	dBm	-1	3	5	6	8	8	10	13	14
工作电压 (VCC)	V	5	5	5	5	5	5	5	5	5
静态电流 (Icq)	mA	66	66	66	66	66	66	66	66	66
P1 工作电流 (Icc)	mA	77	79	83	86	90	89	90	96	99
OIP3	dBm	36	37	37	37	37	38	38	38	38

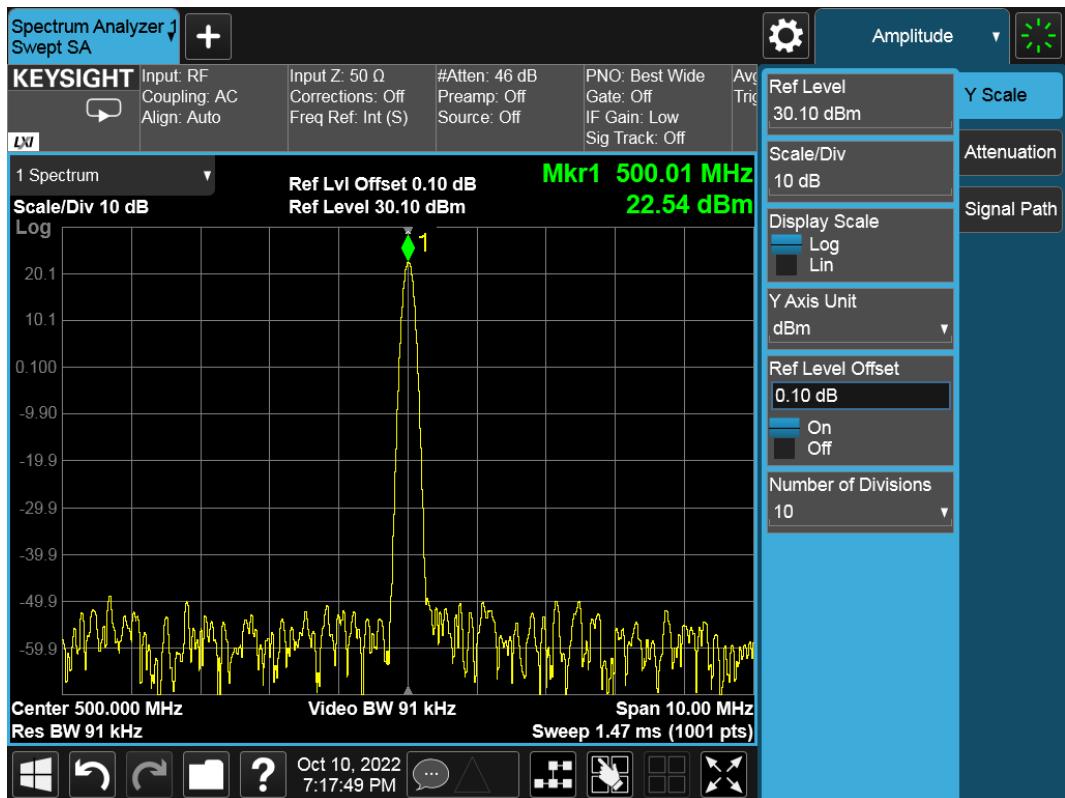
二、实测 S 参数图





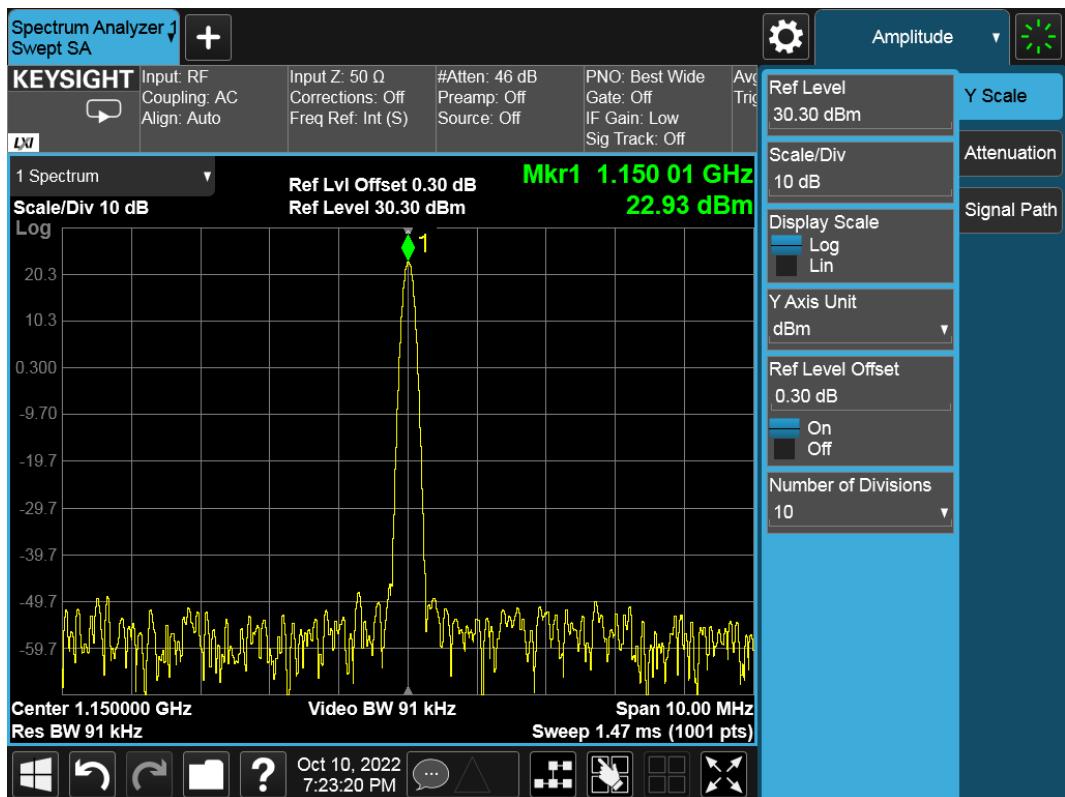
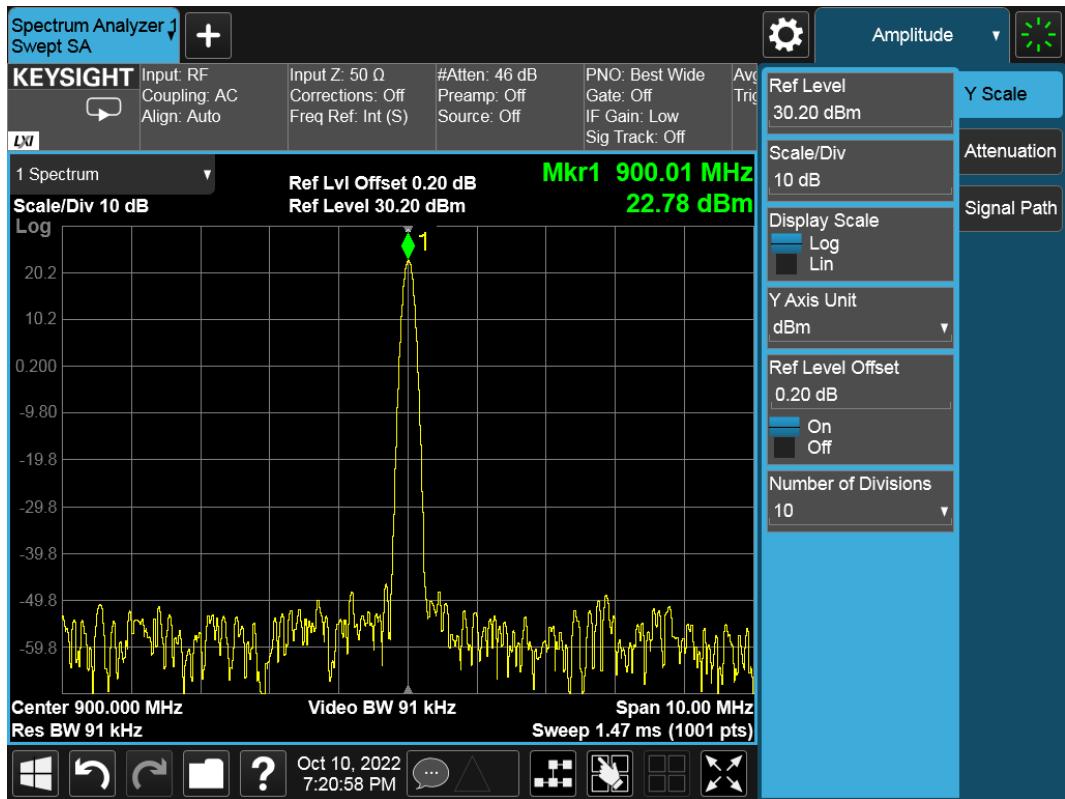


三、实测输出功率图



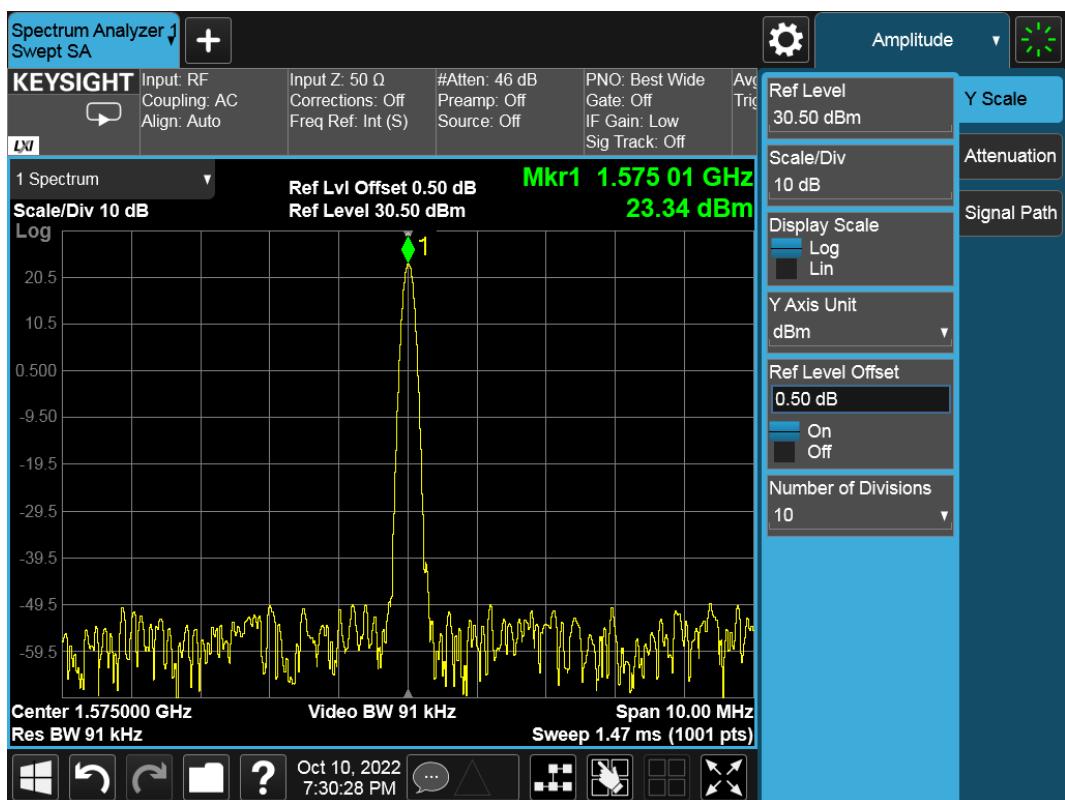
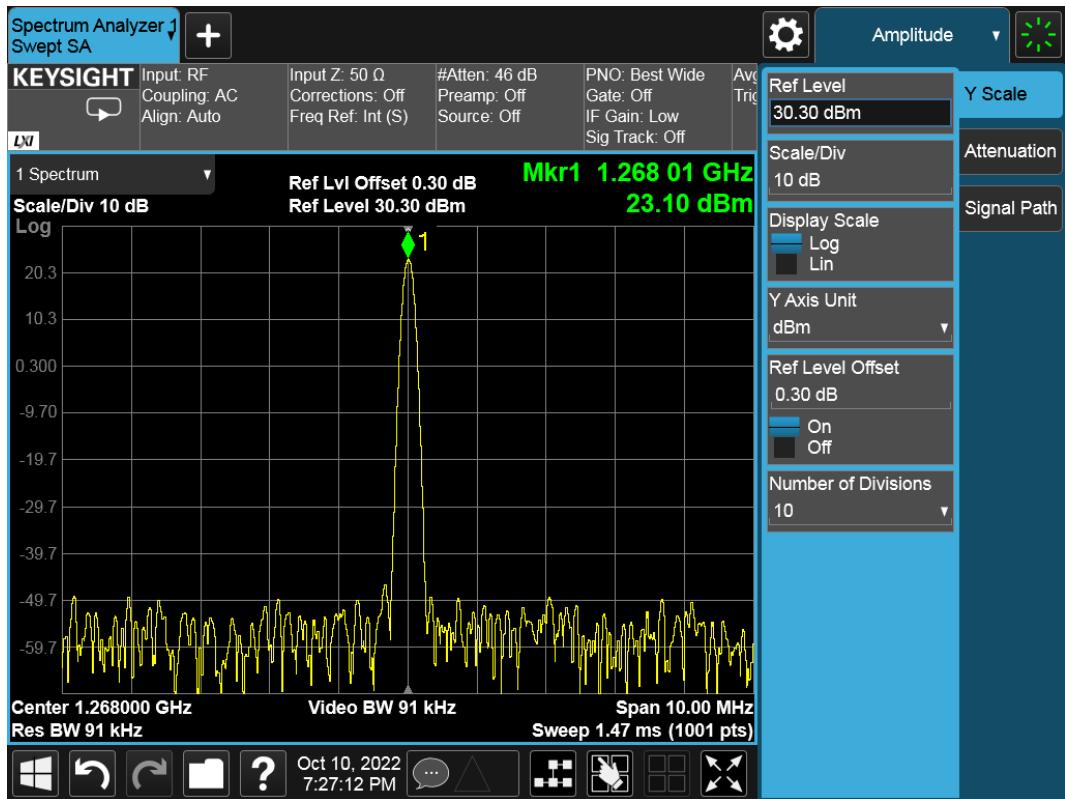


北京中电宏业科技有限公司



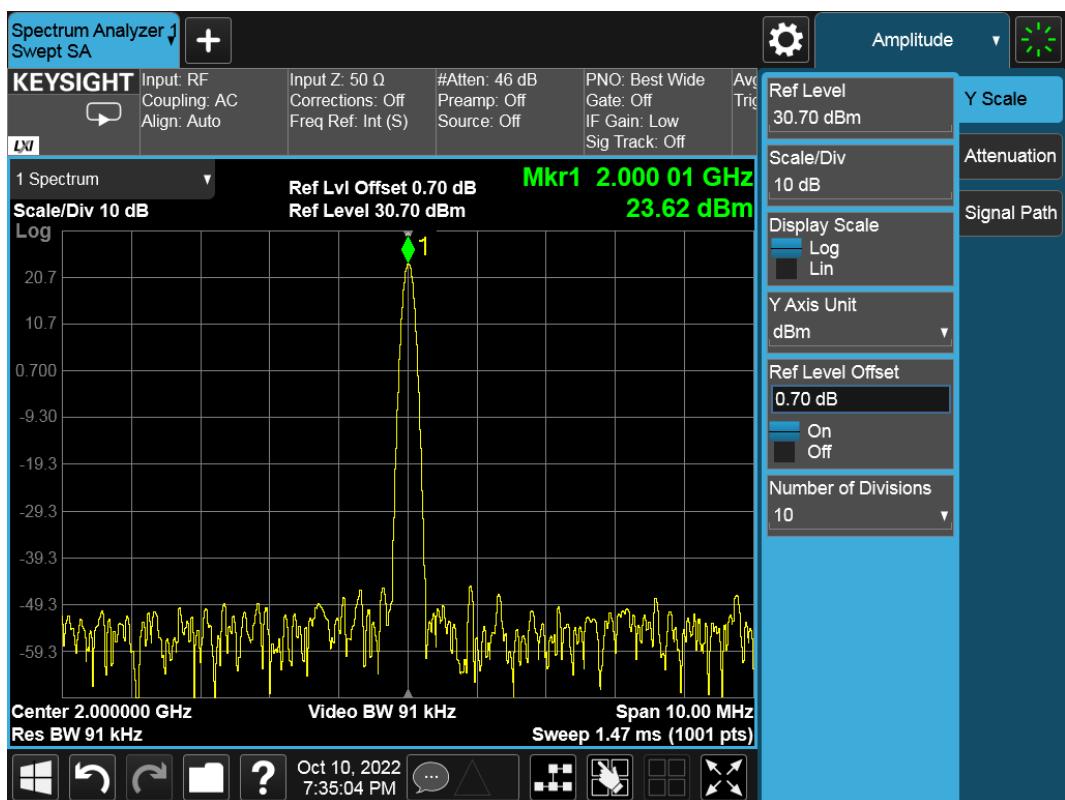
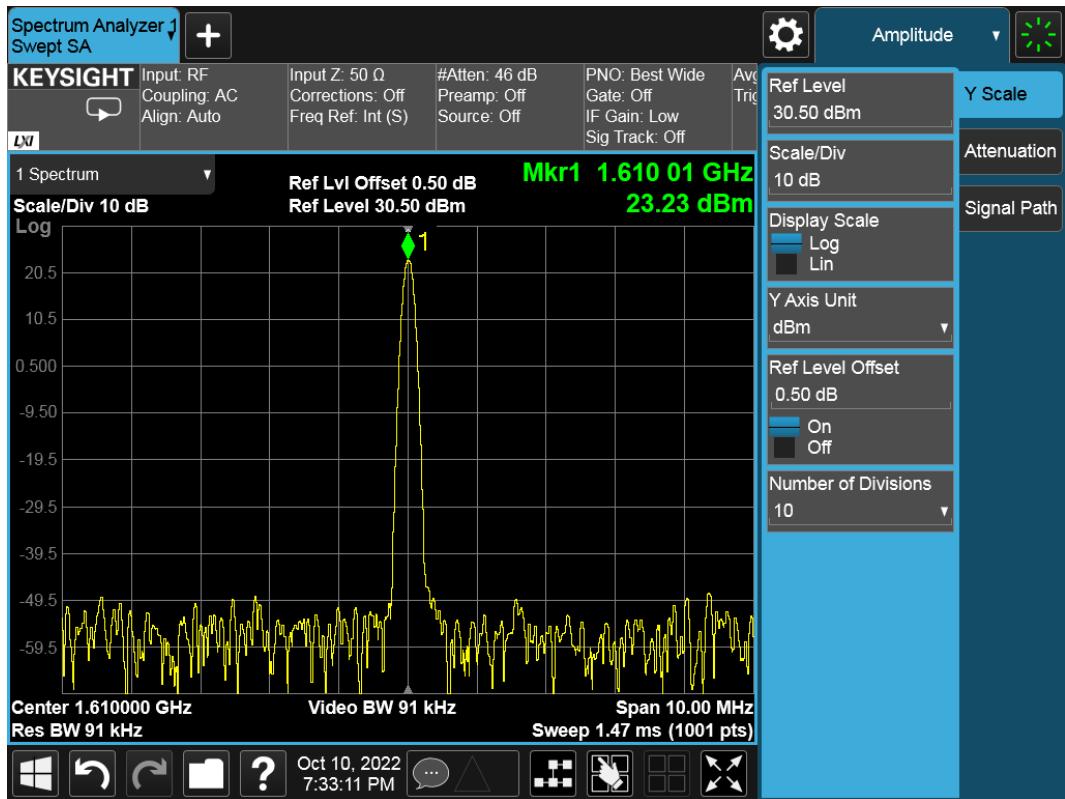


北京中电宏业科技有限公司



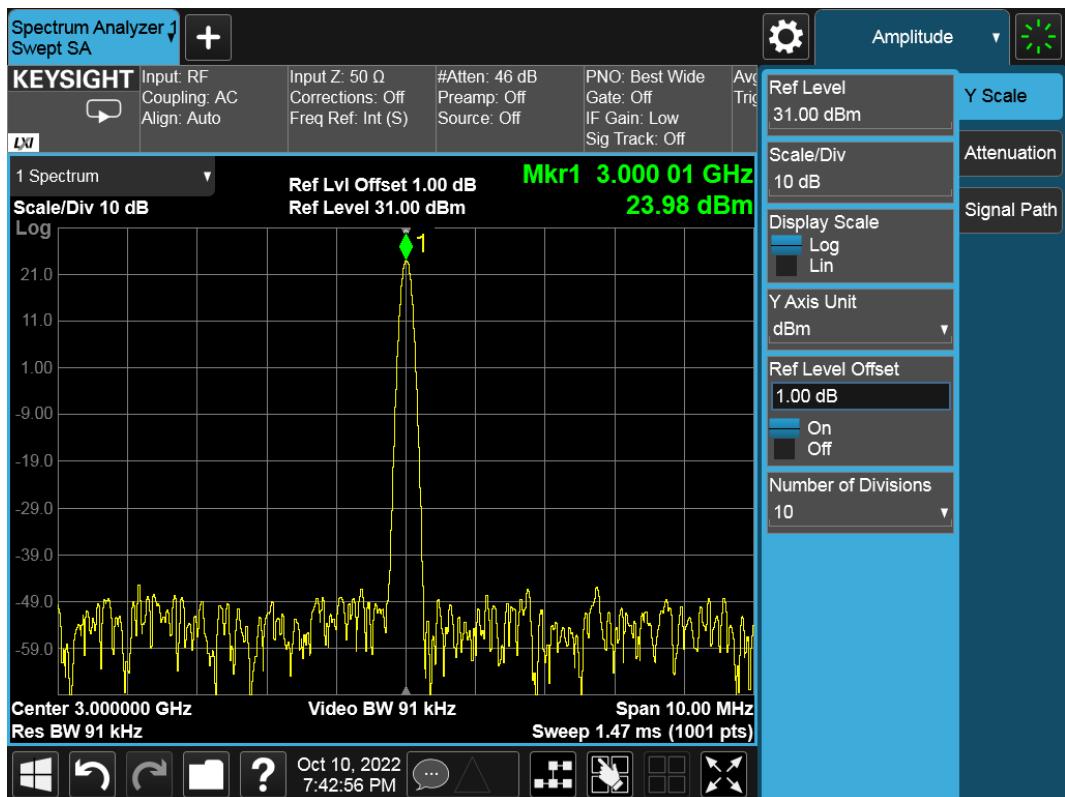
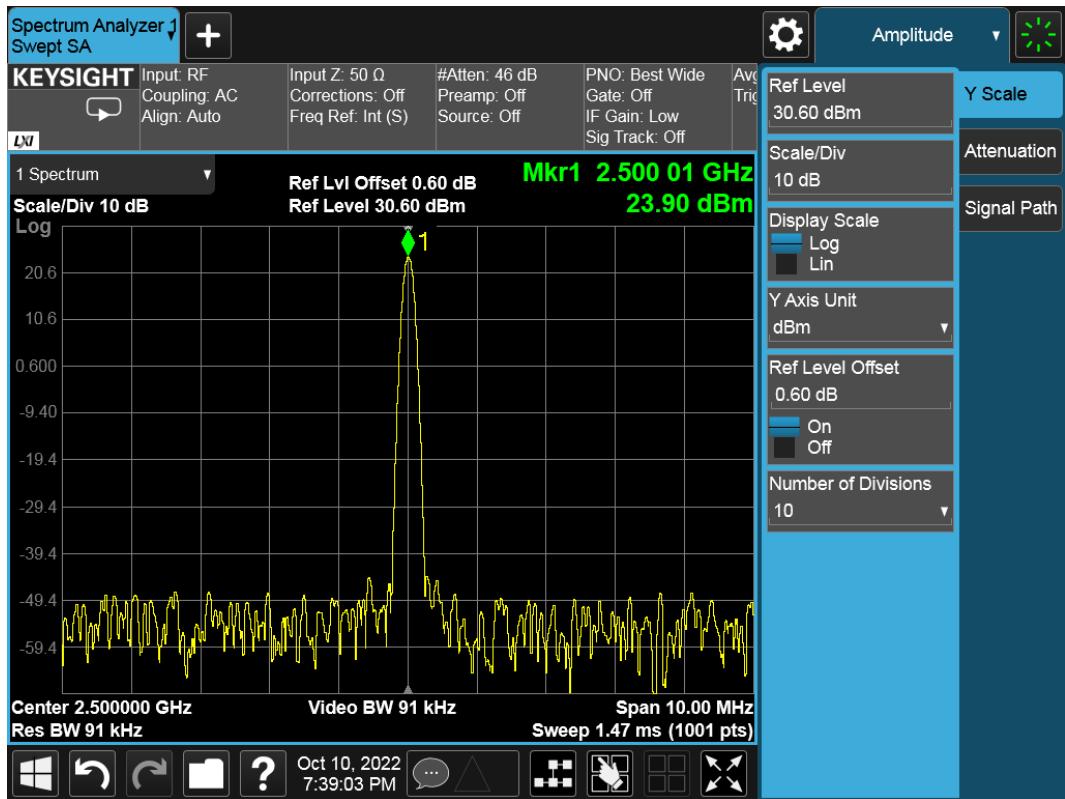


北京中电宏业科技有限公司





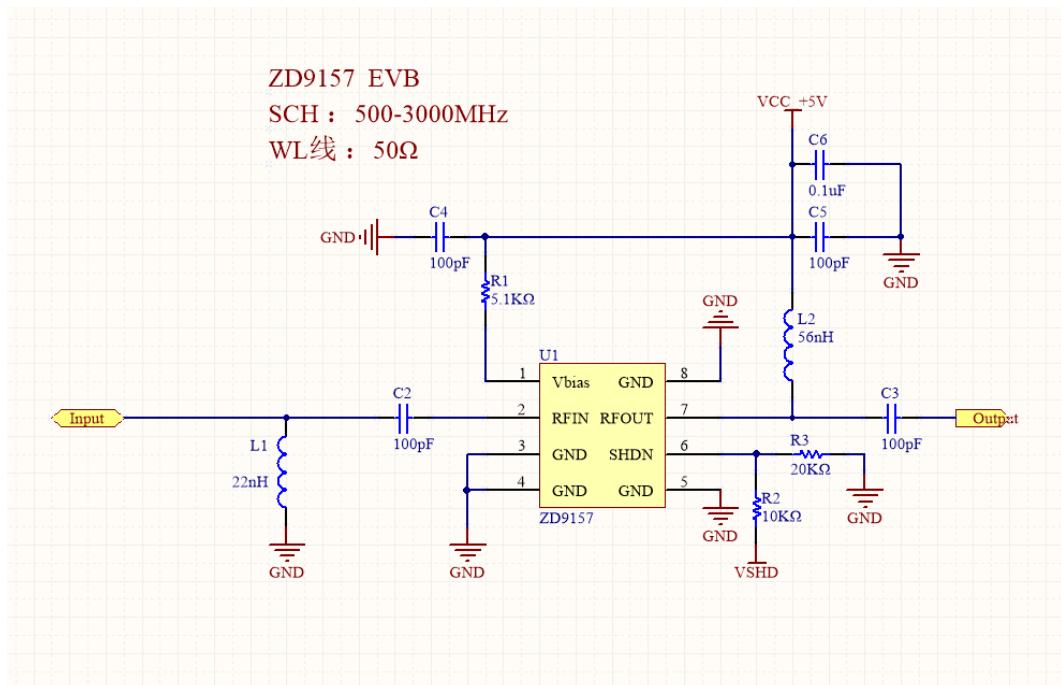
北京中电宏业科技有限公司



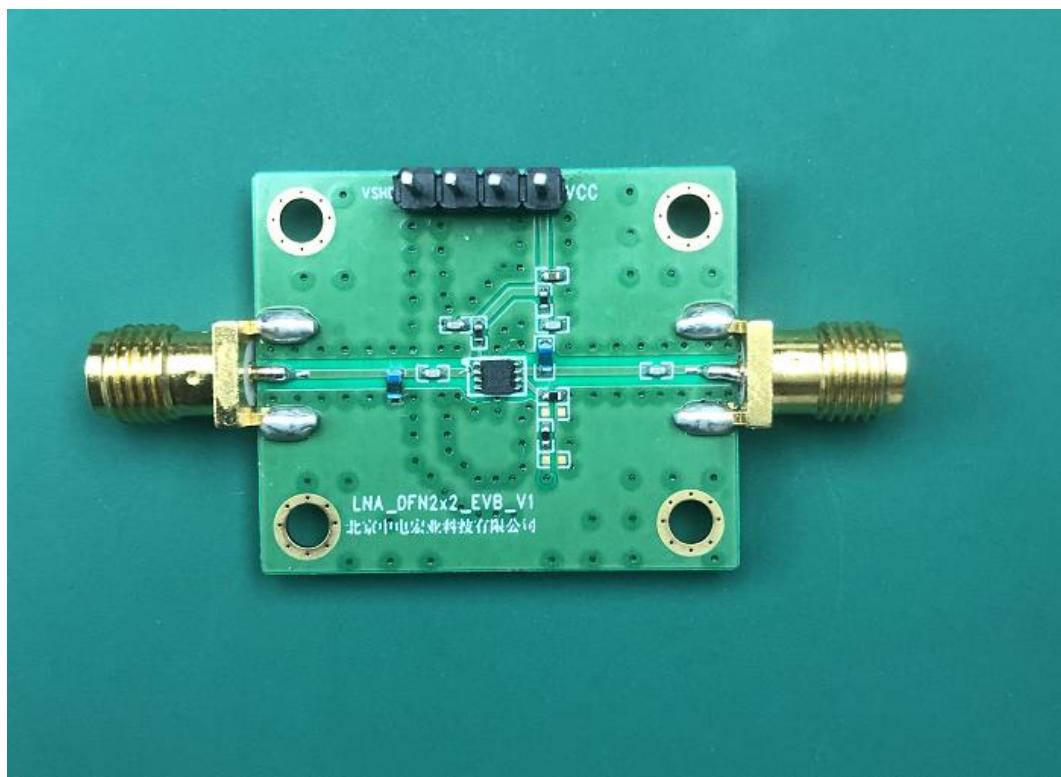


北京中电宏业科技有限公司

四、评估板原理图



五、评估板实物图



北京中电宏业科技有限公司
技术部
2022.10.10