7. 效率（PFC+LLC）

➢ 恒压模式效率

Vin	Vo	25%load η(%)	50%load η(%)	75%load η(%)	100%load η(%)
180Vac	49V	93.9%	94.6%	95.4%	95.3%
230Vac	49V	93.7%	94.7%	95.7%	95.6%
264Vac	49V	92.9%	95.3%	96.0%	96.0%

➢ 恒流效率数据(CV48V)

Vin	PF	Vo	Io	100%load η(%)
180Vac	>0.9	48.3V	4.2	95.7%
230Vac	>0.9	48.3V	4.2	96.2%
264Vac	>0.9	48.3V	4.2	96.3%

注：FL5, PCB

8. 最大电压应力测试波形

	**Test conditions** Vin： 264Vac CC mode Vout 48V **Result** Vds_max： 411.6V
	**Test conditions** Vin = 264Vac CC mode Vout 48V **Result** Vds_max： 410.62V
	**Test conditions** Vin = 264Vac CC mode Vout 48V **Result** Vds_max： 105.6V

	**Test conditions** Vin： 264Vac CC mode Vout 48V **Result** Vds_max： 106.8V

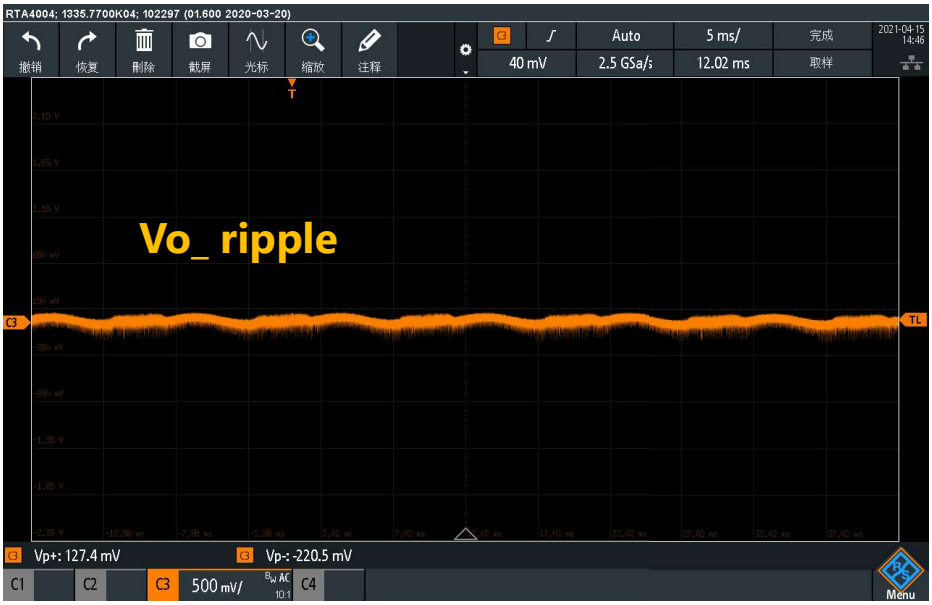
9． 动态测试波形

➢ 49V动态

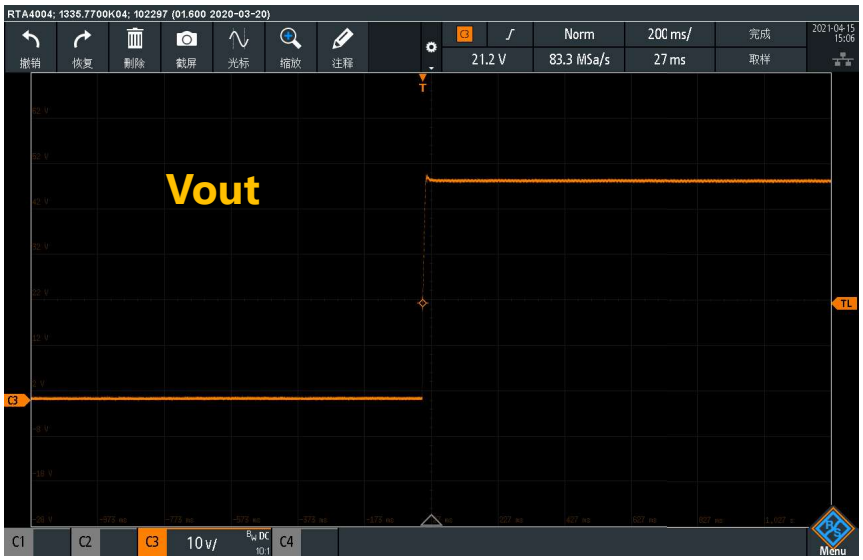
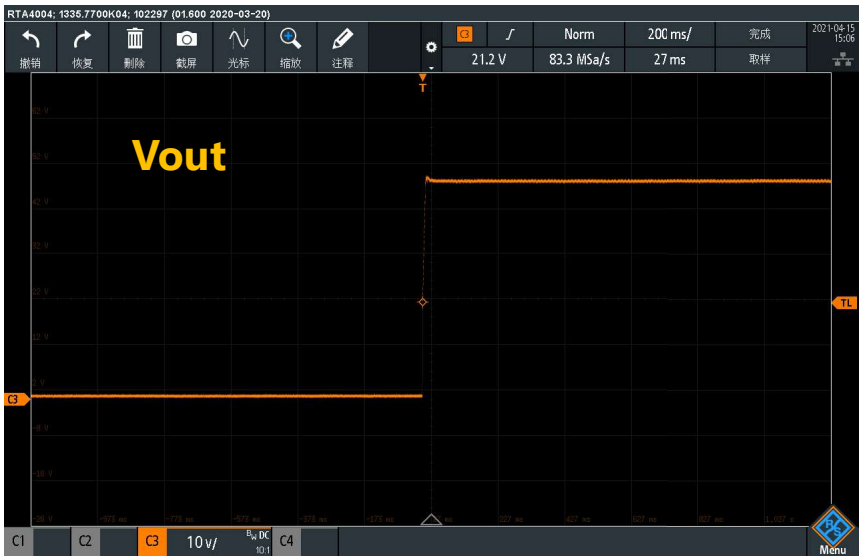
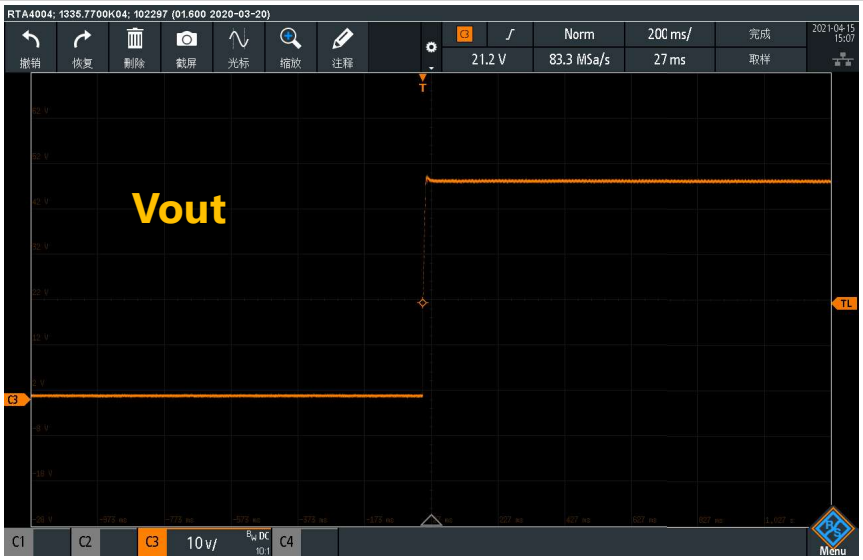
	**Test conditions** Vin=180Vac Vout=49V 0.41A ~ 3.7A load 0.25A/us T1=T2=5ms **Result** REF
	**Test conditions** Vin=264Vac Vout=49V 0.41A ~ 3.7A load 0.25A/us T1=T2=5ms **Result** REF

10. 纹波测试波形

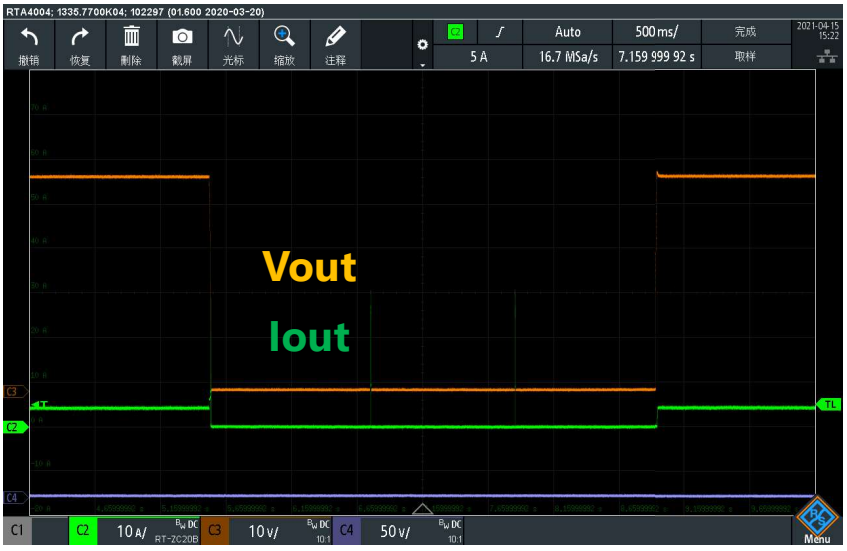
➢ CC4.1A&Cv load 3.5A

	**Test conditions** Vin:180Vac Vout: CC mode @48V **Result** Vo_ ripple:357mV
	**Test conditions** Vin:180Vac Vout: 49V 4.0A **Result** Vo_ripple:347mV

11. 开机波形

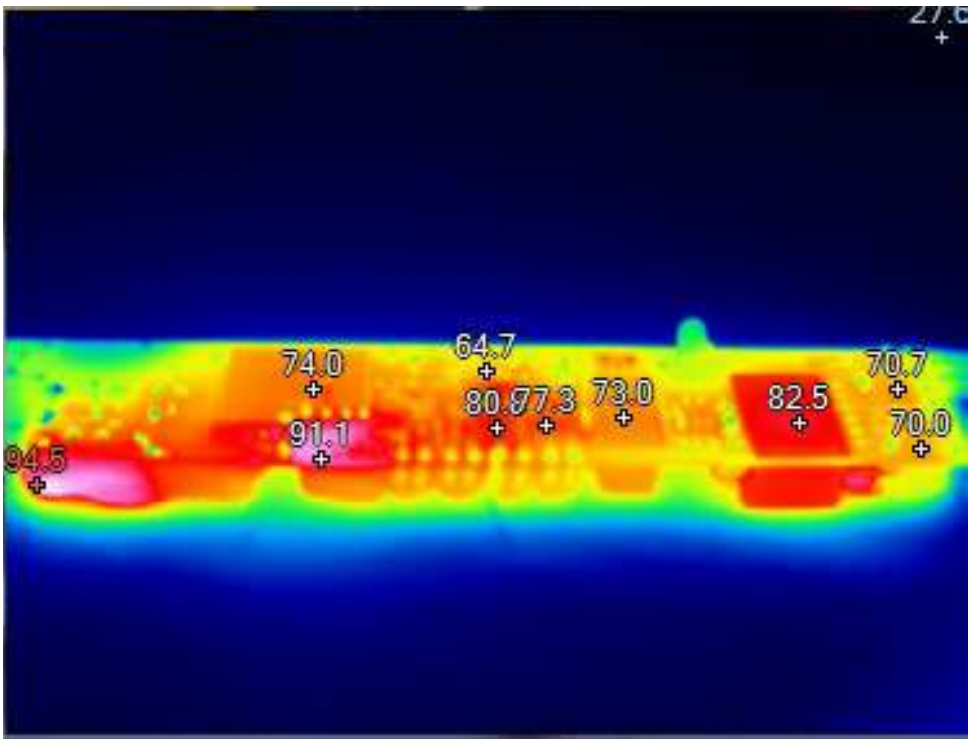
	**Test conditions** Vin=180Vac CC mode @48V
	Test conditions Vin=230Vac CC mode @48V
	Test conditions Vin=264Vac CC mode @48V

12. 短路电流保护

	**Test conditions** Vin=180Vac CC mode @48V
	Test conditions Vin=230Vac CC mode @48V
	Test conditions Vin=264Vac CC mode @48V

13．热测试

Vin= 180Vac, 输出CC4.2A@48V，环境温度27°C，热机2小时。

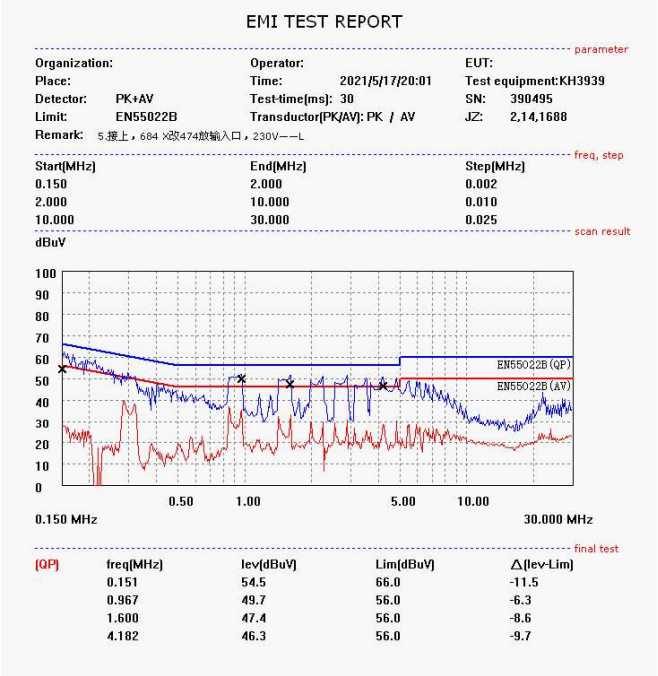
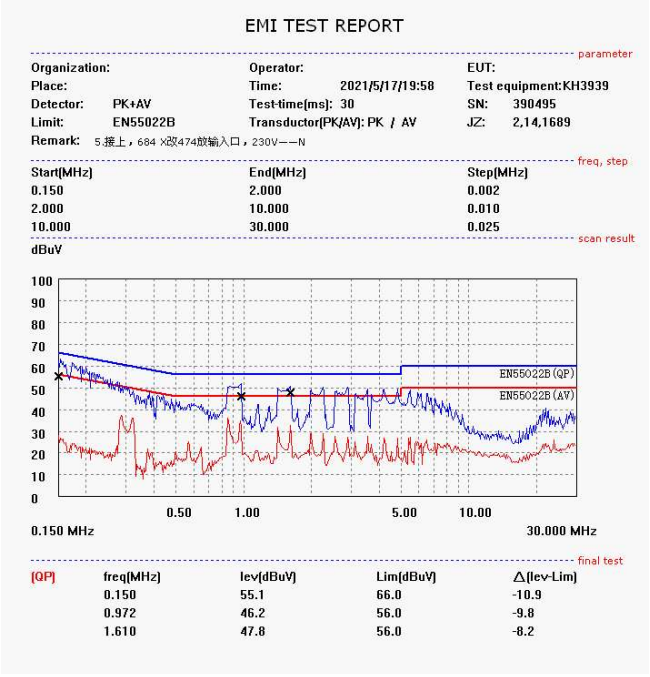


PFC GaN： 91.2℃
LLC GAN1： 80.℃
LLC GAN2： 77.3℃
PFC电感： 74.℃
LLC变压器： 82.5℃
LLC谐振电感： 73.0℃
桥 堆： 94.6℃
SR1 ： 70.0℃
SR2 ： 70.7℃

注：额外散热措施，AC180V, BD小板上桥堆点导热硅胶测试数据

14. EMI-CE

Test conditions: Input: 230Vac；48V 4.2A

	L line QP
	N line QP

注：因此机是恒流48V输出，在EMC测试中使用电阻负载测试，需将输出改为恒压48V测试EMC。增加下底壳测试。