

Eight Discipline Report (8D Report)

To:	8D report No.:
From: : Chicony Power Technology	RMA claim No.:
CC :	Chicony Power P/N: A24-150P1A
	Customer P/N:
Submit date: 8/22	Product description: 150W
Receive date: 8/22	Defect D/C or Lot No.:

Subject : CC pin Alert 訊號發送異常
(FW 韌體, PCB layout noise)

D1.) 問題解決成員:Use Team Approach

主持者 (Team Leader) :

內部成員 (Internal Team Members):

外部成員 (External Team Member):

D2.)問題說明:Problem Description:

(Note: Use **who, what, when, where, why, how, how many** to specify the Customer's problem.)

當 PSU 在觸發保護機制時, PD IC 發送 Alert 訊號給系統端時, Alert 訊號會重複發送, 但 PSU 保護機制不影響



D3.)內部或客戶的暫時解決辦法及實施日期:Implement and Verify Containment Action:

(Note: Internal / external containment action effectiveness and date.)

1. RD 分析不良樣機並做提供改善對策

Date:2024/8/19

D4.)不良原因確認: Define and Verify Root Causes:

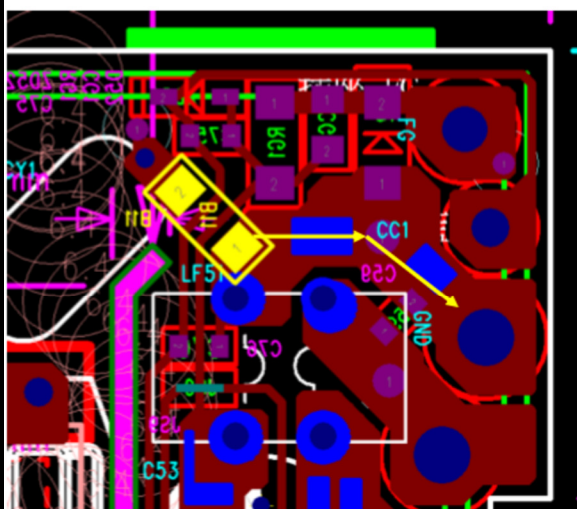
(Note: Identify and verify all suspect causes, which needs explain why the problem occurred.)

經確認此為FW溝通機制，當Power端發送Alert訊號後沒收到GoodCRC訊號時，會再次發送Alert訊號，最多三次 or 收到GoodCRC訊號時才會停止發送，判斷PSU端有可能無法收到GoodCRC訊號

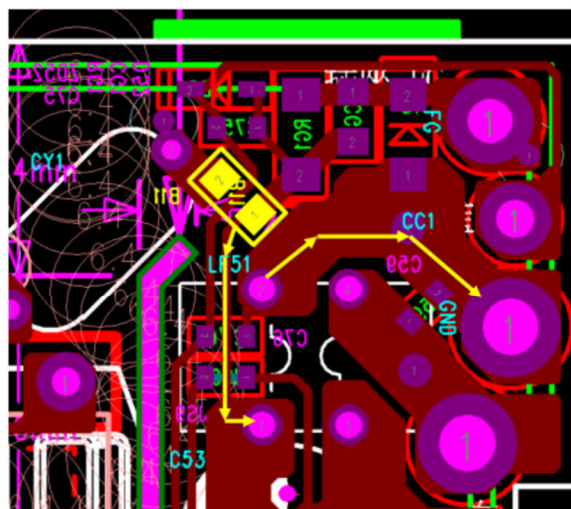


改善對策: 二次側GND路徑修改

將CY1二次側地的路徑由原本接輸出的GND改為接LF51之前，將雜訊透過LF51濾波後再到輸出GND，可減少雜訊產生，CY1二次側地路徑修改如下



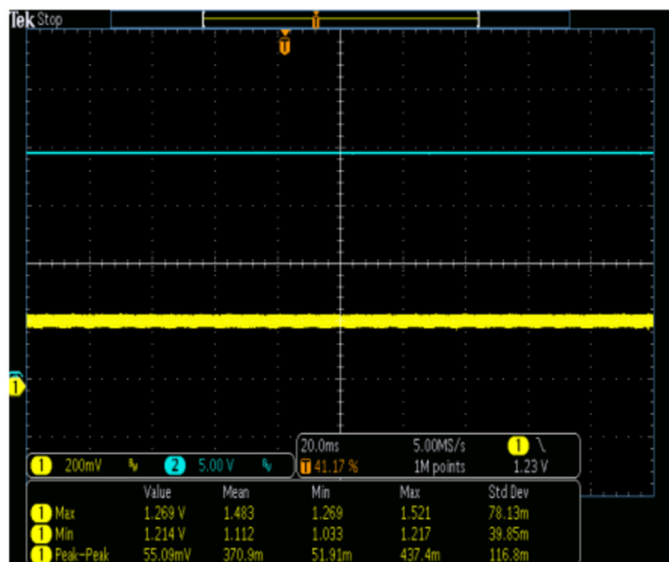
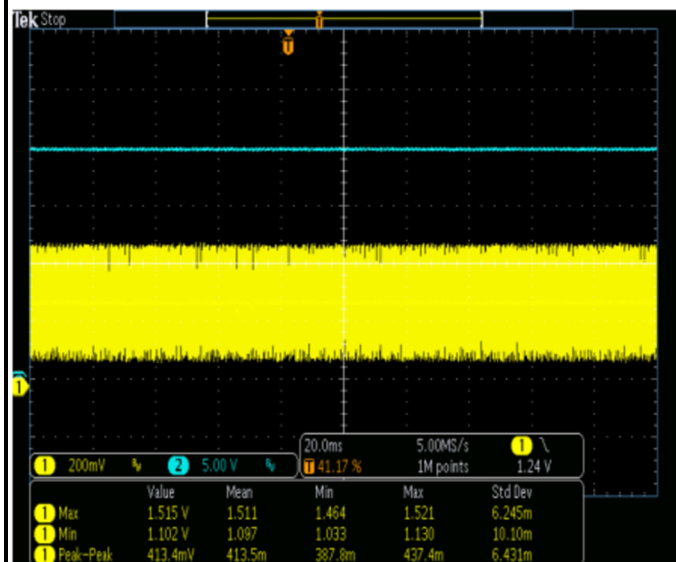
Before



After

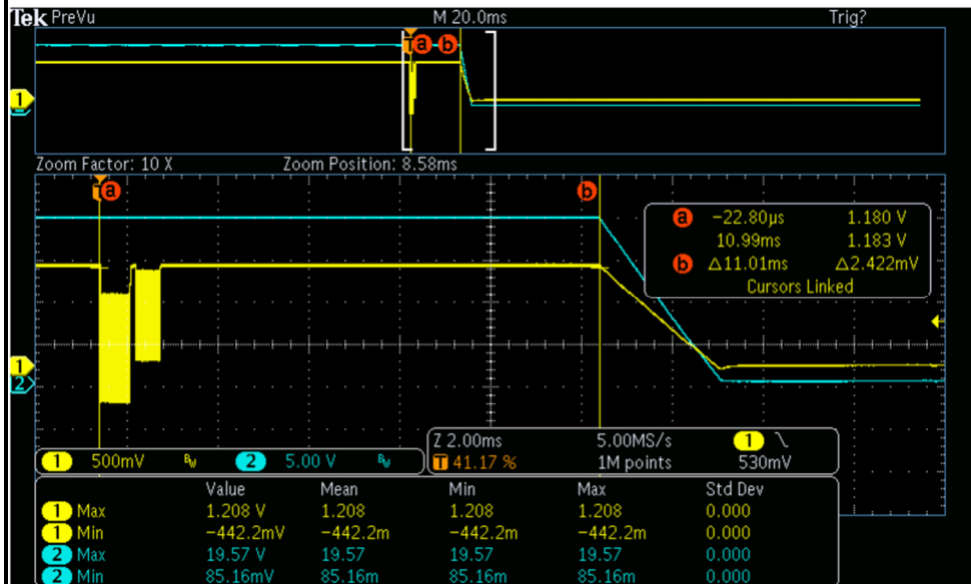
CC Pin Ripple比對

CY1二次側地路徑修改後的CC Pin Ripple 比對如下; Vp-p由413mV改善為55mV



OCP驗證

確認OCP保護後IC發一次Alert訊號且收到GoodCRC訊號後即不會再發Alert訊號





D5.)改善措施:Corrective Action Verification:

(Note: Be make sure the corrective actions is effective in process as well as able to fix the customer complaint problem)

1. 修改PCB二次側GND路徑。

Date:2024/8/22

D6.)改善措施實施日期:Implement Permanent Corrective Actions:

(Note: Be provide the phase-in date or lot# of corrective actions **implementation** in process)

Immediately

D7.)預防再發生措施:Prevent Recurrence:

(Note: Modified the management, operating systems, practices, and procedures to prevent recurrence for the problems as well as lessons learned cases.)

Same as D5

D8.)確認並感謝問題解決成員:Check and Congratulate the Team:

(Note: Recognize the collective efforts of the team.)

Thanks to you all ! ! !

Signature	Arthur Wu
Team Leader:	
	Name – Title
Signature by Approver:	Mark Meng
	Name-Title