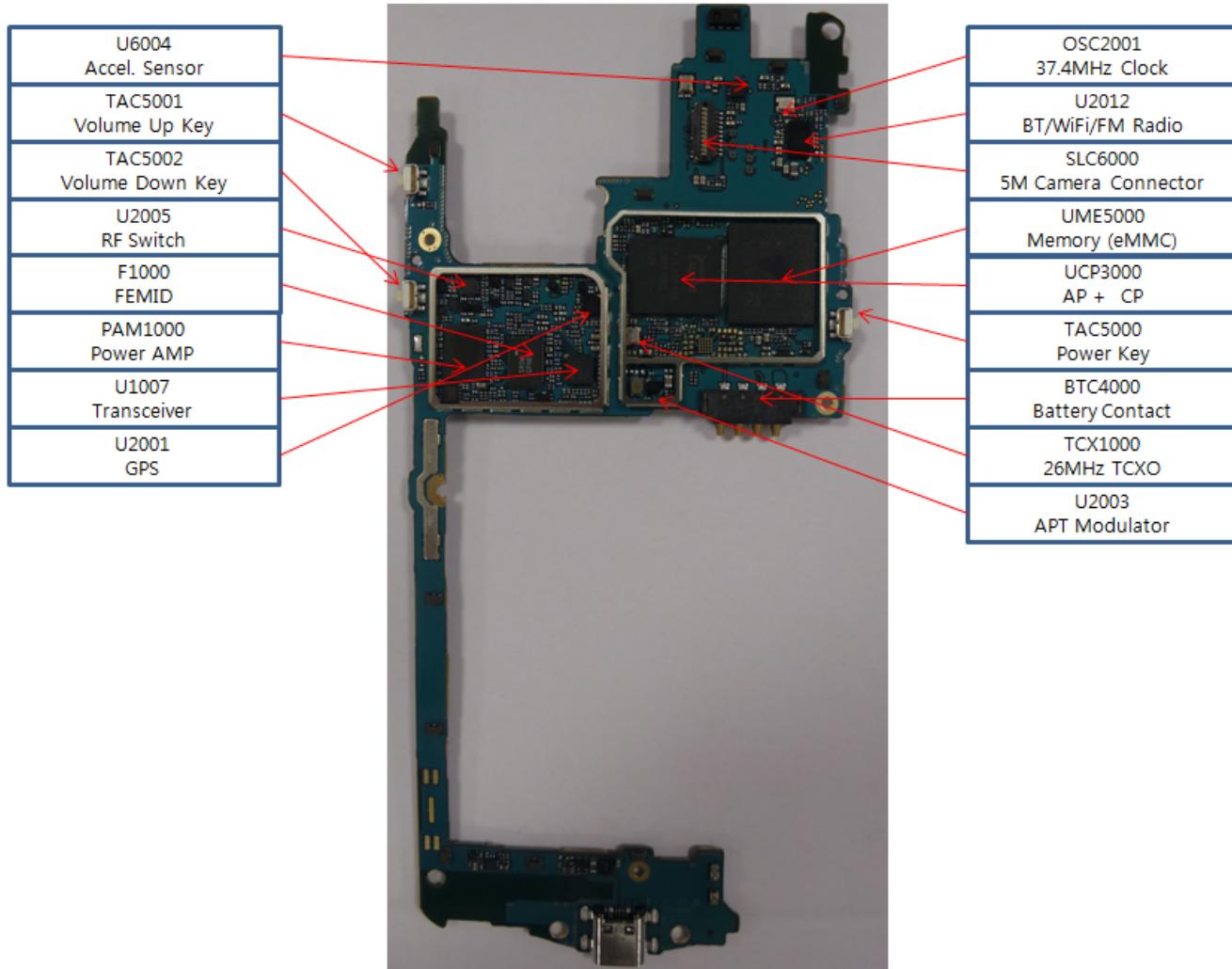


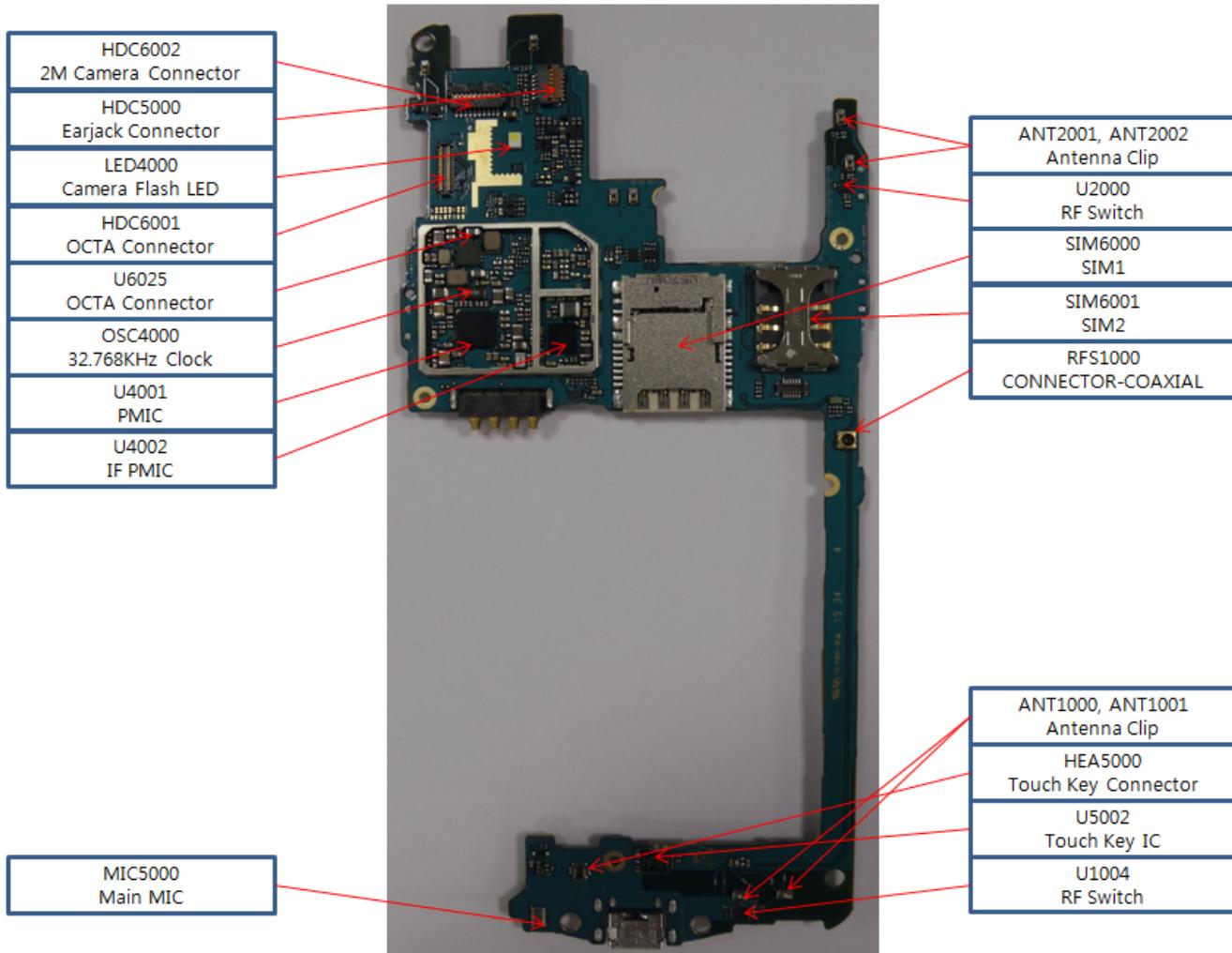
8. Level 3 Repair

8-1. Components Layout

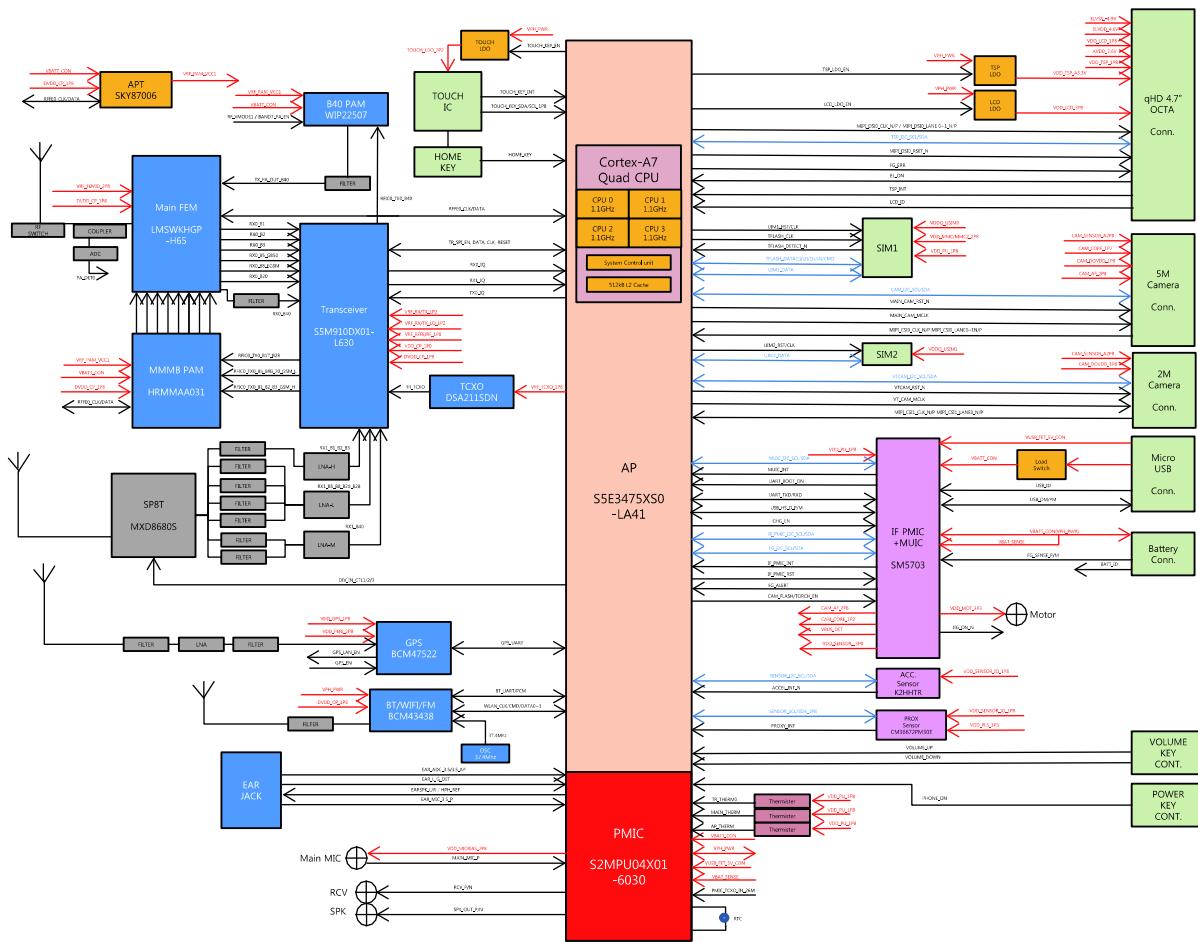
PBA (Top Side)



PBA (Bottom Side)

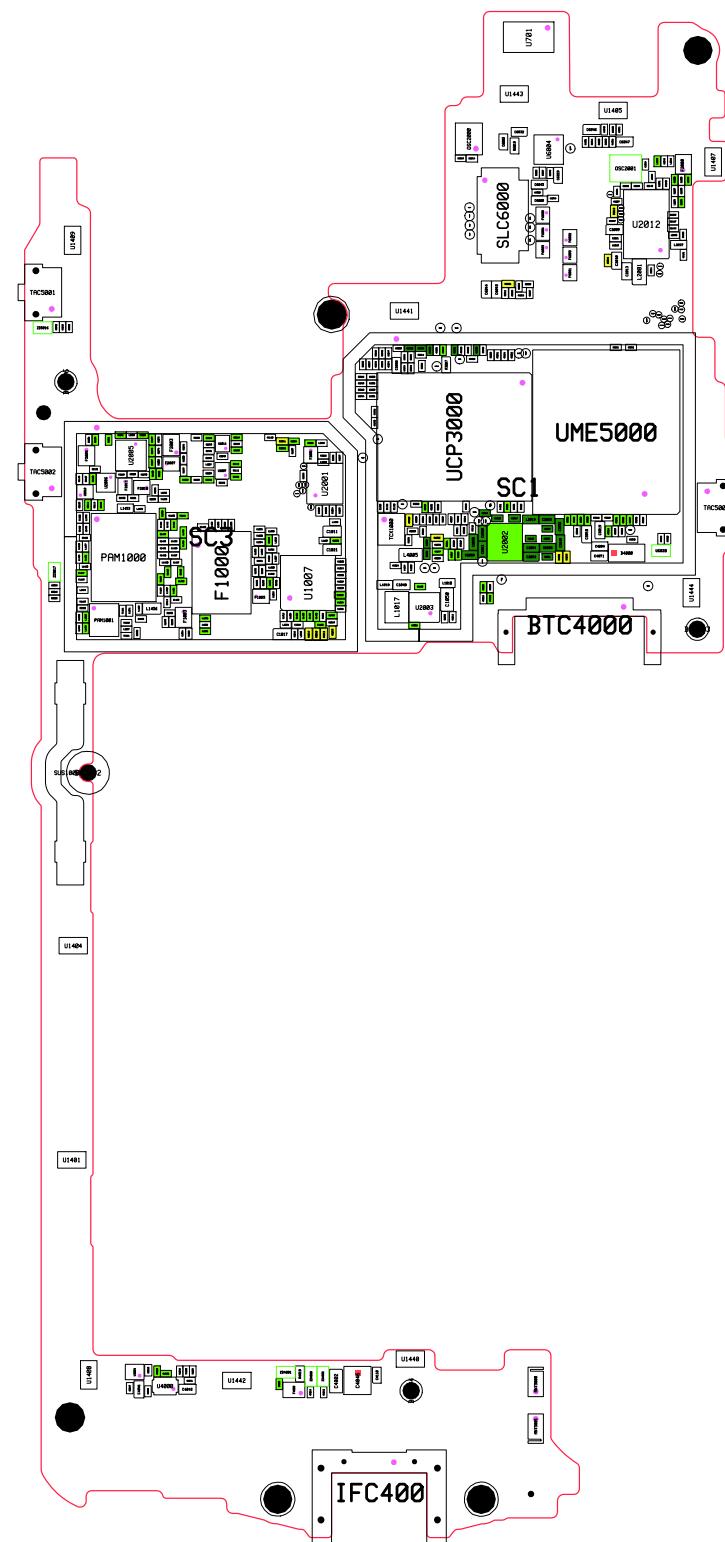


8-2. Block Diagram

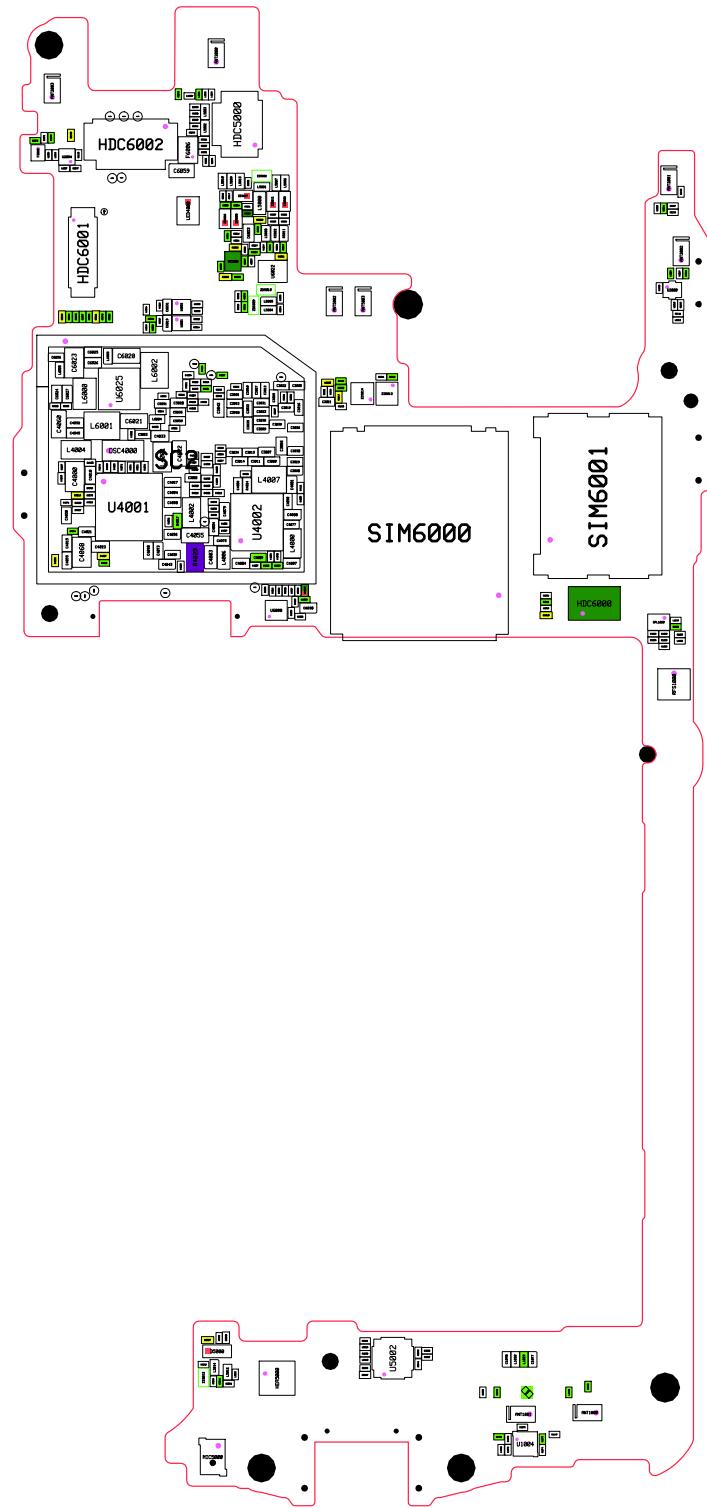


8-3. PCB Diagrams

8-3-1. Top

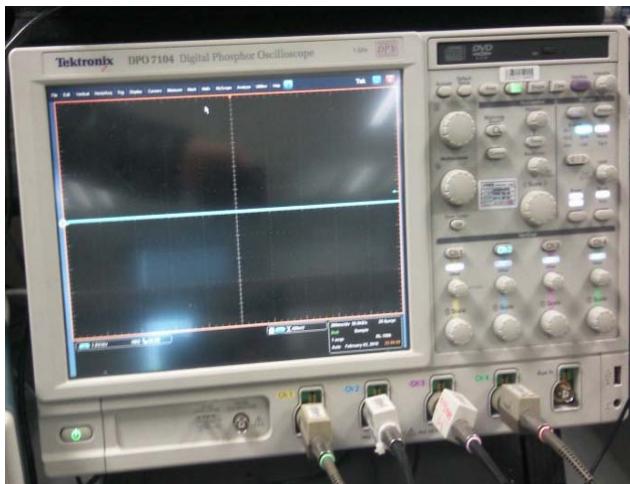


8-3-2. Bottom



8-4. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



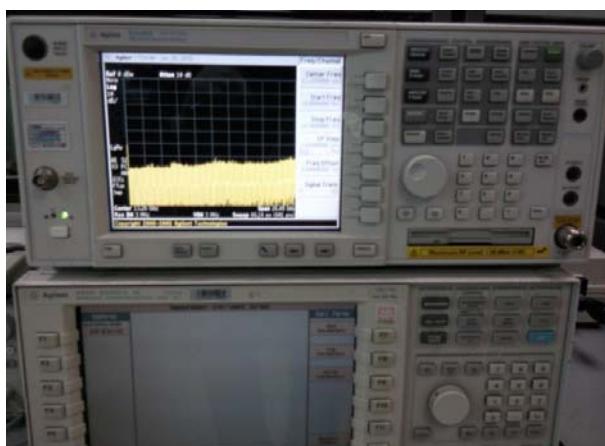
á Digital Multi-meter



á Power Supply



á + driver, ESD Safe Tweezer

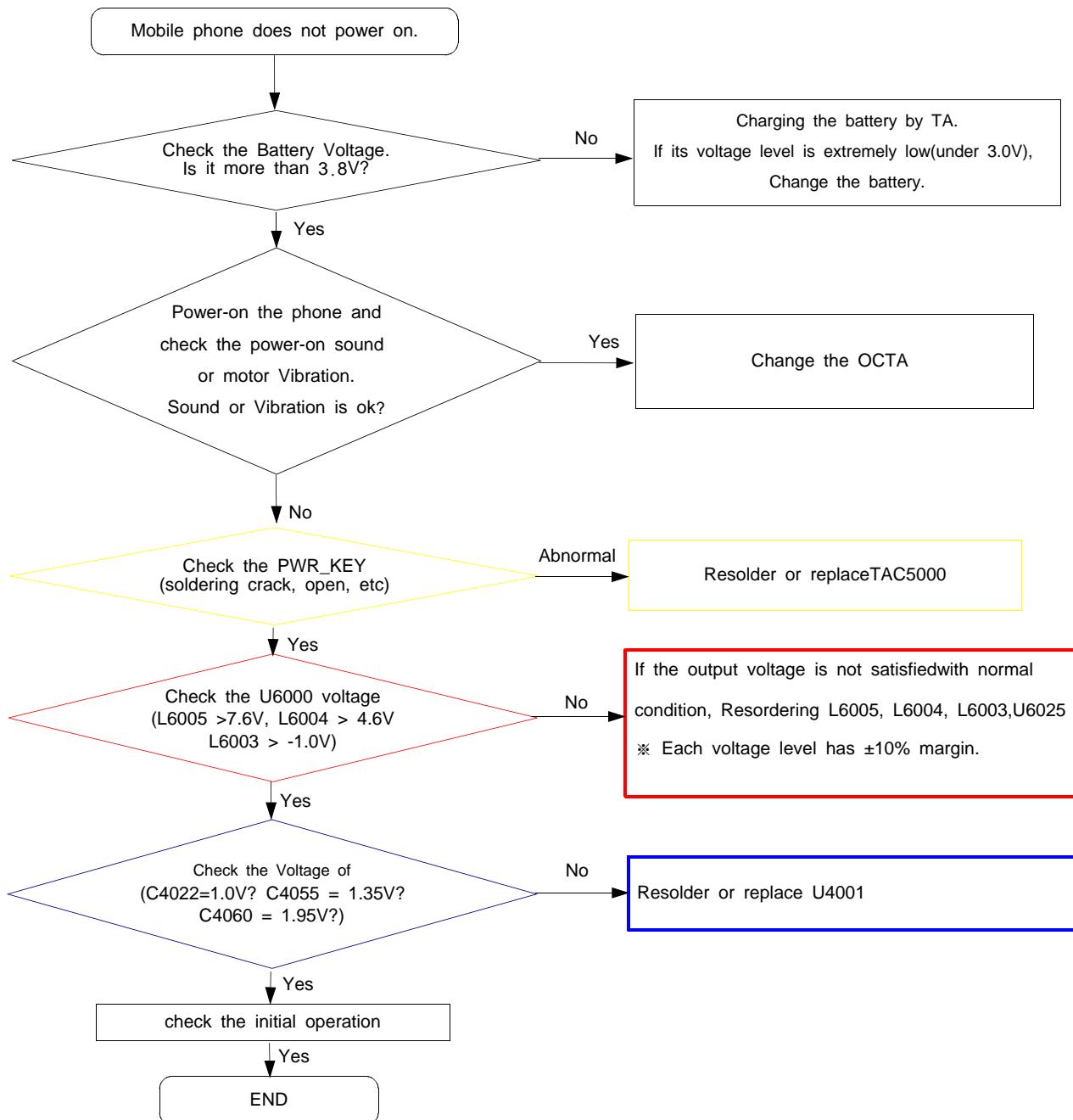


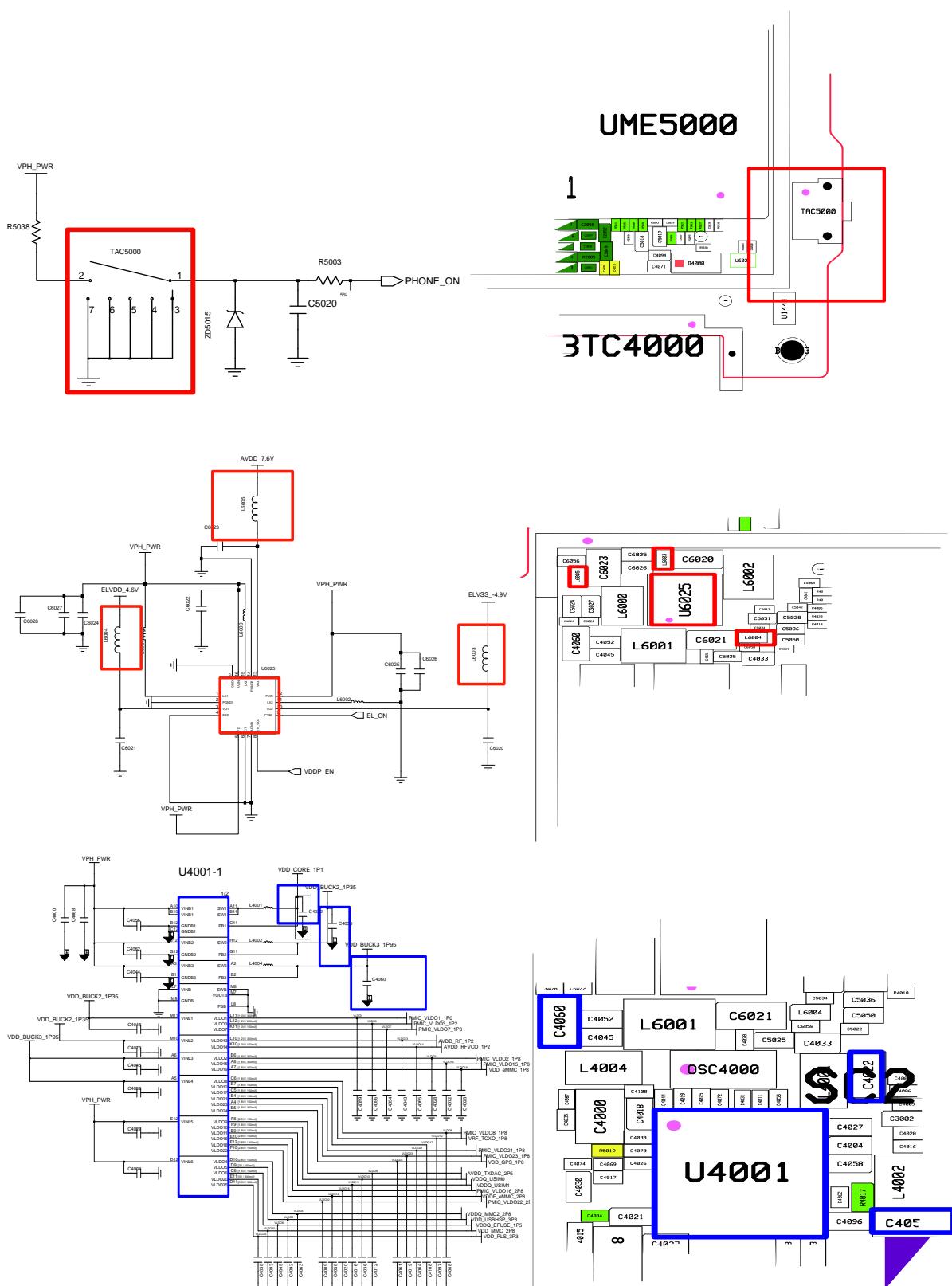
↑ 8960 & Spectrum Analyzer



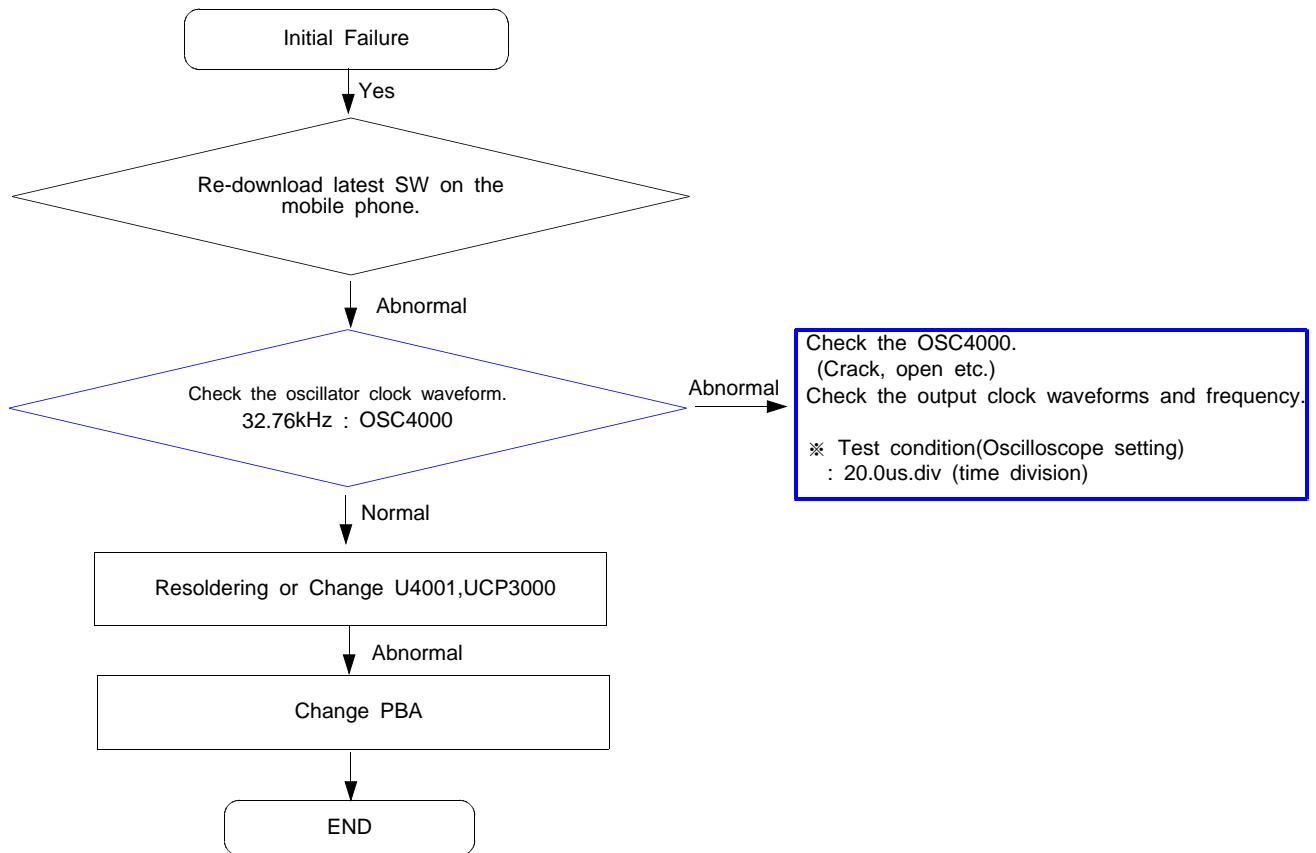
á Soldering iron

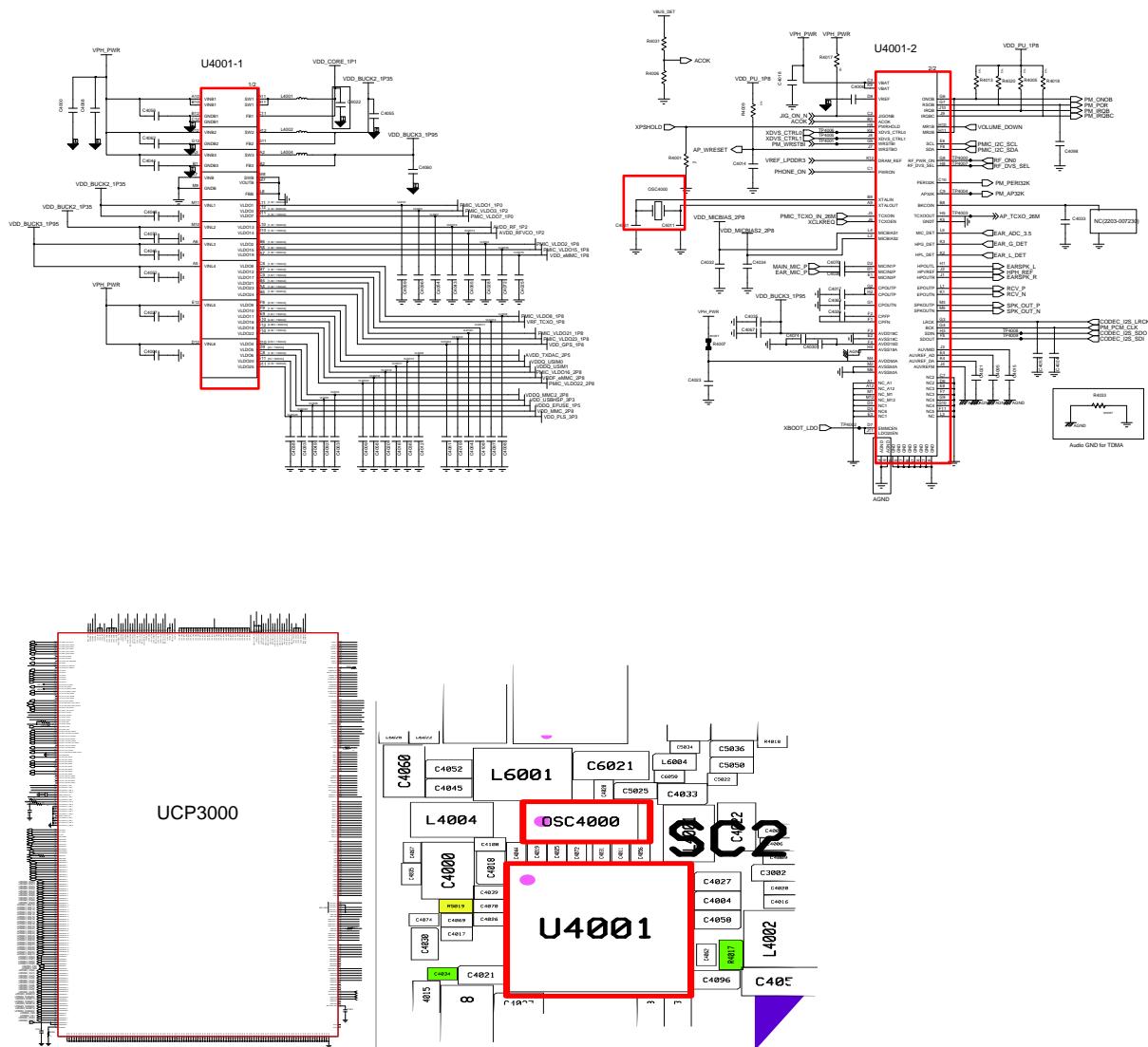
8-4-1. Power On



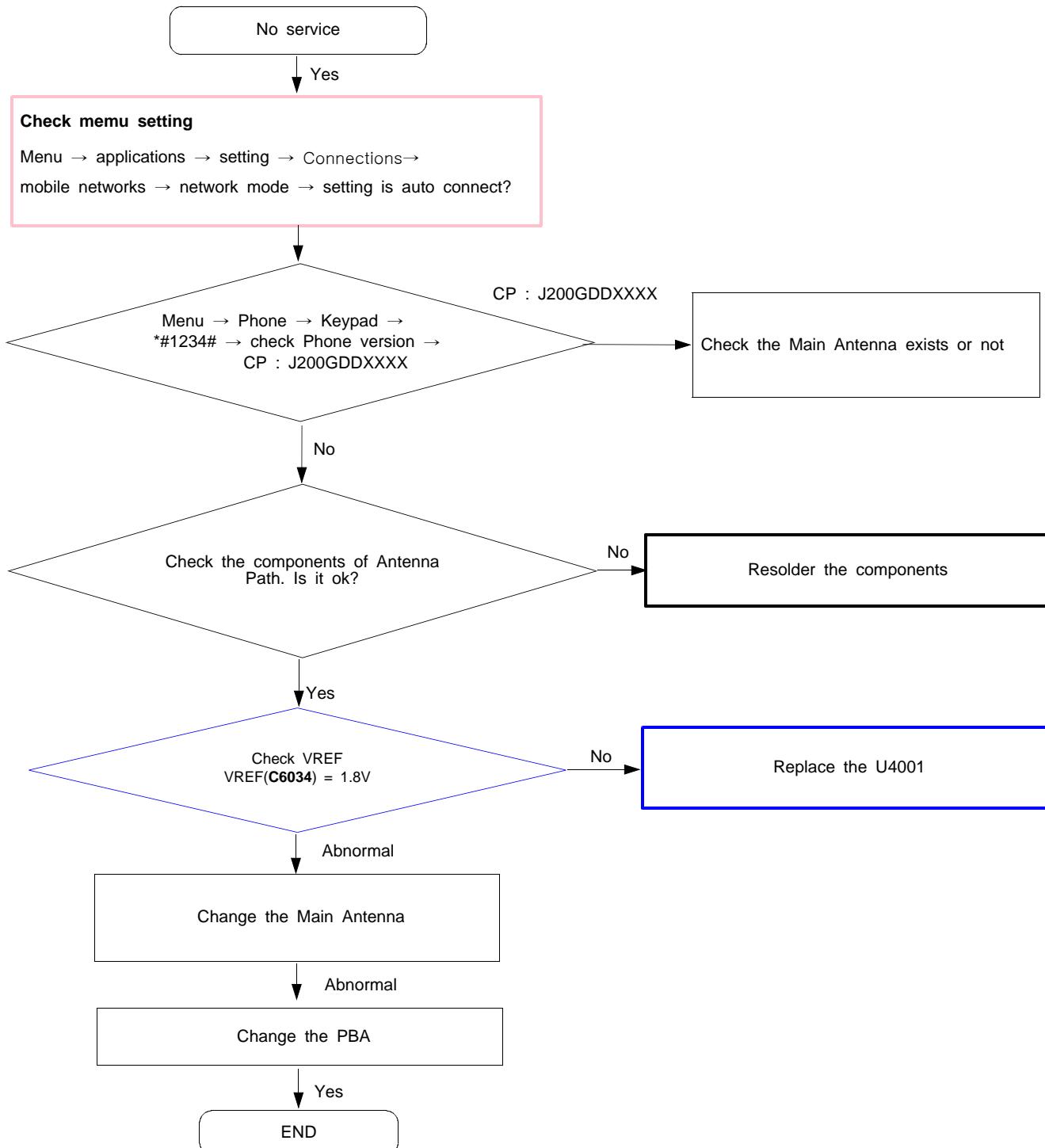


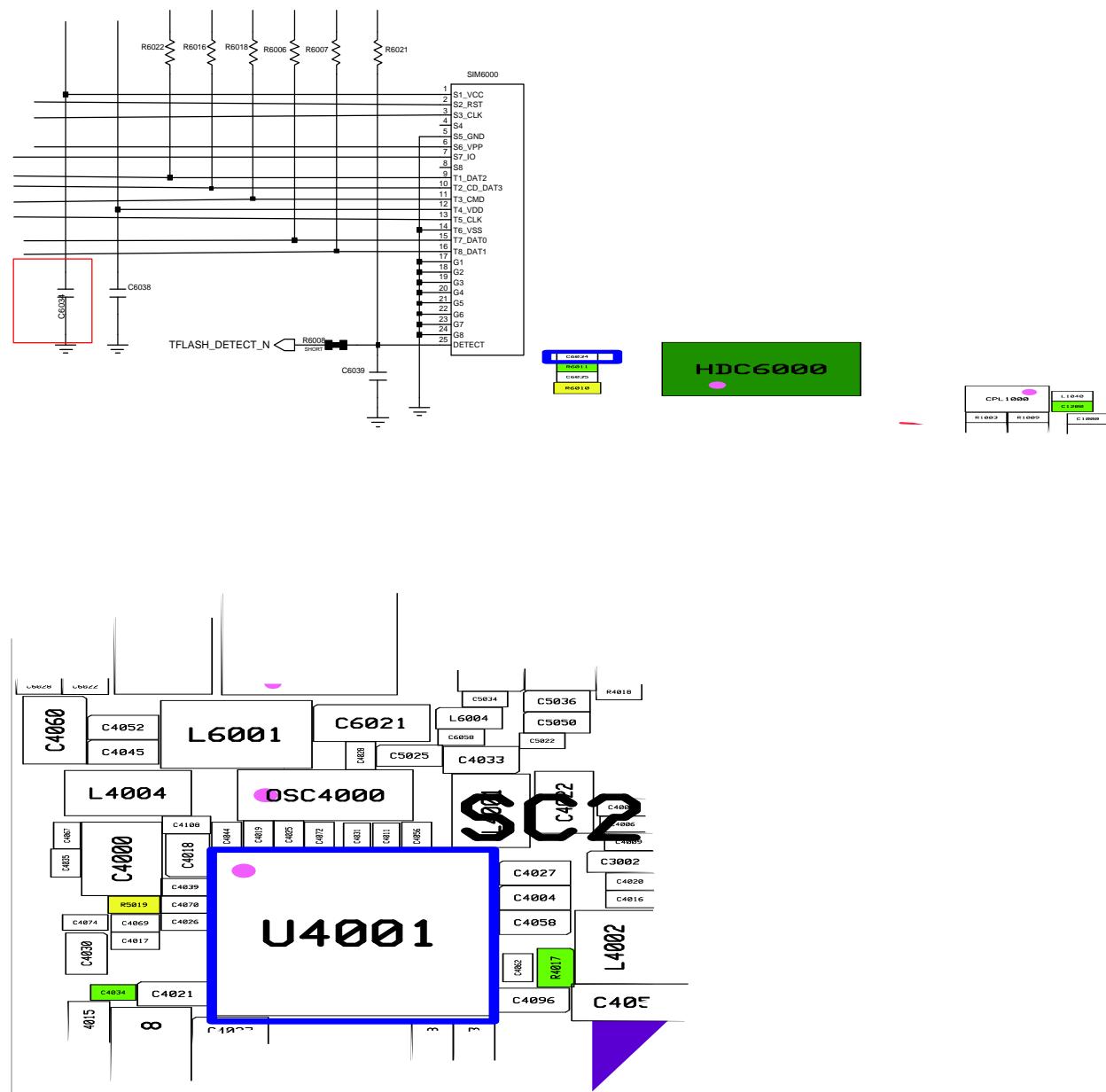
8-4-2. Initial



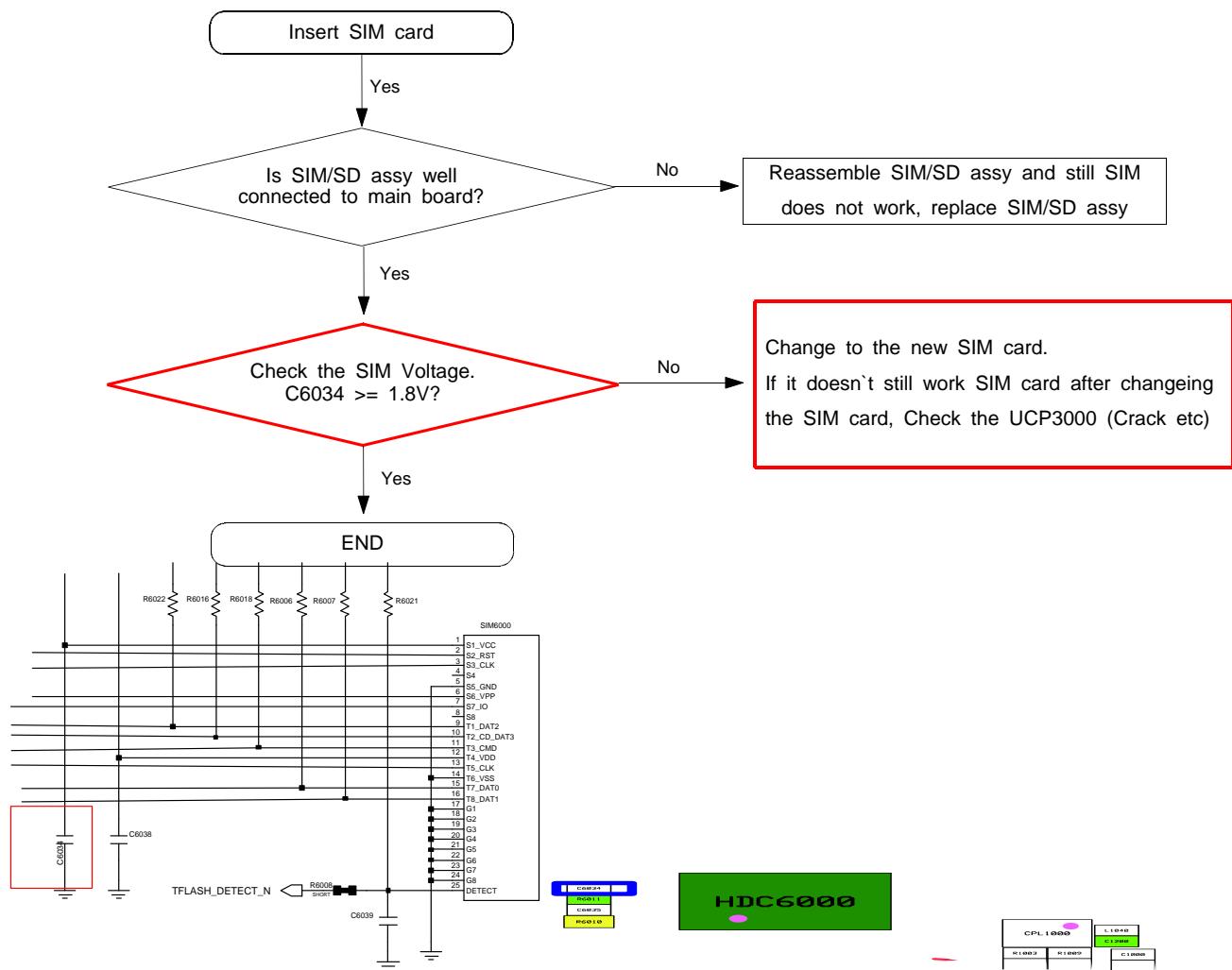


8-4-3. No Service



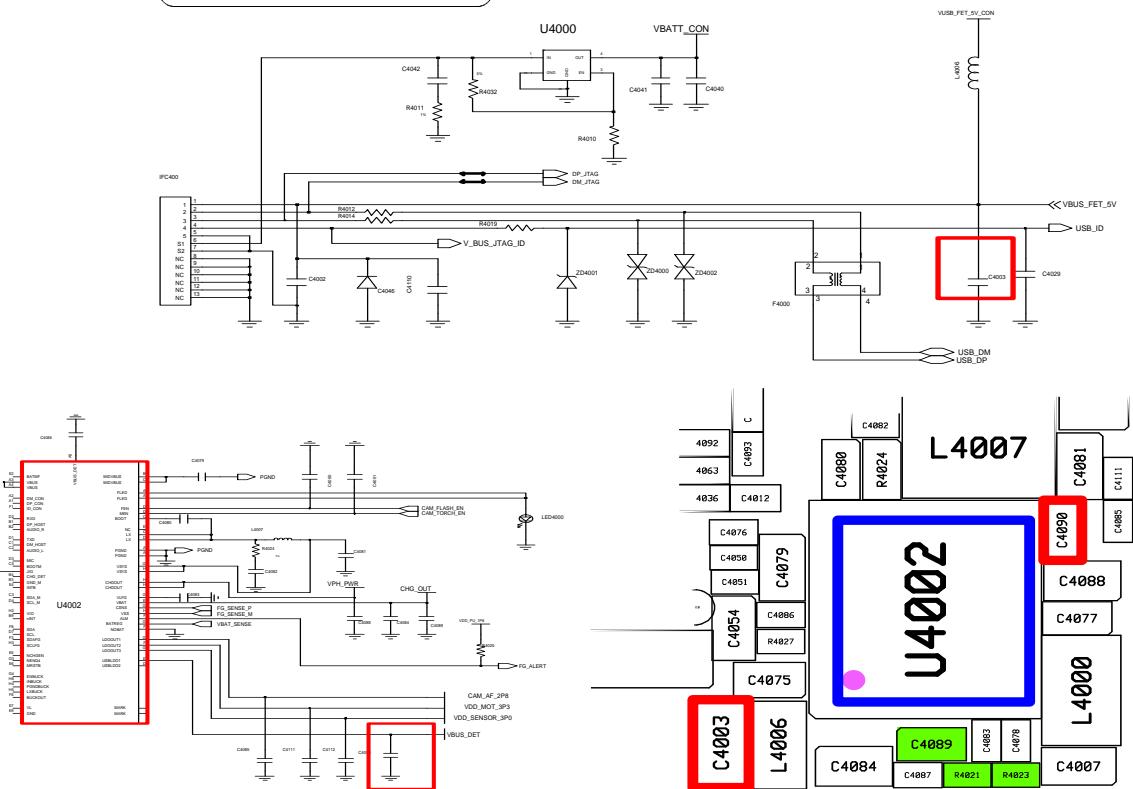
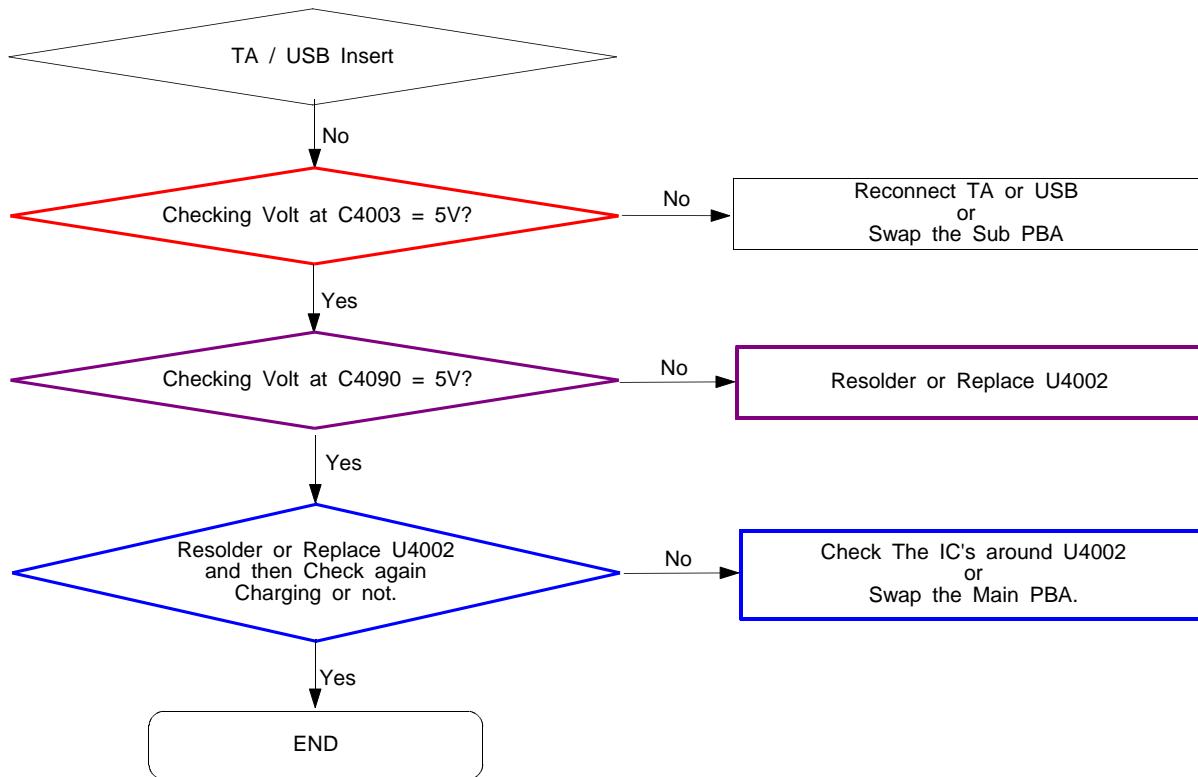


8-4-4. Sim Part

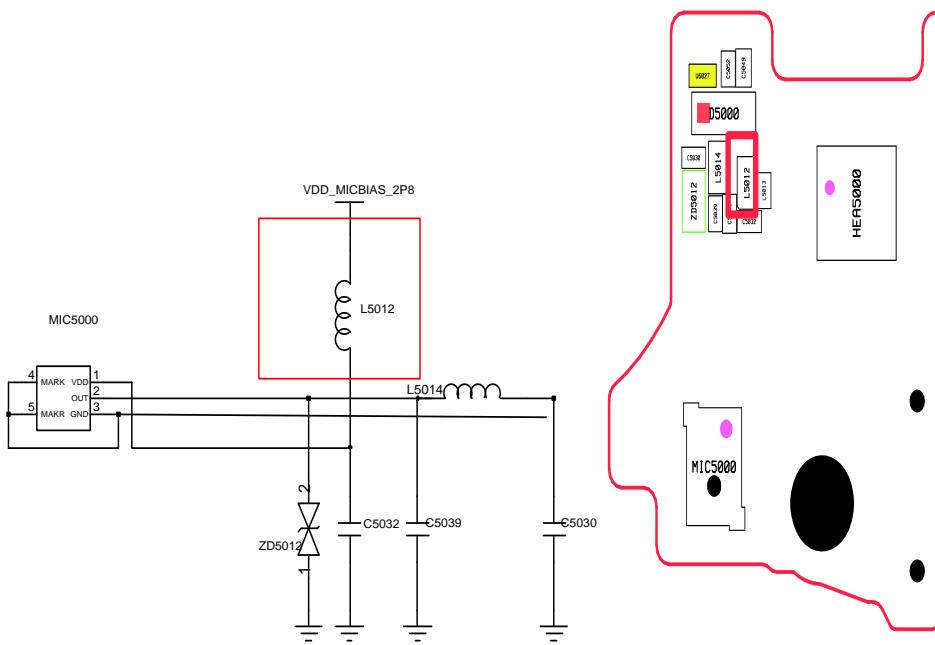
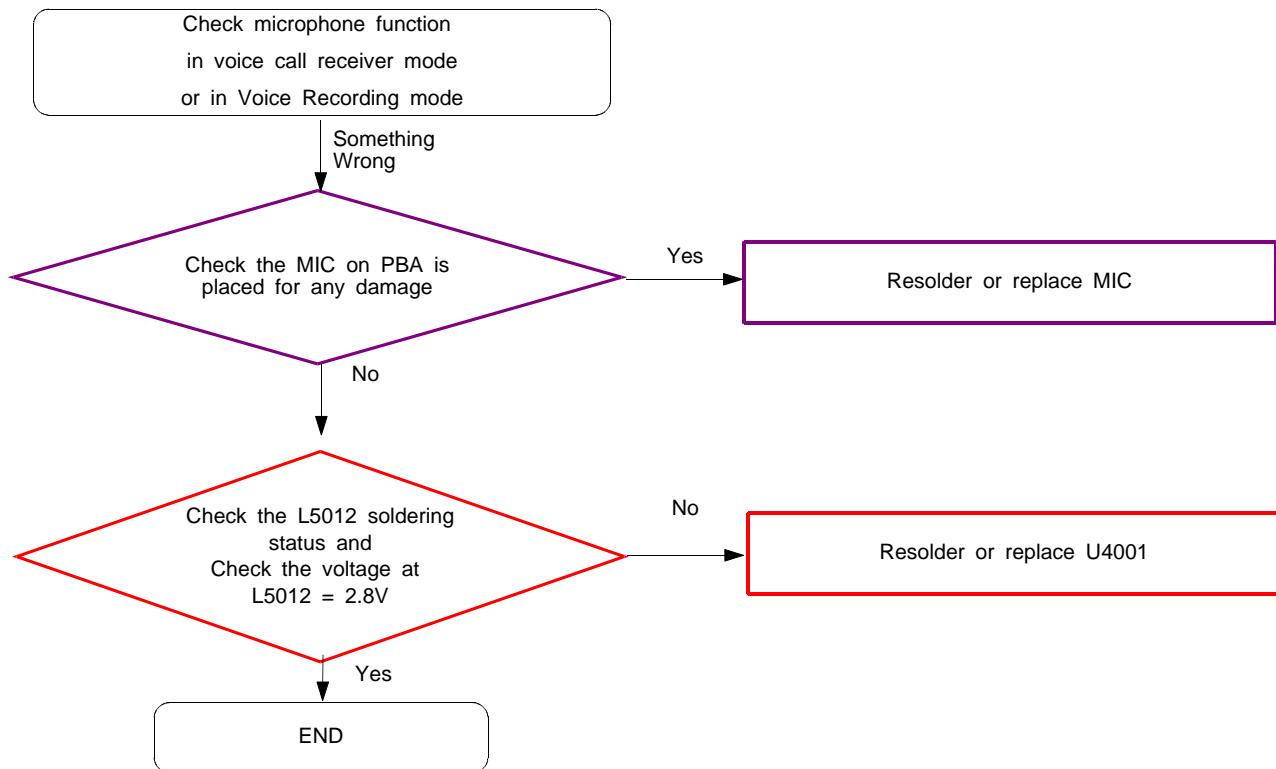


8-4-5. Charging Part

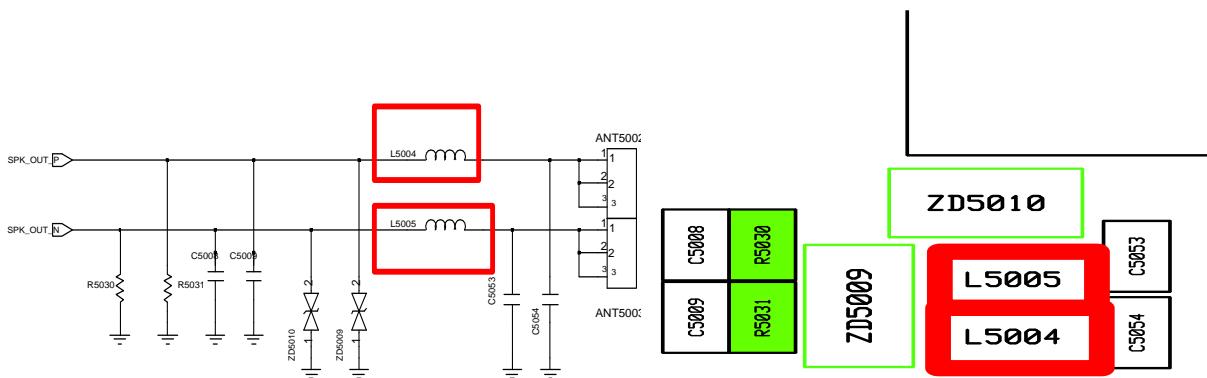
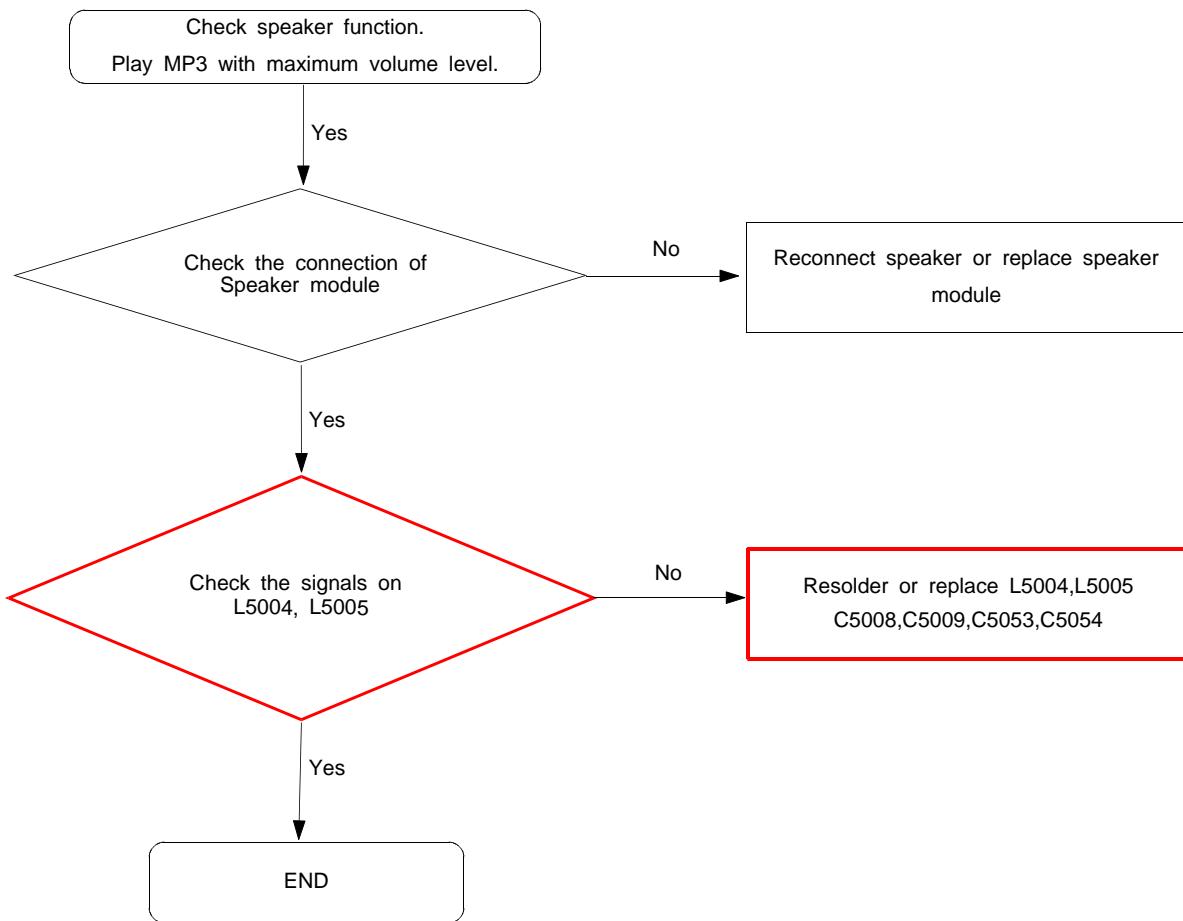
- First of all, Please check the battery status.



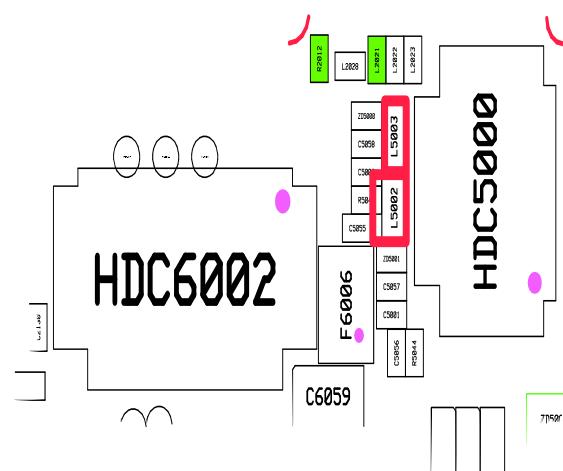
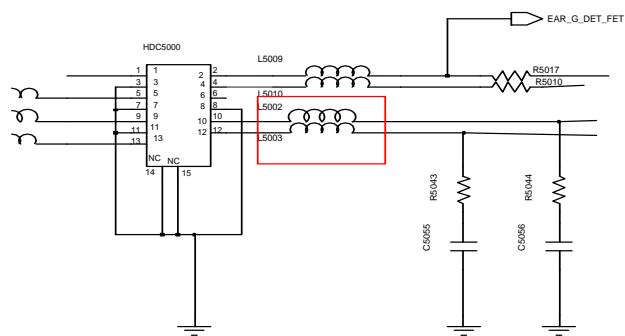
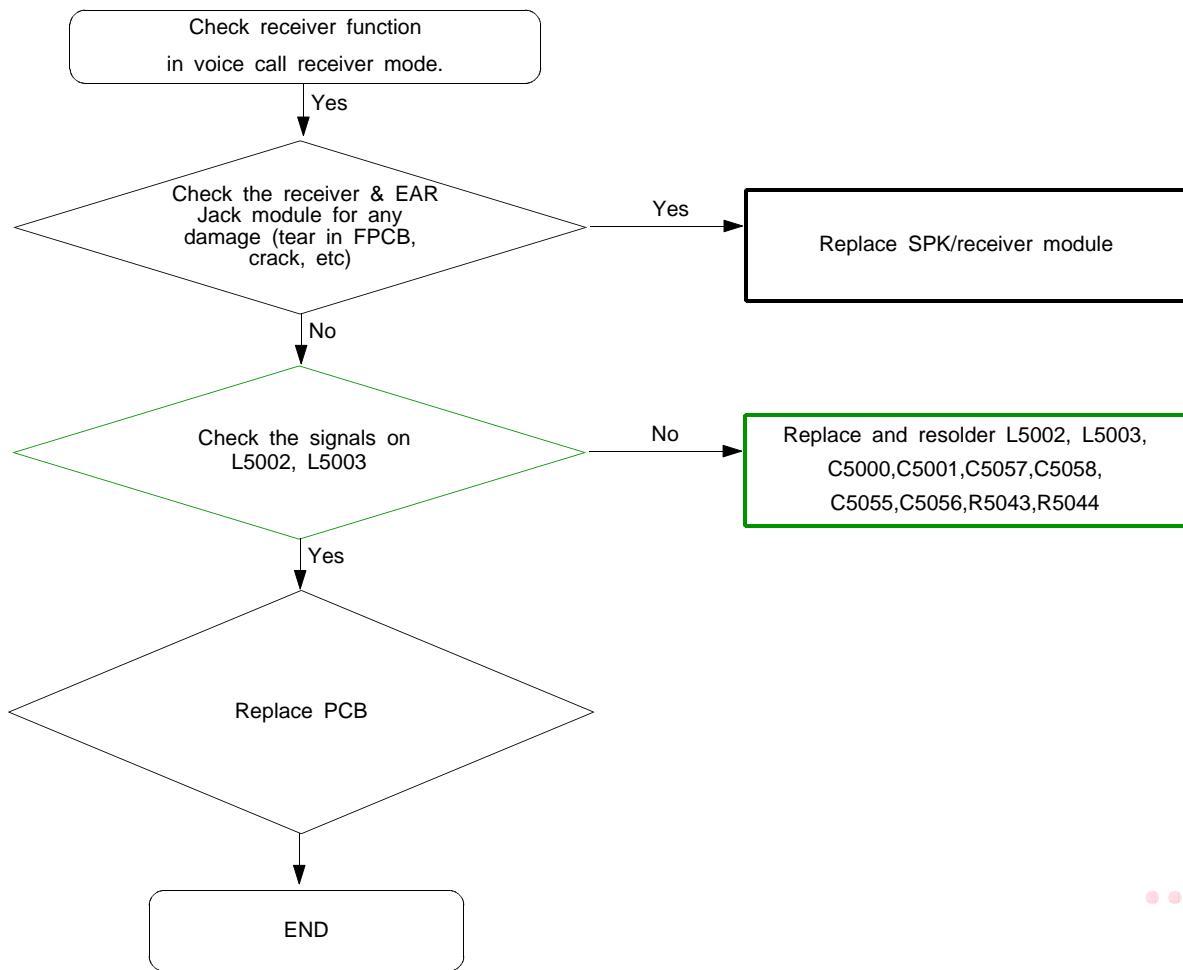
8-4-6. Microphone Part



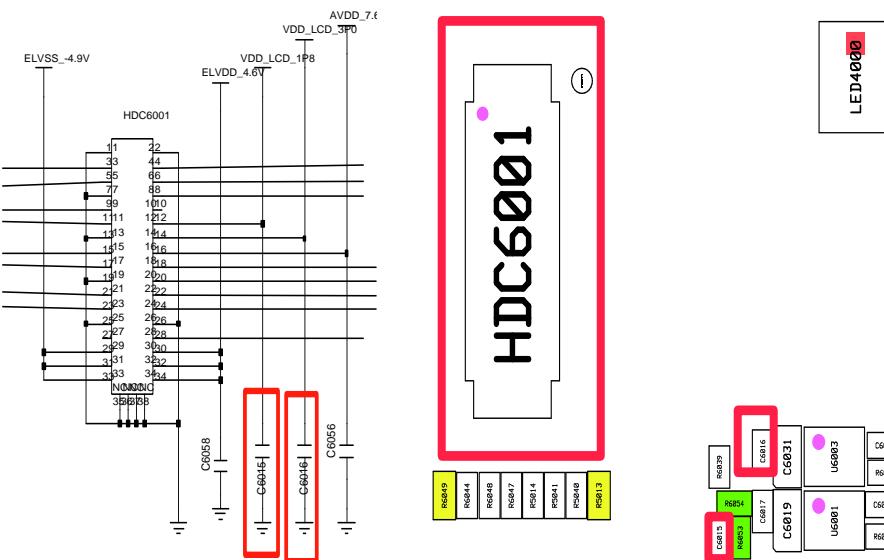
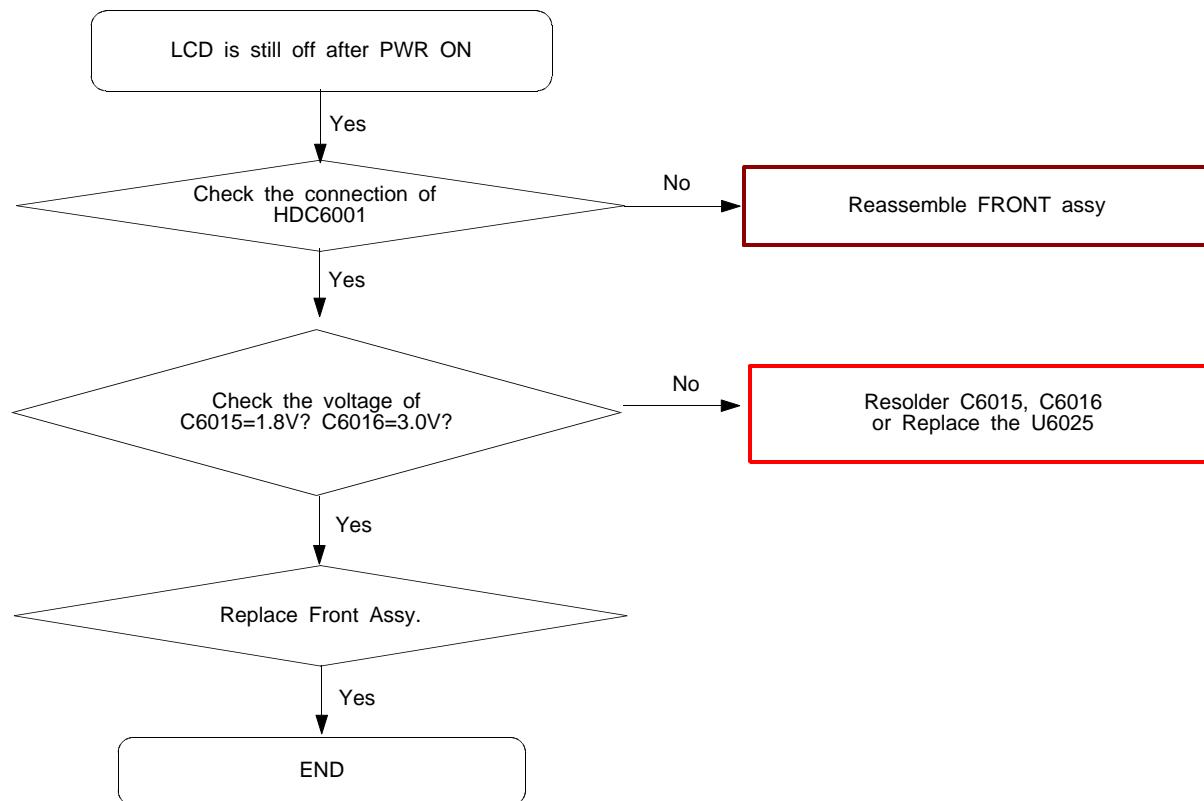
8-4-7. Speaker Part



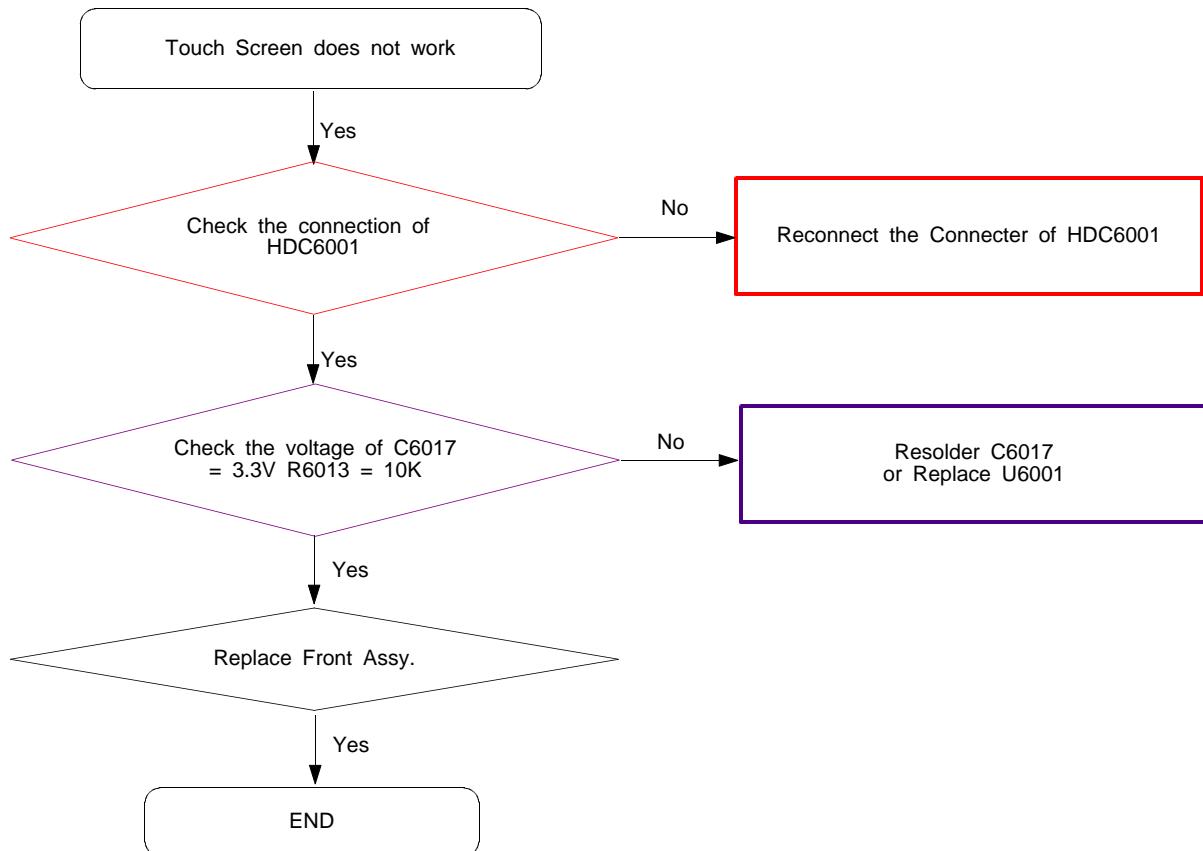
8-4-8 Receiver Part



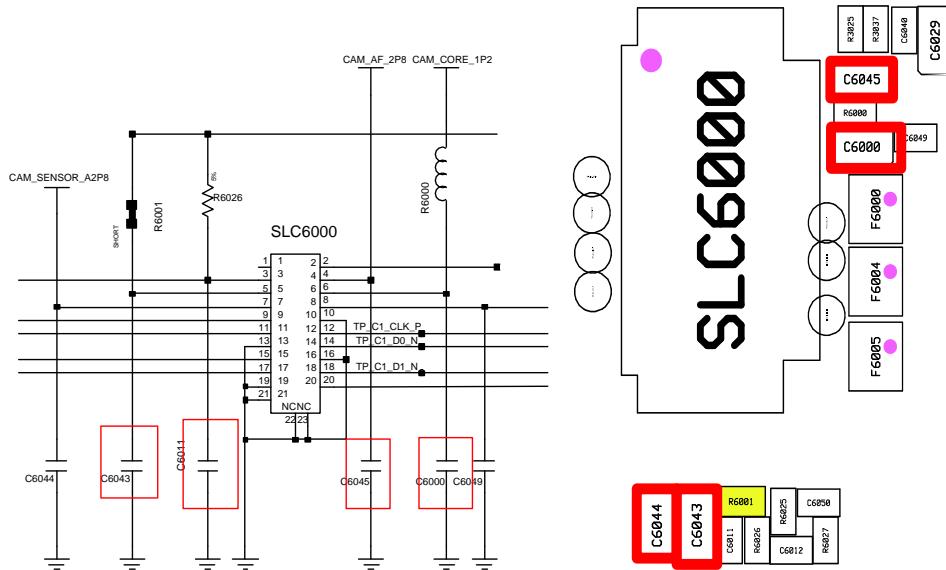
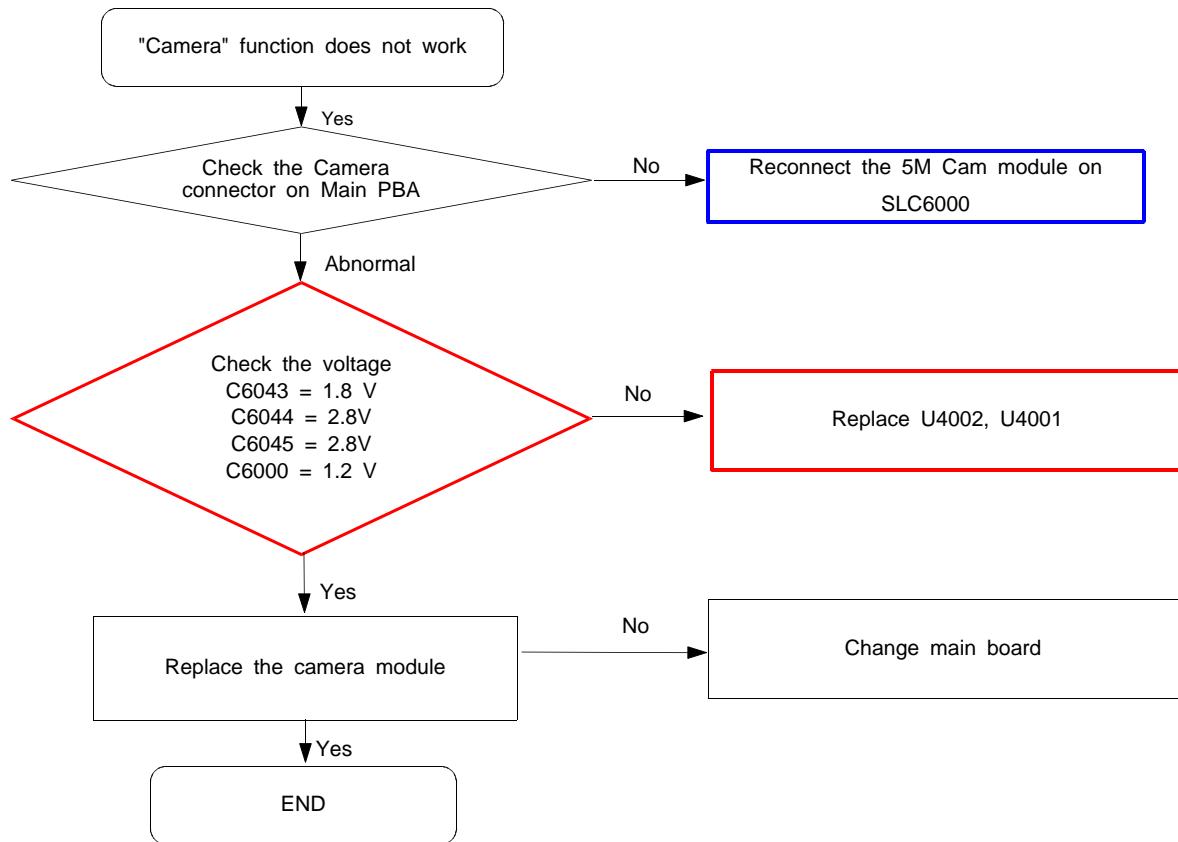
8-4-9. LCD



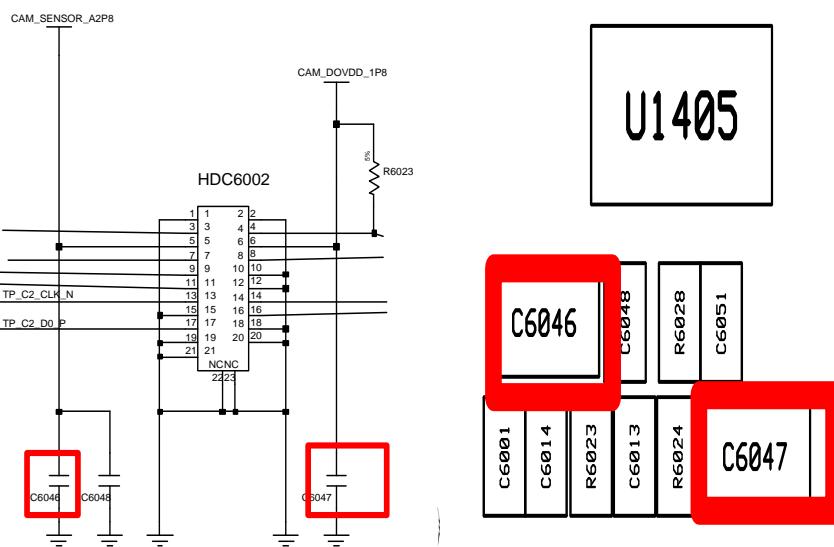
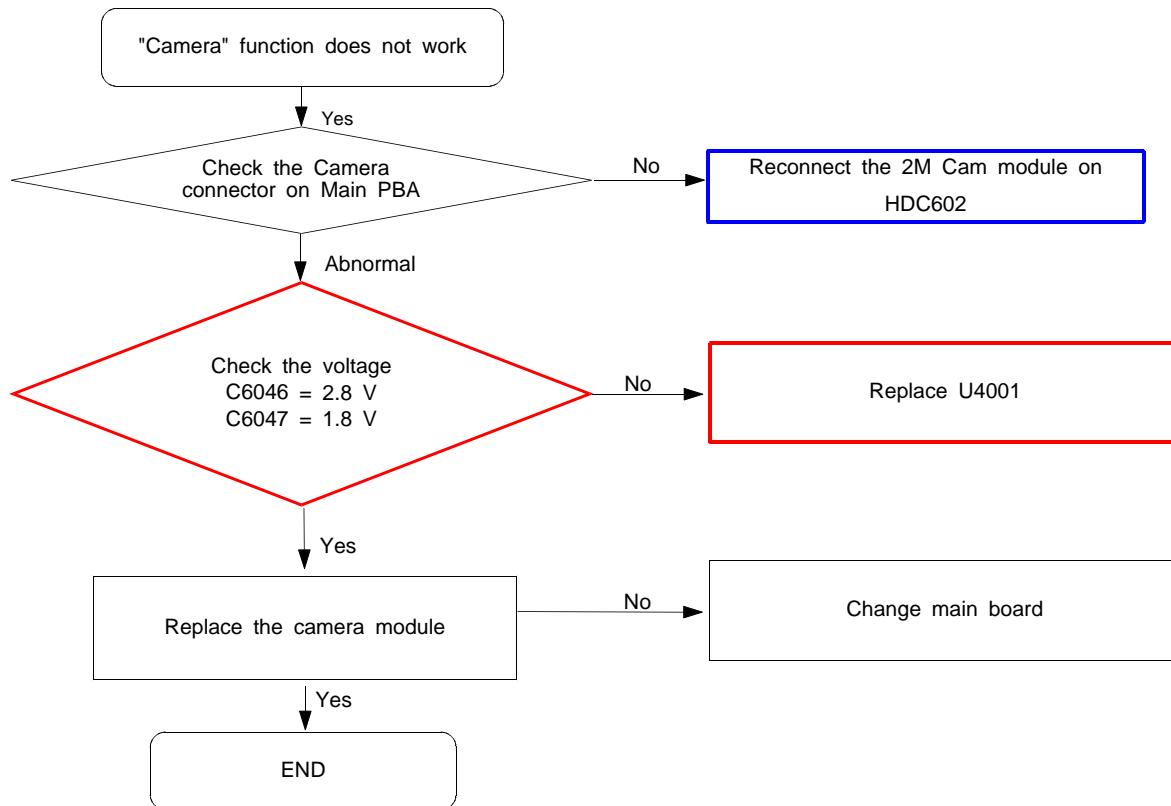
8-4-10. TSP



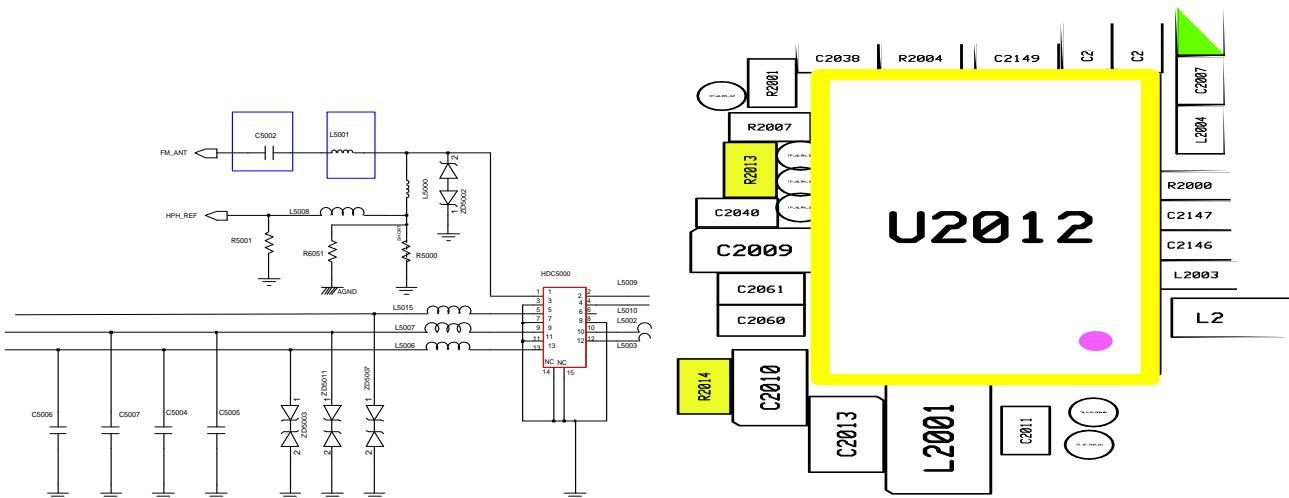
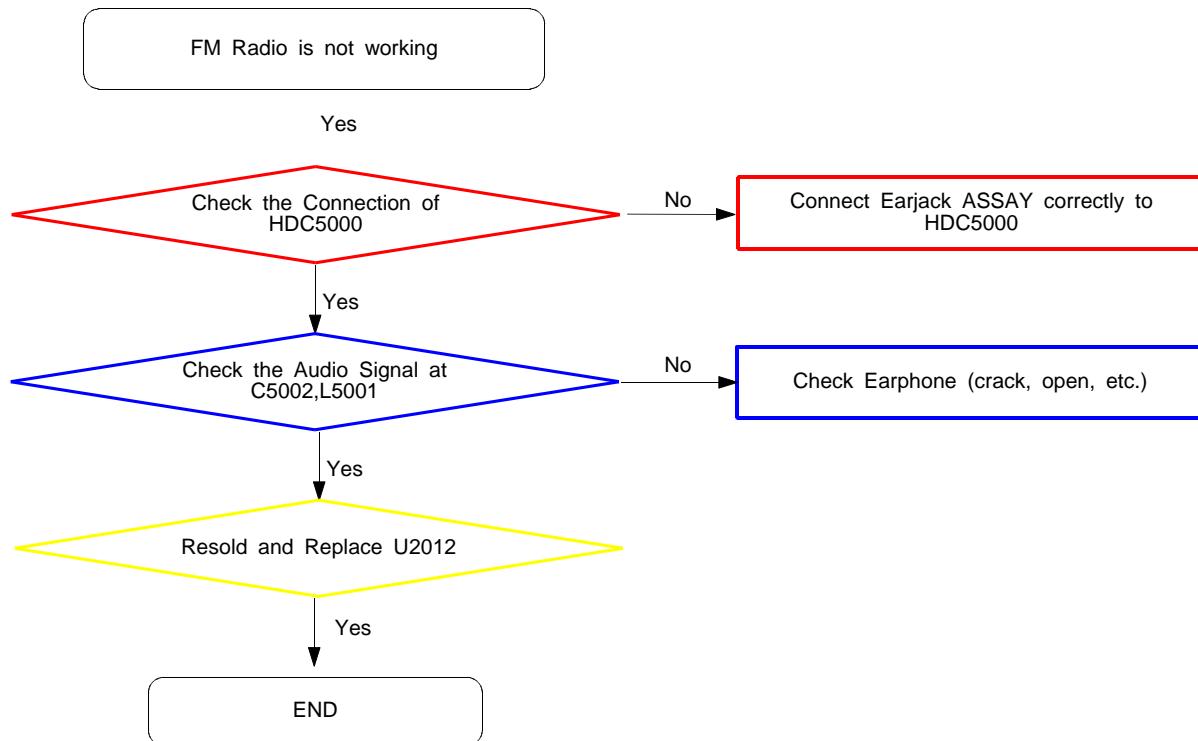
8-4-11. 5M CAM

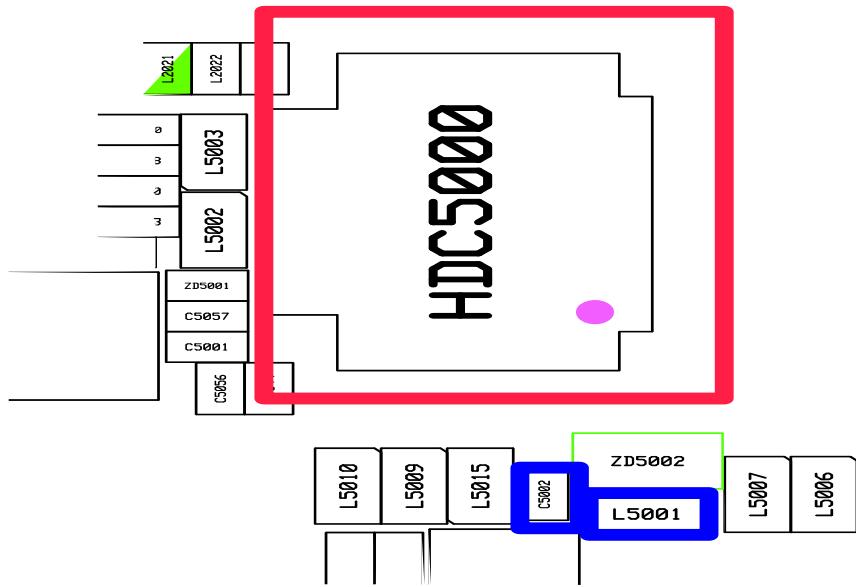


8-4-12. 2M CAM

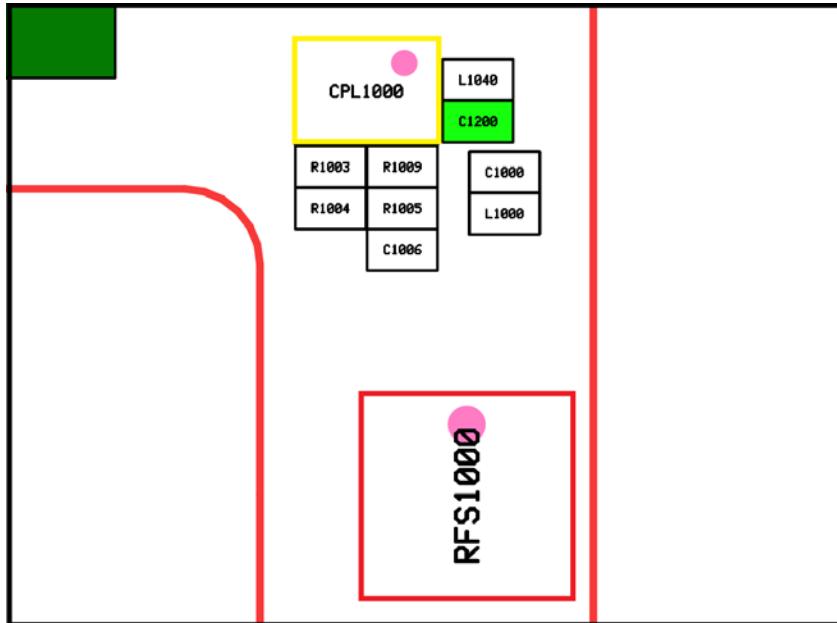
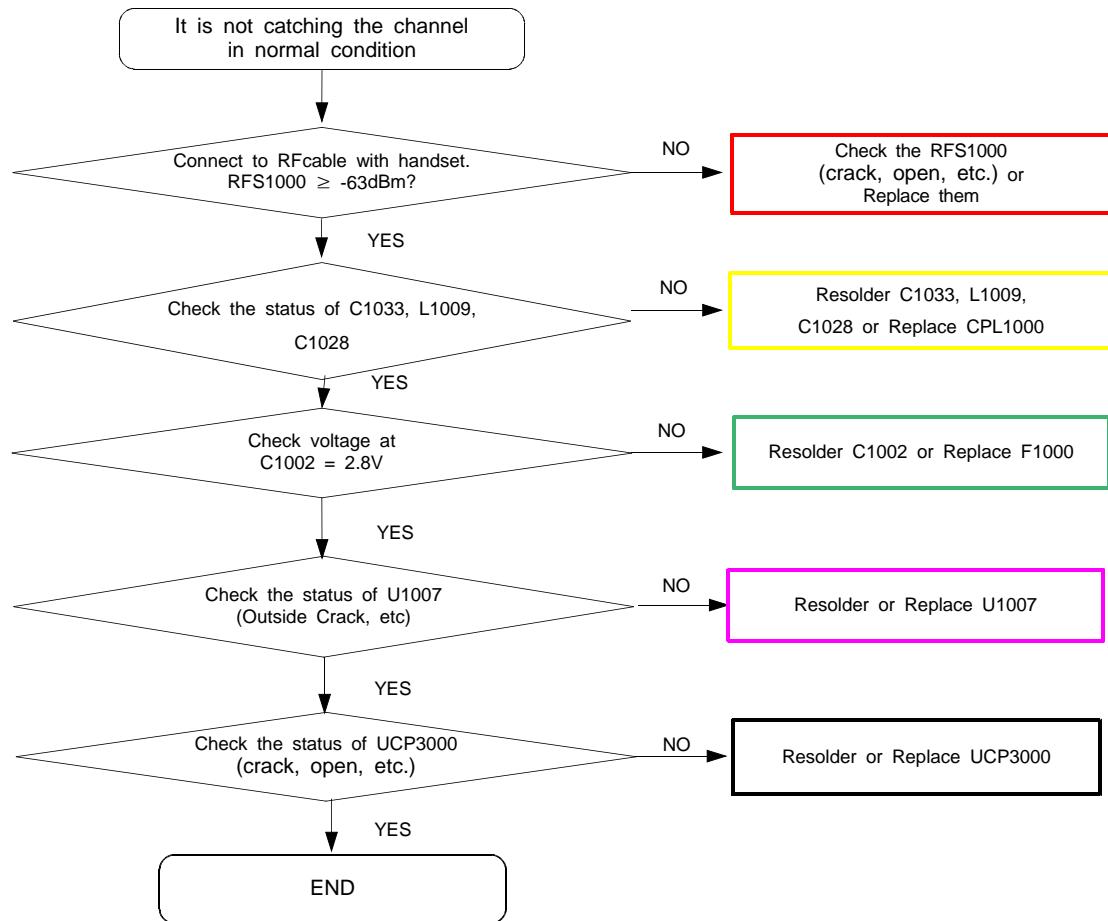


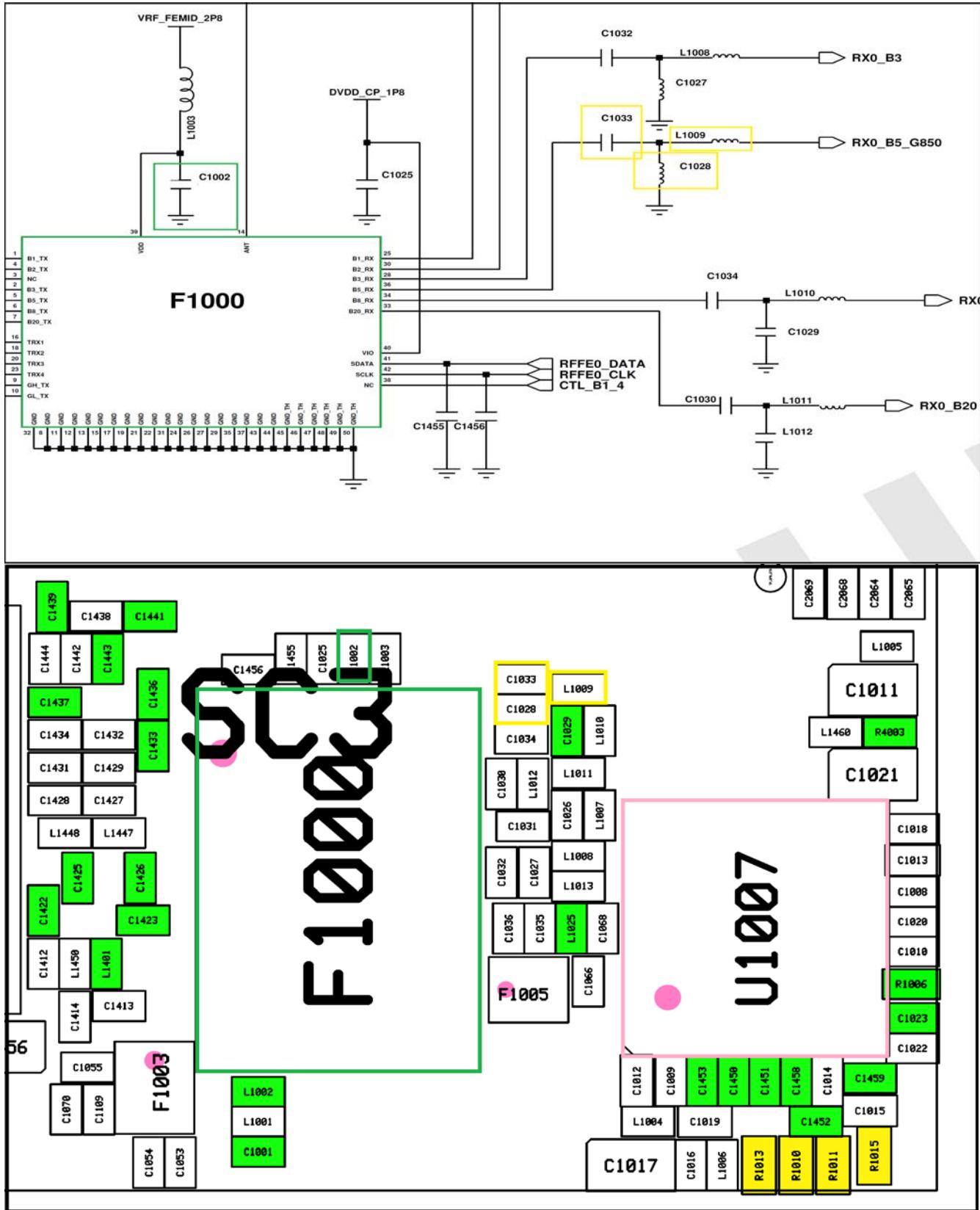
8-4-13. FM radio

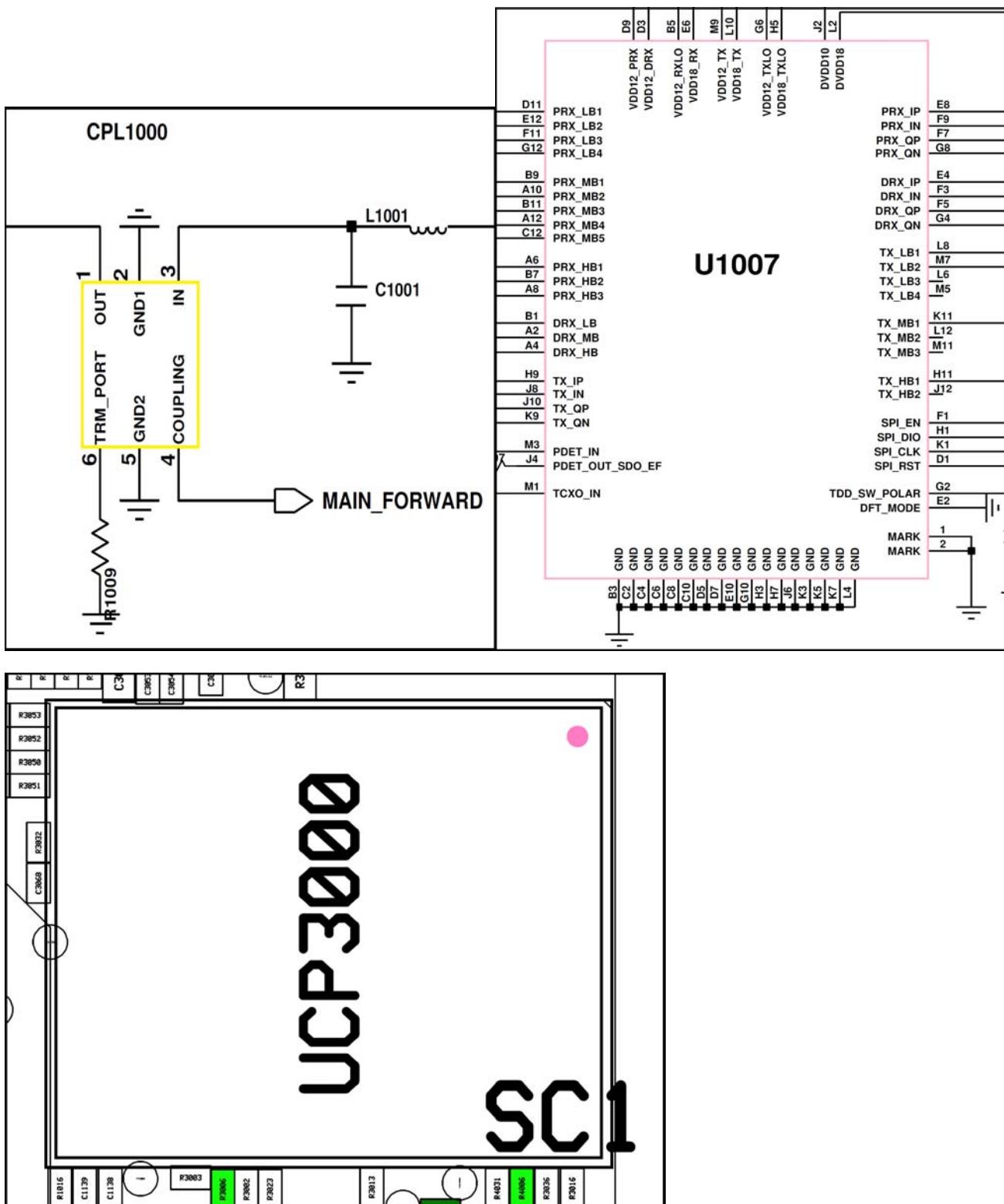




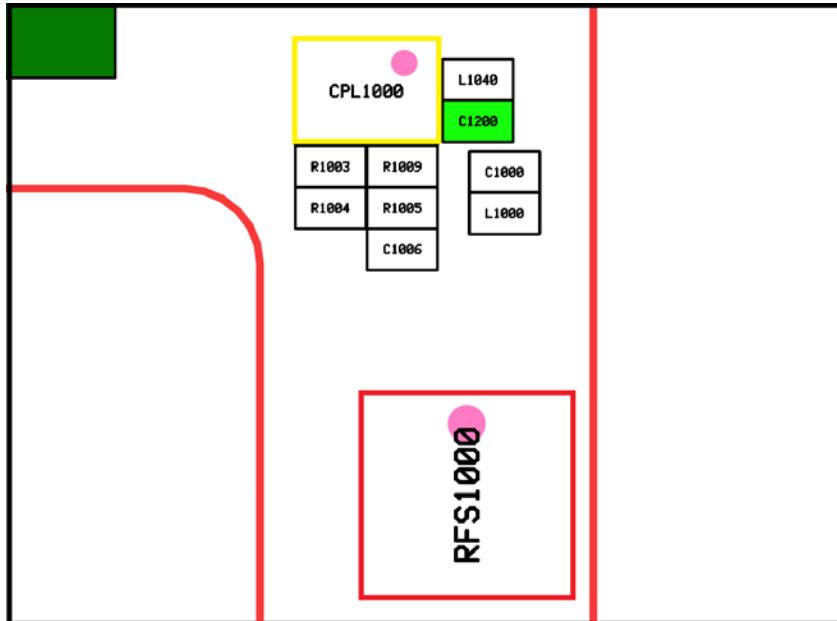
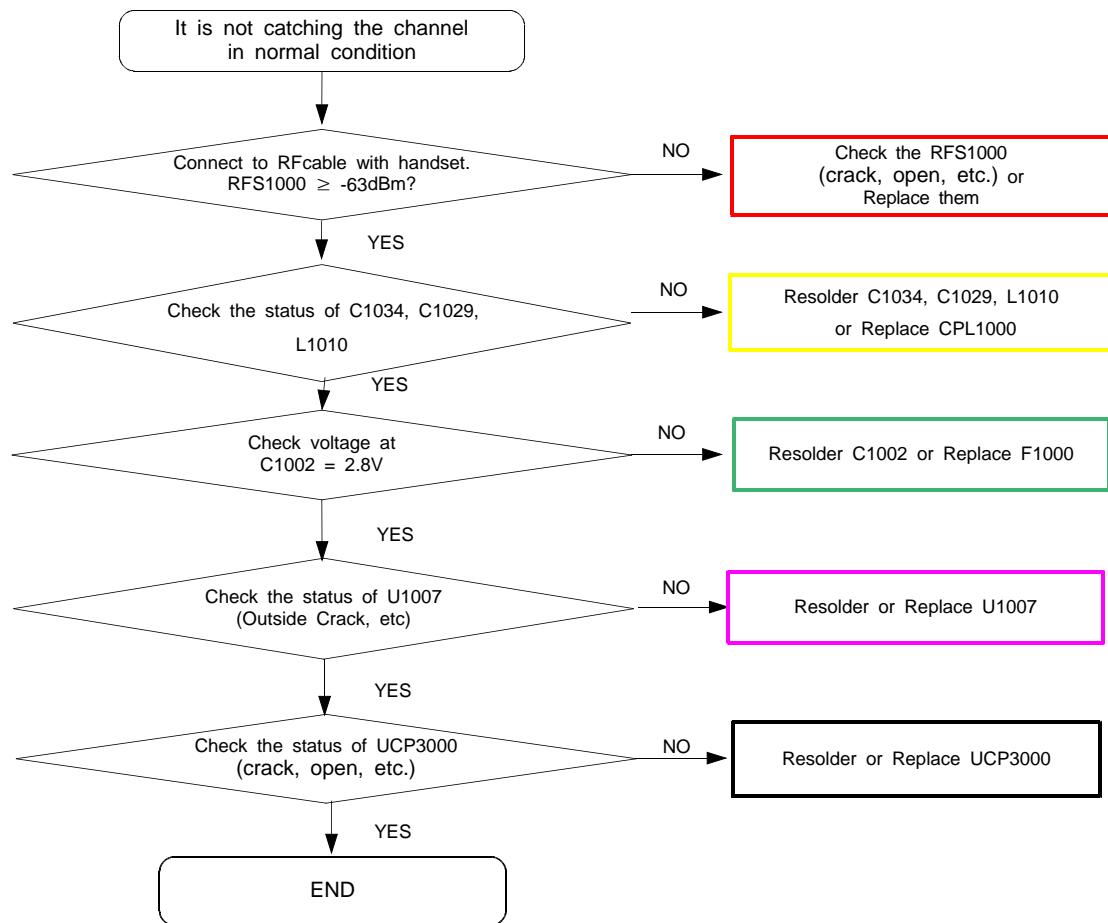
8-4-14. GSM850 / WCDMA Band5 / LTE Band5 Rx

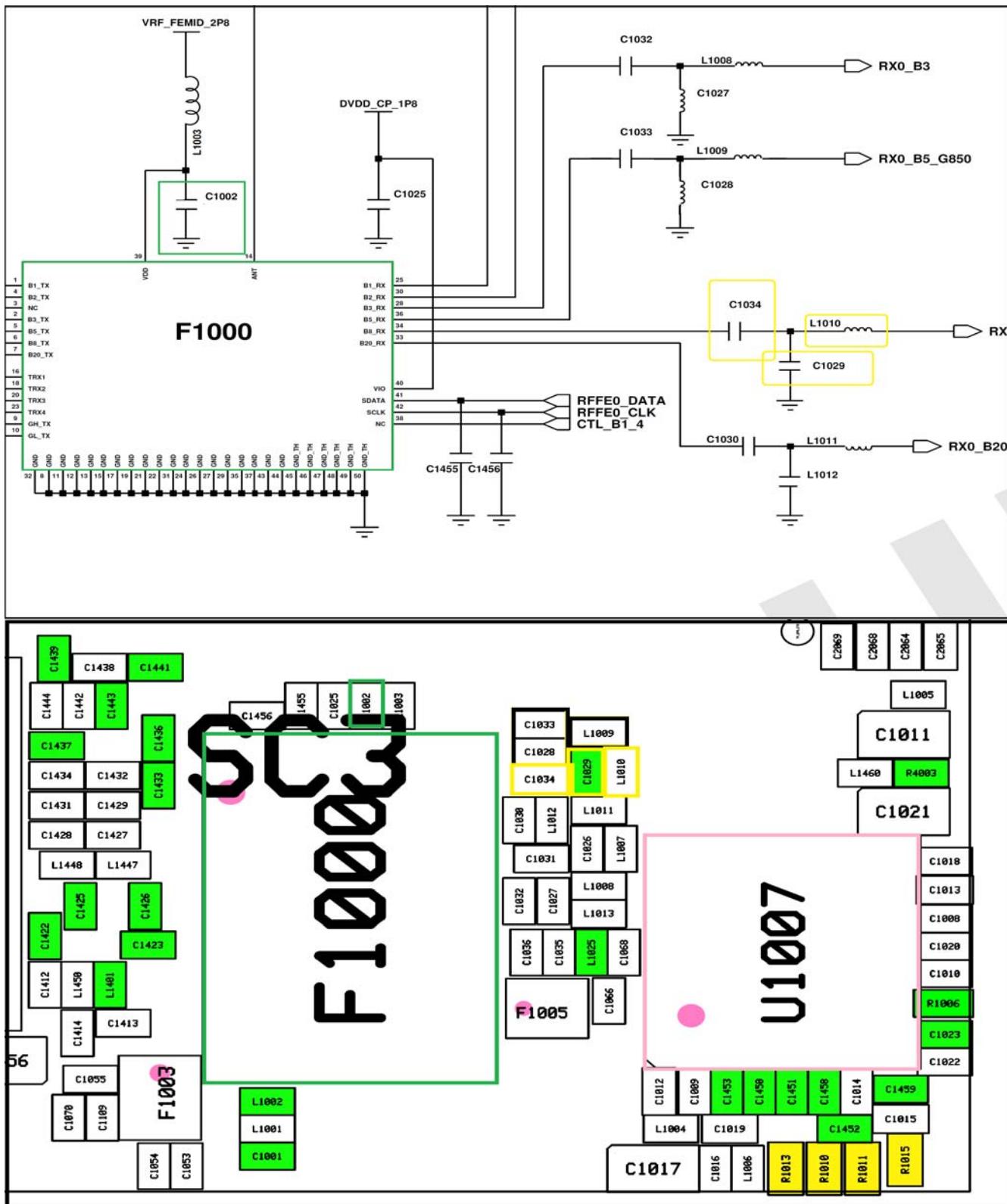


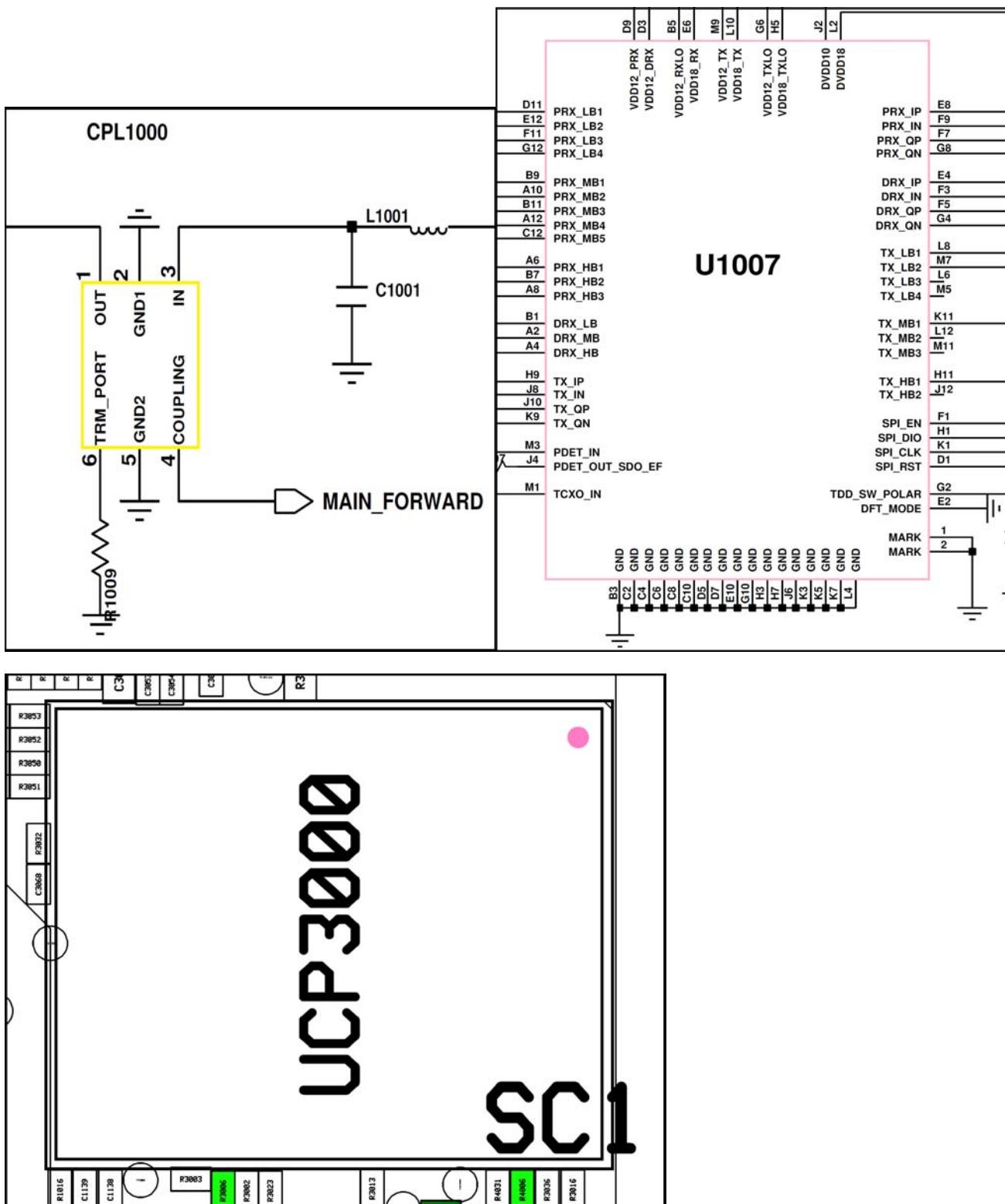




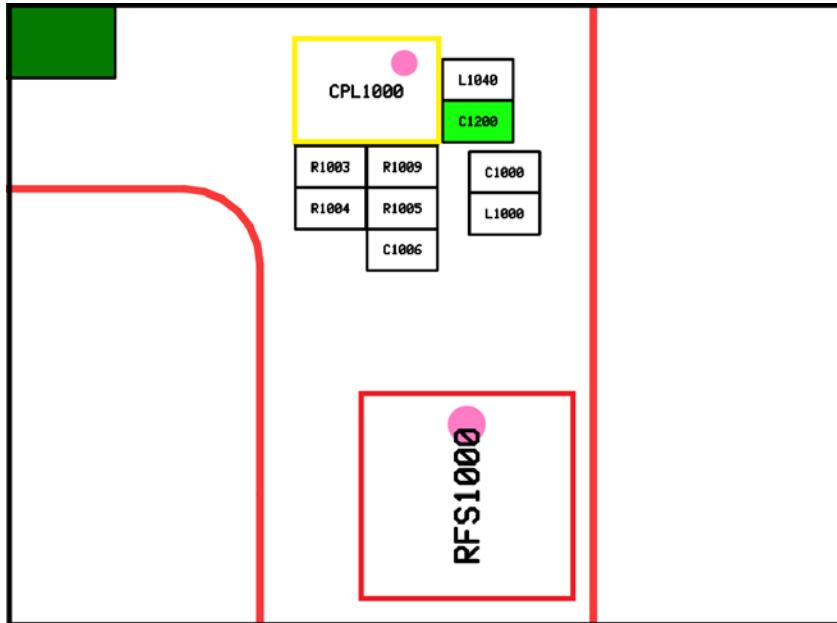
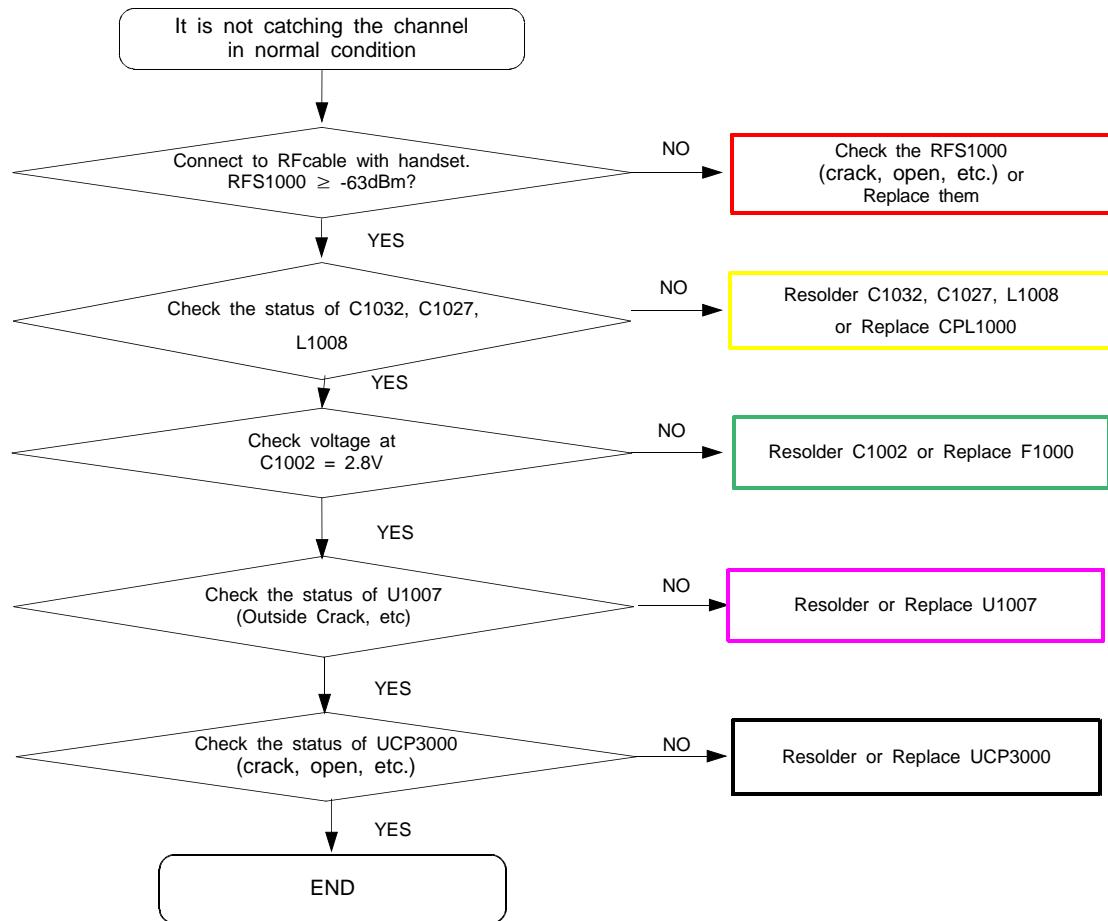
8-4-15. GSM900 / WCDMABand8 / LTE B8 Rx

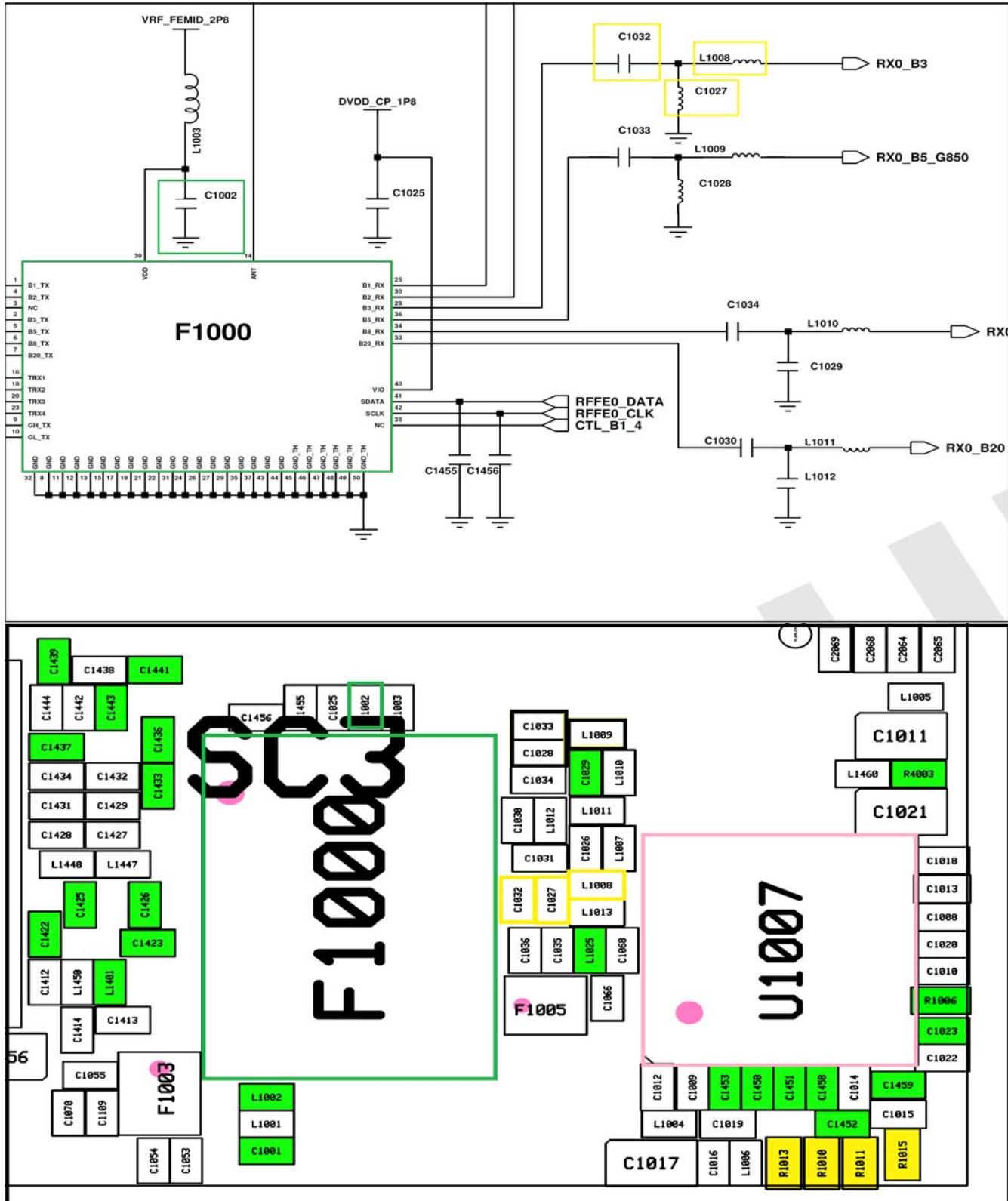


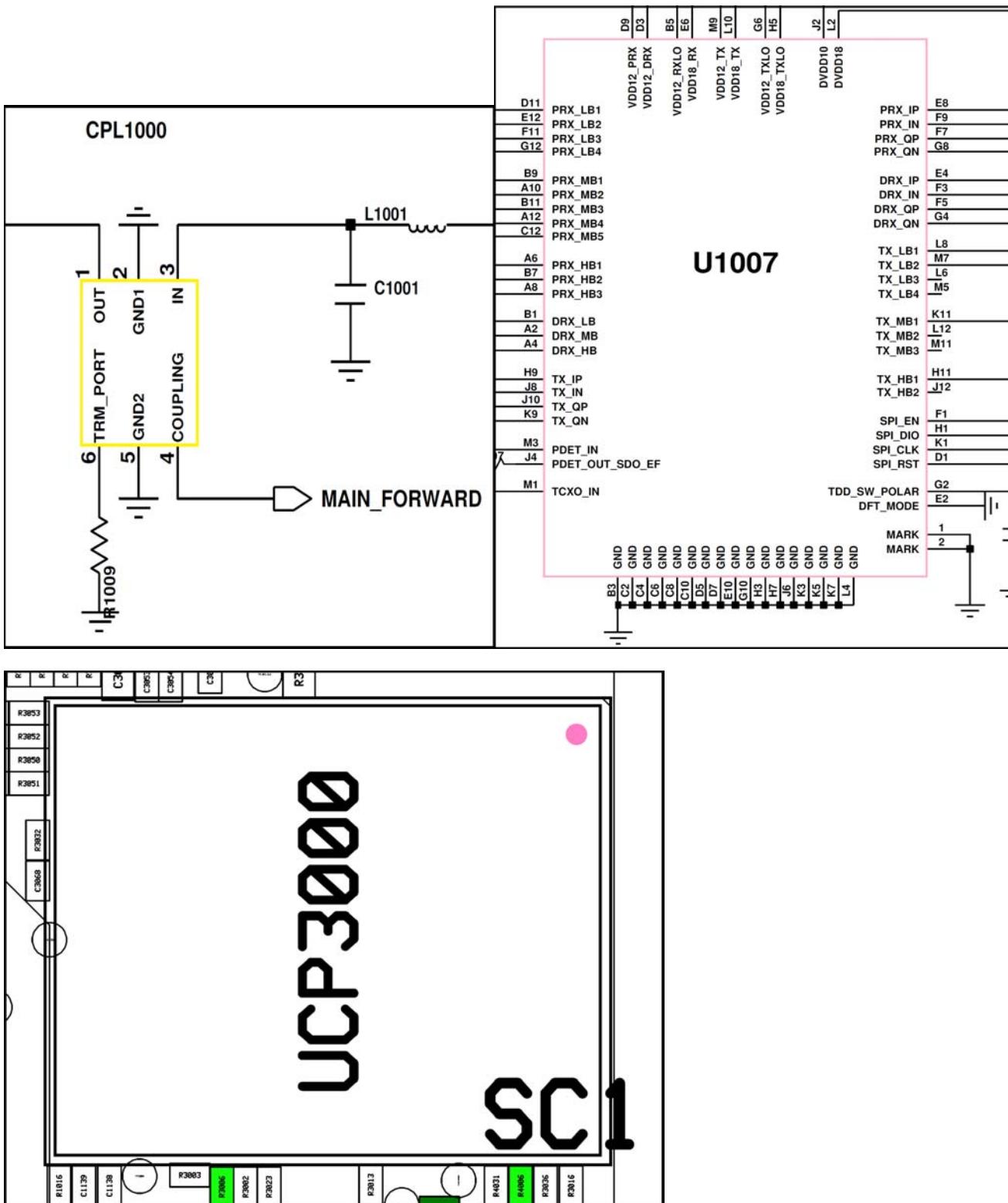




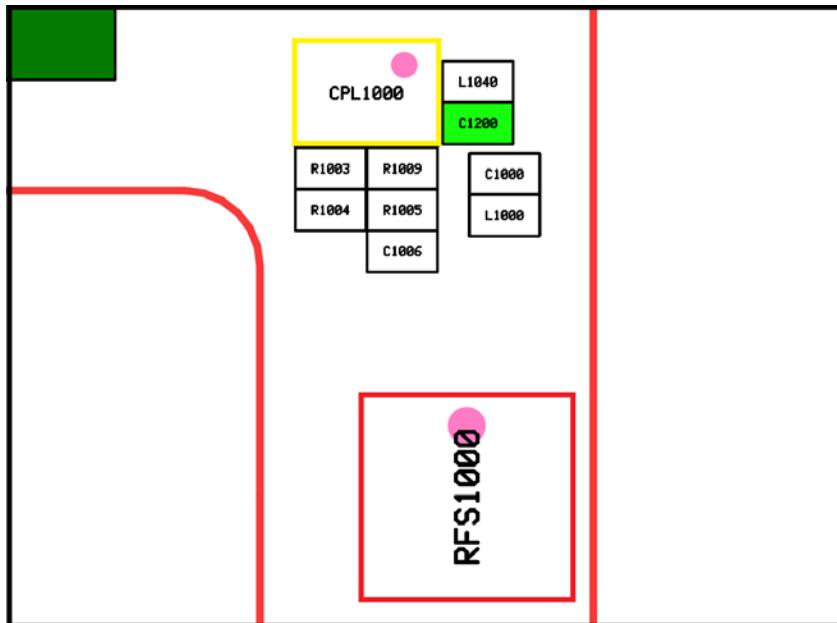
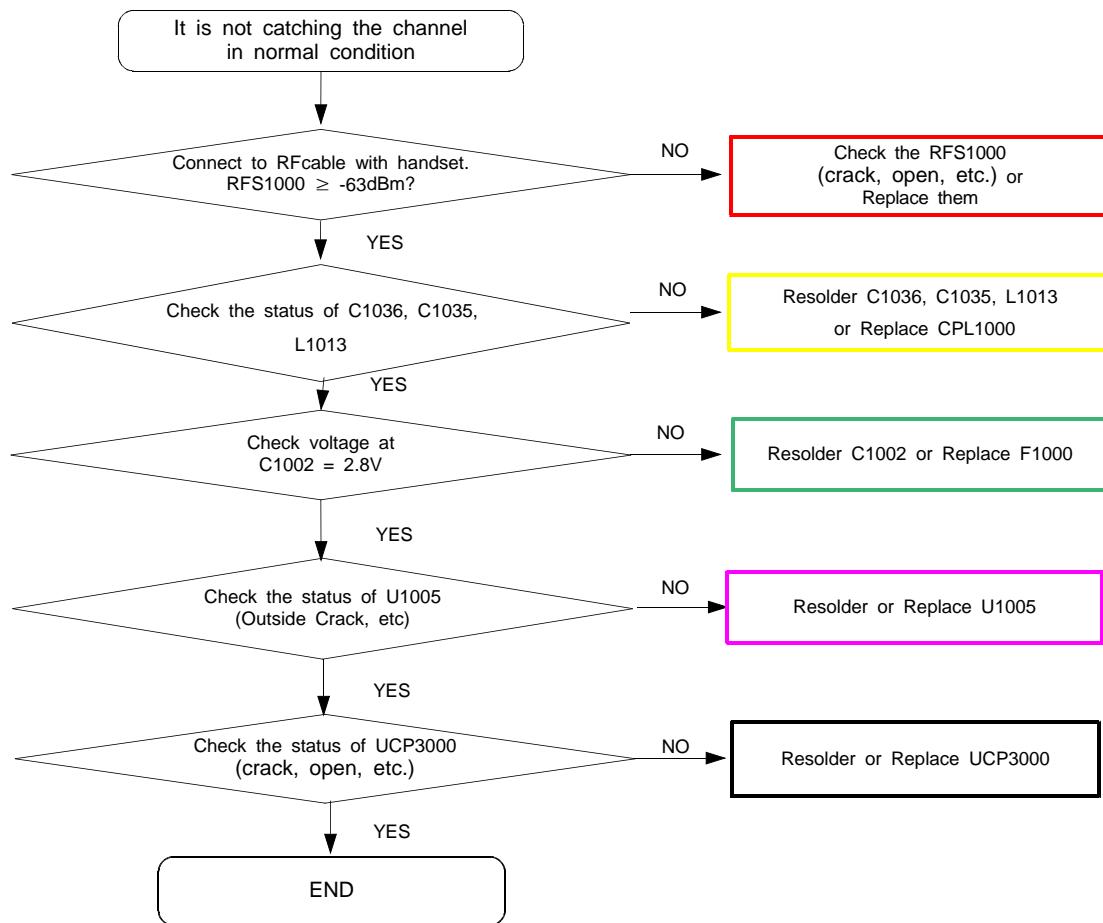
8-4-16. GSM1800 / LTE B3 Rx

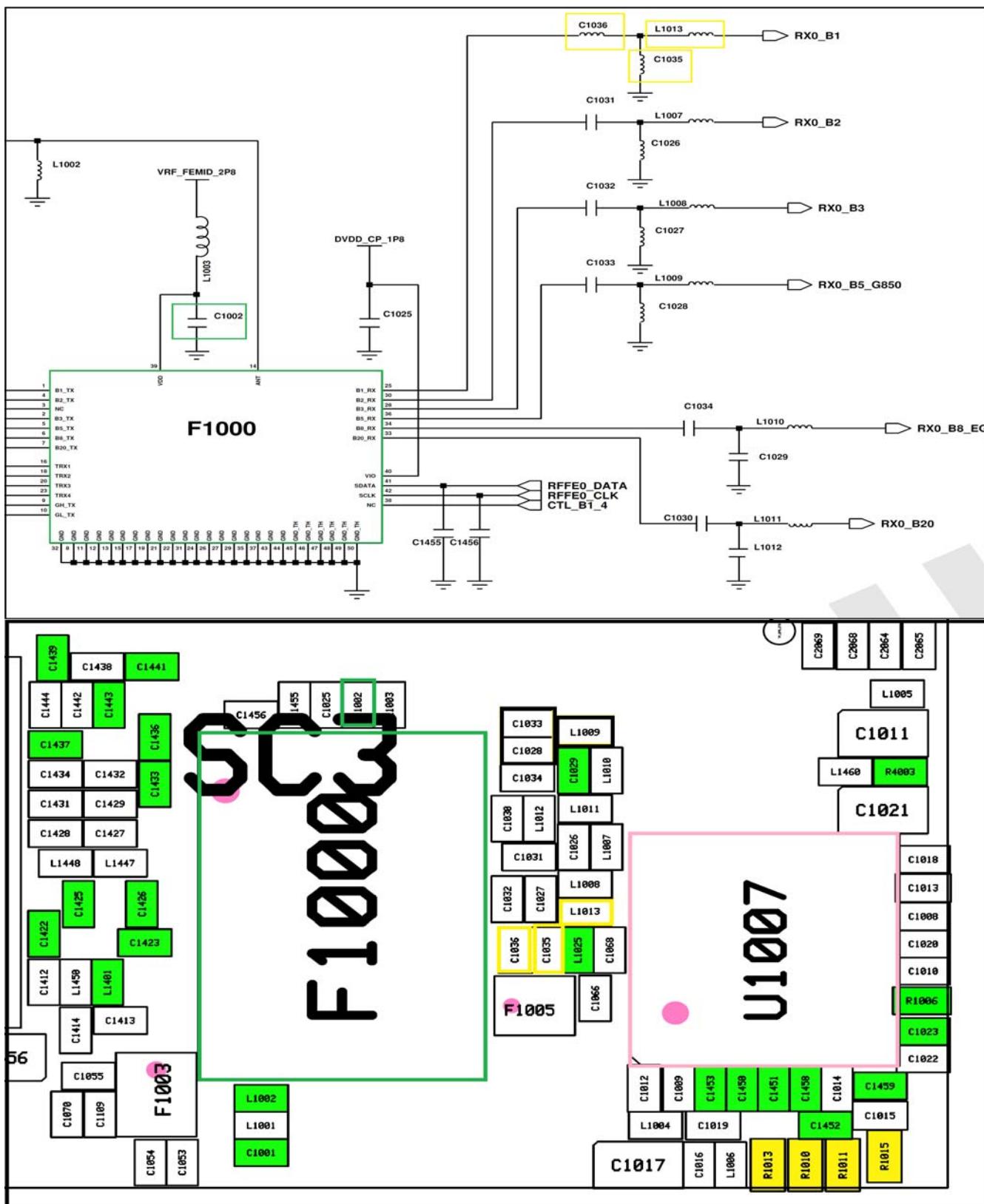


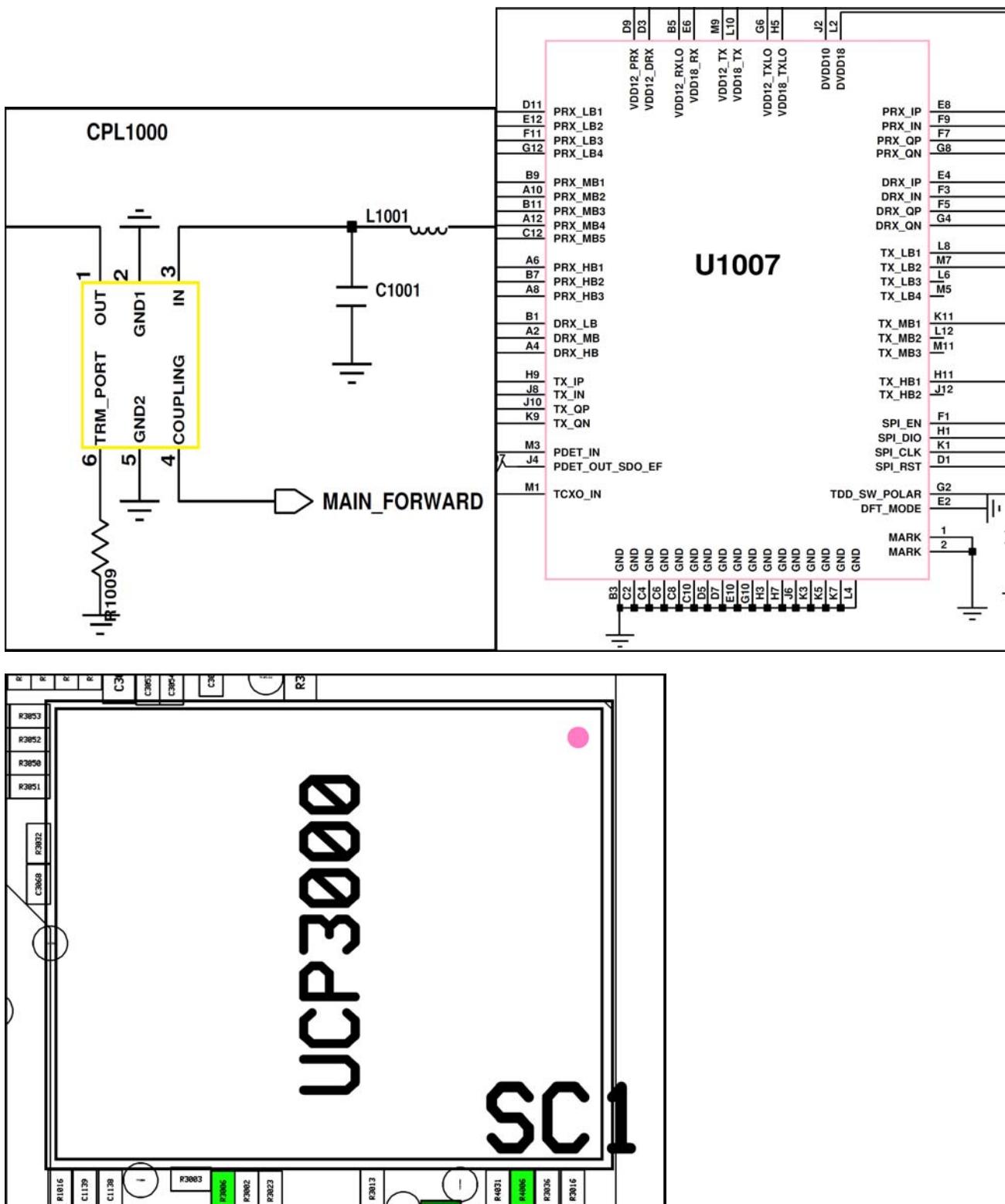




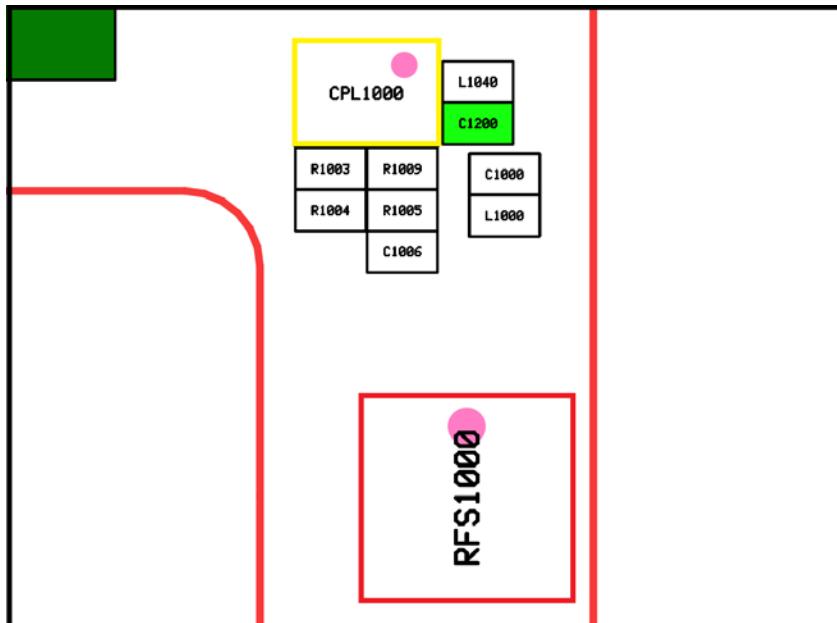
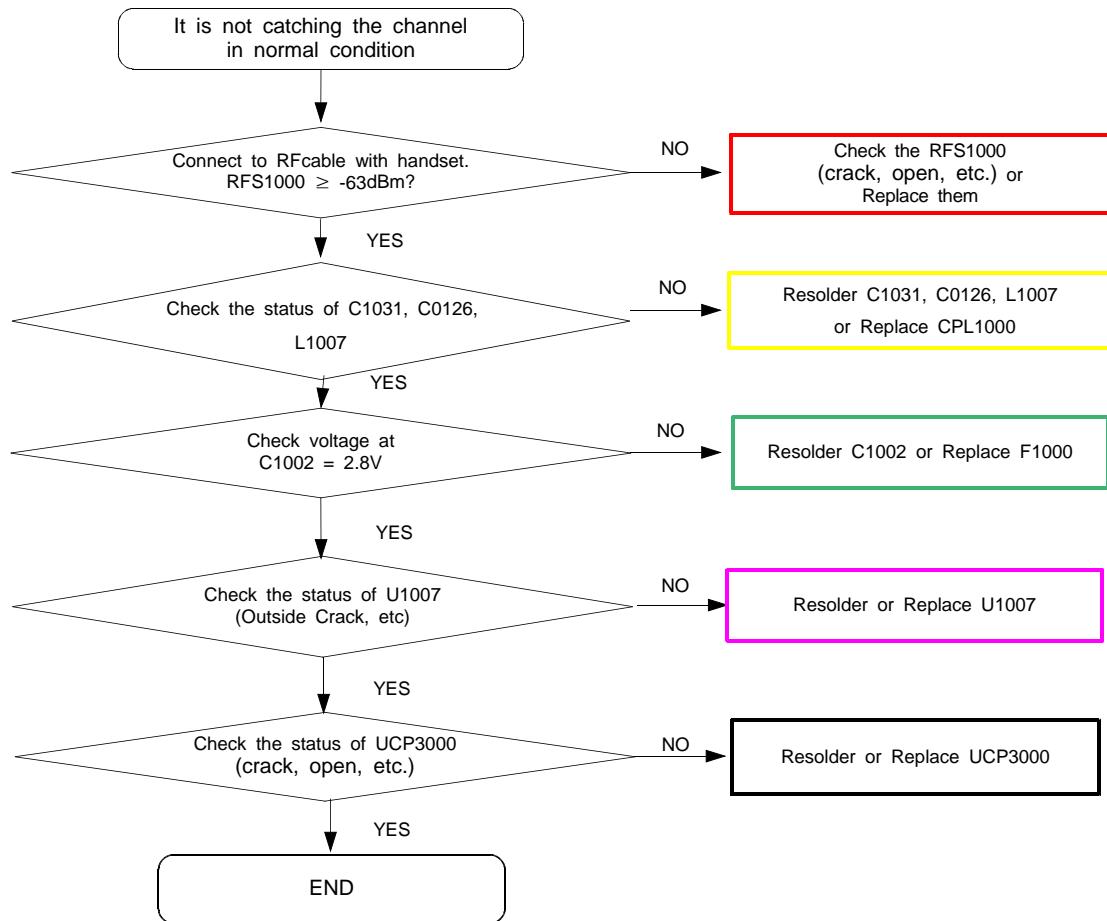
8-4-17. WCDMA Band1 / LTE Band1 Rx

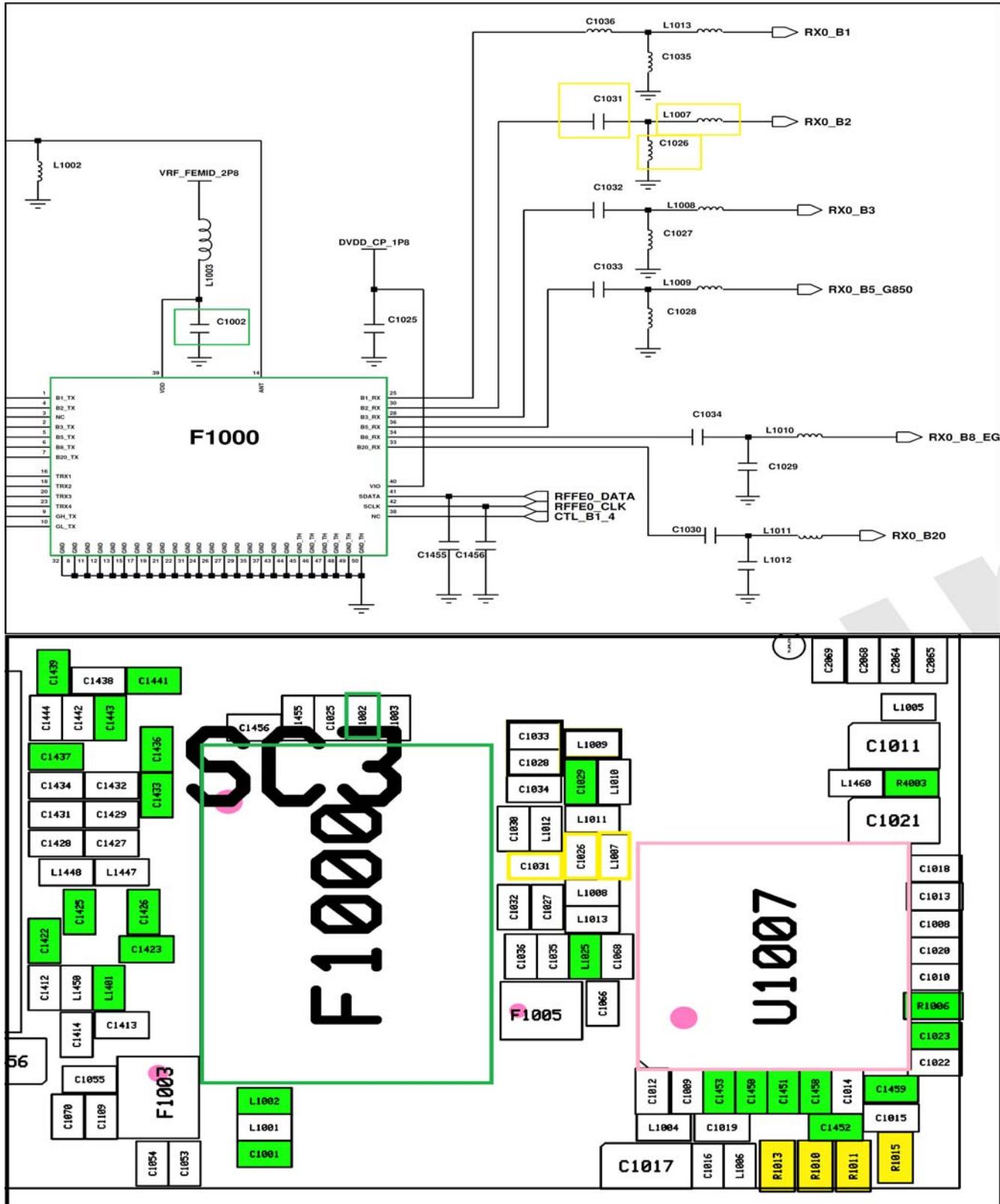


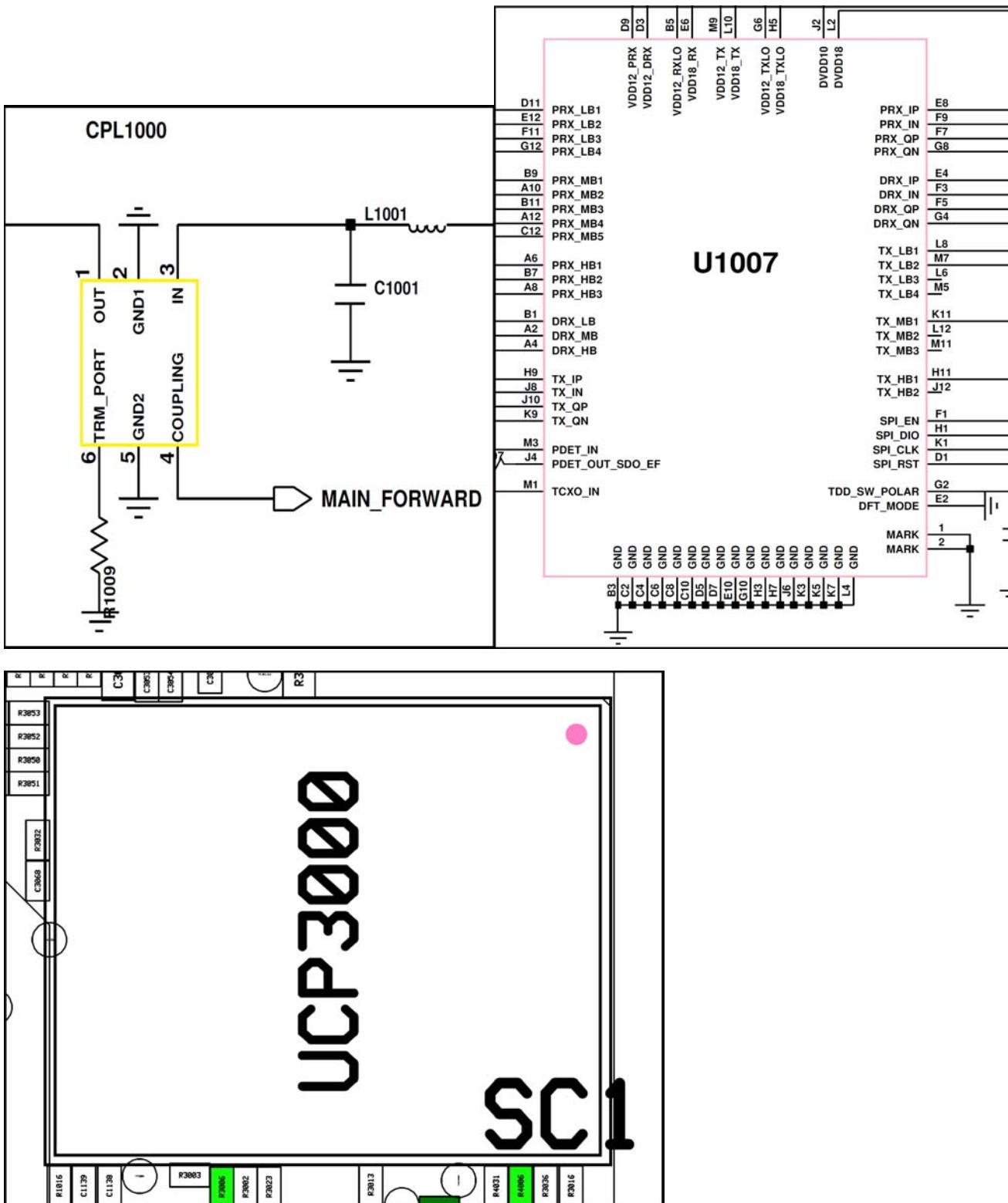




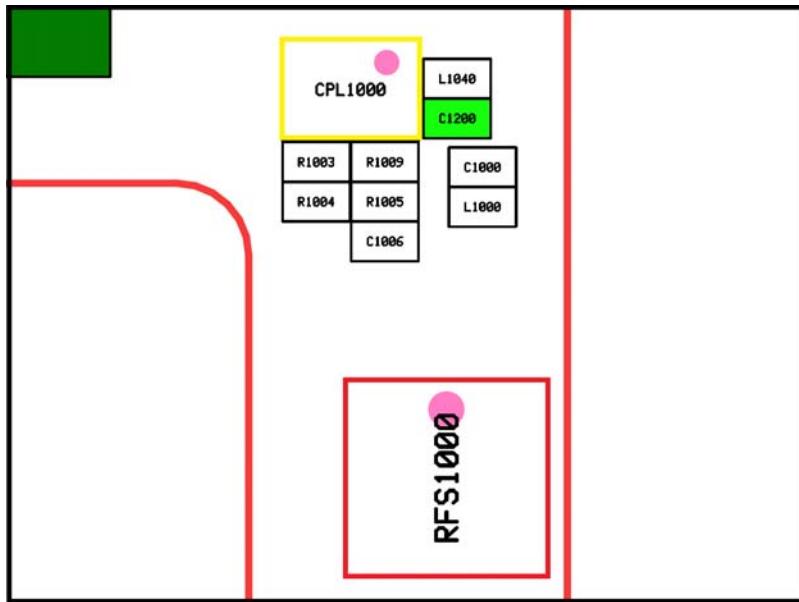
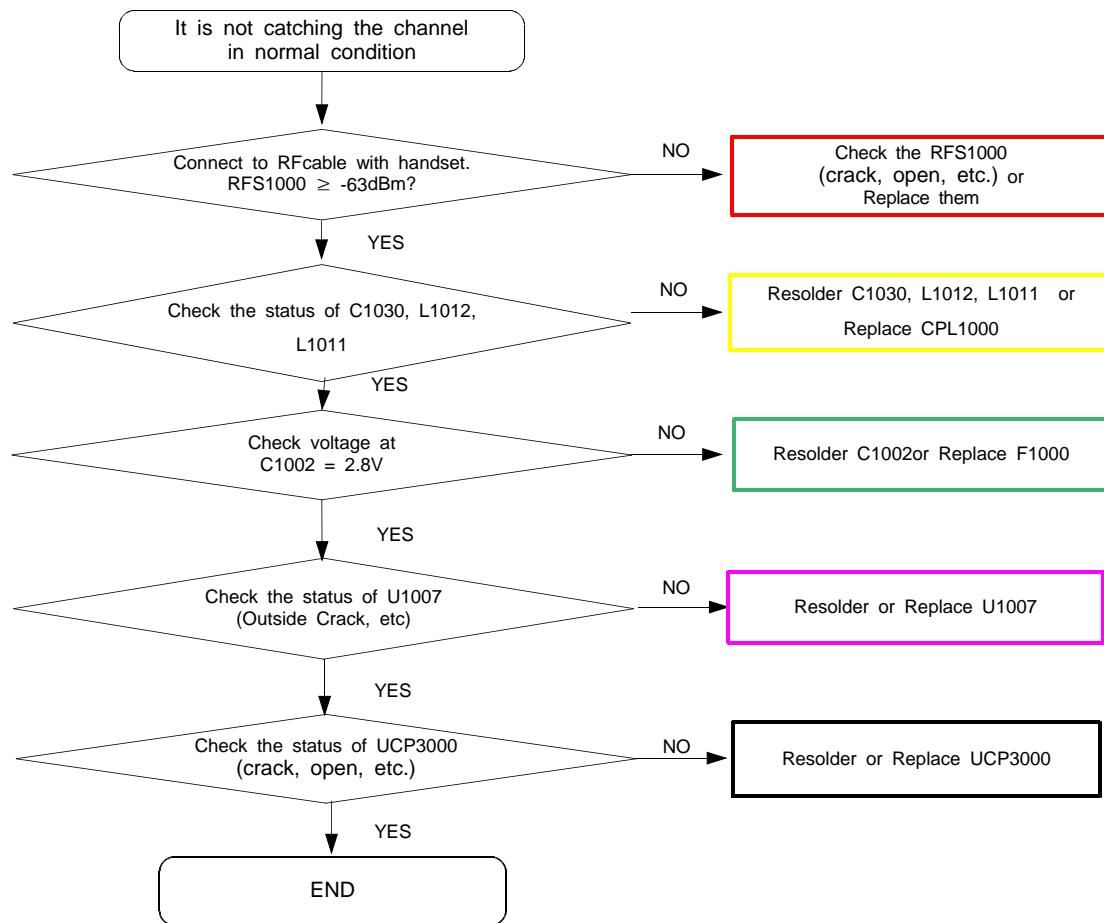
8-4-18. GSM1900 / WCDMA band1900 Rx

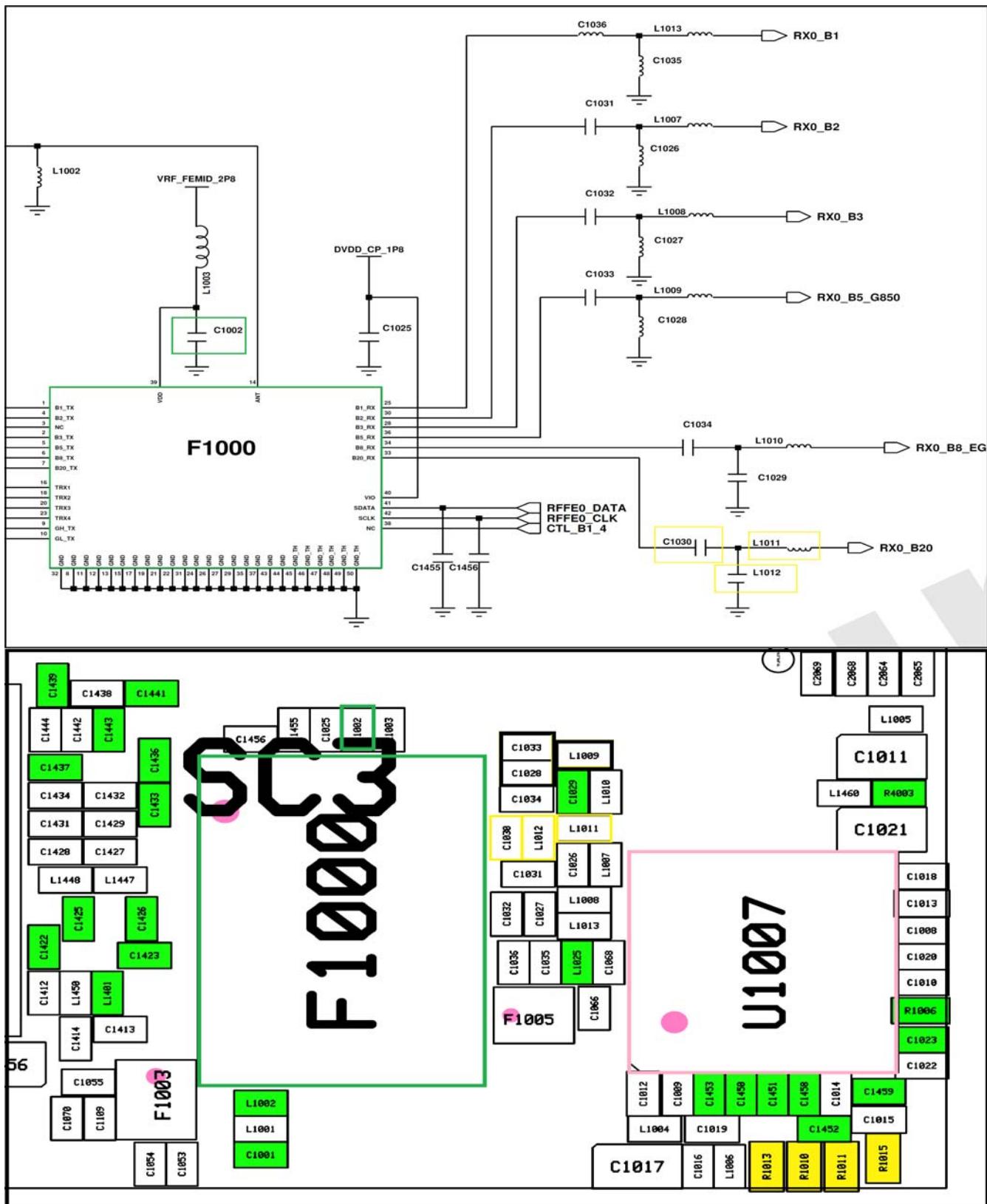


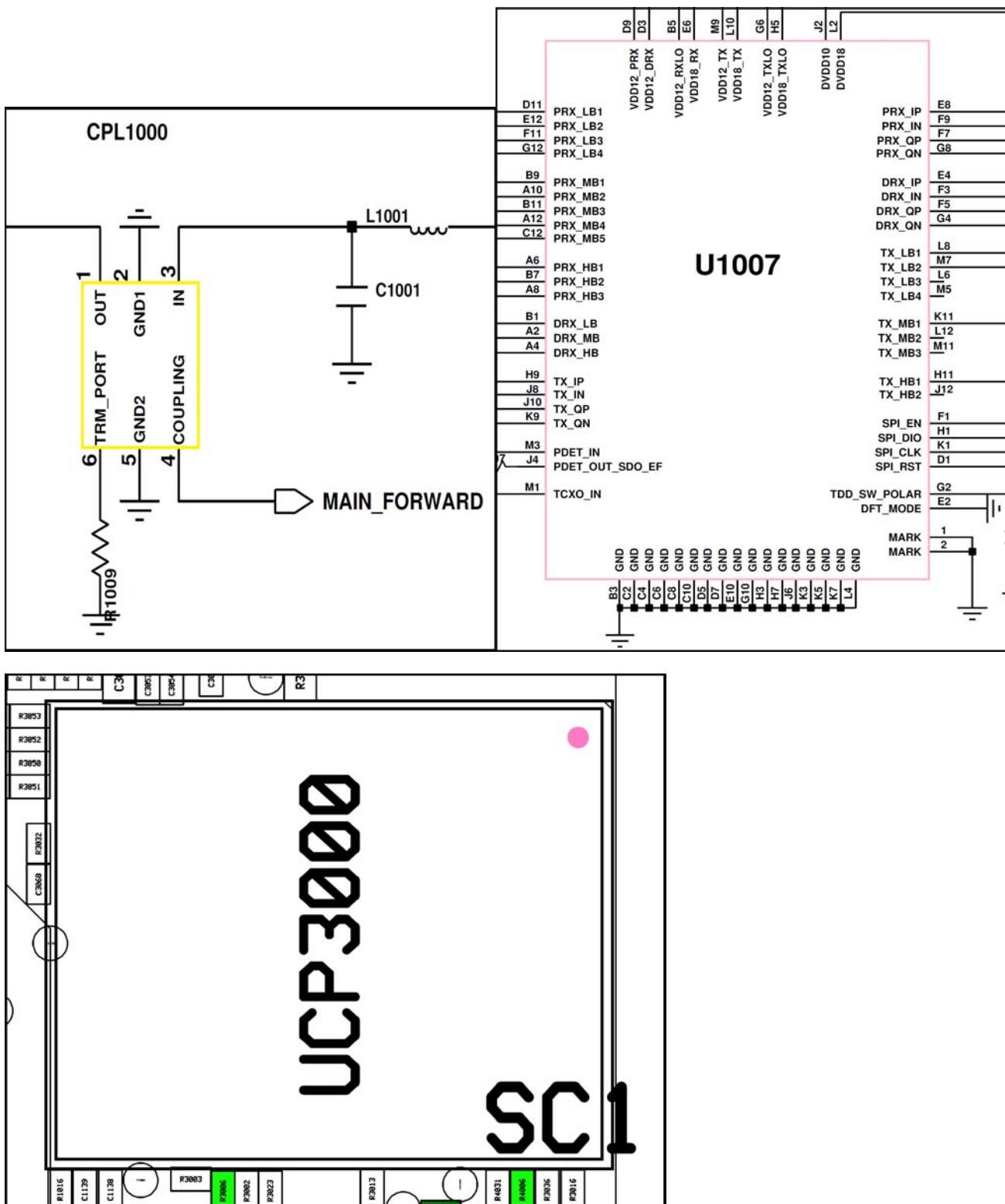




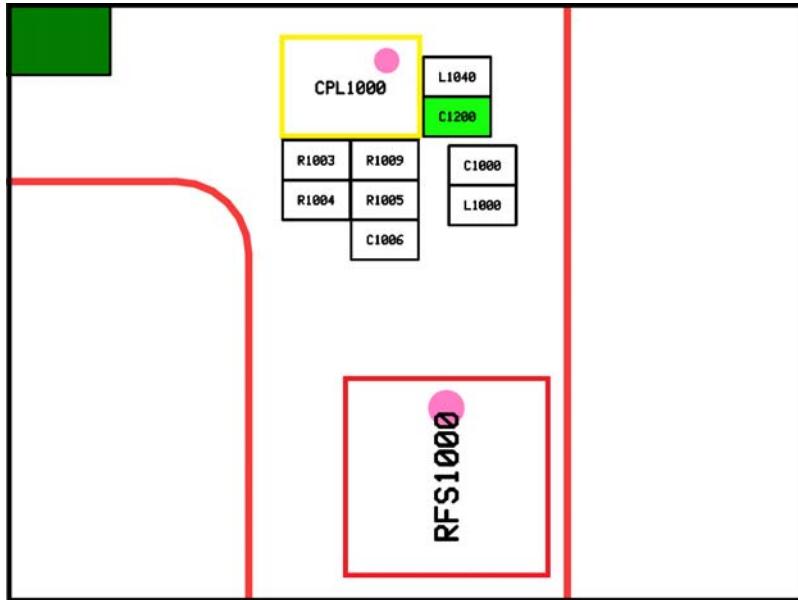
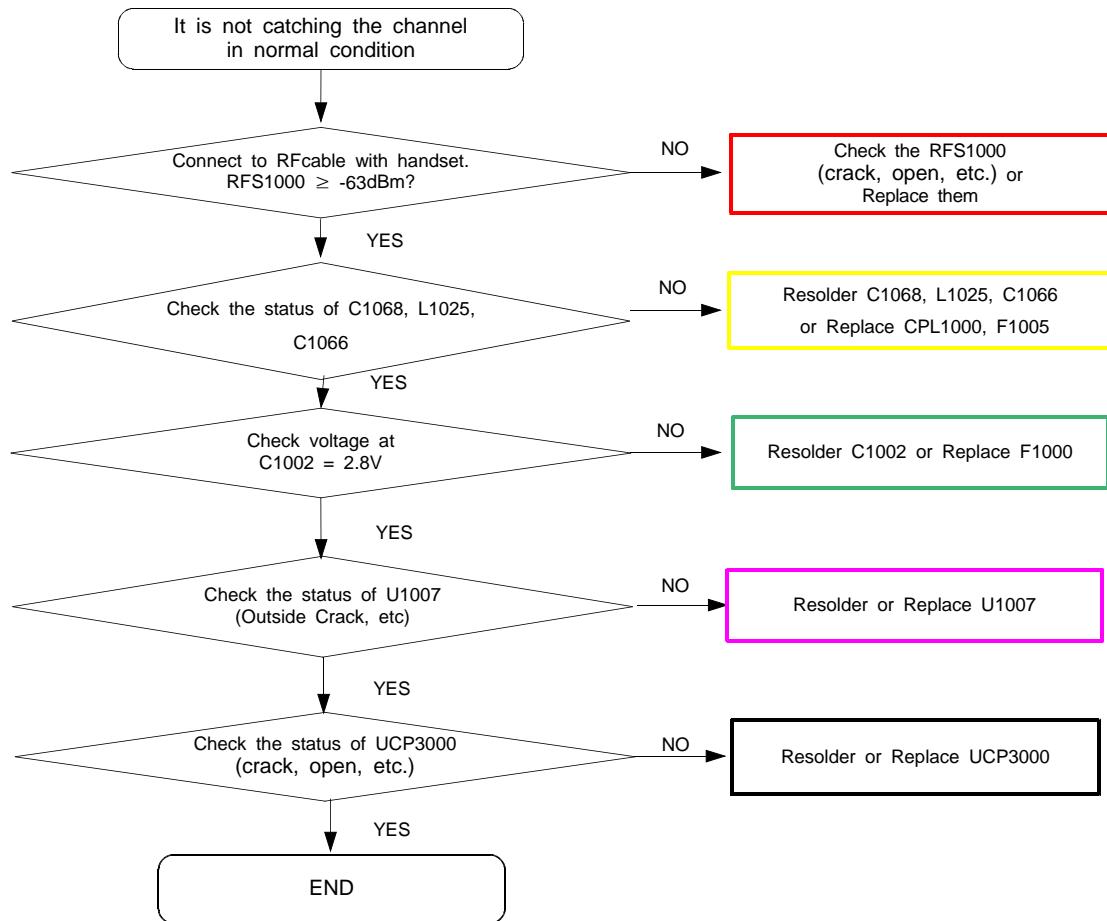
8-4-19. LTE Band20 Rx

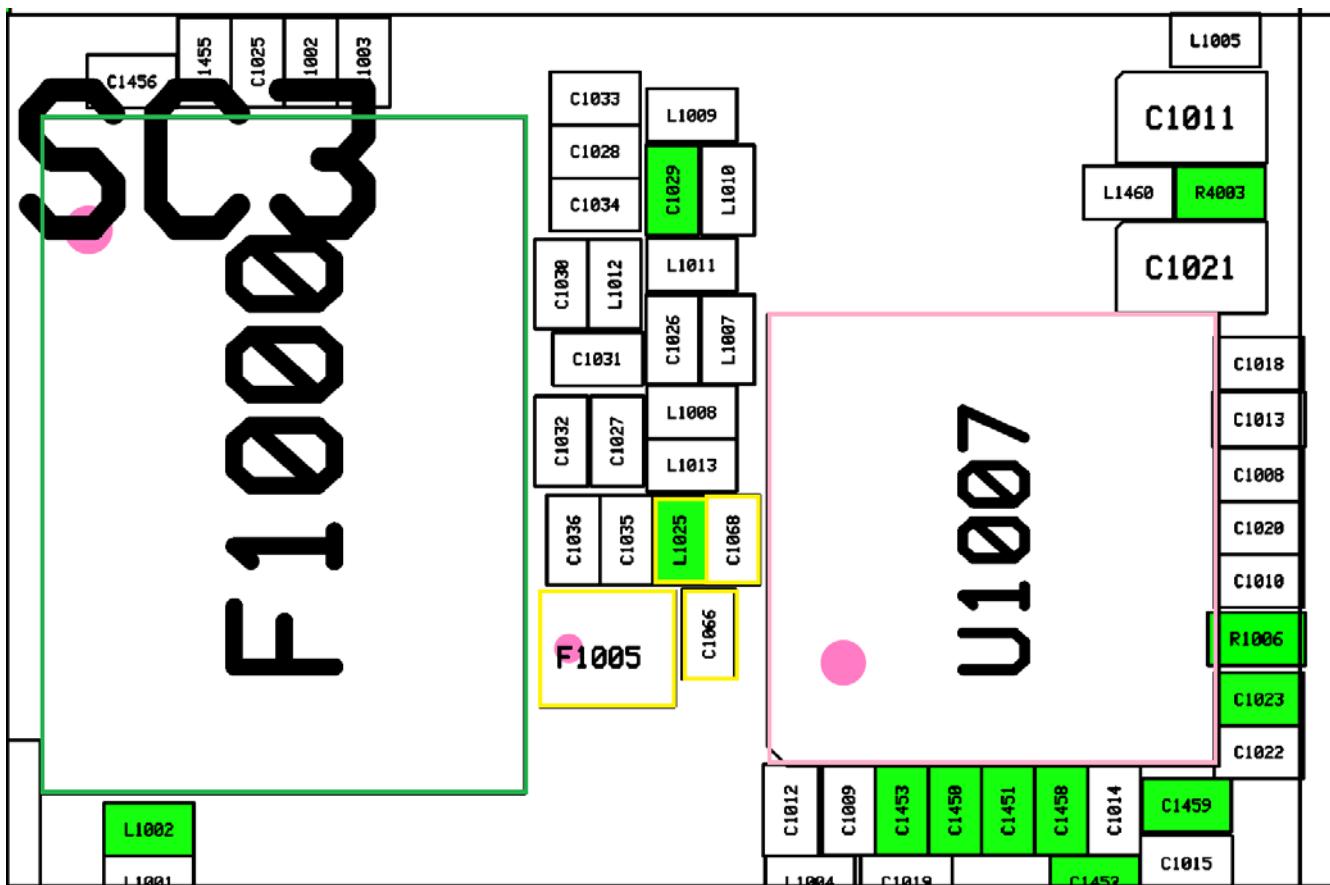
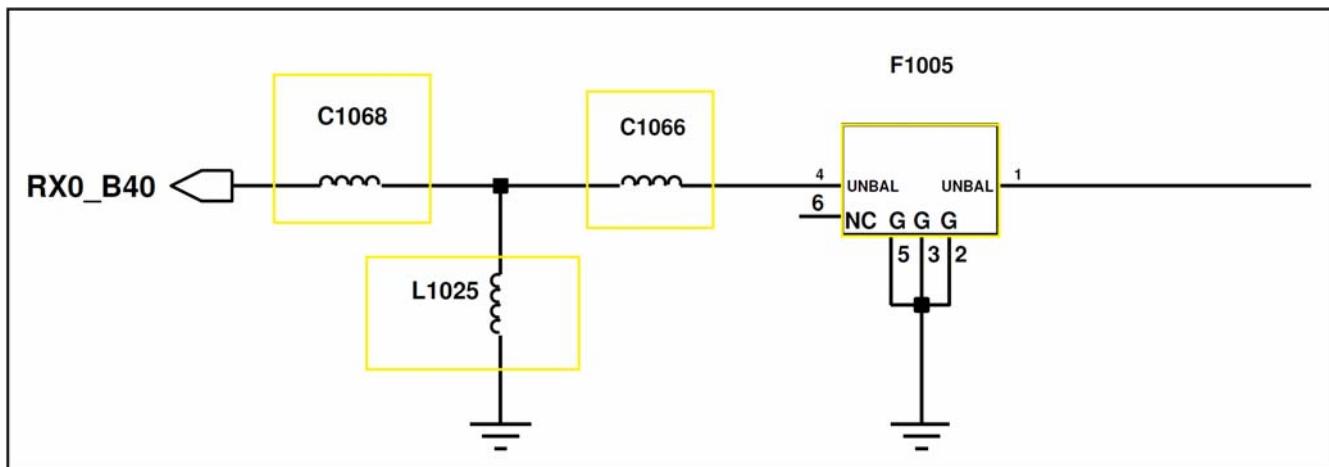


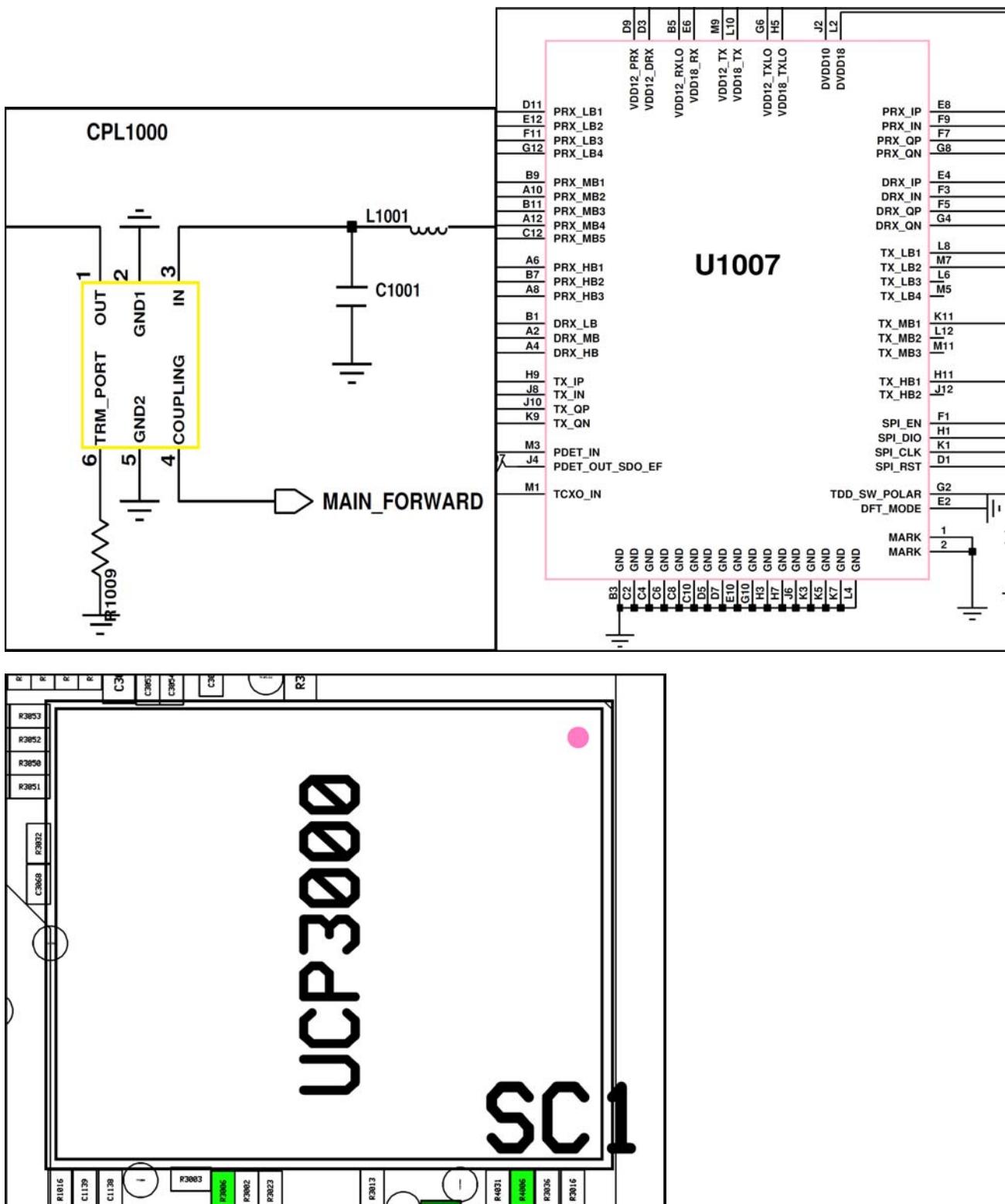




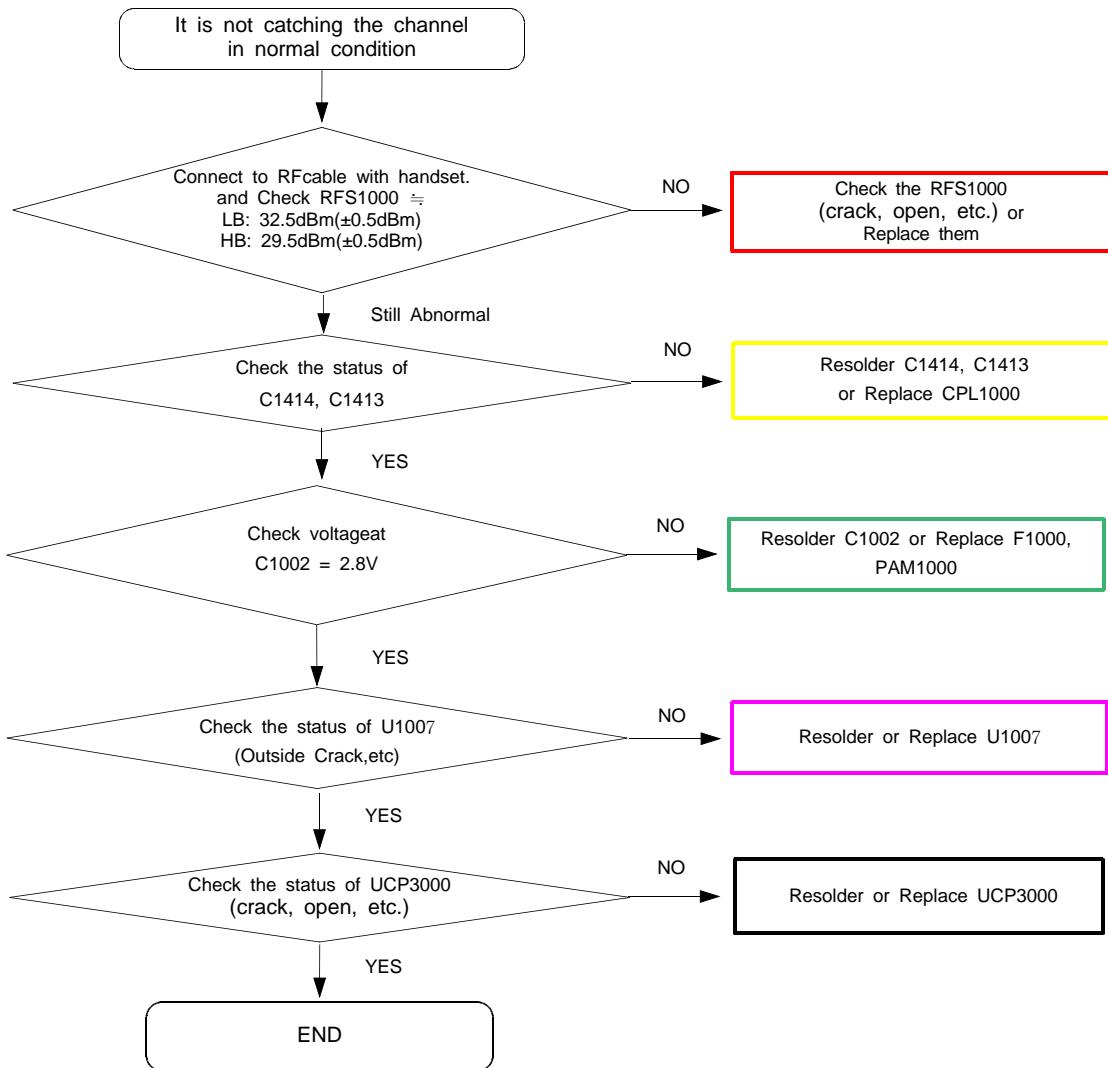
8-4-20. LTE B40 Rx

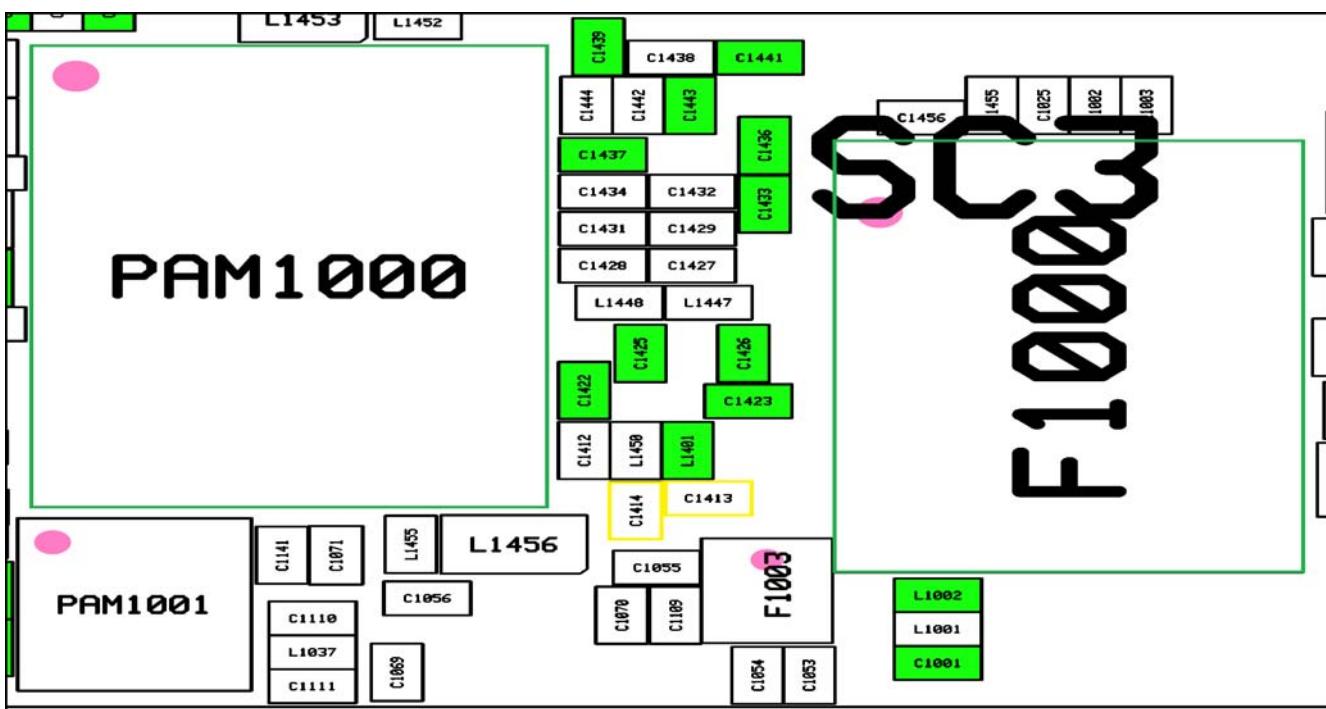
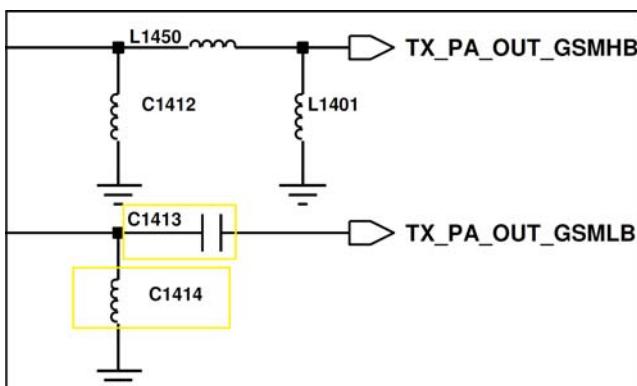
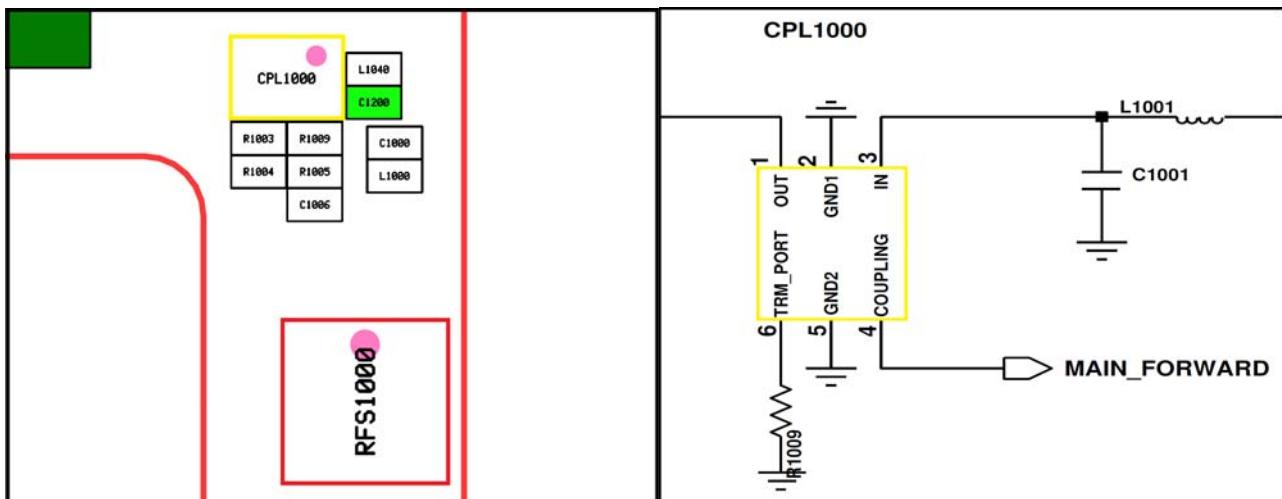


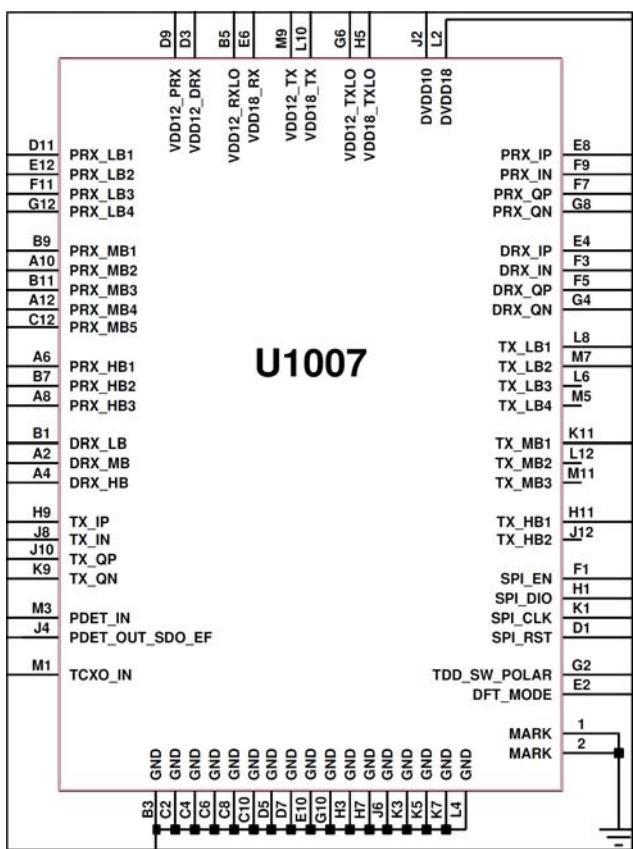
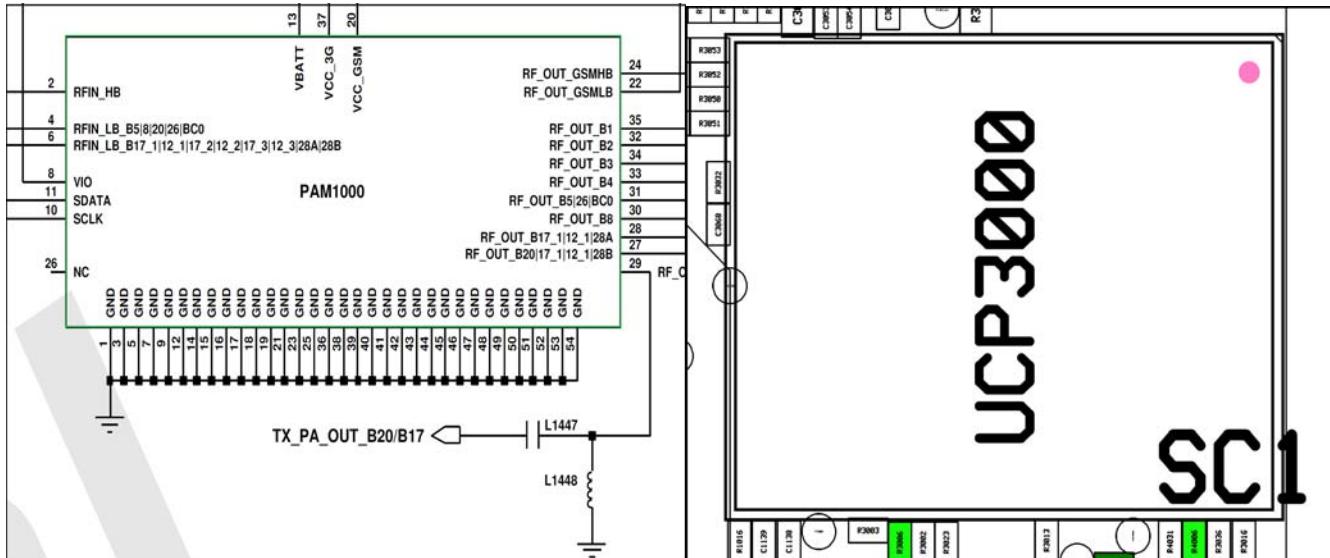




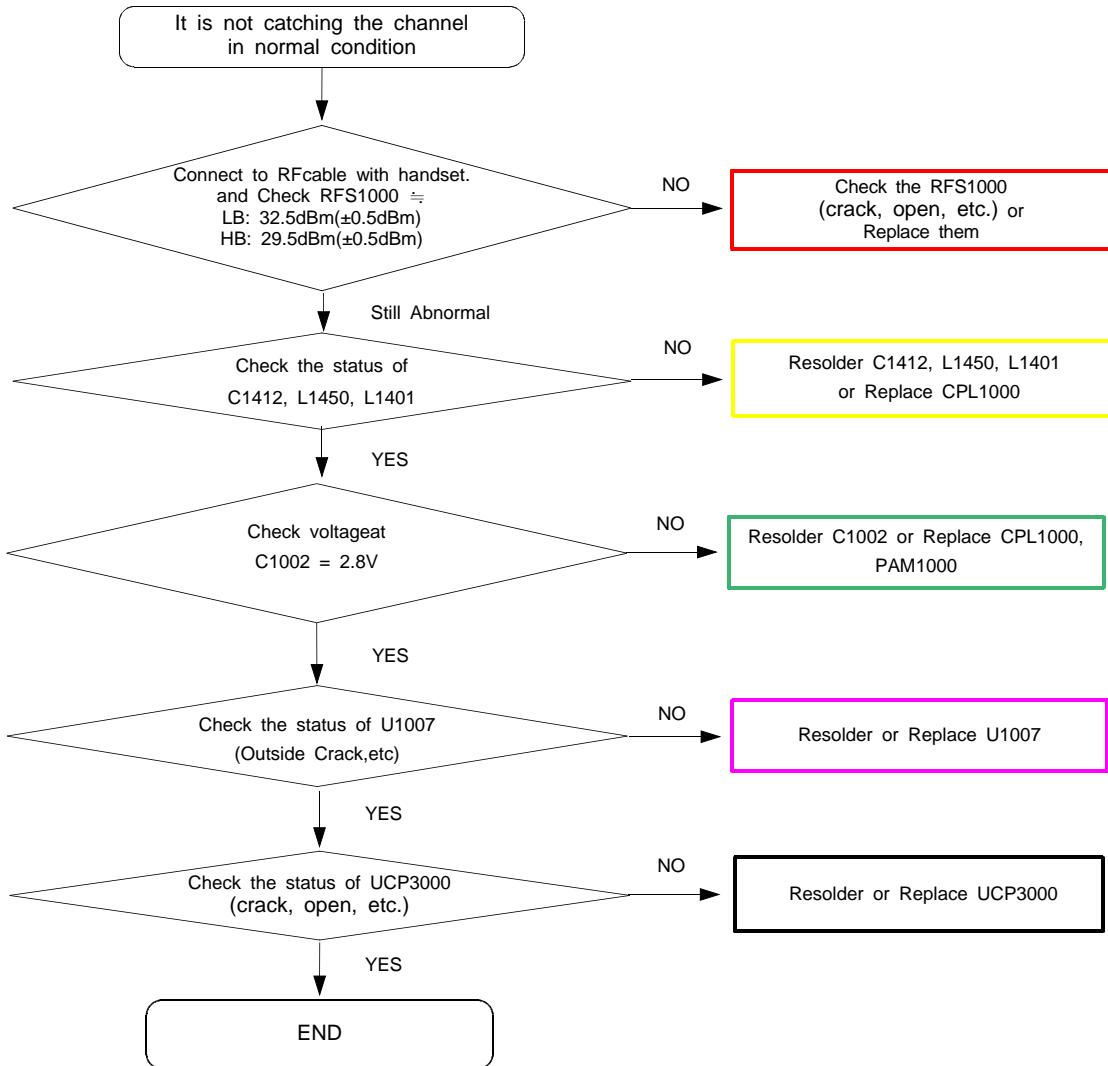
8-4-21. GSM850 / GSM900 Tx

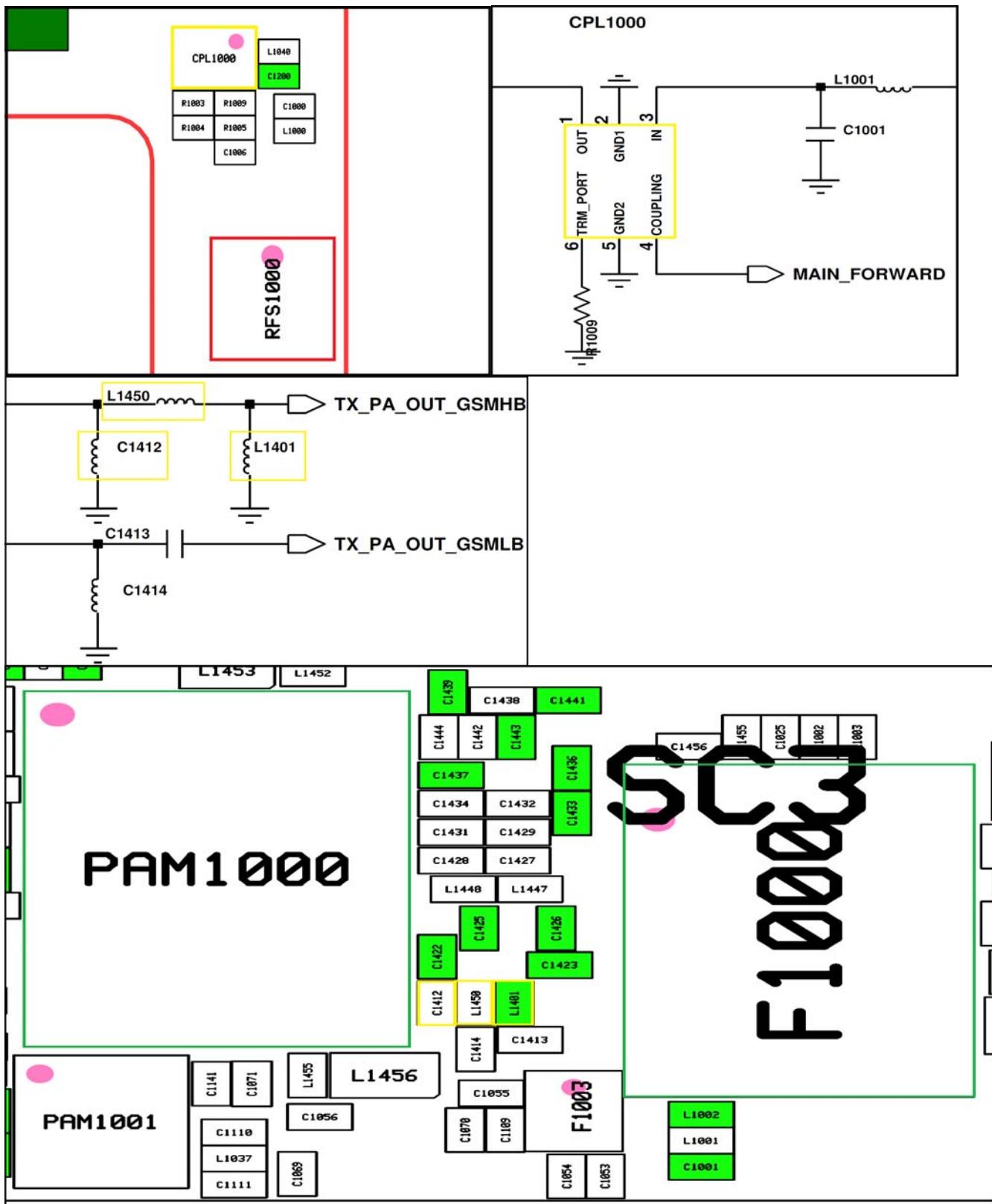


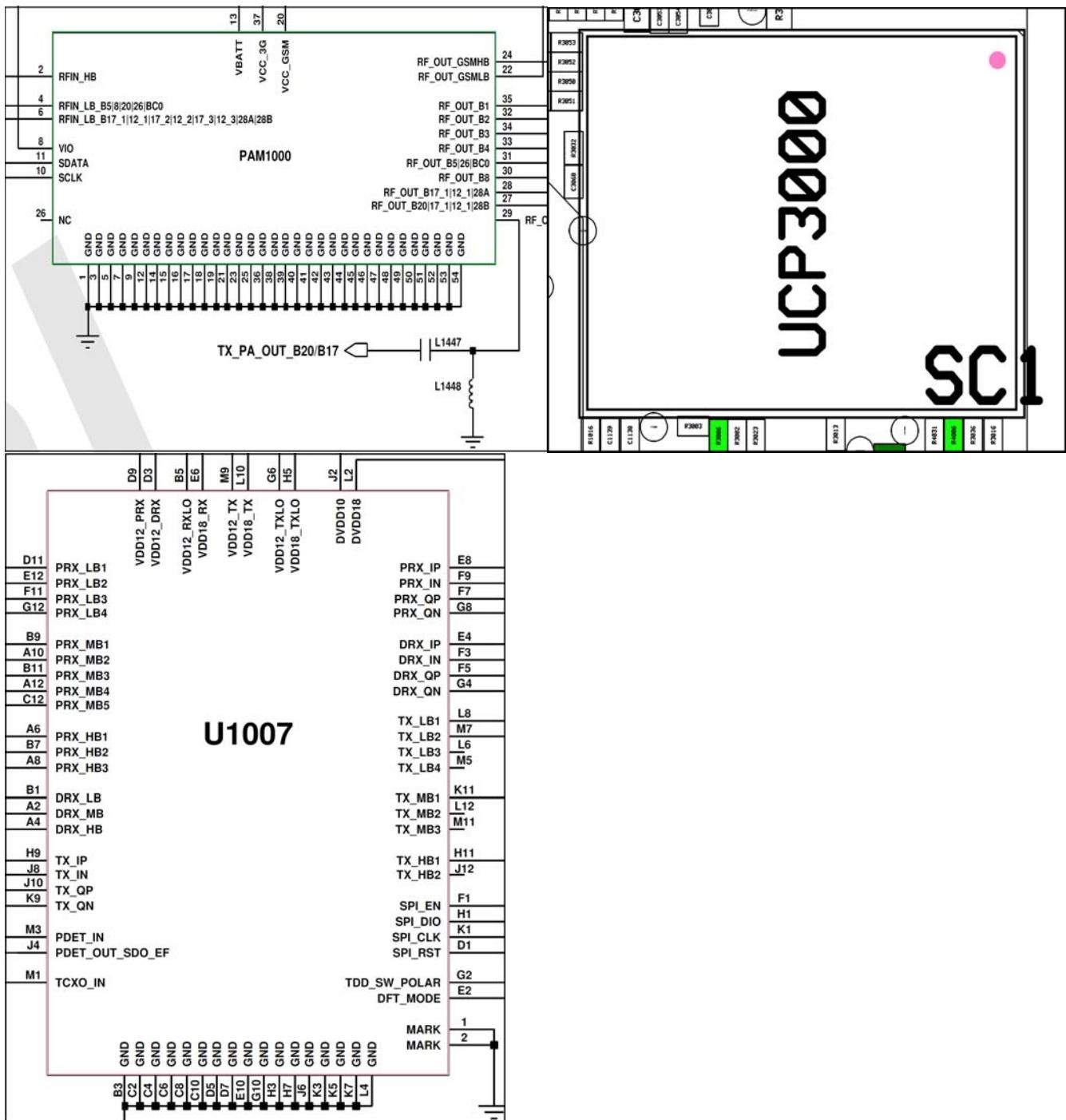




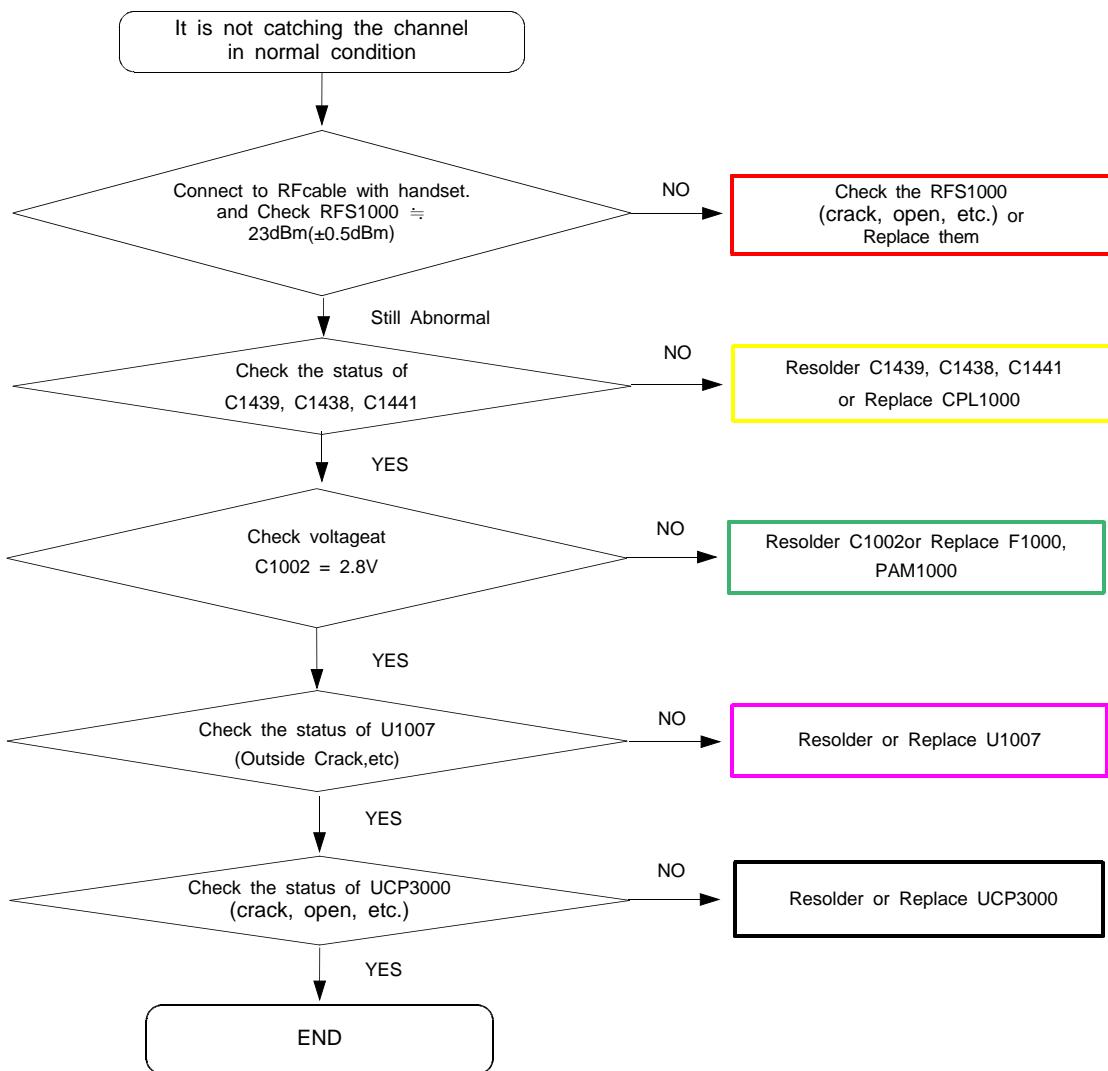
8-4-22. GSM1800 / GSM1900 Tx

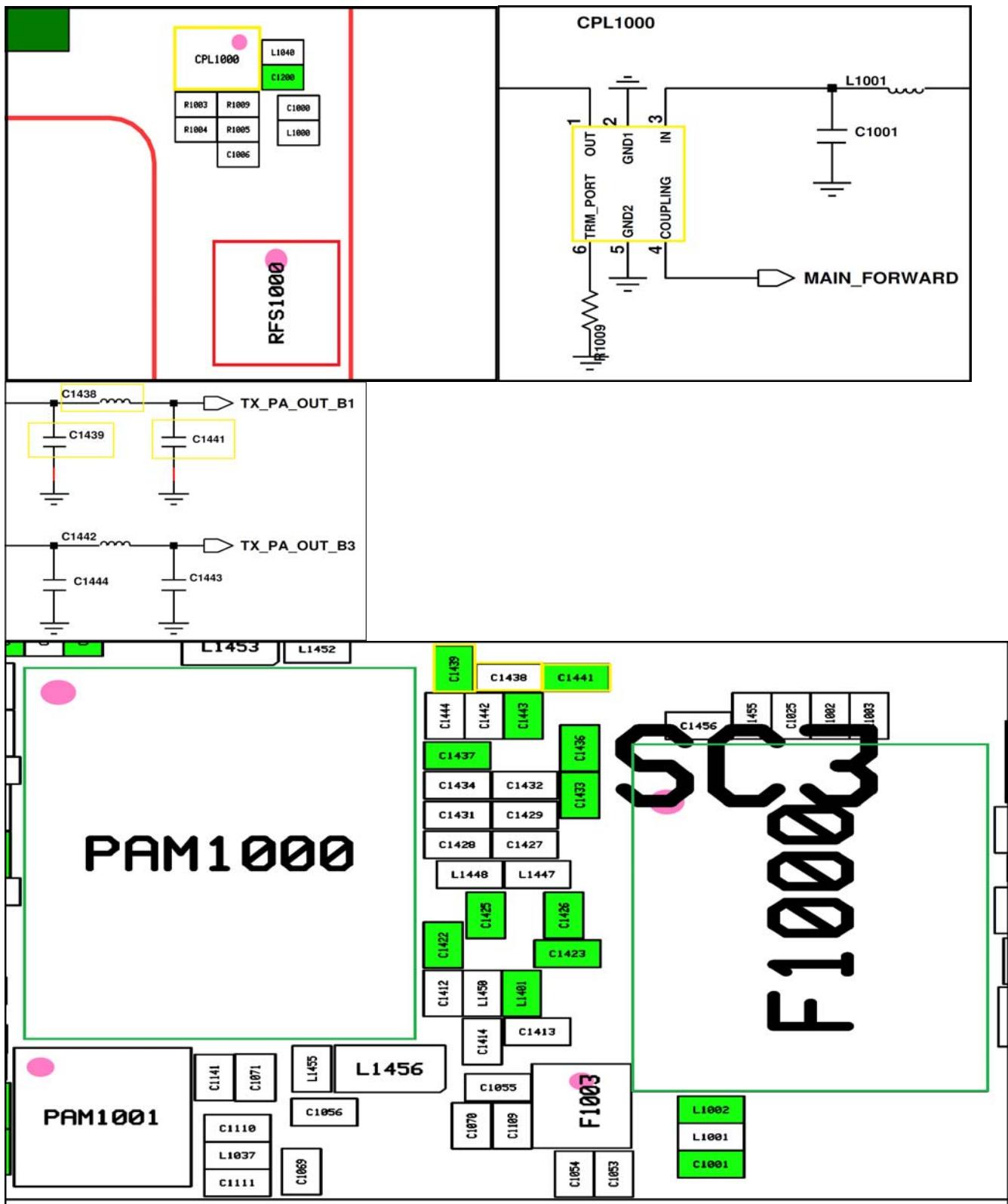


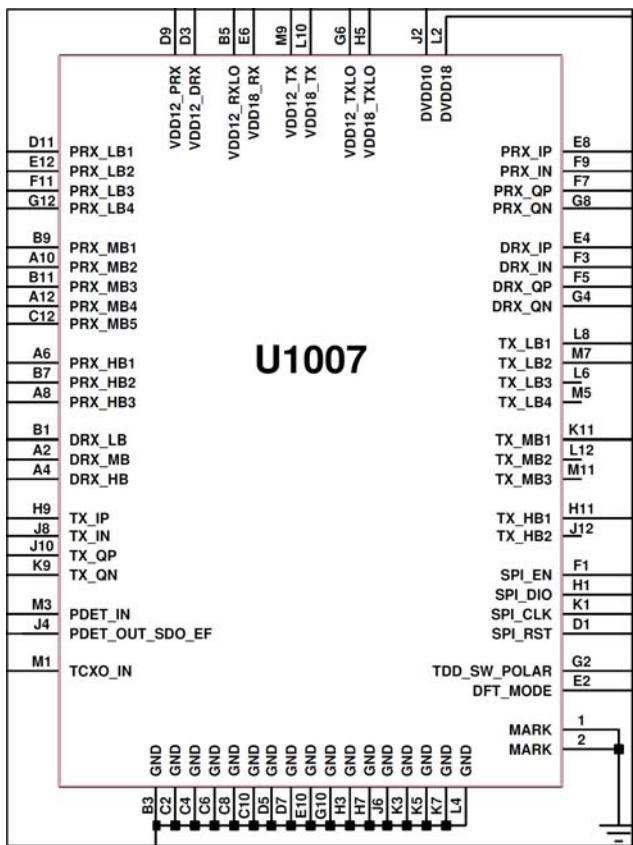
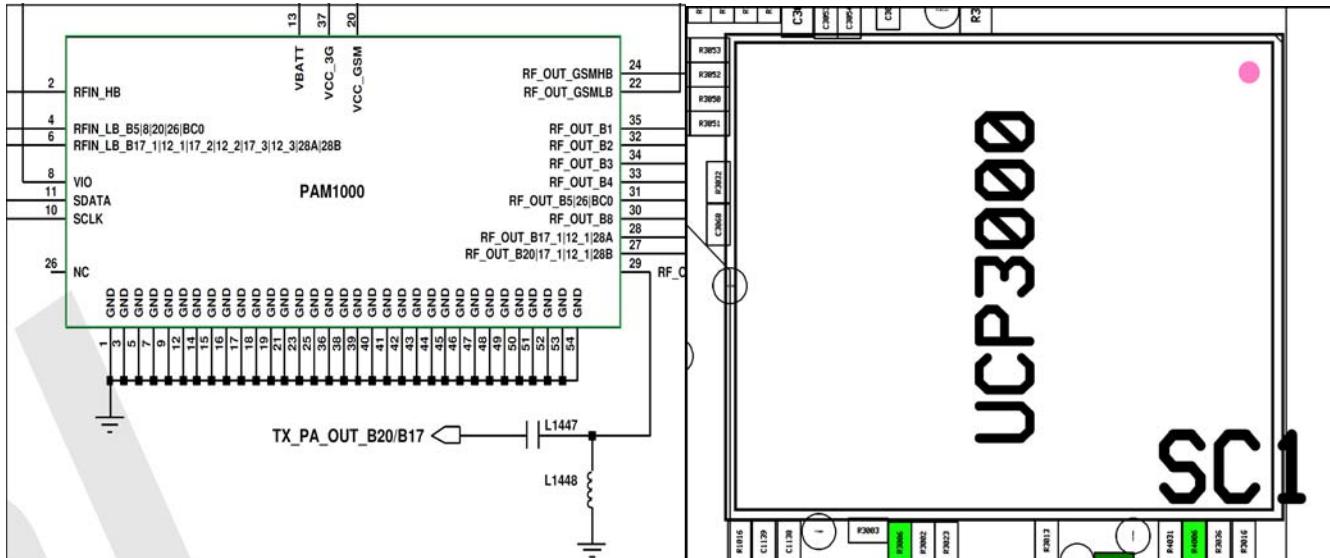




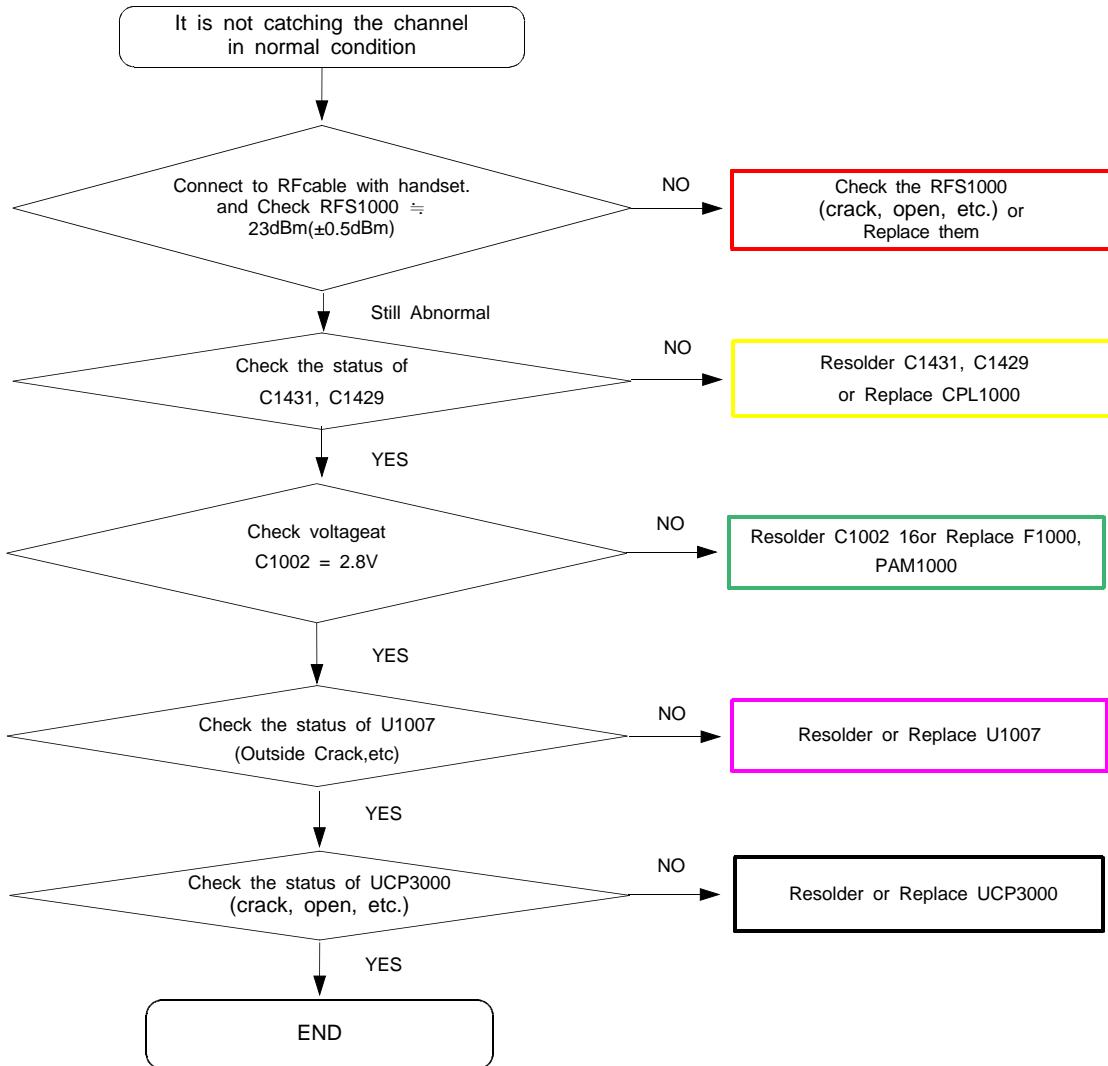
8-4-23. WCDMA Band1 / LTE Band1 Tx

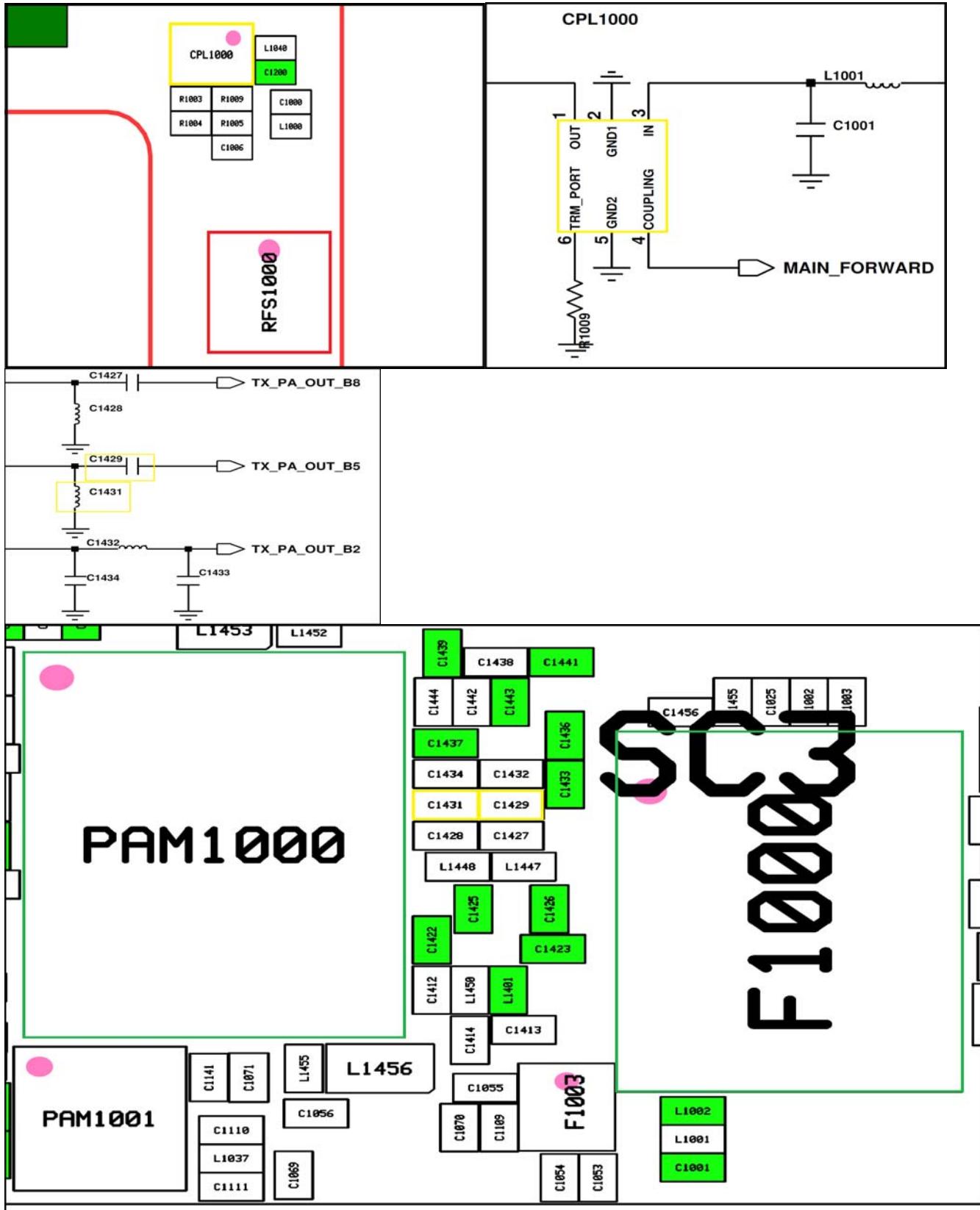


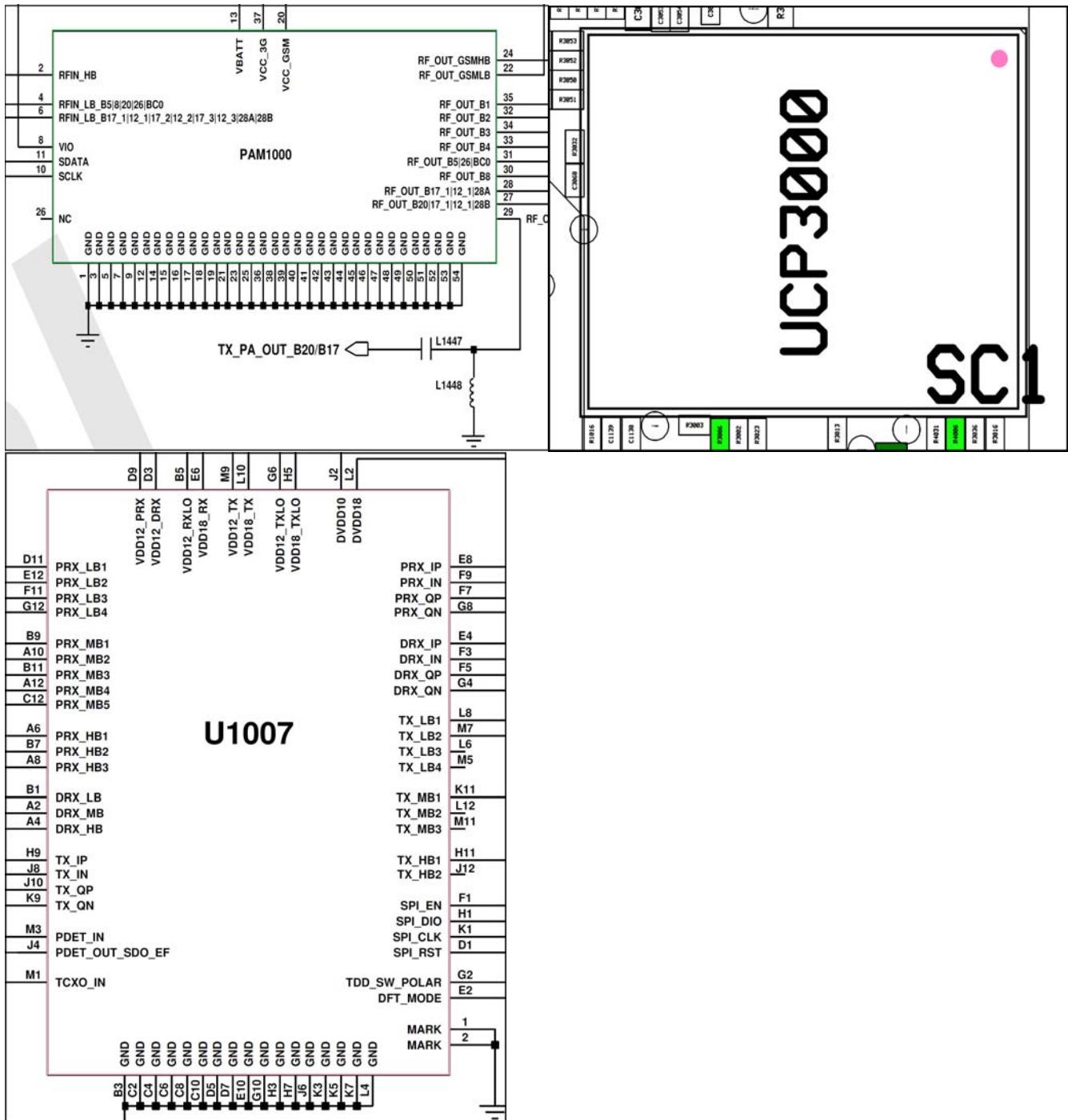




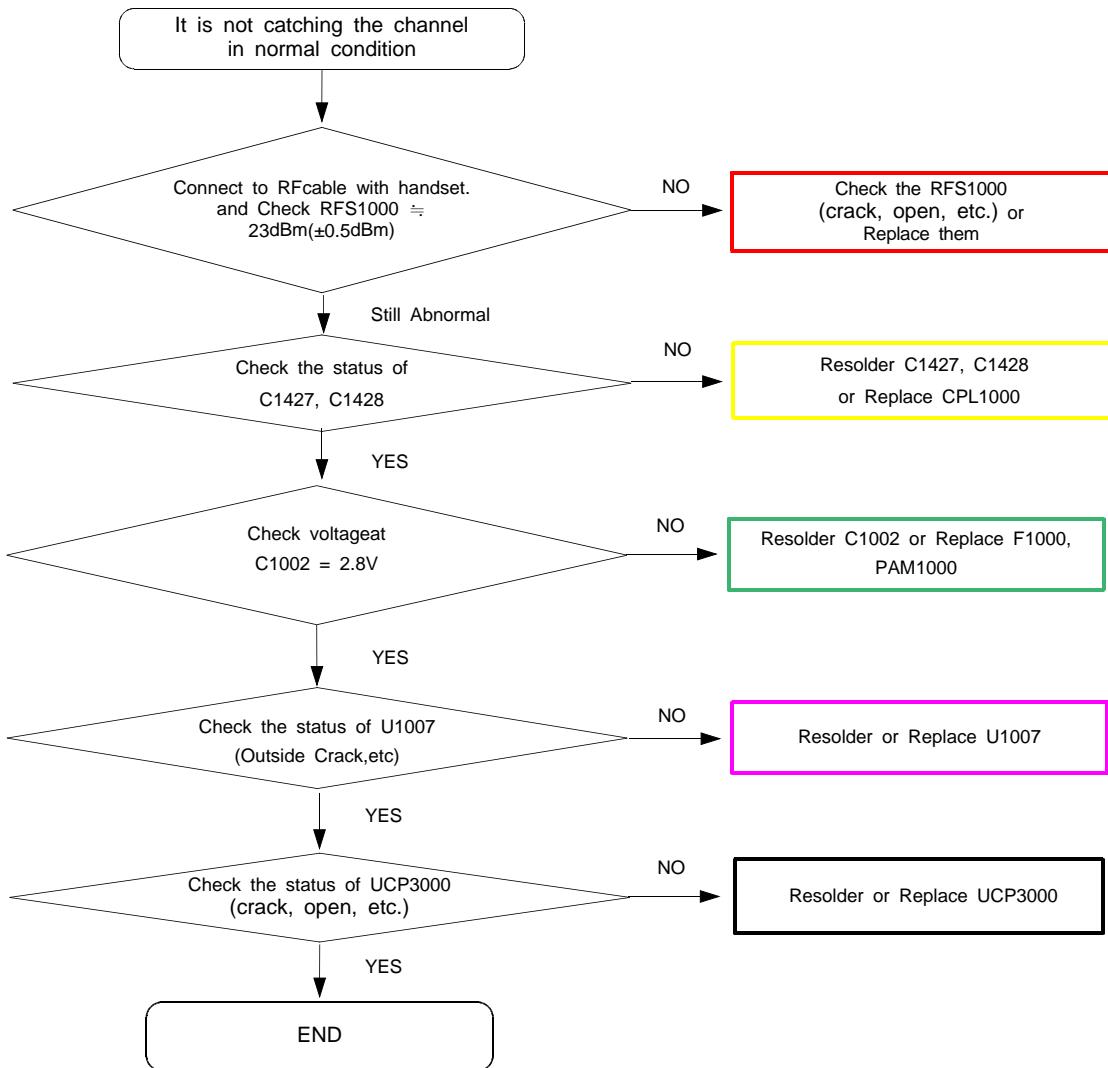
8-4-24. WCDMA Band5 / LTE B5 Tx

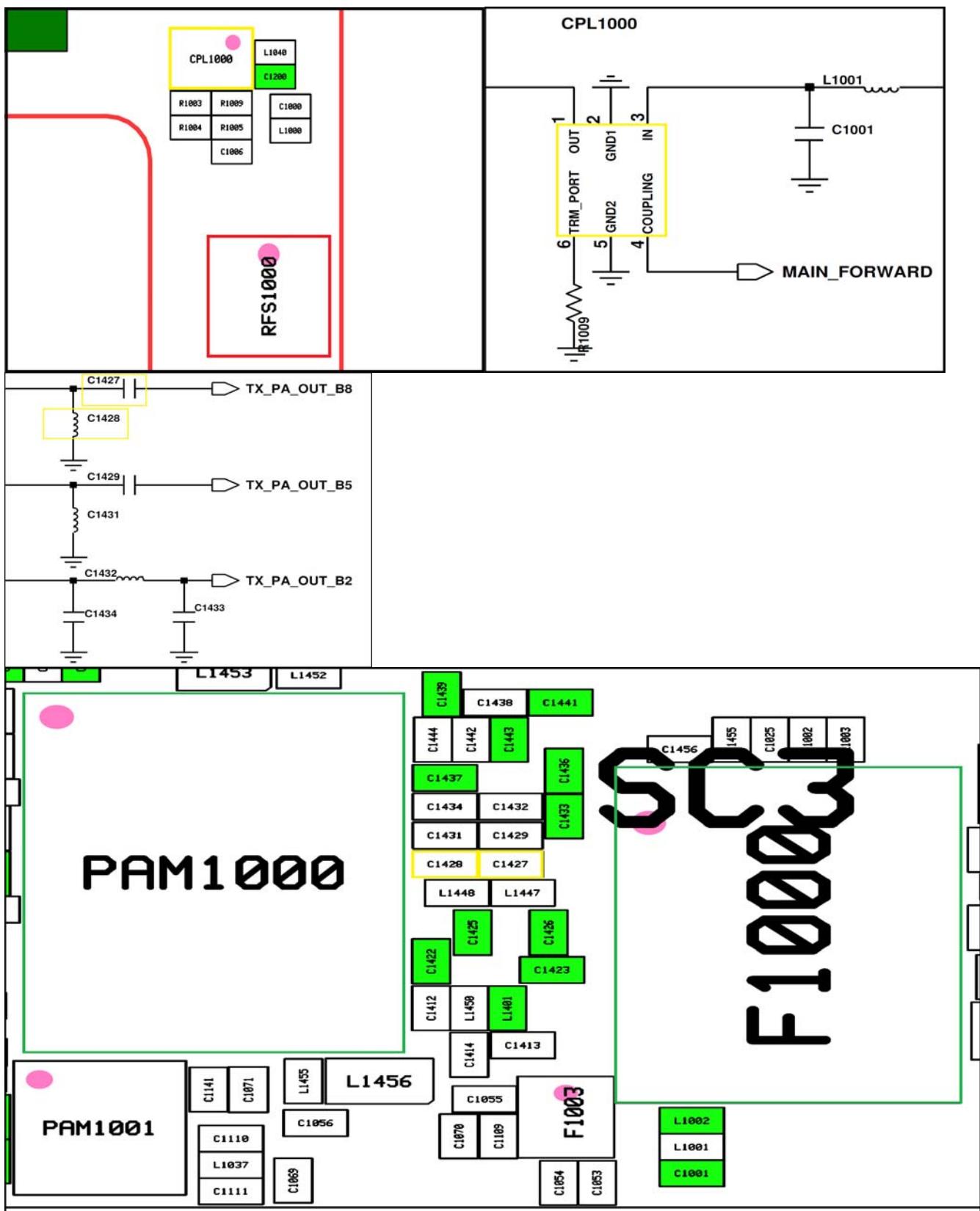


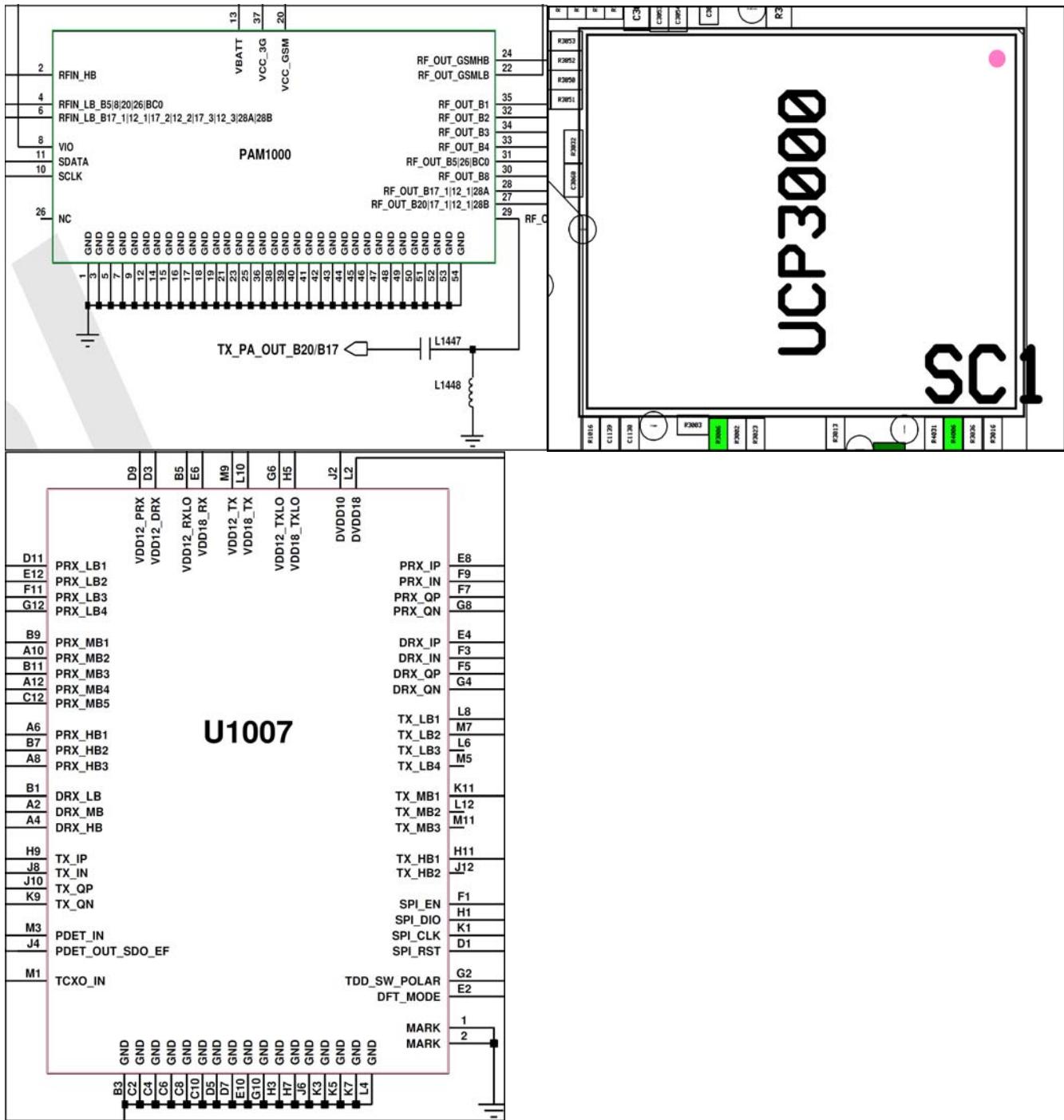




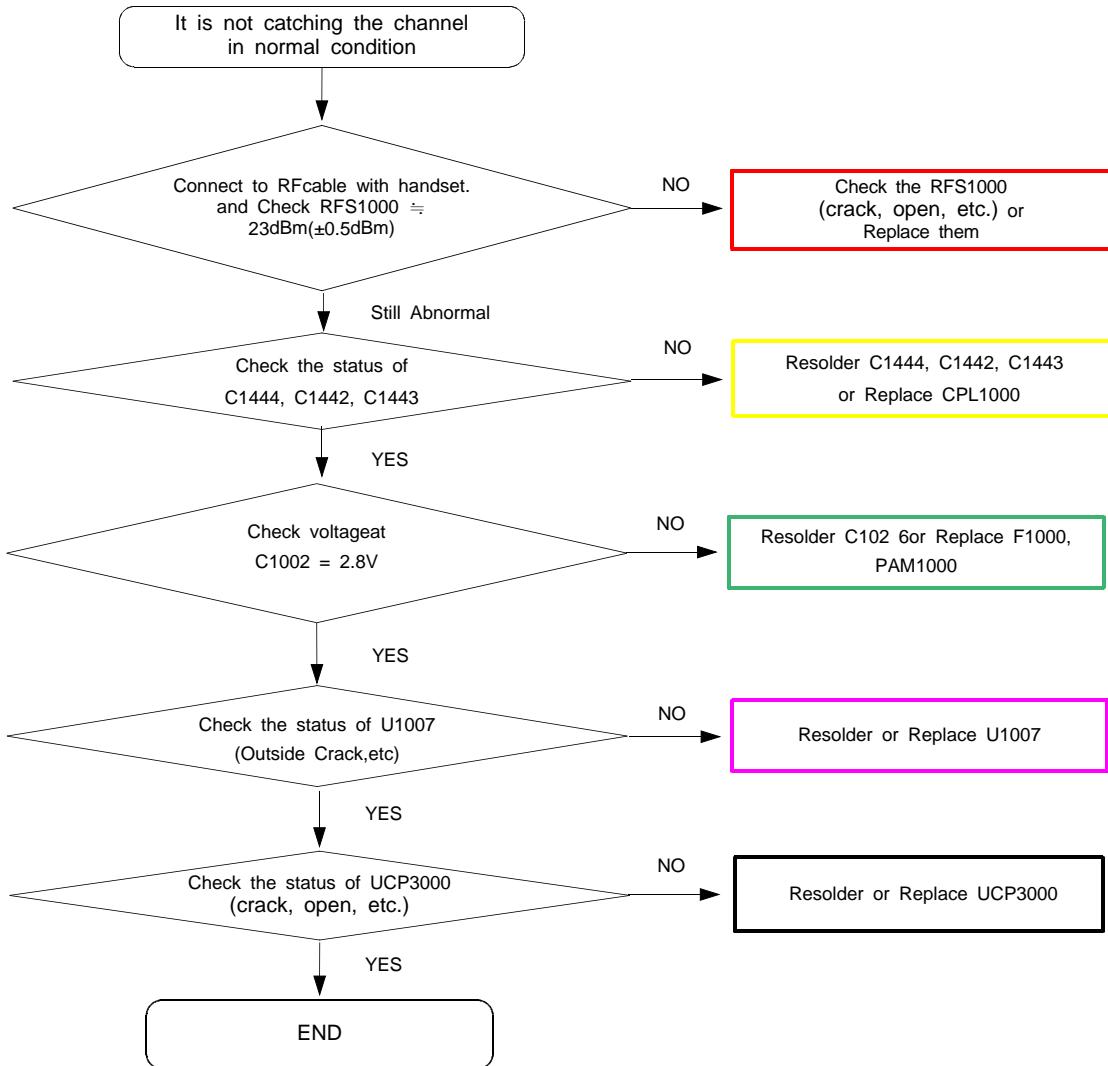
8-4-25. WCDMA Band8 / LTE Band8 Tx

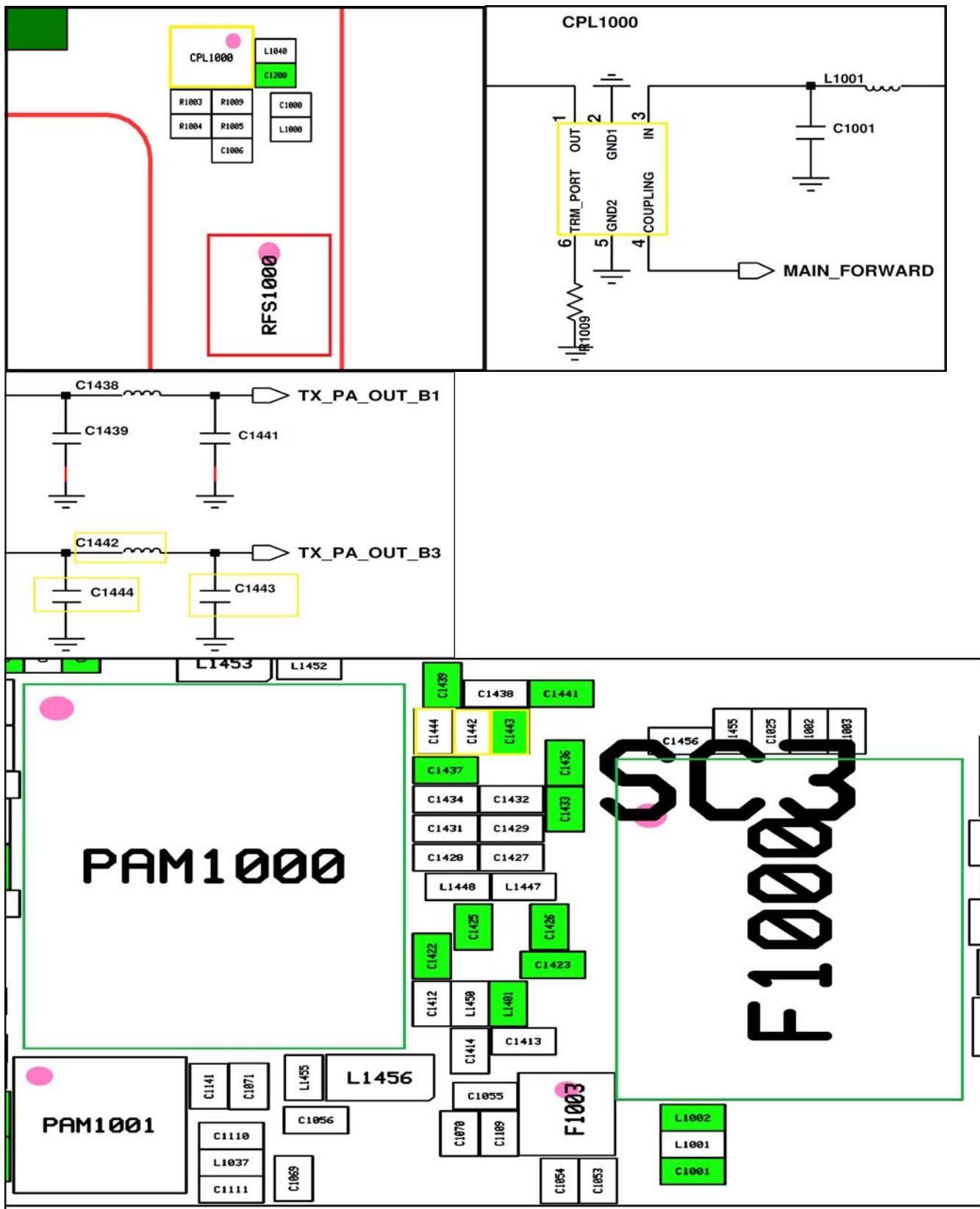


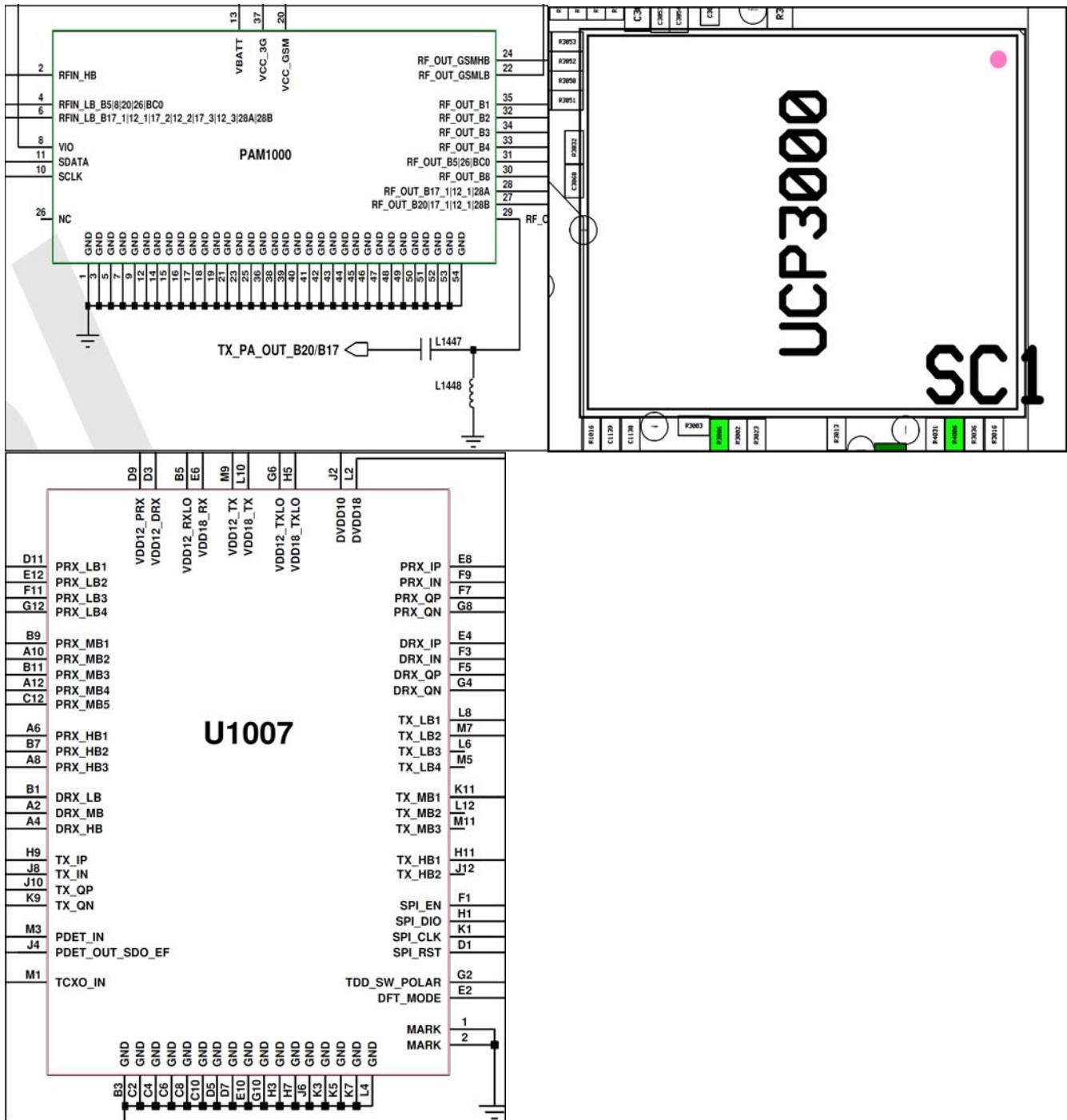




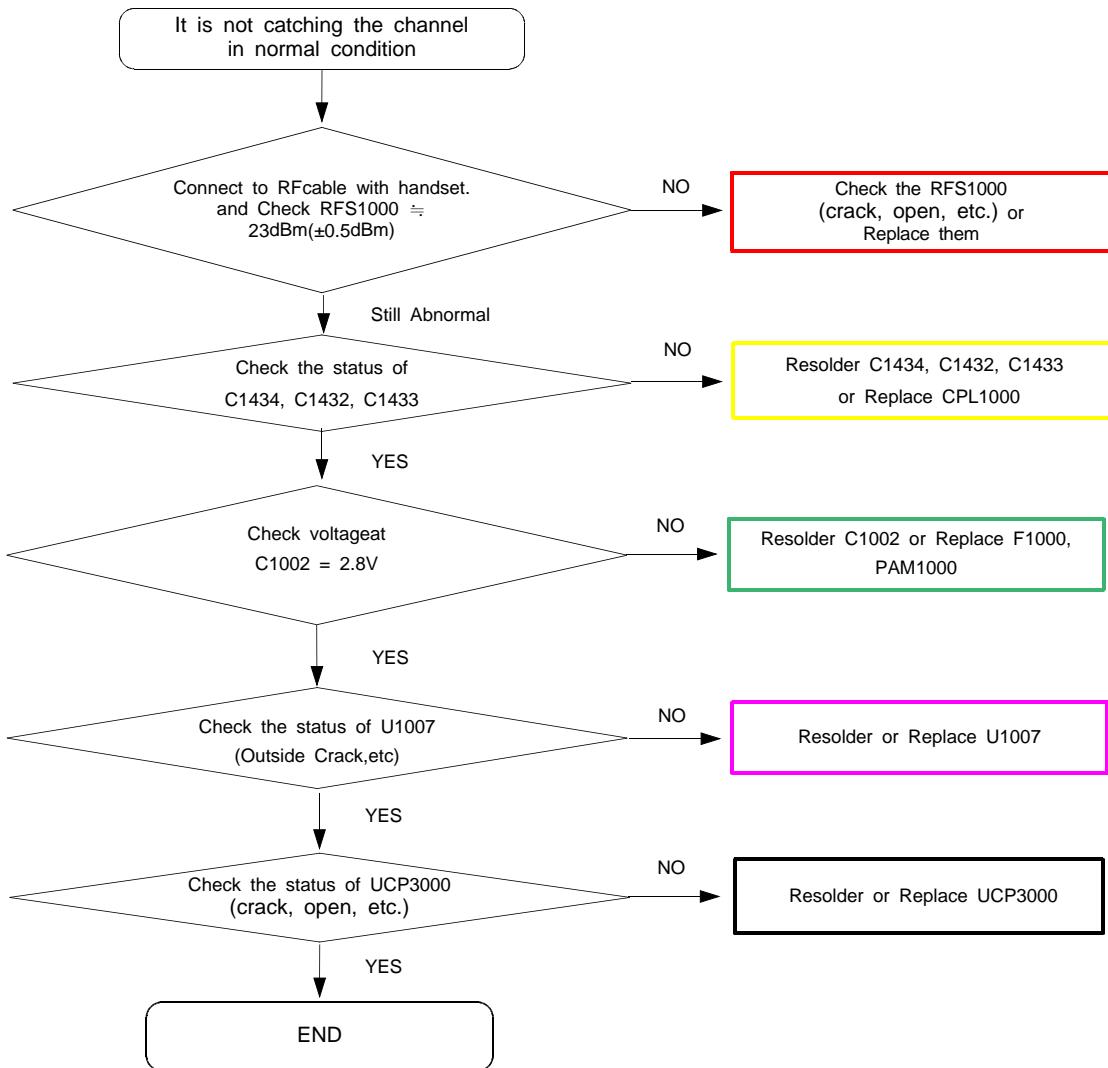
8-4-26. LTE Band3 Tx

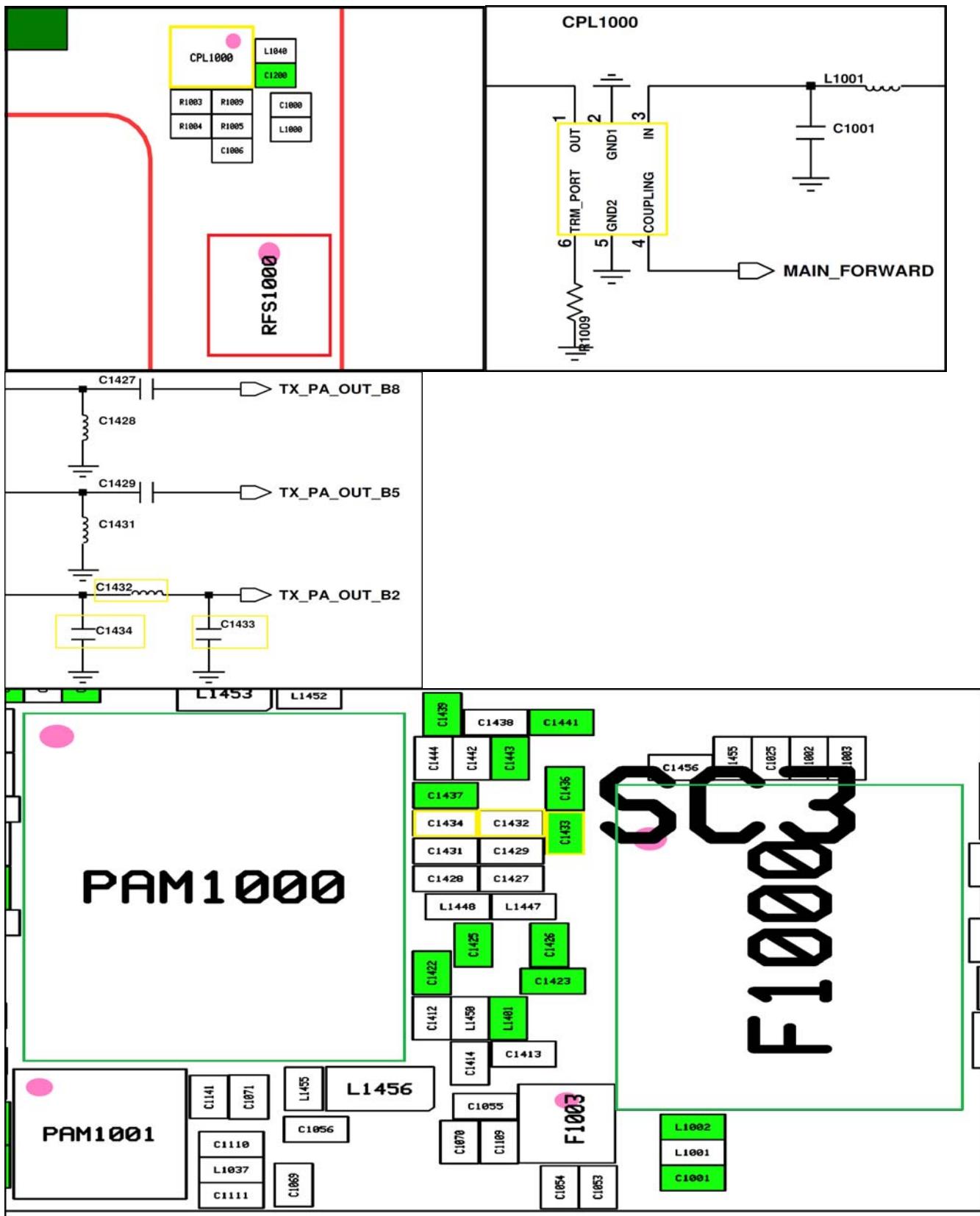


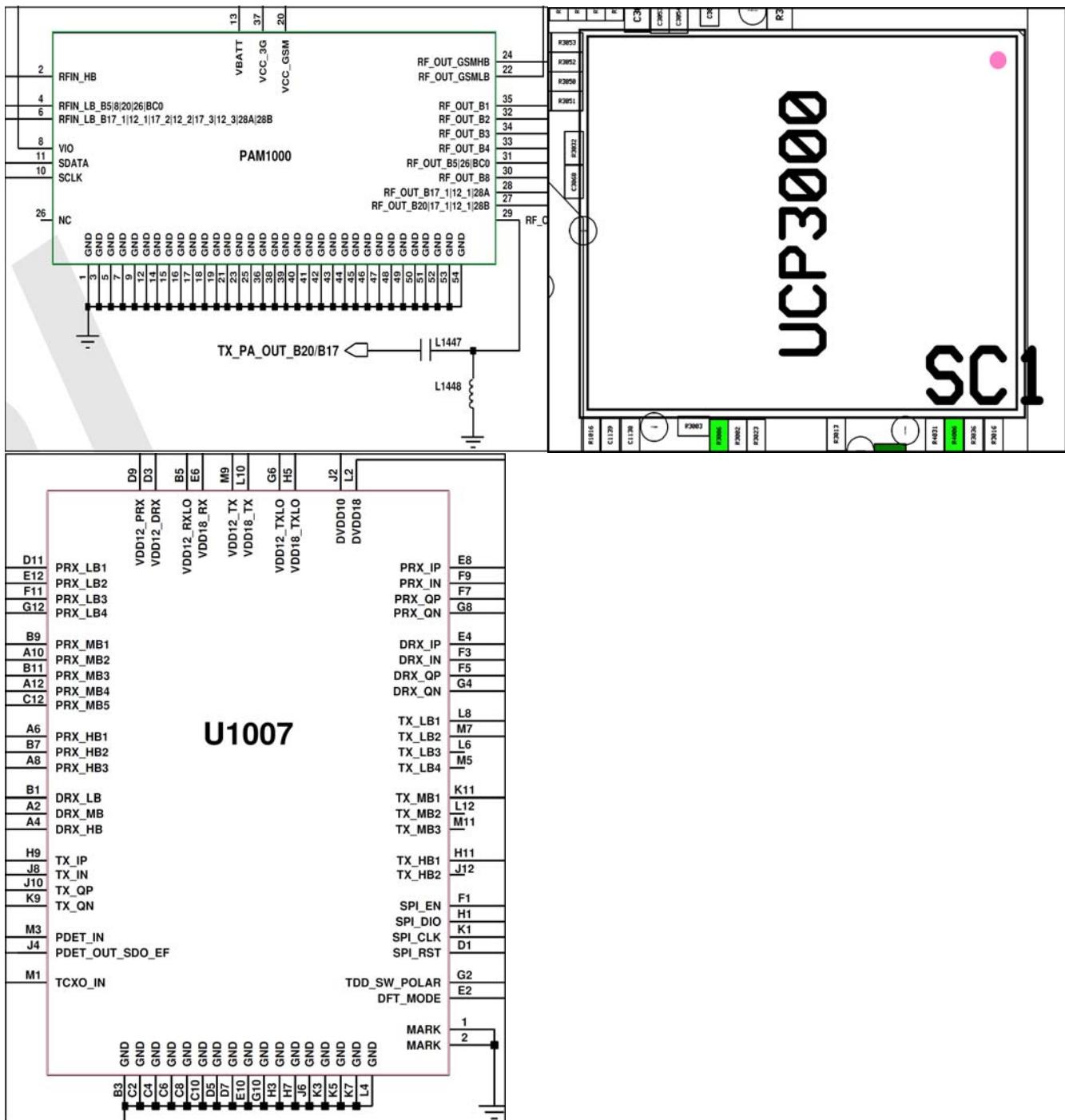




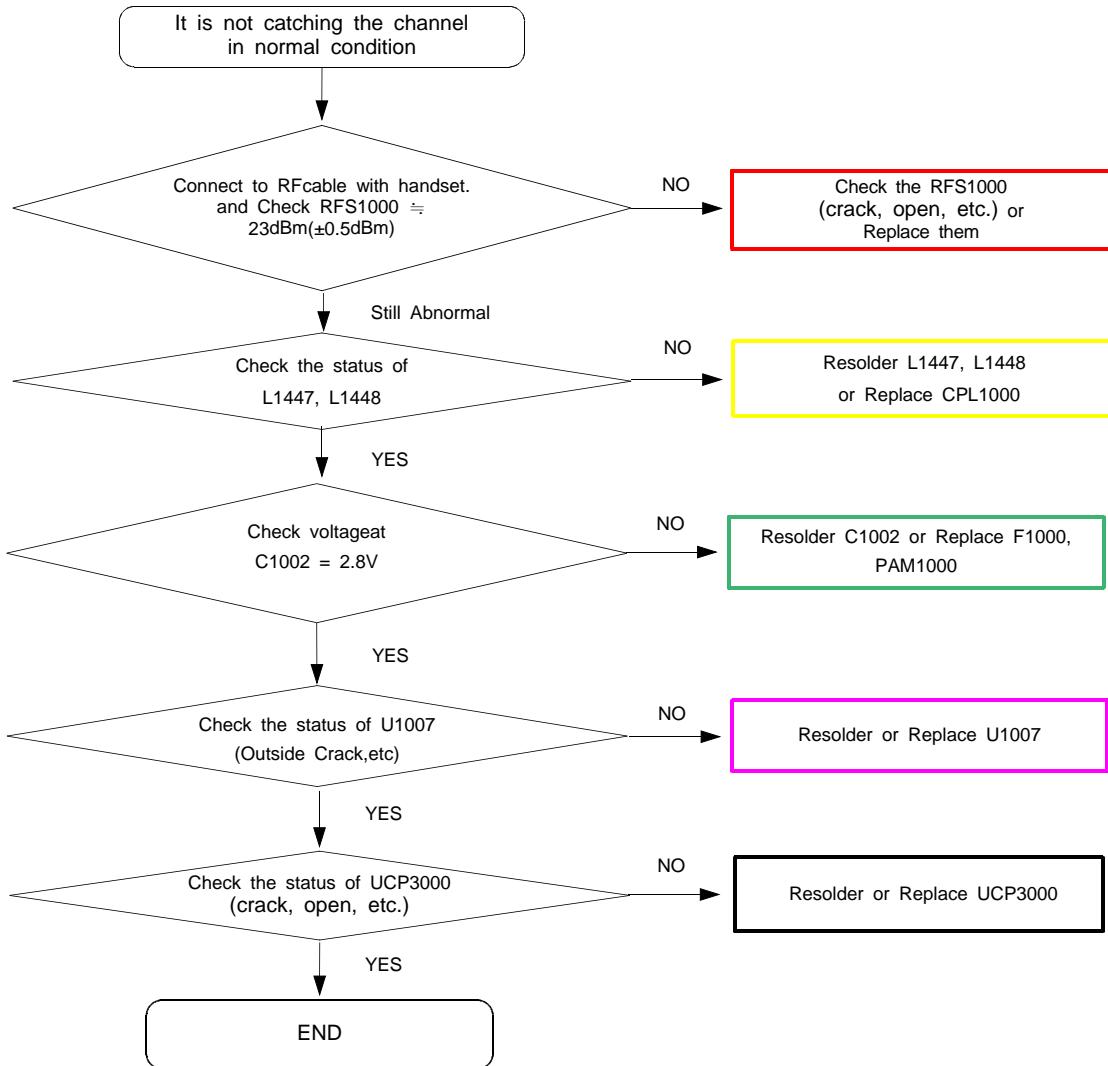
8-4-27. WCDMA Band2 Tx

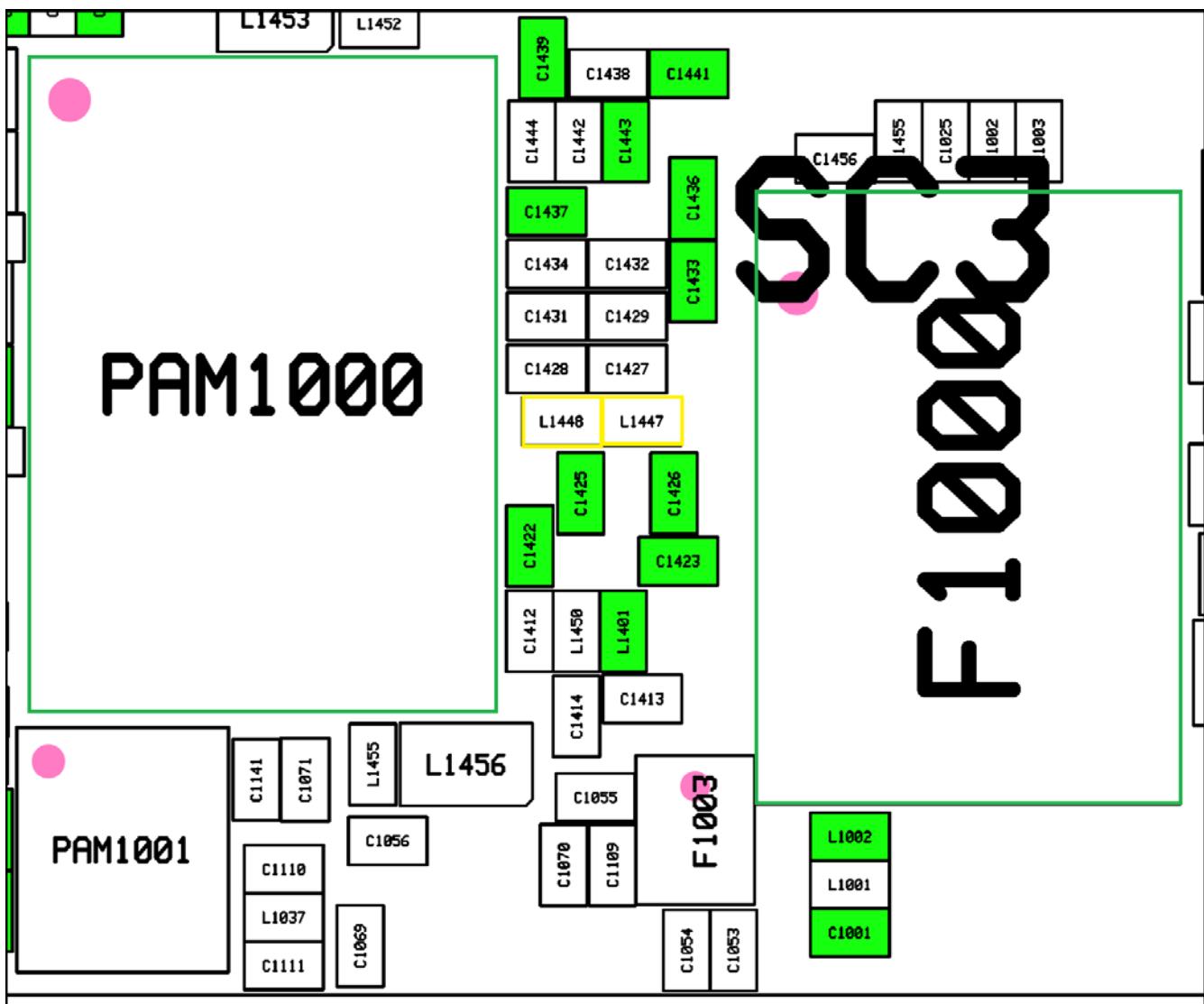
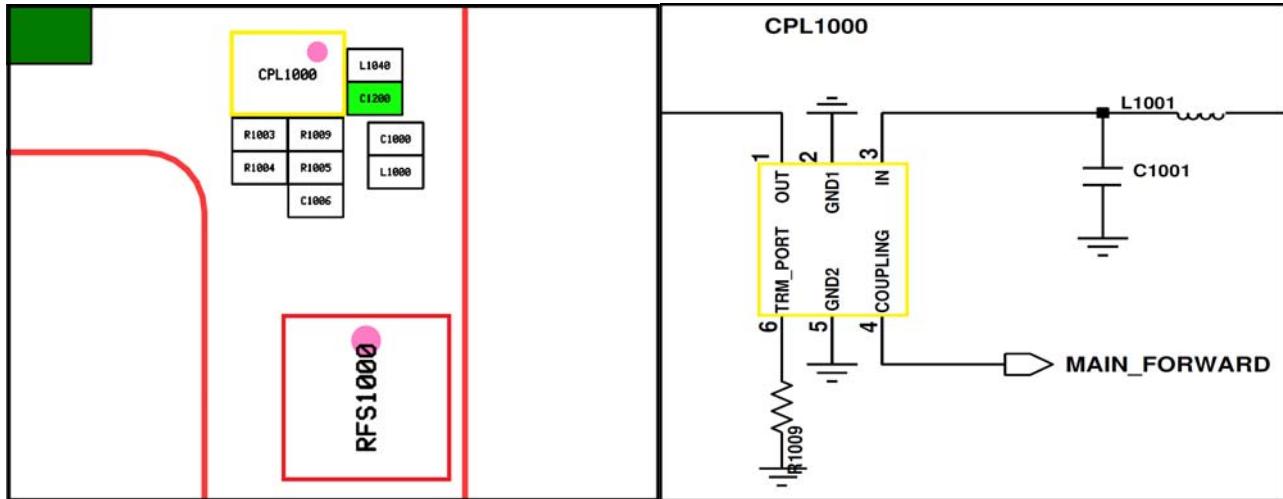


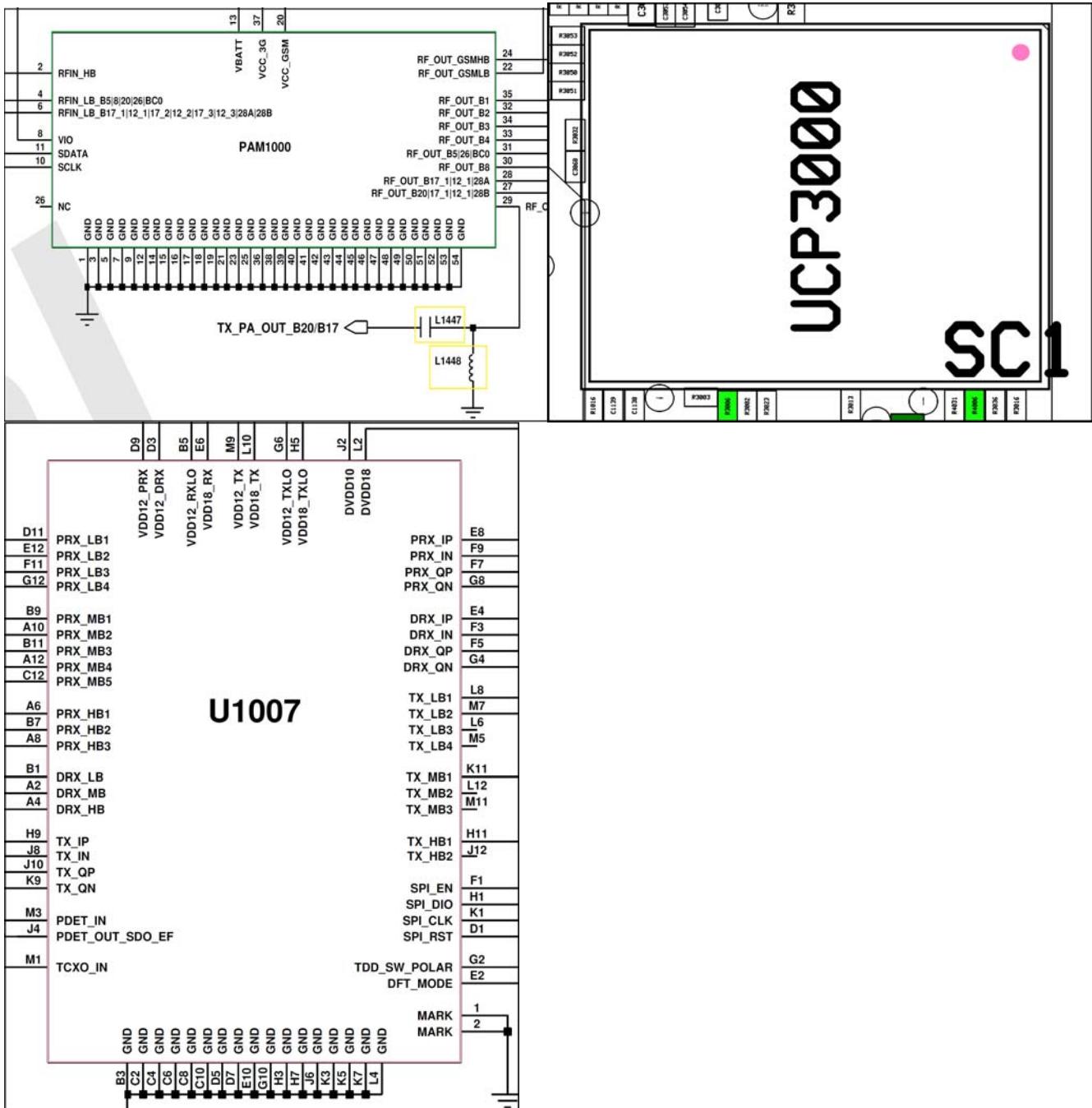




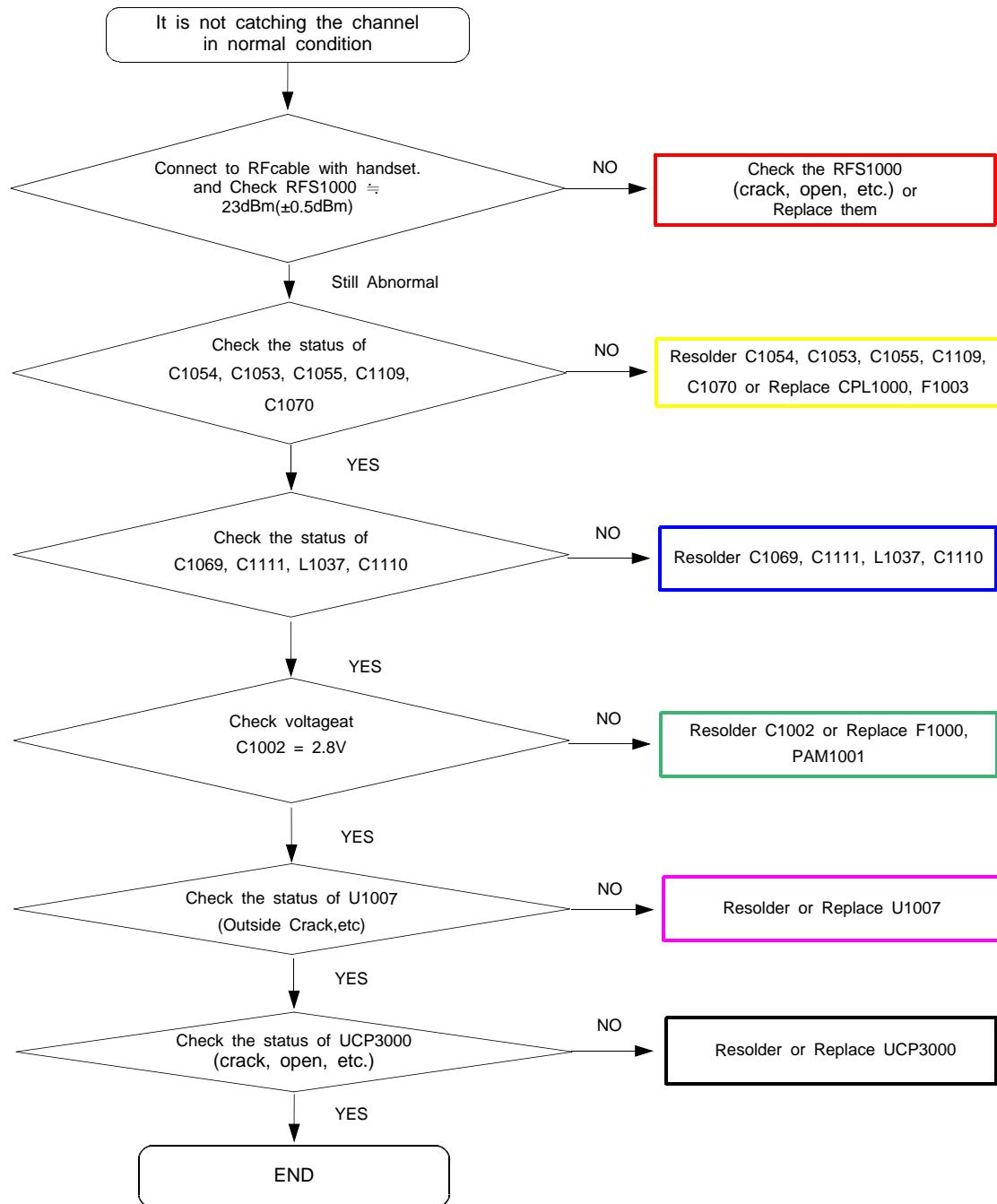
8-4-28. LTE Band20 Tx

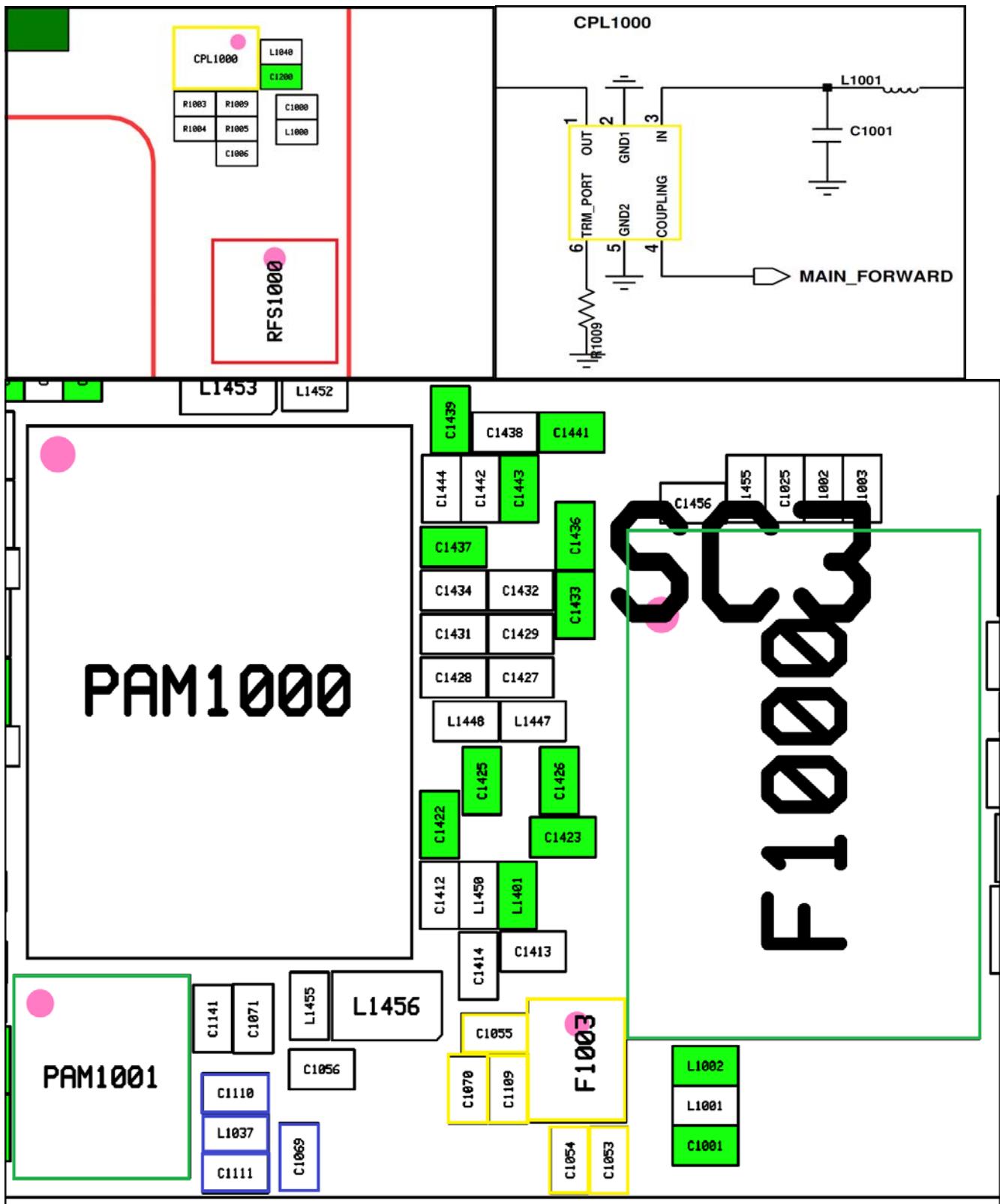


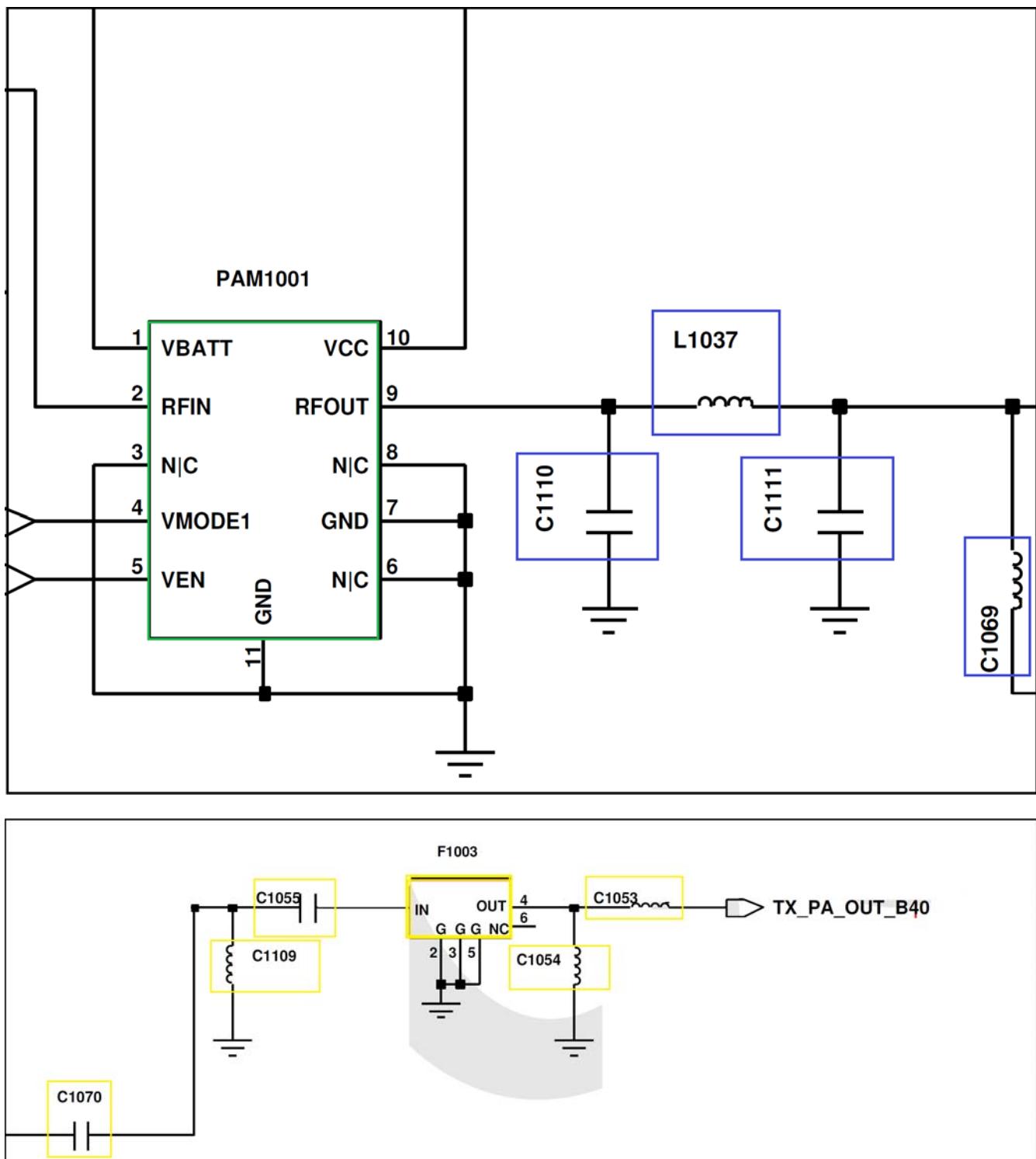


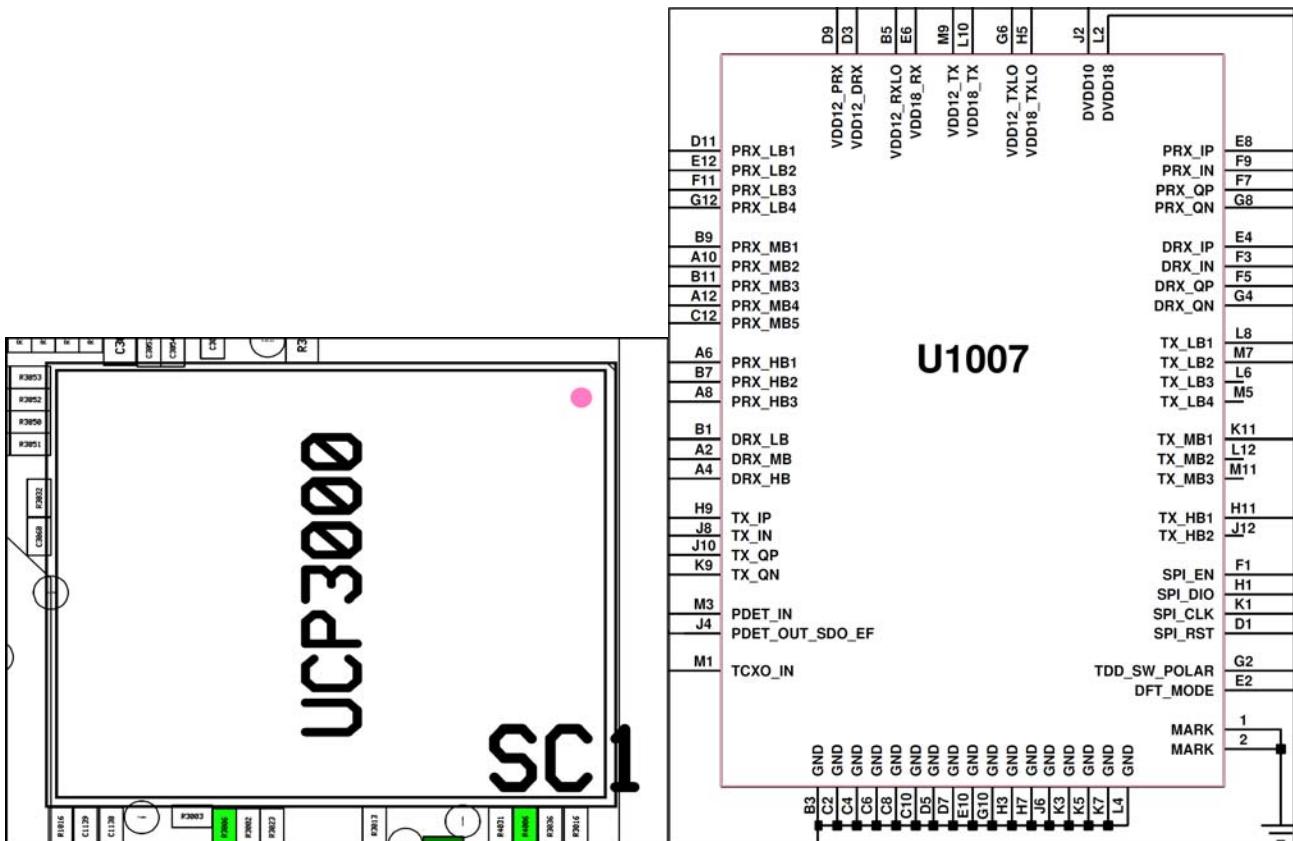


8-4-29. LTE Band40 Tx

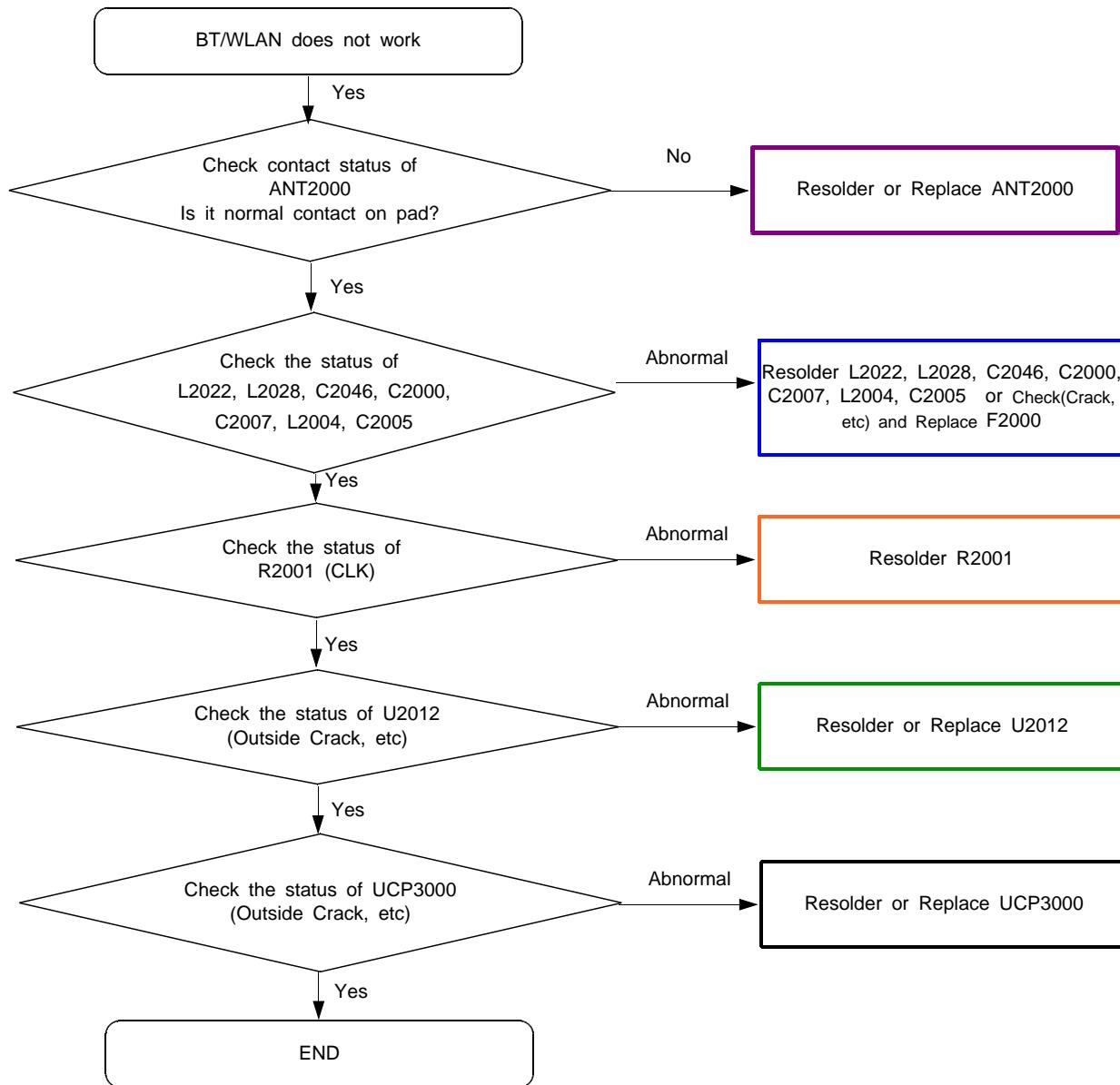


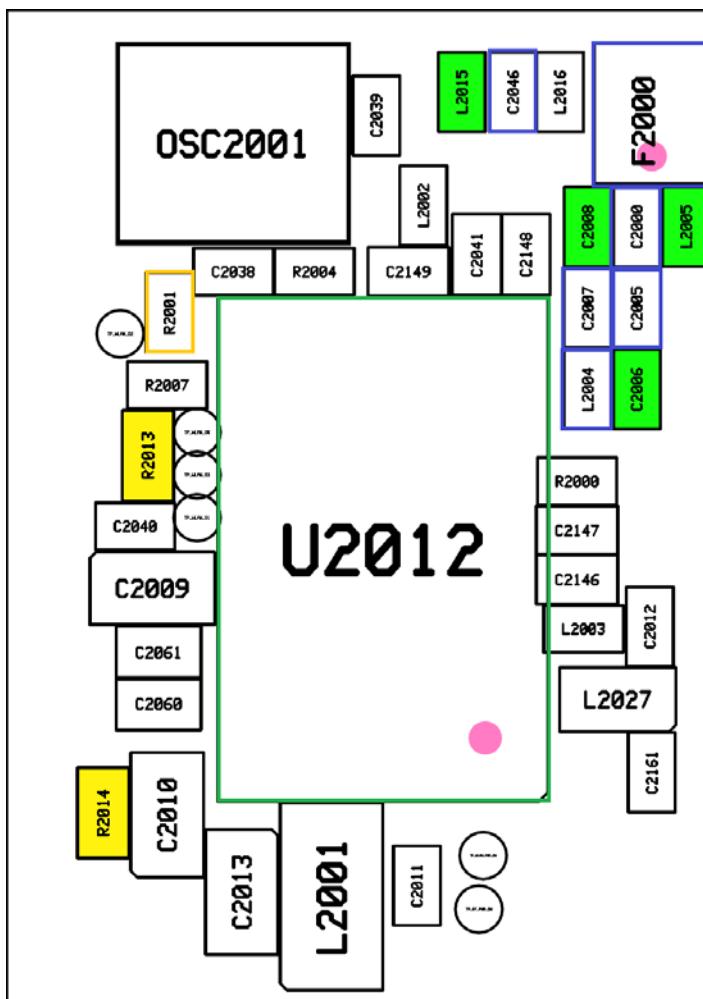
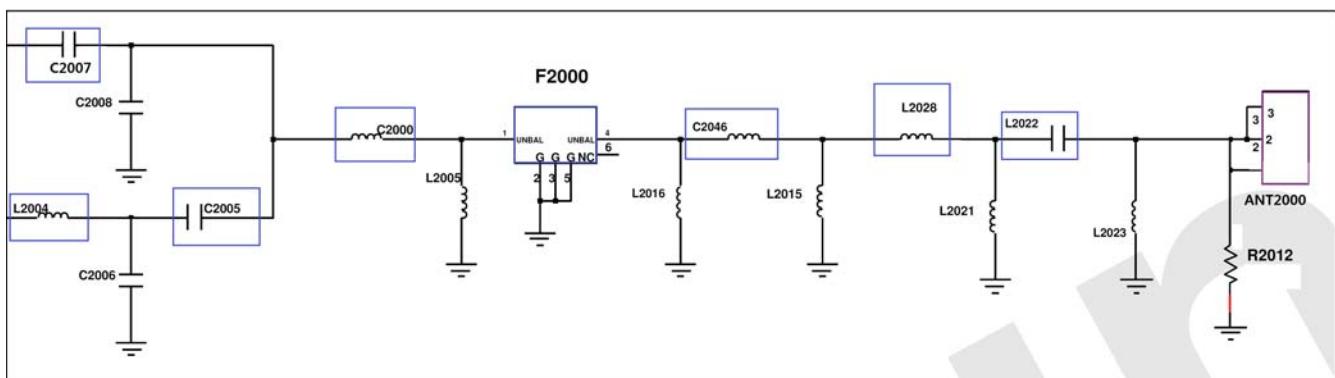


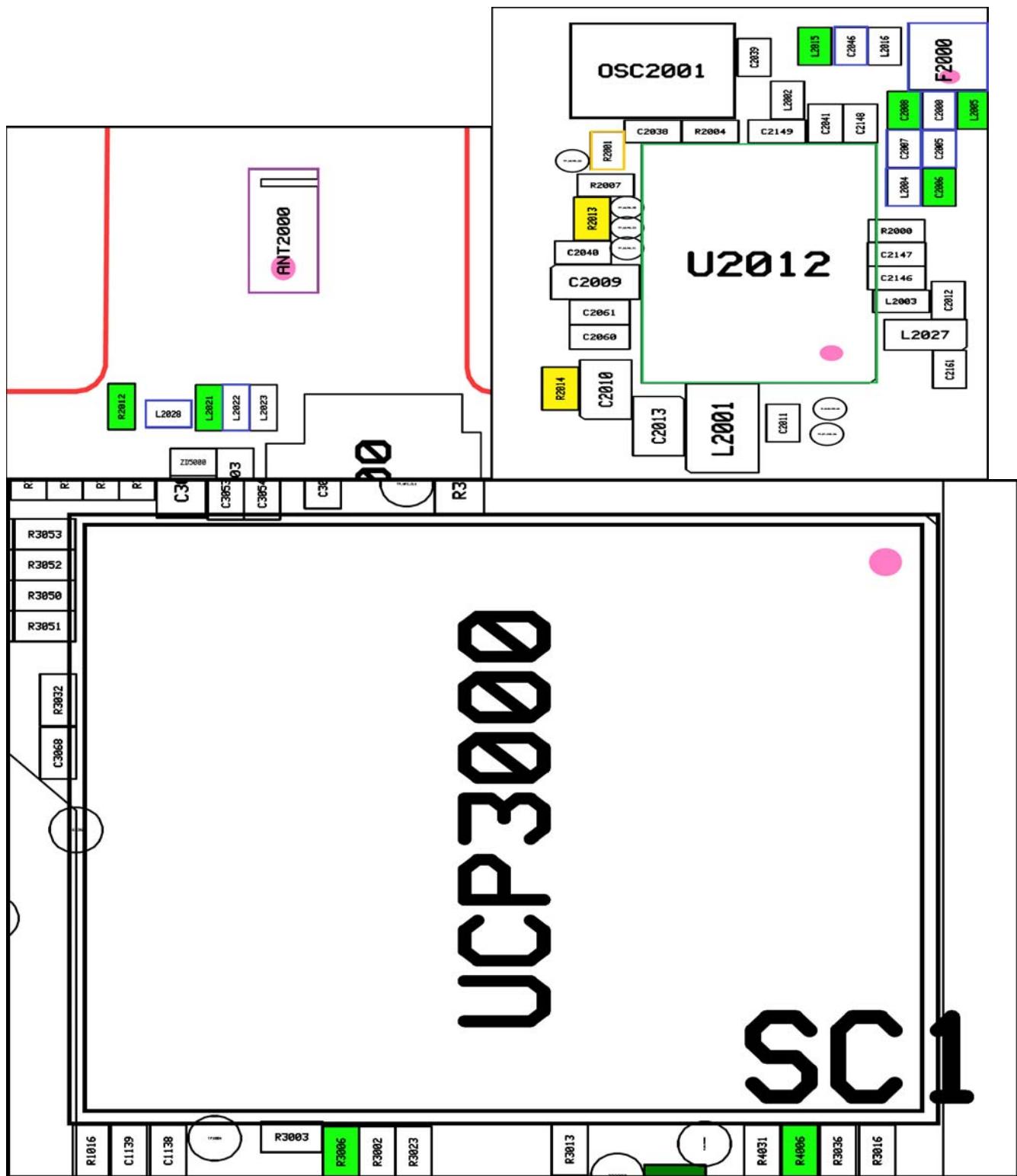




8-4-30. BT/WLAN







8-4-31. GPS

