Eight Discipline Report (8D Report)

To: Dell	8D report No.: N/A
From: : Chicony Power Technology	RMA claim No.: N/A
CC: CPT DQA	Chicony Power P/N: N/A
	Customer P/N: N/A
Submit date: 2019/11/19	Product description: Dell E4 130W
Receive date: 2019/11/08	
	-

Subject: EMI – Conduction Issue of E4 130W

D1.) 問題解決成員:Use Team Approach

主持者 (Team Leader): Benson_Chen 內部成員 (Internal Team Members):

CQS: Candy_Zhu

PM: Ivy_Tsai

Sales: Steve_Kuo

RD: Dean_Pan

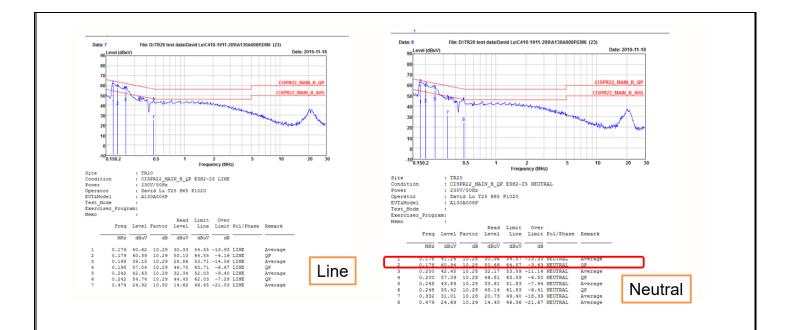
外部成員 (External Team Member):

D2.)問題說明:Problem Description:

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

Time: 2019/11/08
Location: CPT DQA
Work Orders: T1946021

The fail condition is 230Vac input and full load condition and the test result -3.63dB at 170kHz. (Dell spec is <-6dB for development stage)



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.)

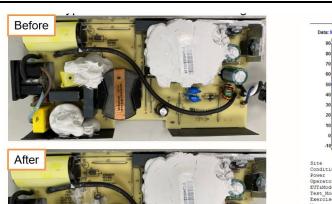
- 1. CPT informed this issue to Dell and Wistron
- 2. Sorting samples for ODM to verify function.

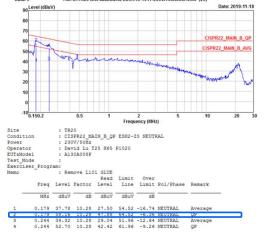
Date:2019/11/09

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.)

- Reconfirm this adapter, it's fail of CE test as same as factory feedback.
- ➤ After removed the glue as below picture, the EMI could be improved to -6.36dB. The glue had contact Pi choke (L101) & PFC choke (L2) and PFC bead (B101). It cause EMI noise can bypass L101 to make EMI margin issue.

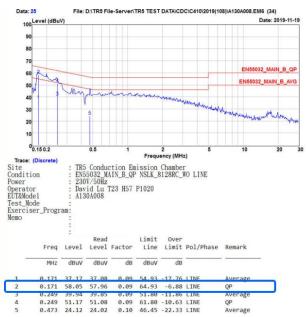




Change glue location as below picture to avoid glue contact PFC choke and PFC bead.

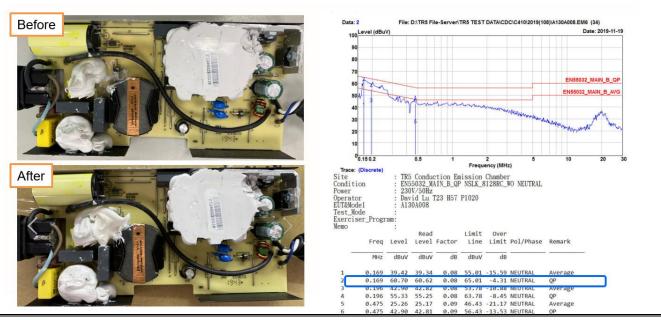






Conclusion:

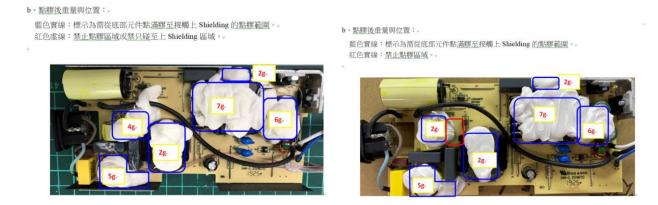
Proven effectiveness through repeated verification and replicable experiments



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)

Correct WI to prevent the occurrence of problematic products again.



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)

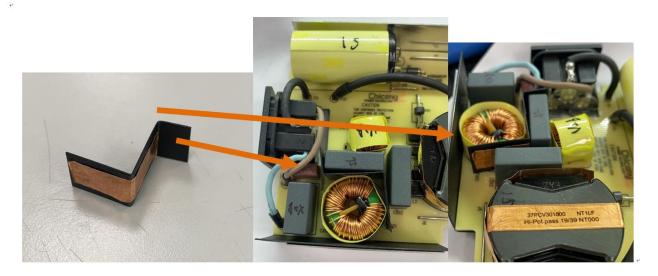
immediately

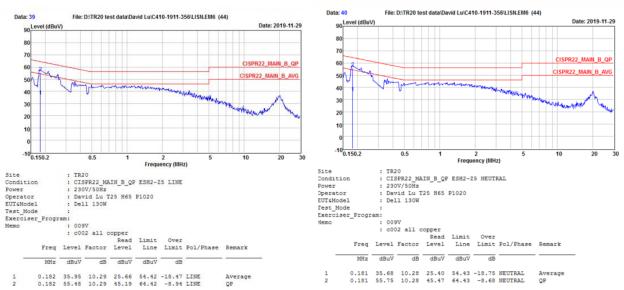
D7.)預防再發生措施:Prevent Recurrence:

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

In order to strengthen the avoidance of EMI, there is also the issue of coupling.

We create a mylar shielding component and place between components to avoid coupling.





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!!!

CQS: Candy_Zhu Sales: Steve_Kuo RD: Dean_Pan PM: Ivy_Tsai

Signature	Benson_Chen
Team Leader:	
Signature by Approver:	Hunter_Peng