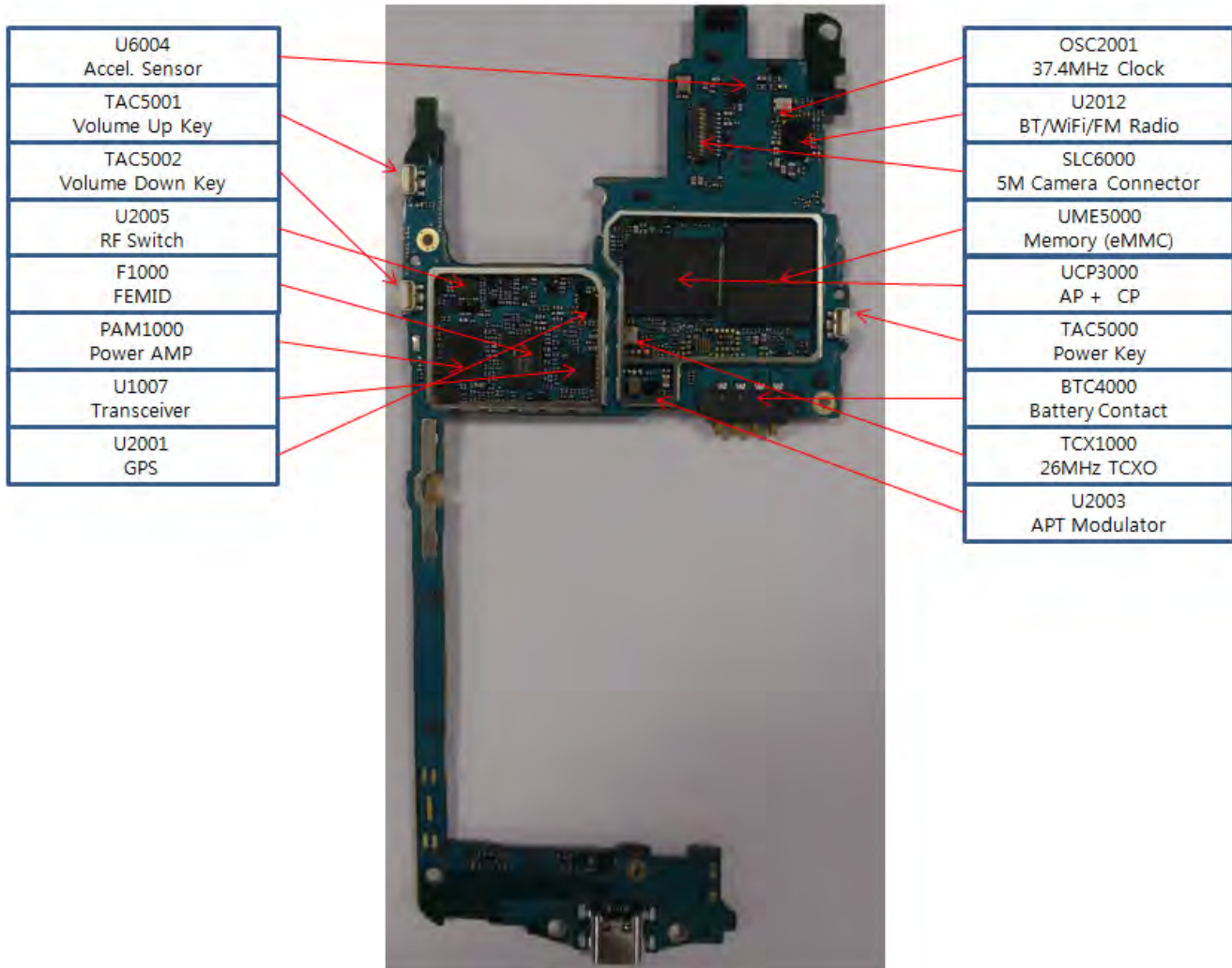


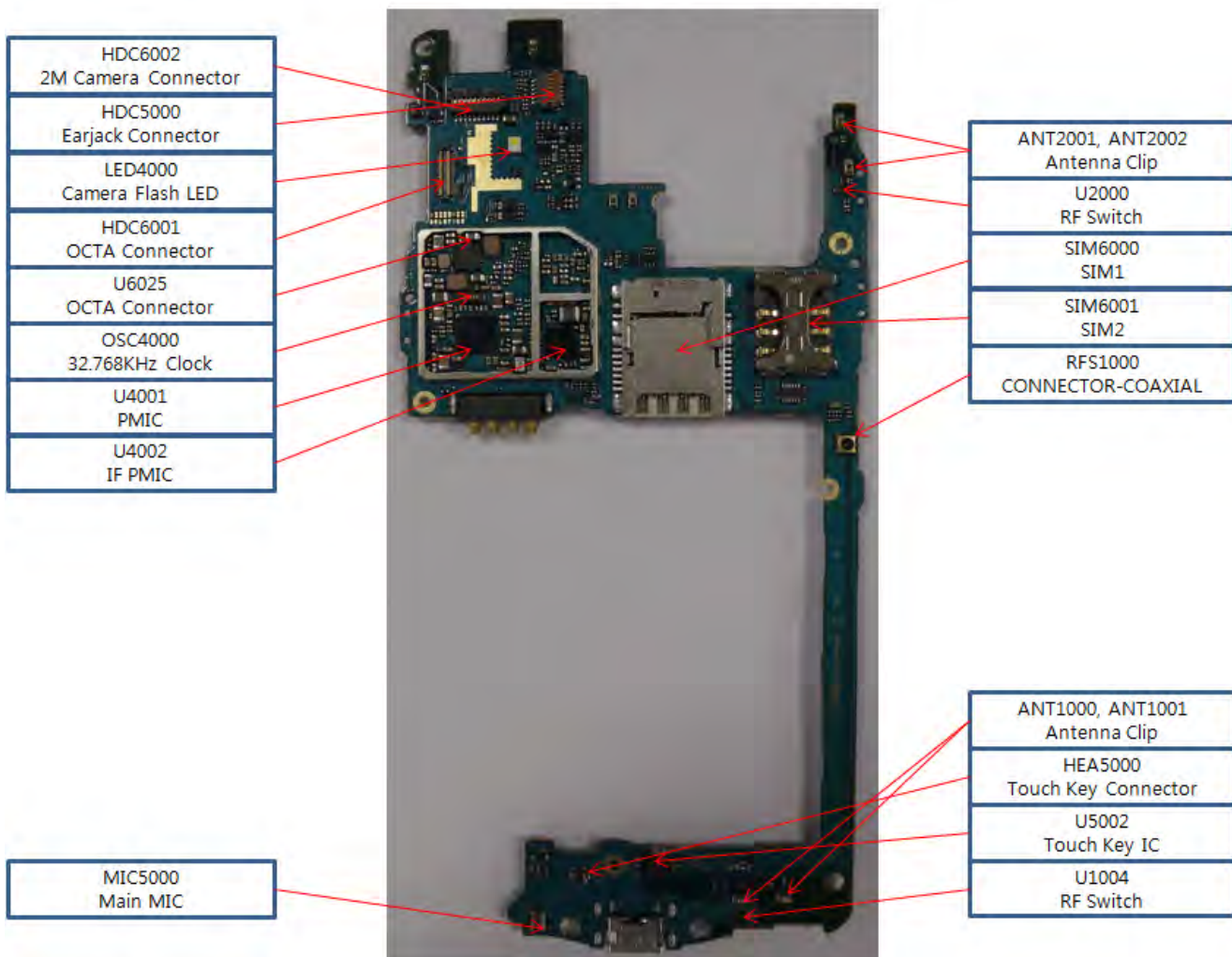
8. Level 3 Repair

8-1. Components Layout

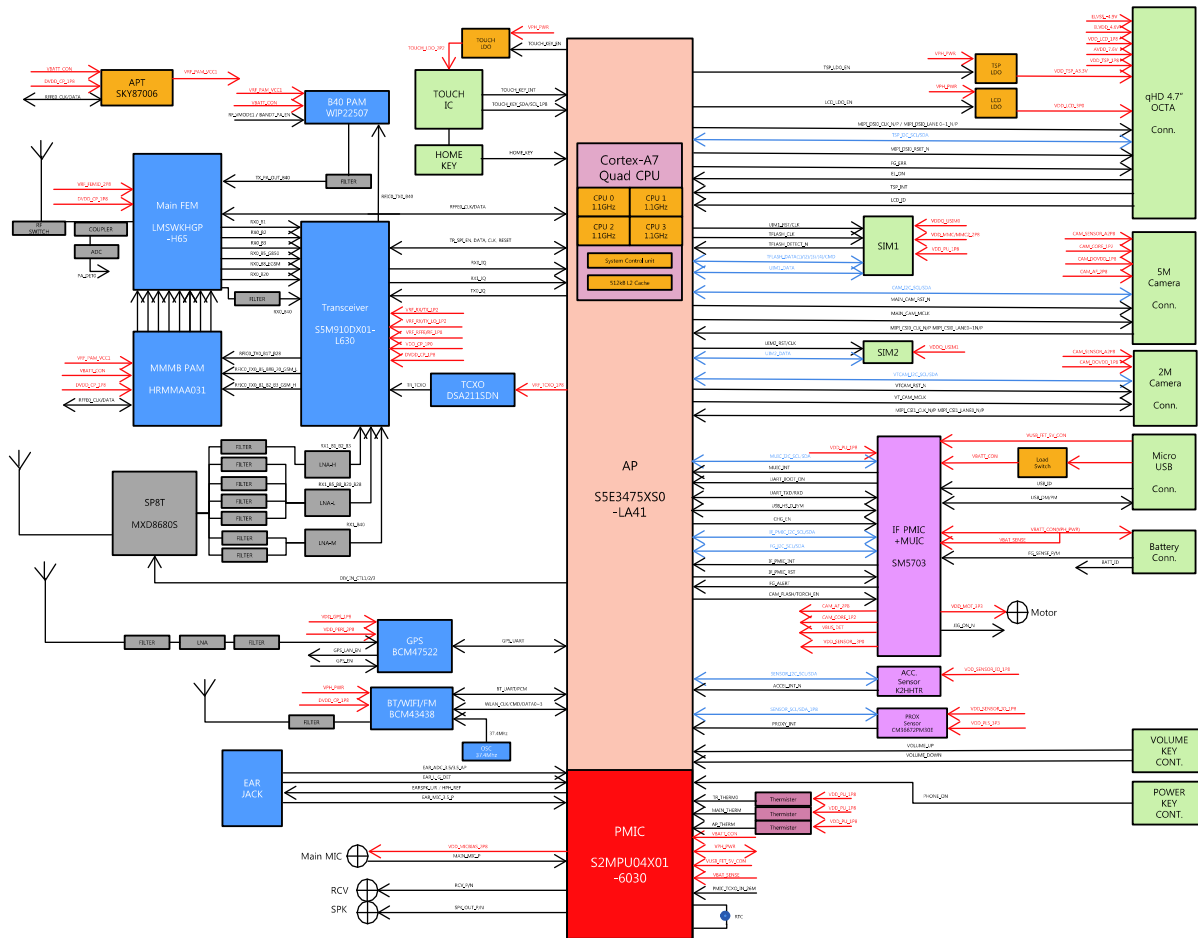
PBA (Top Side)



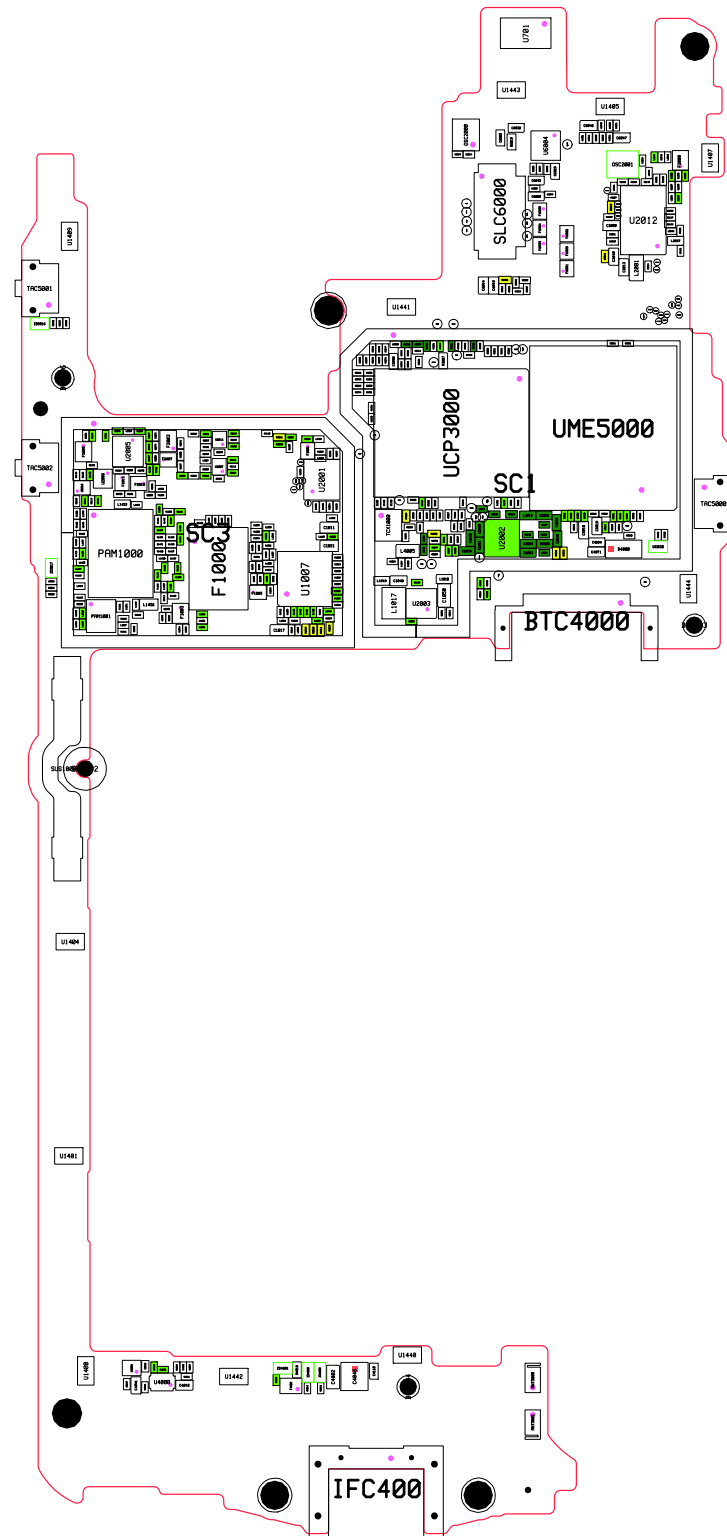
PBA (Bottom Side)



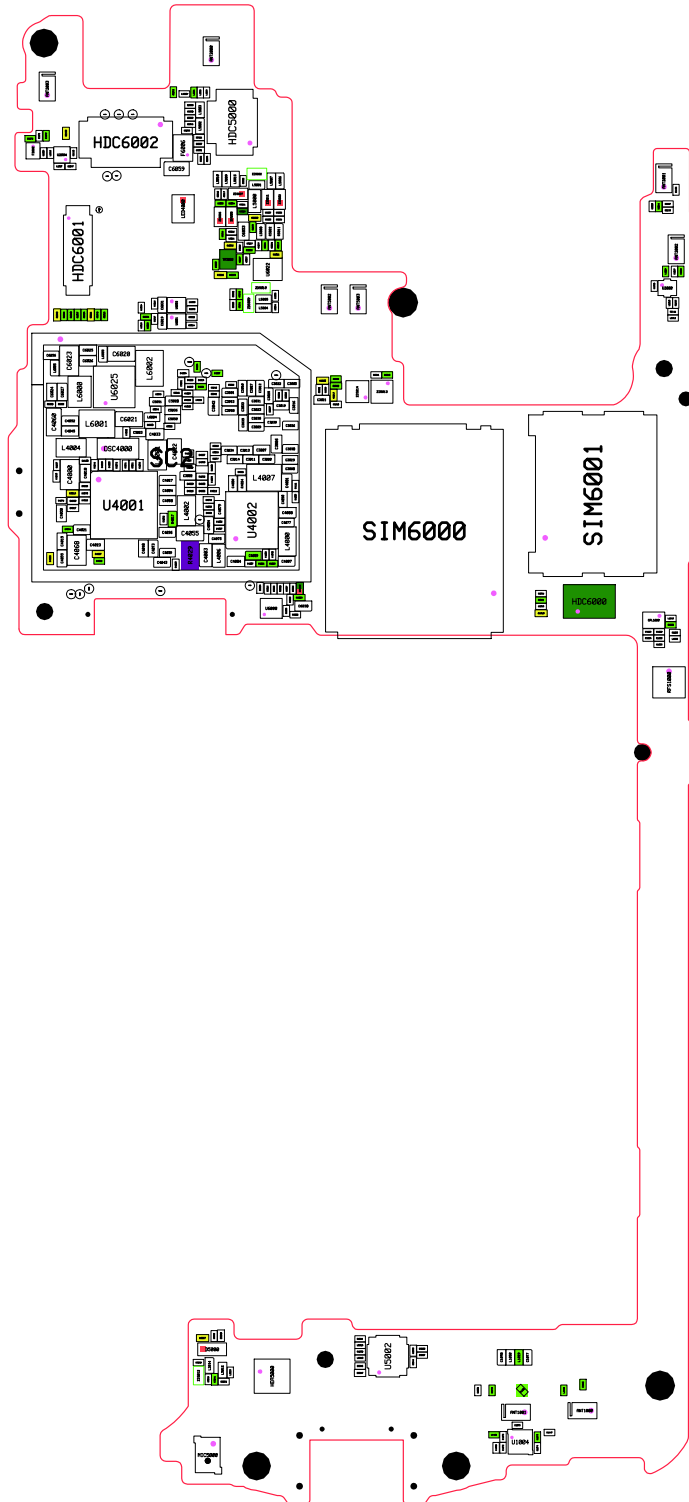
8-2. Block Diagram



8-3-1. Top

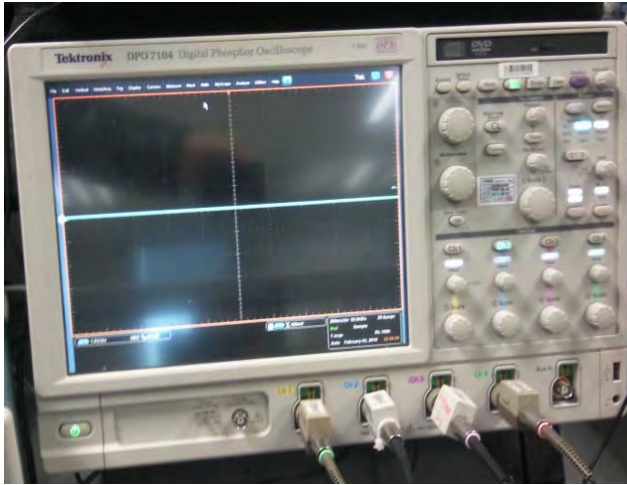


8-3-2. Bottom



8-4. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



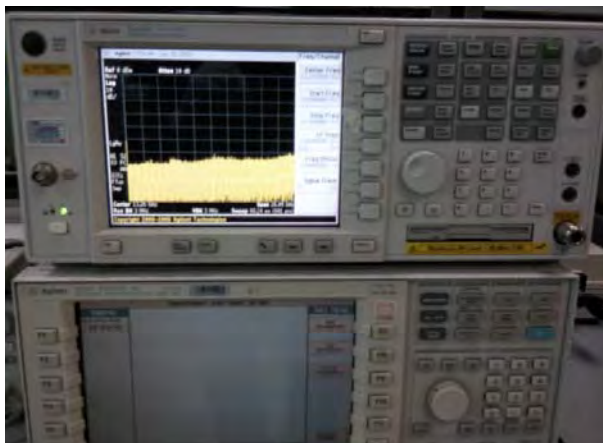
á Digital Multi-meter



á Power Supply



á + driver, ESD Safe Tweezer

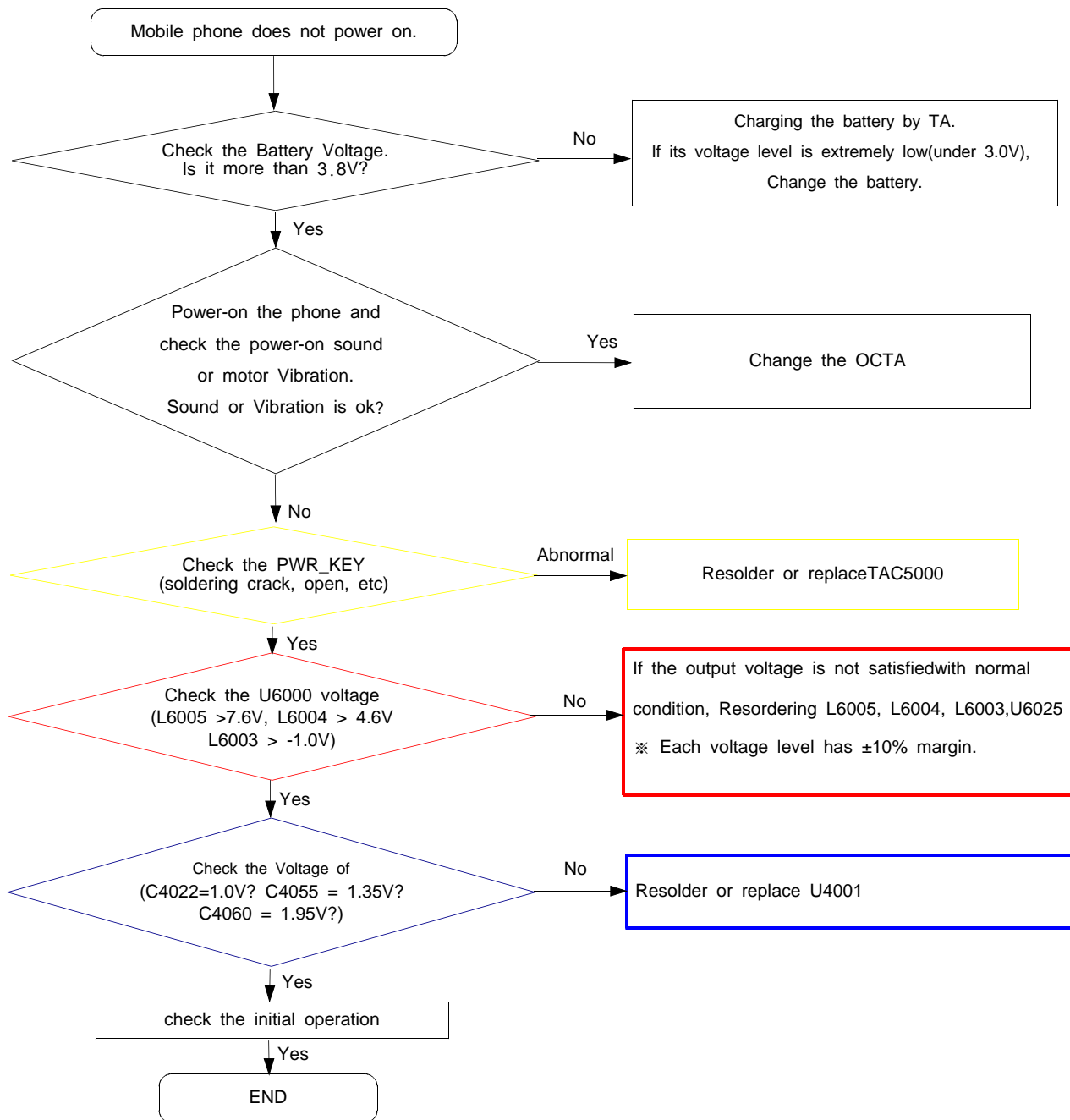


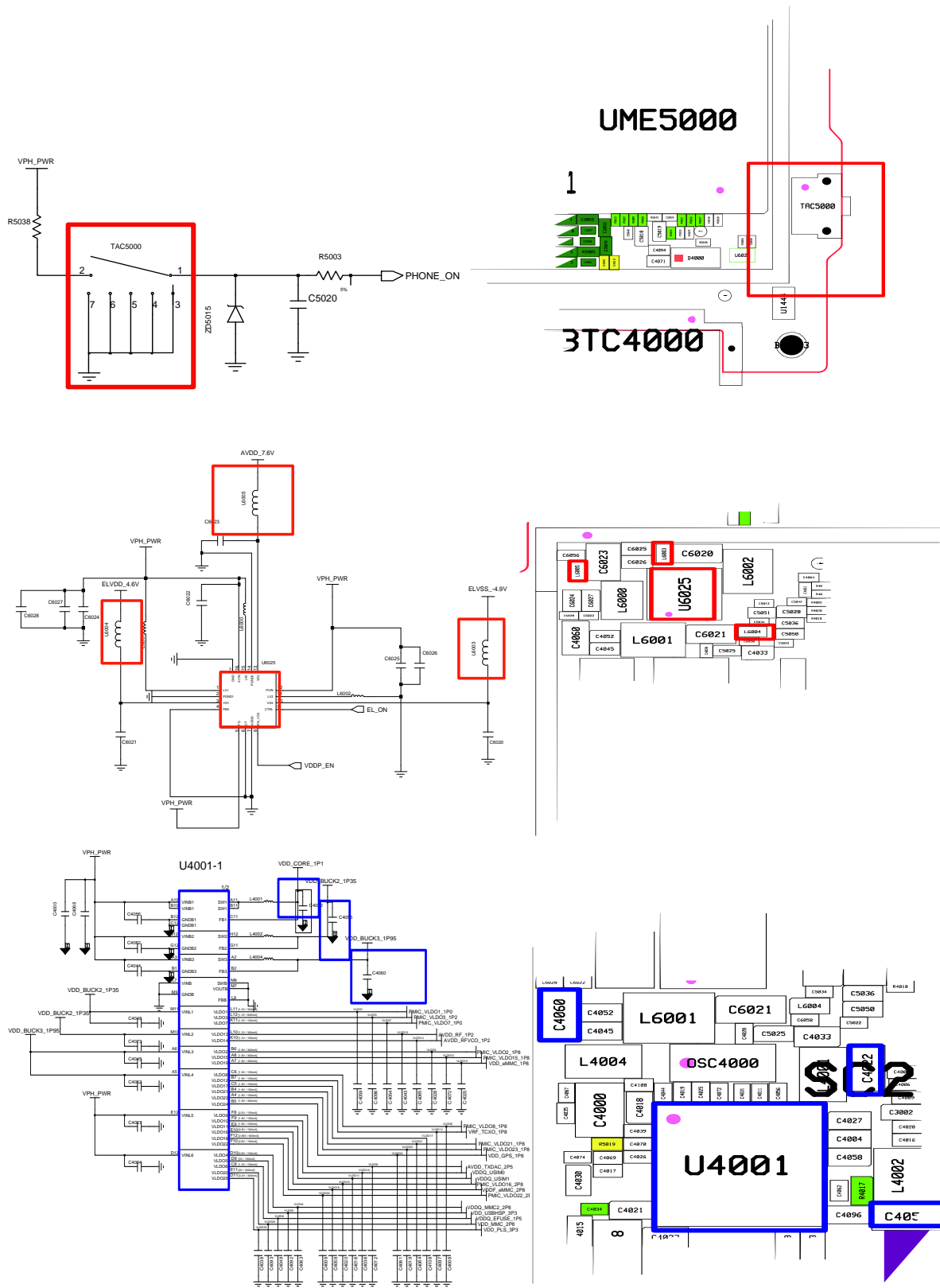
↑ 8960 & Spectrum Analyzer



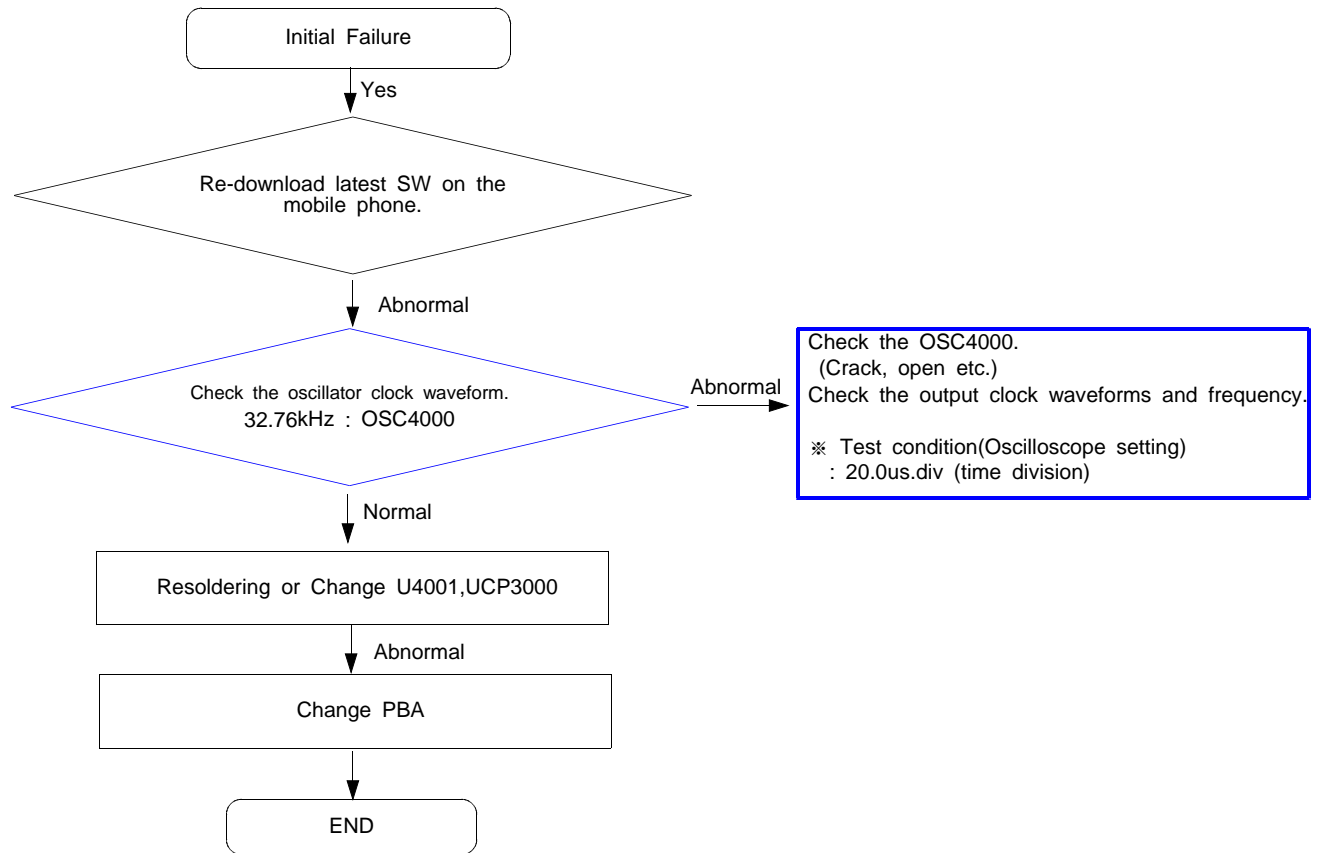
á Soldering iron

8-4-1. Power On





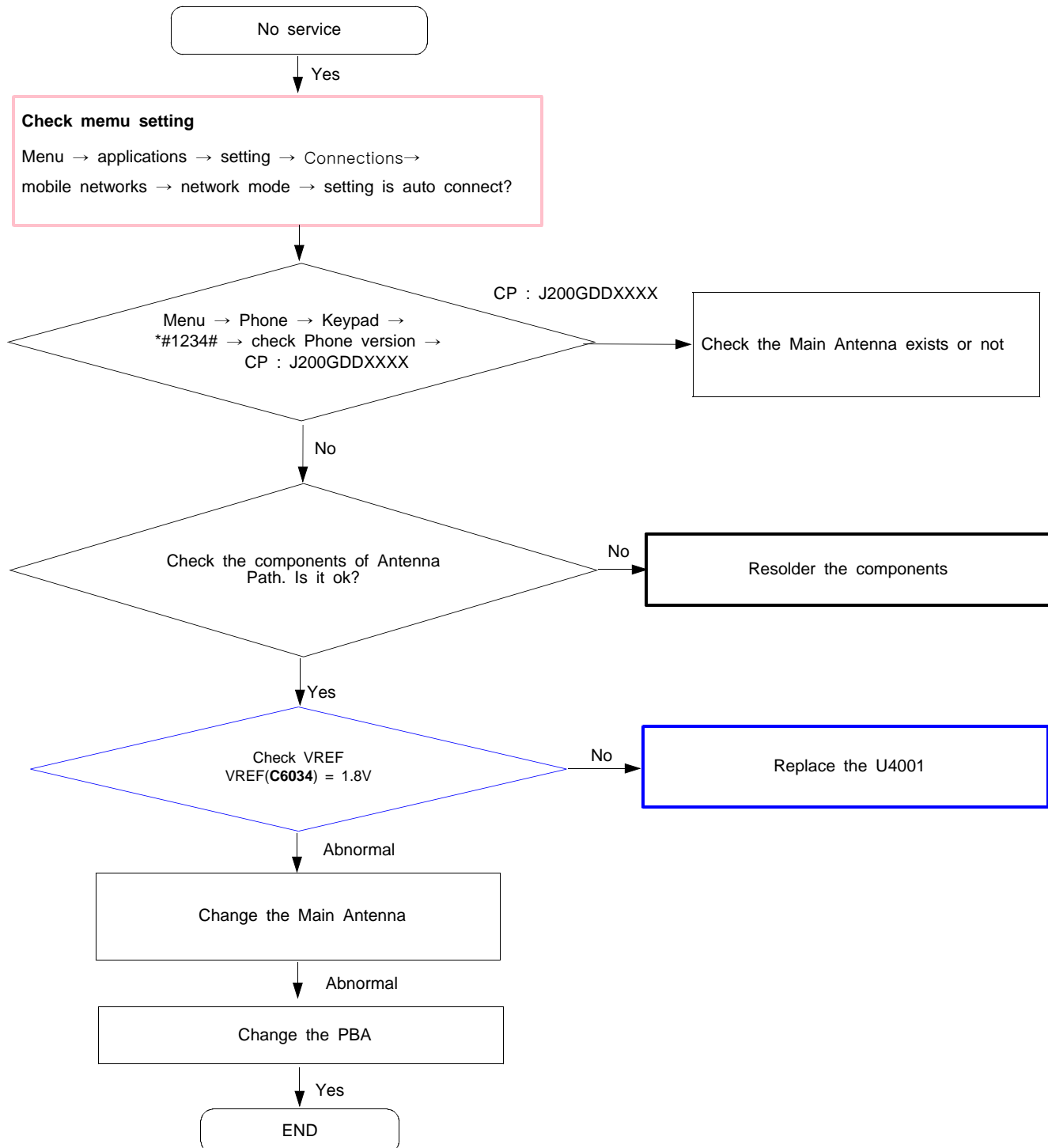
8-4-2. Initial

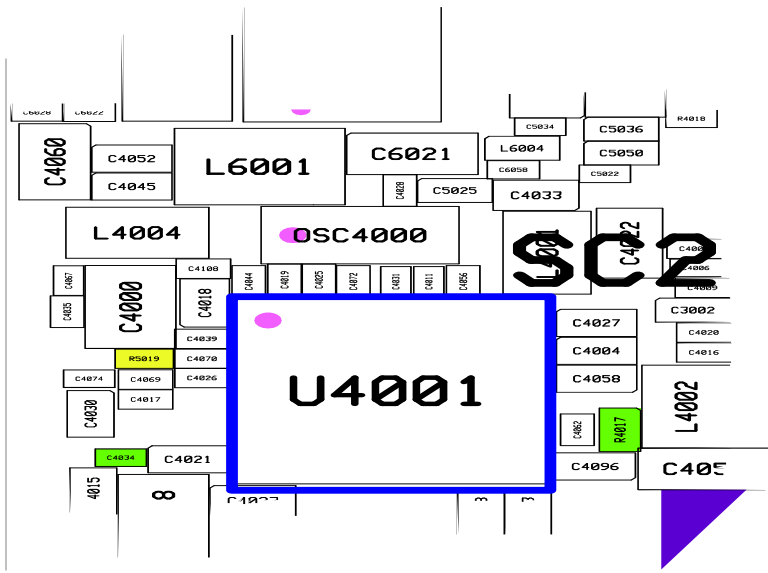




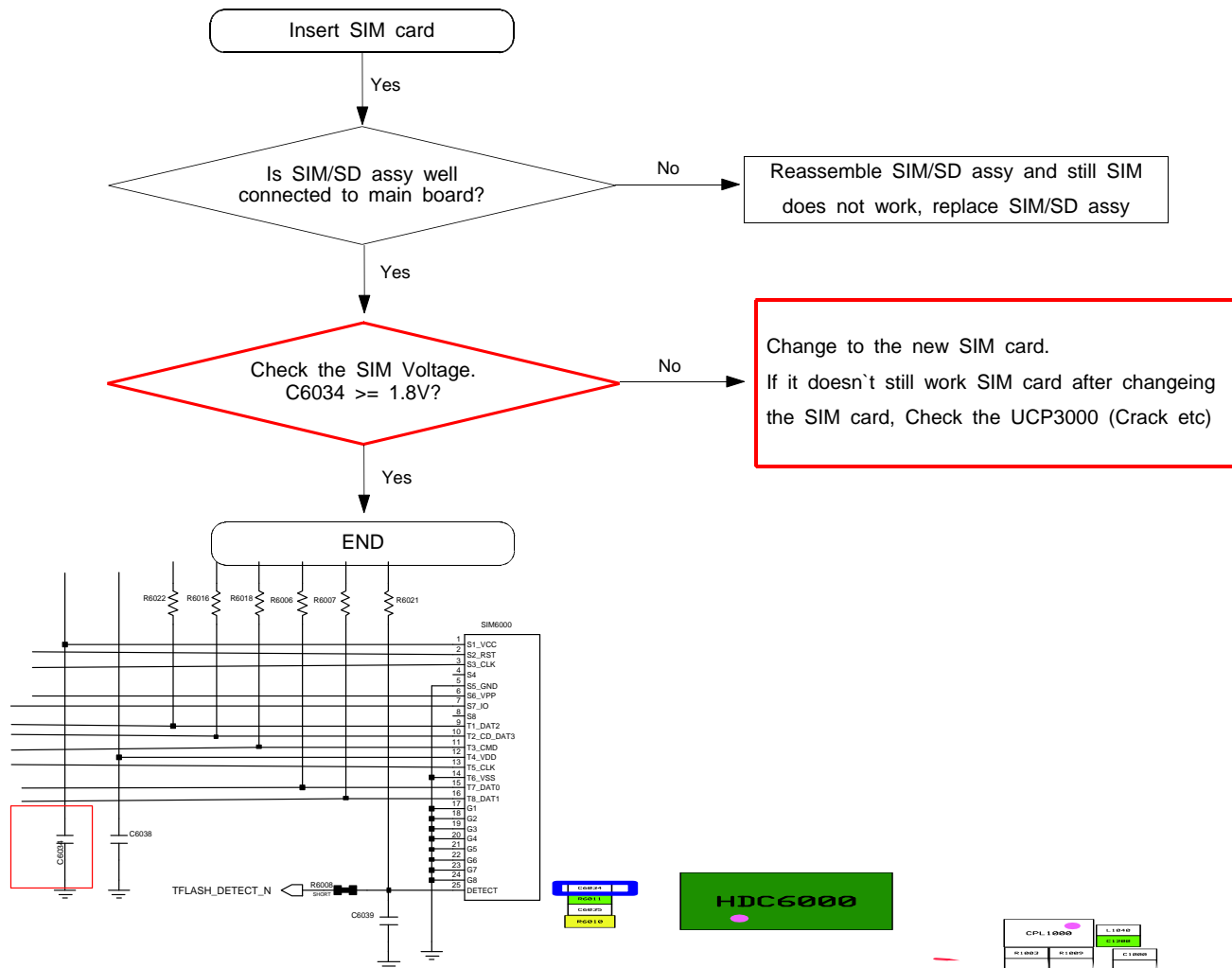
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8-4-3. No Service

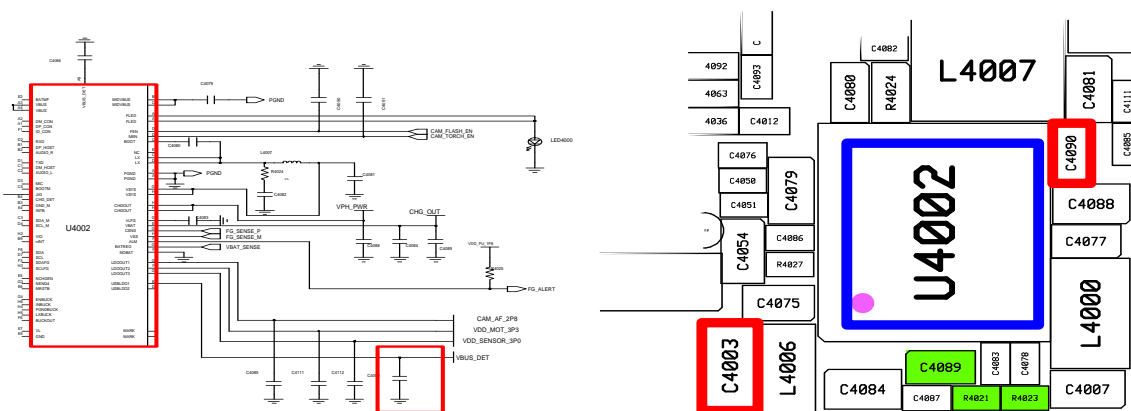




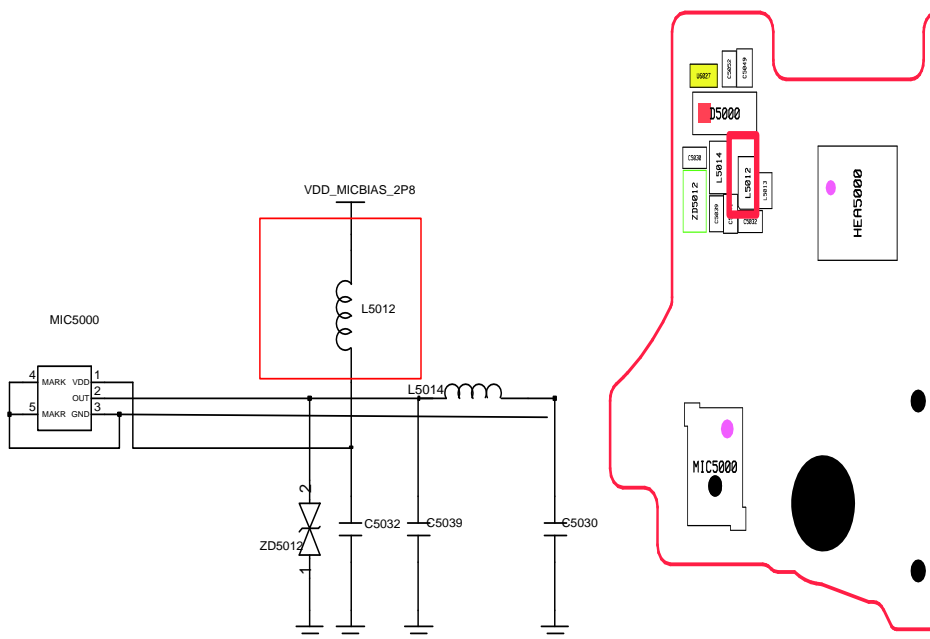
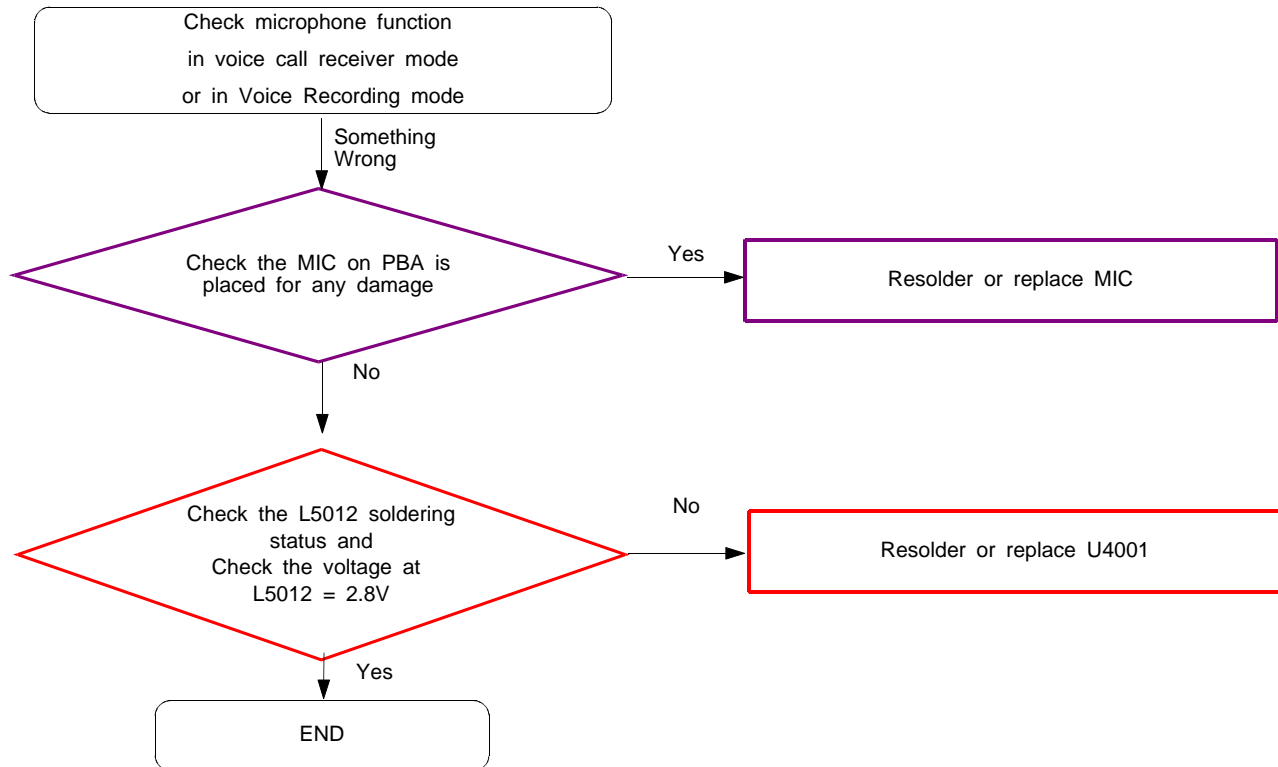
8-4-4. Sim Part



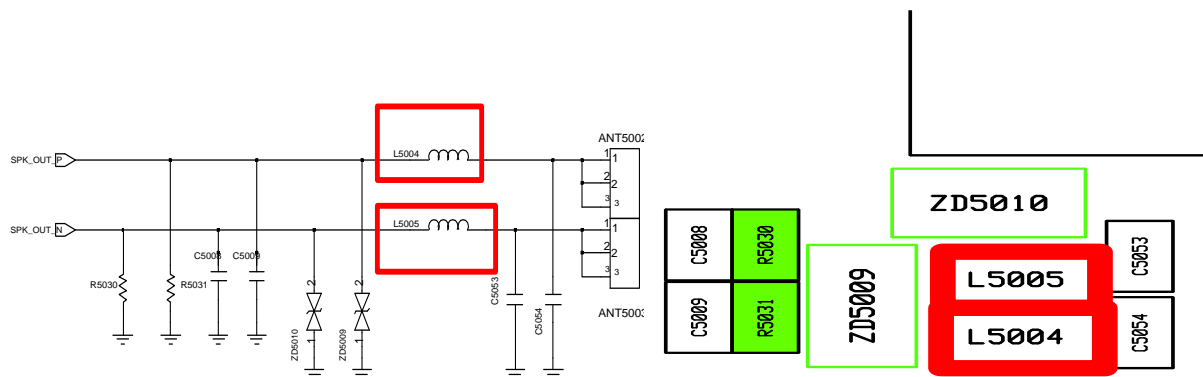
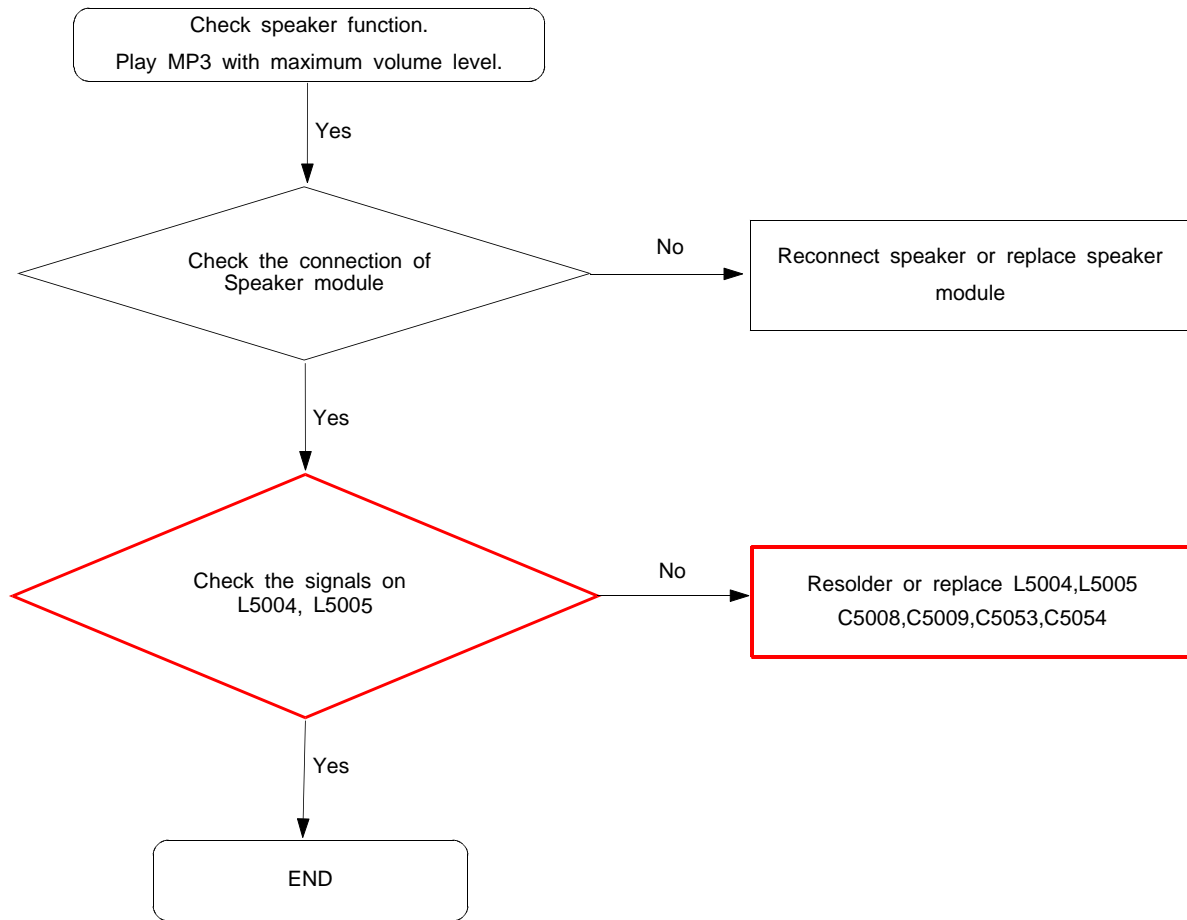
- First of all, Please check the battery status.



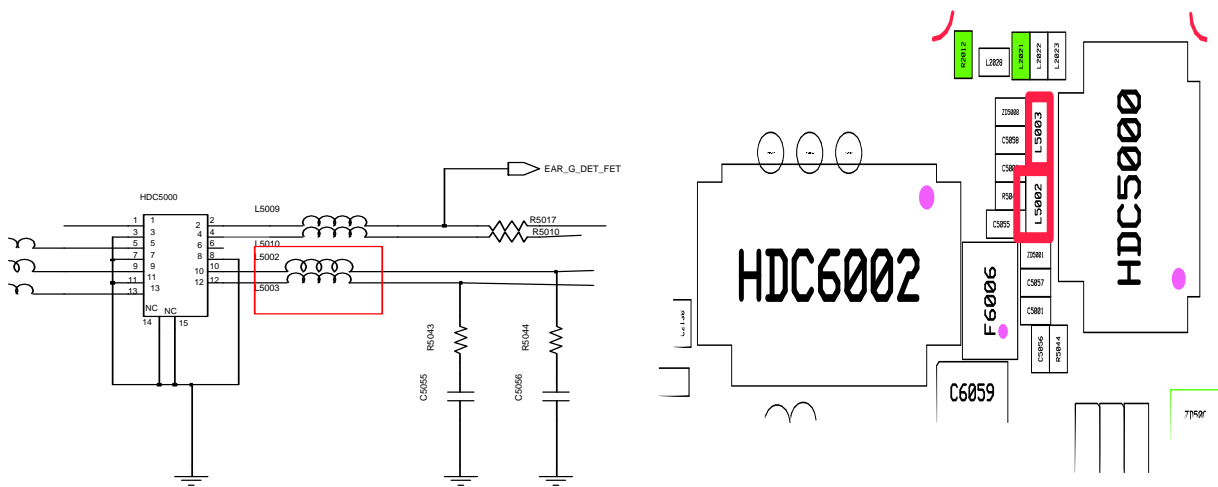
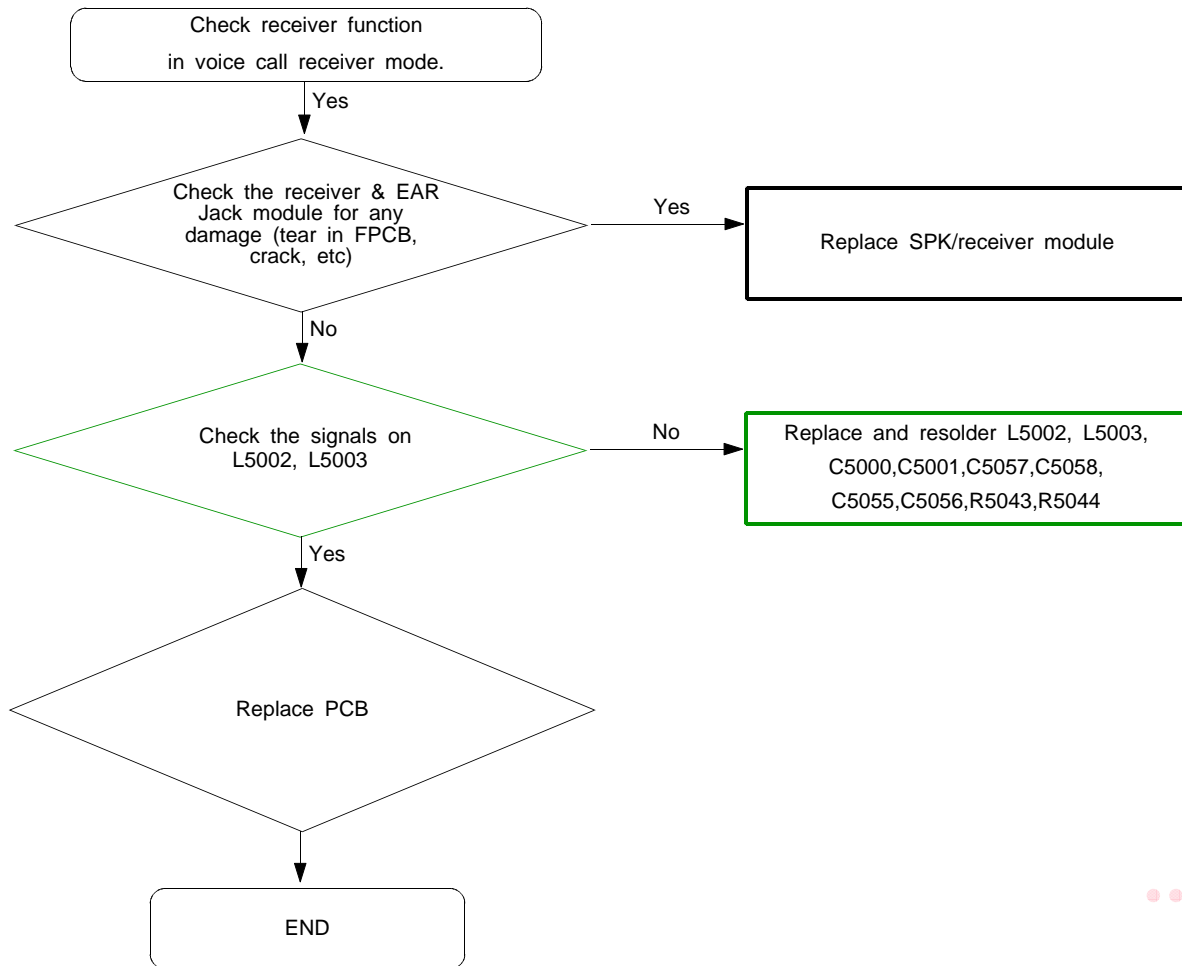
8-4-6. Microphone Part



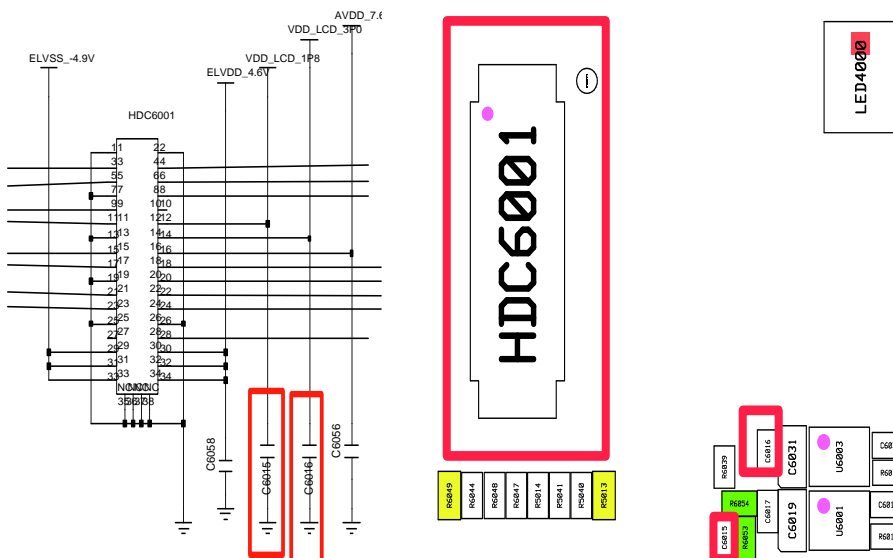
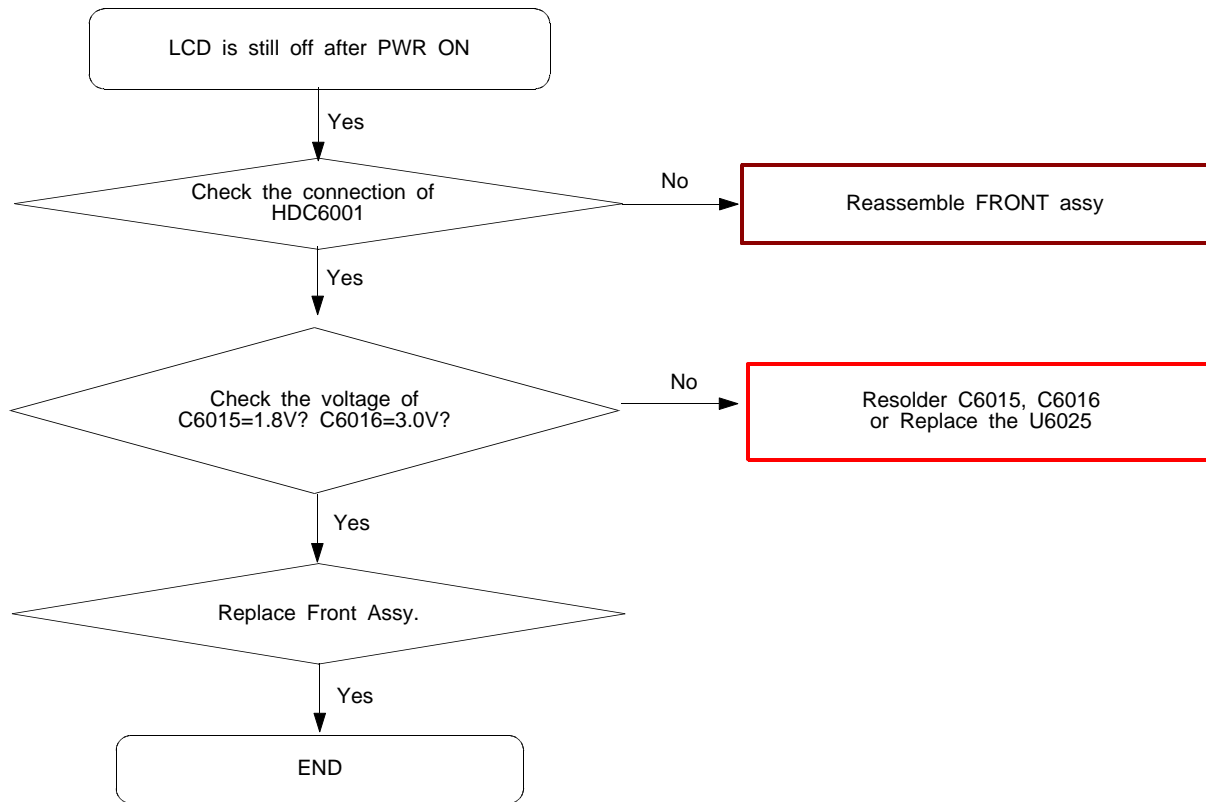
8-4-7. Speaker Part



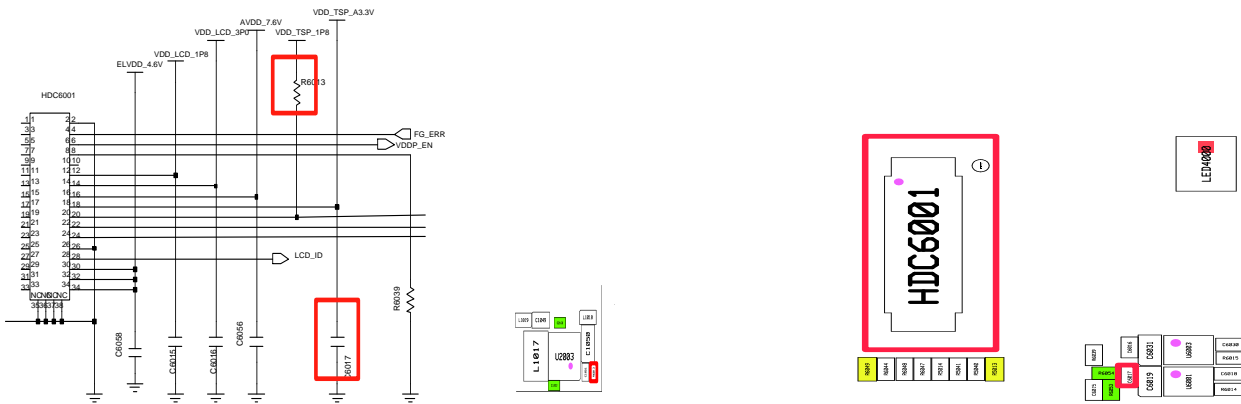
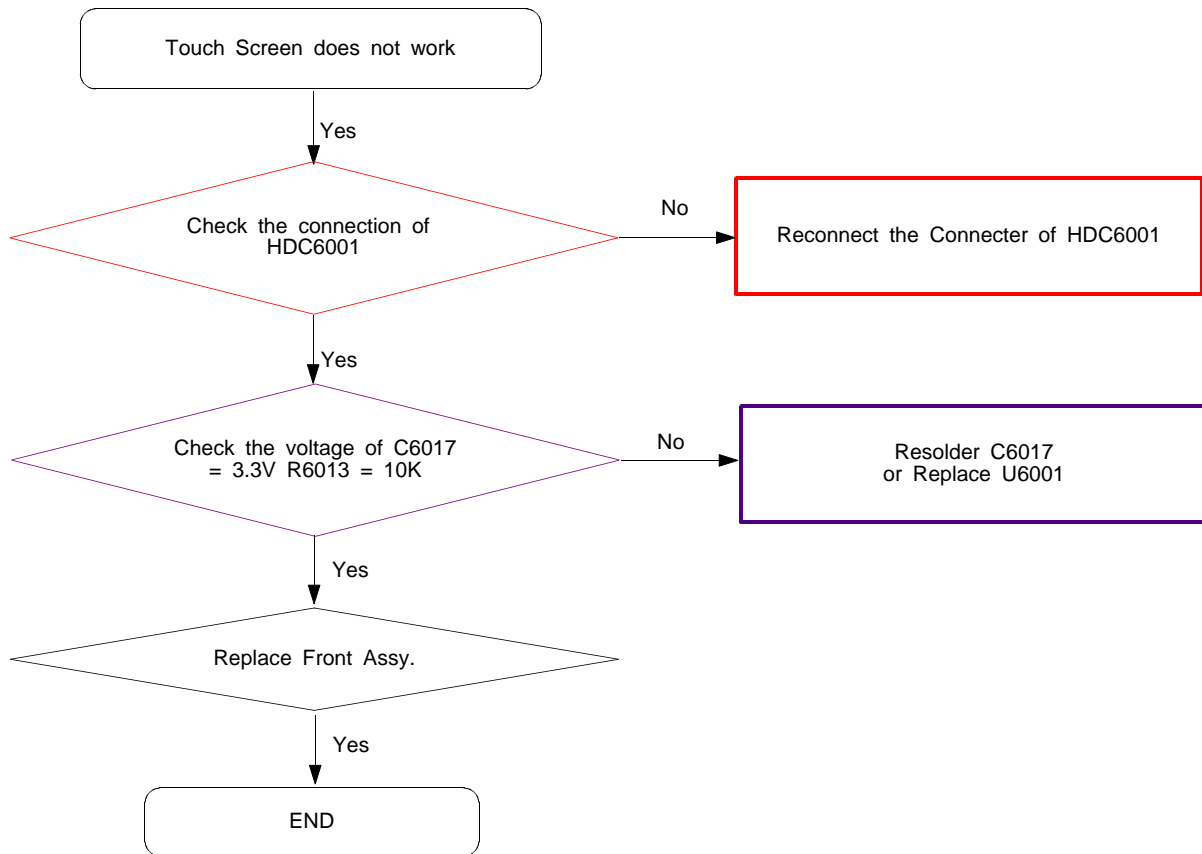
8-4-8 Receiver Part



8-4-9. LCD

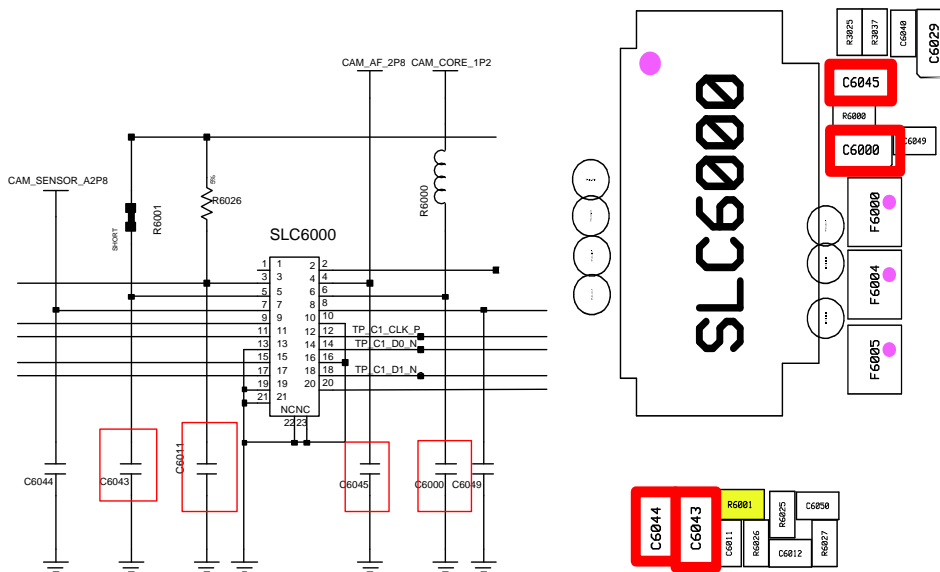


8-4-10. TSP

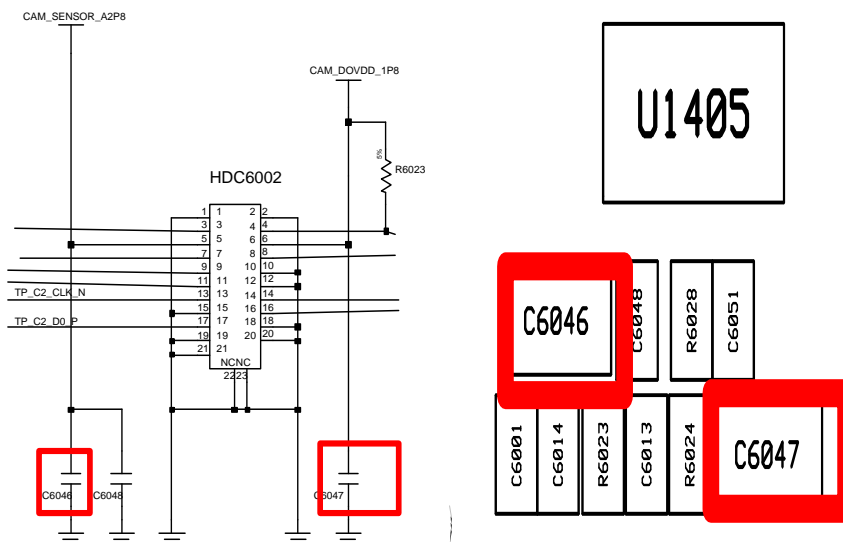
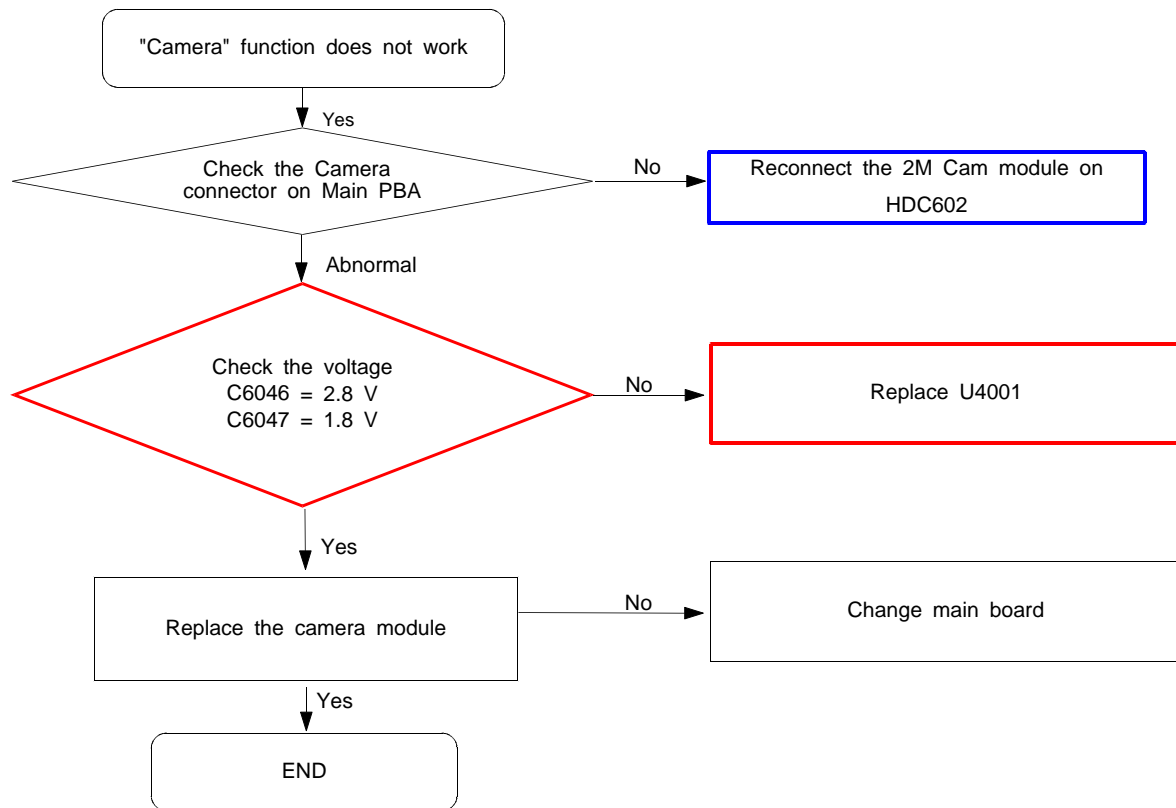


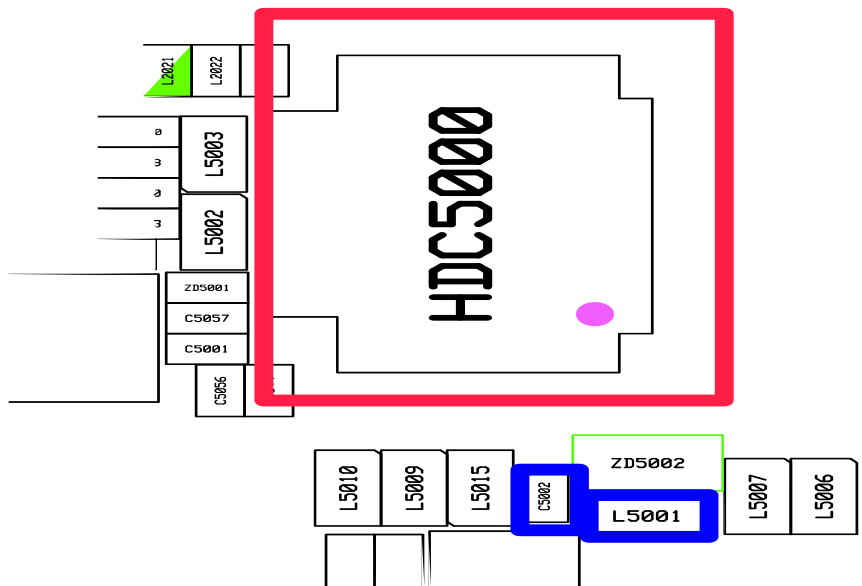
```
graph TD; A["\"Camera\" function does not work"] --> B{Check the Camera connector on Main PBA}; B -- Yes --> C[Reconnect the 5M Cam module on SLC6000]; B -- Abnormal --> D{Check the voltage<br/>C6043 = 1.8 V<br/>C6044 = 2.8V<br/>C6045 = 2.8V<br/>C6000 = 1.2 V}; D -- No --> E[Replace U4002, U4001]; D -- Yes --> F[Replace the camera module]; F -- No --> G[Change main board]; F -- Yes --> H[END];
```

The flowchart outlines the troubleshooting steps for a camera function failure. It begins with a start node, followed by a decision diamond: "Check the Camera connector on Main PBA". If the answer is "Yes", the action is "Reconnect the 5M Cam module on SLC6000". If the answer is "Abnormal", the next decision diamond is "Check the voltage" with specified values: C6043 = 1.8 V, C6044 = 2.8V, C6045 = 2.8V, and C6000 = 1.2 V. If the voltage check is "No", the action is "Replace U4002, U4001". If the voltage check is "Yes", the action is "Replace the camera module". If replacing the camera module results in a "No", the final action is "Change main board". If the result is "Yes", the process ends at the "END" node.

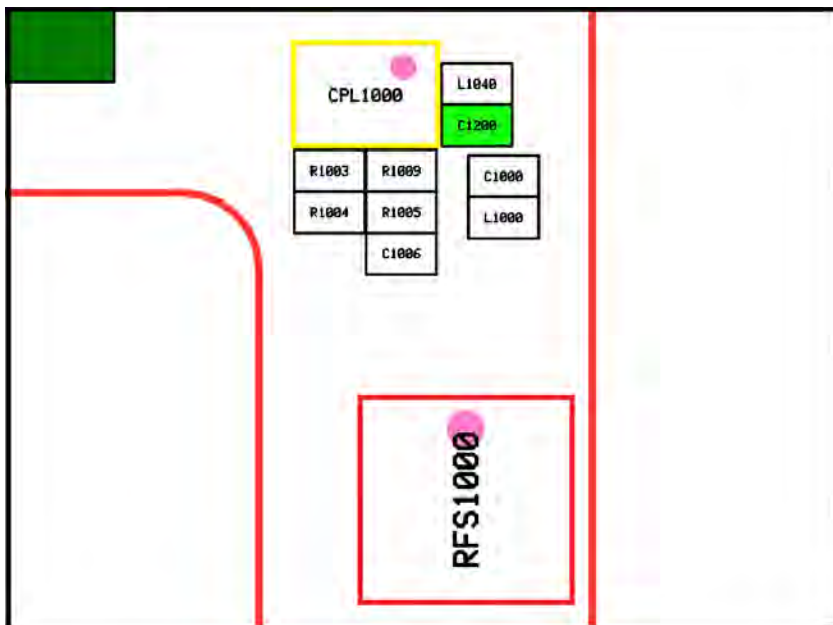
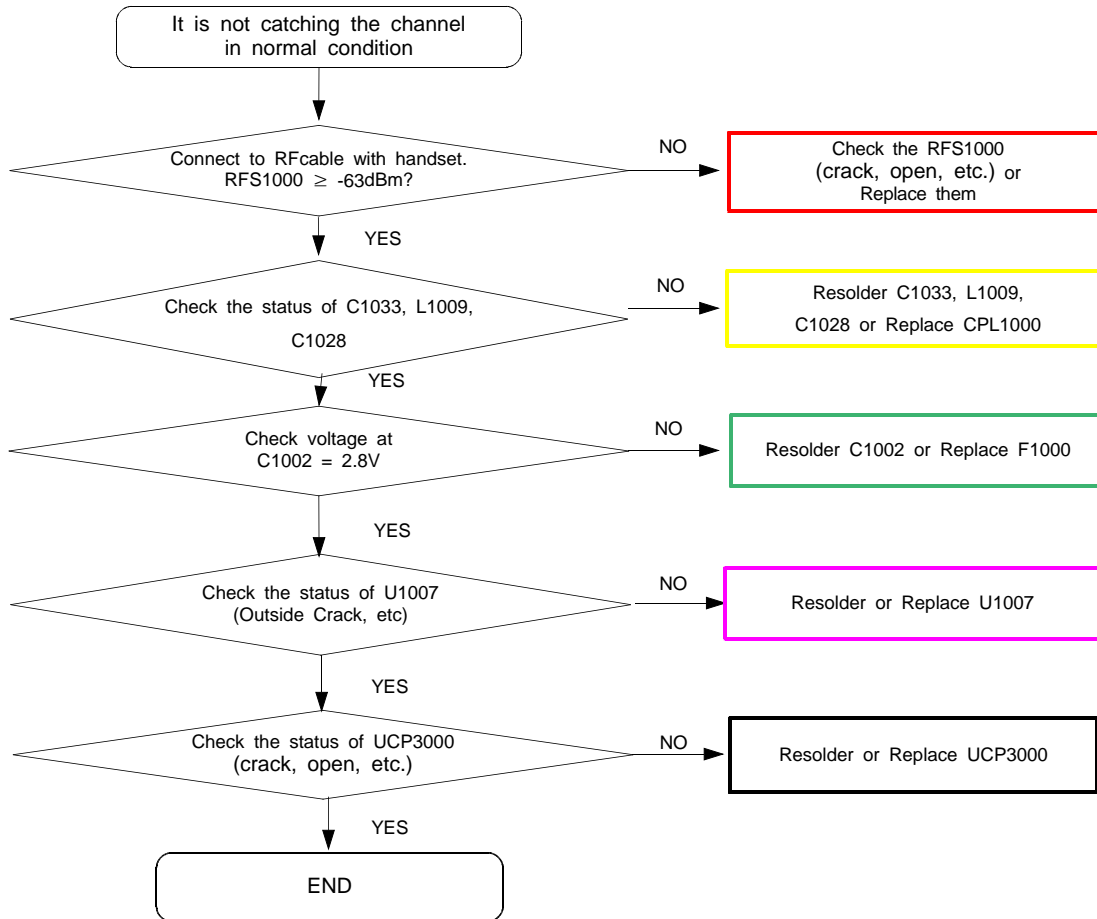


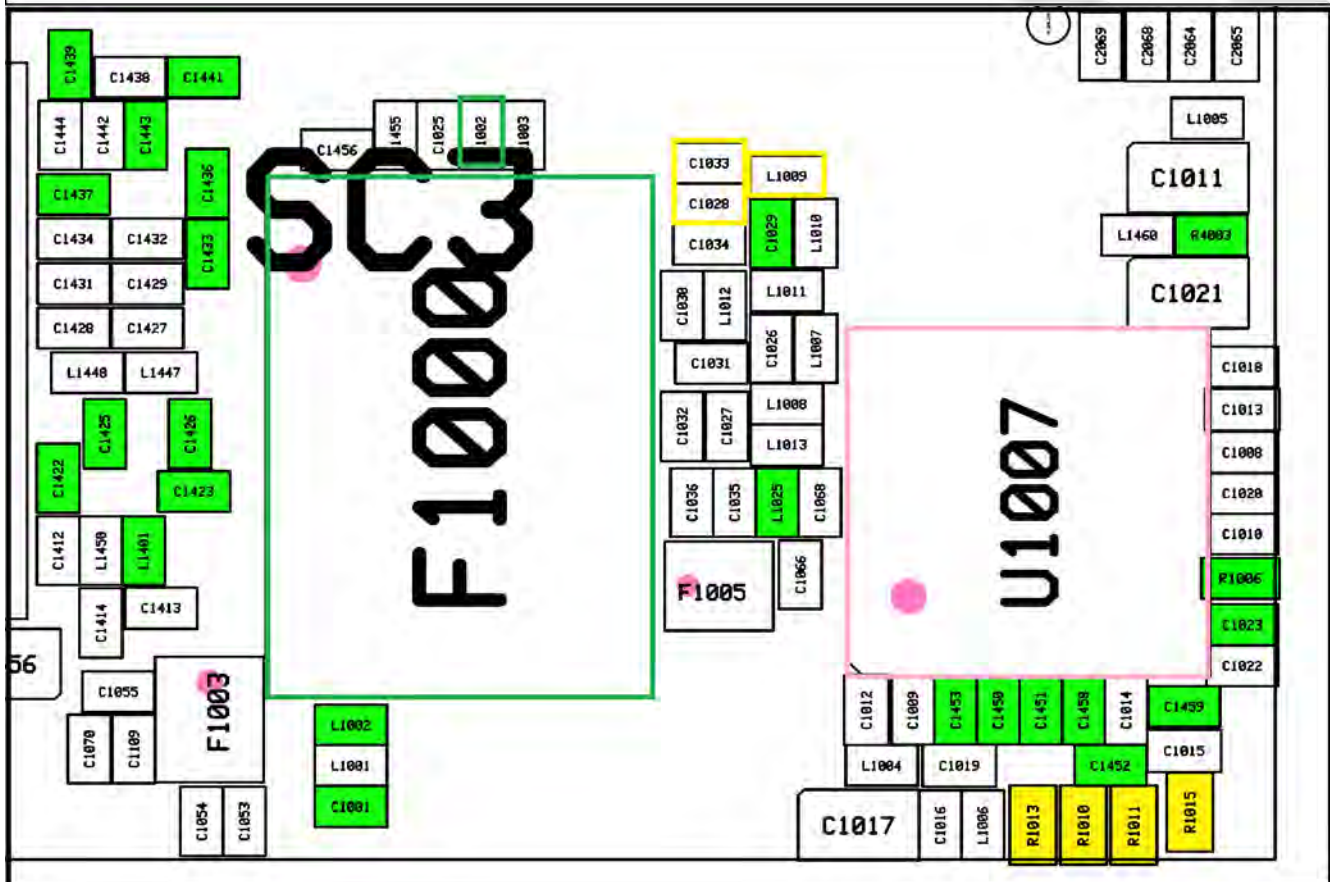
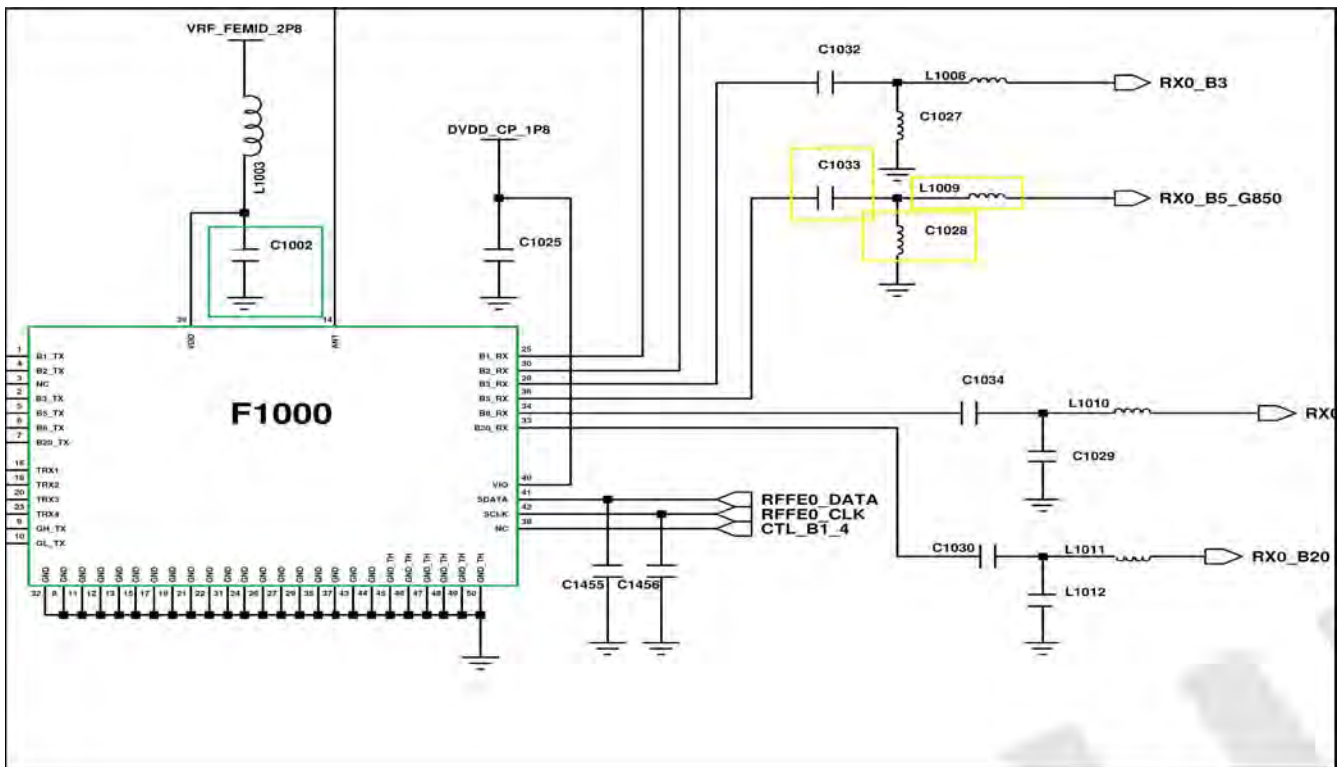
8-4-12. 2M CAM

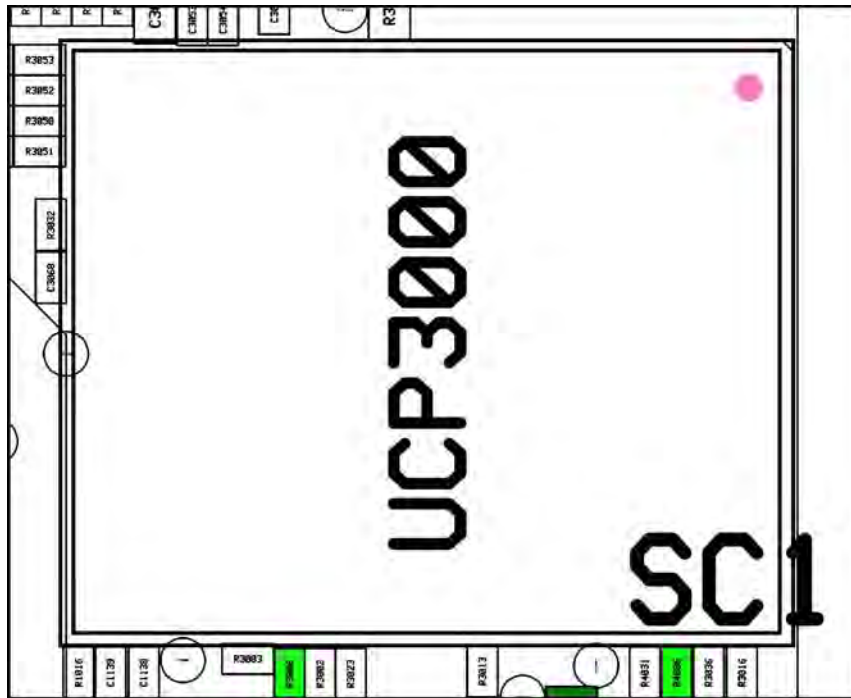




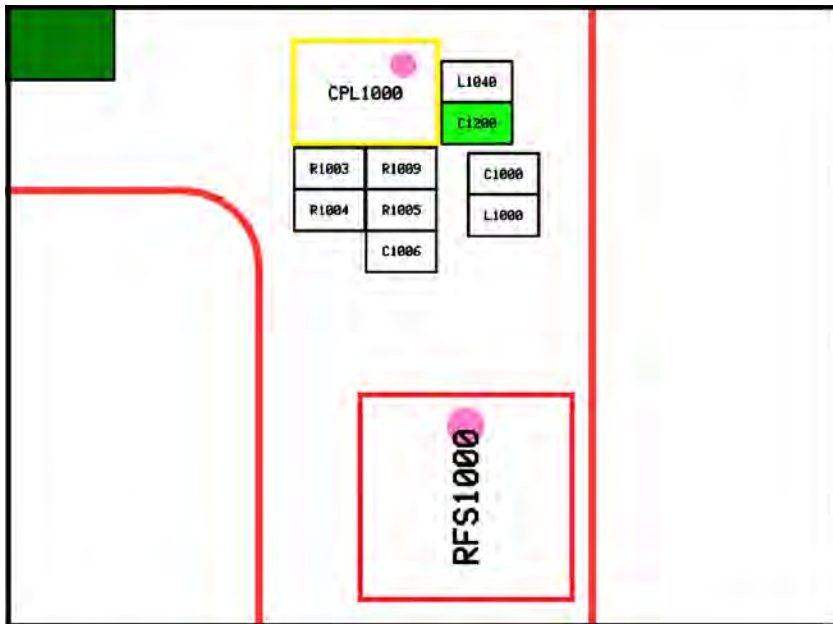
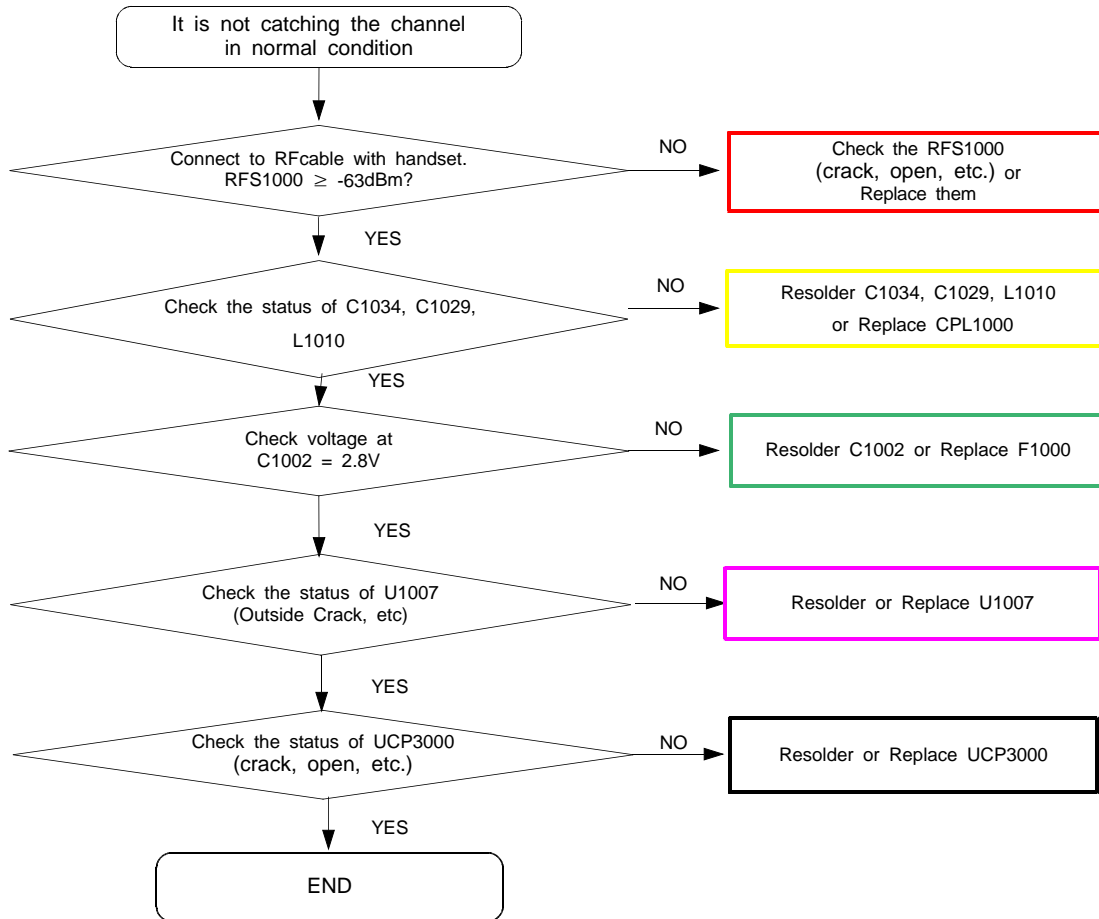
8-4-14. GSM850 / WCDMA Band5 / LTE Band5 Rx





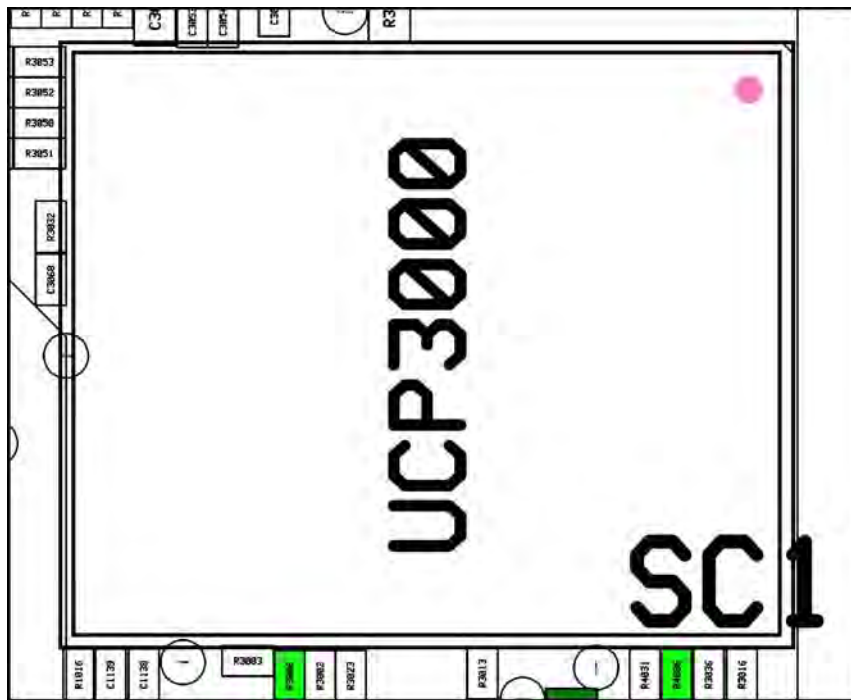
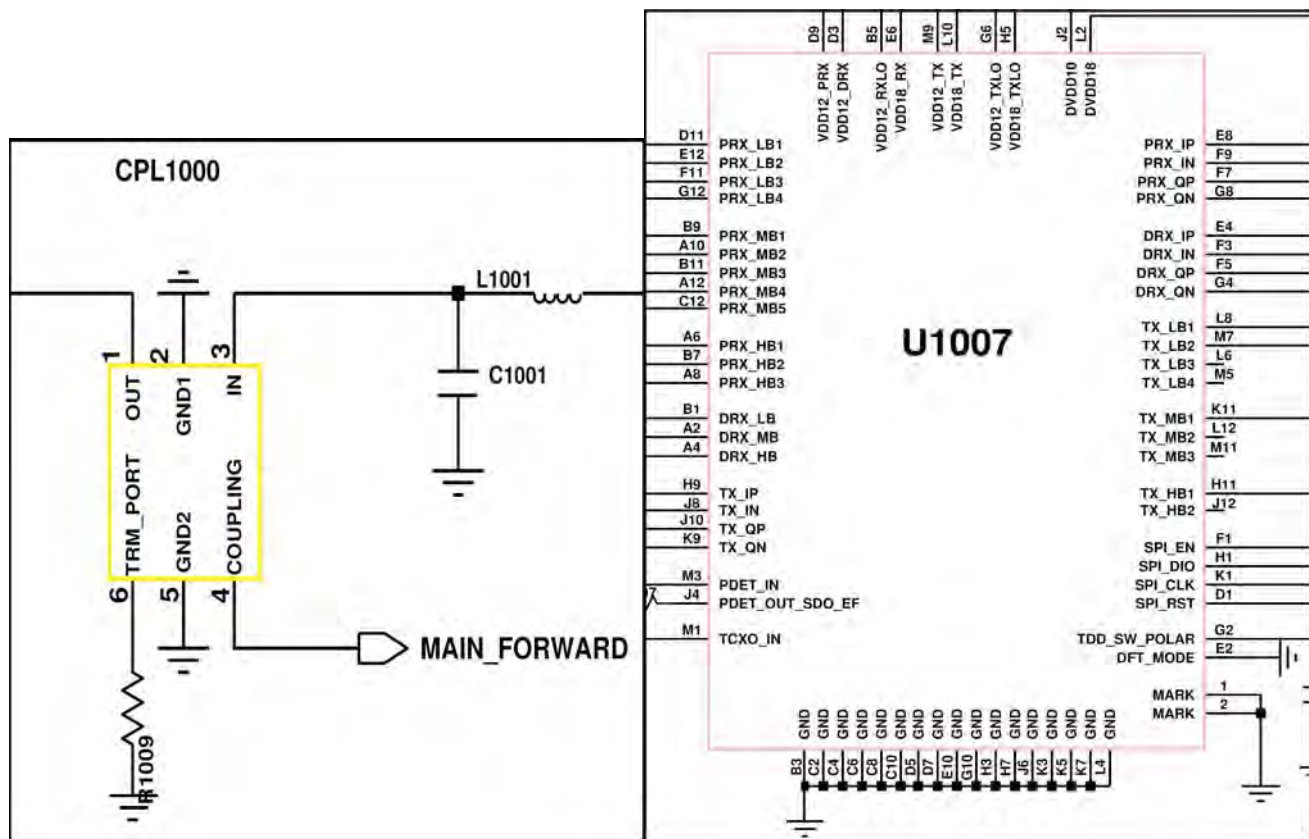


8-4-15. GSM900 / WCDMA Band 8 / LTE B8 Rx

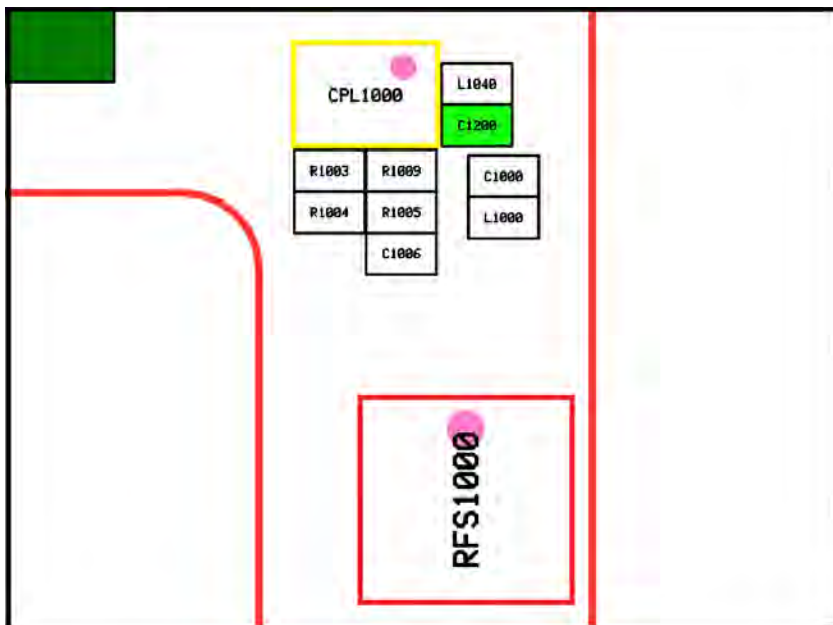
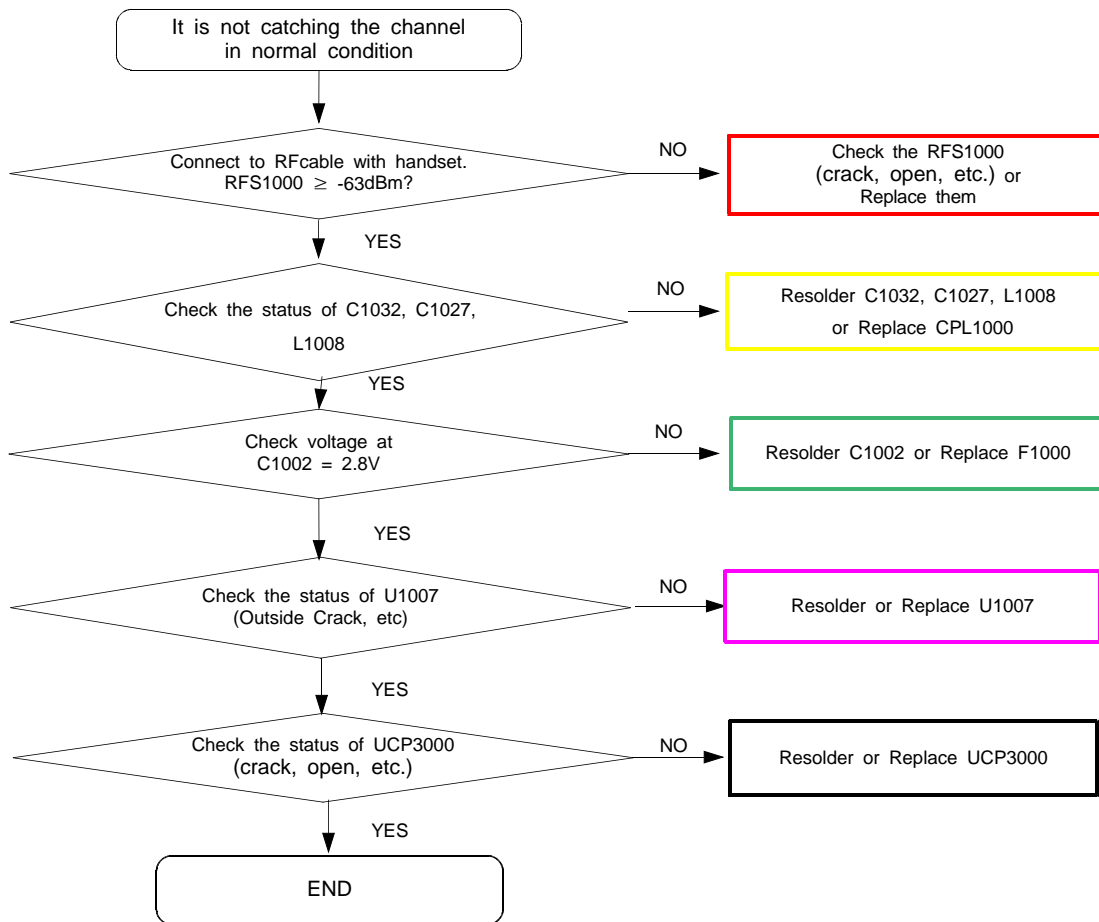


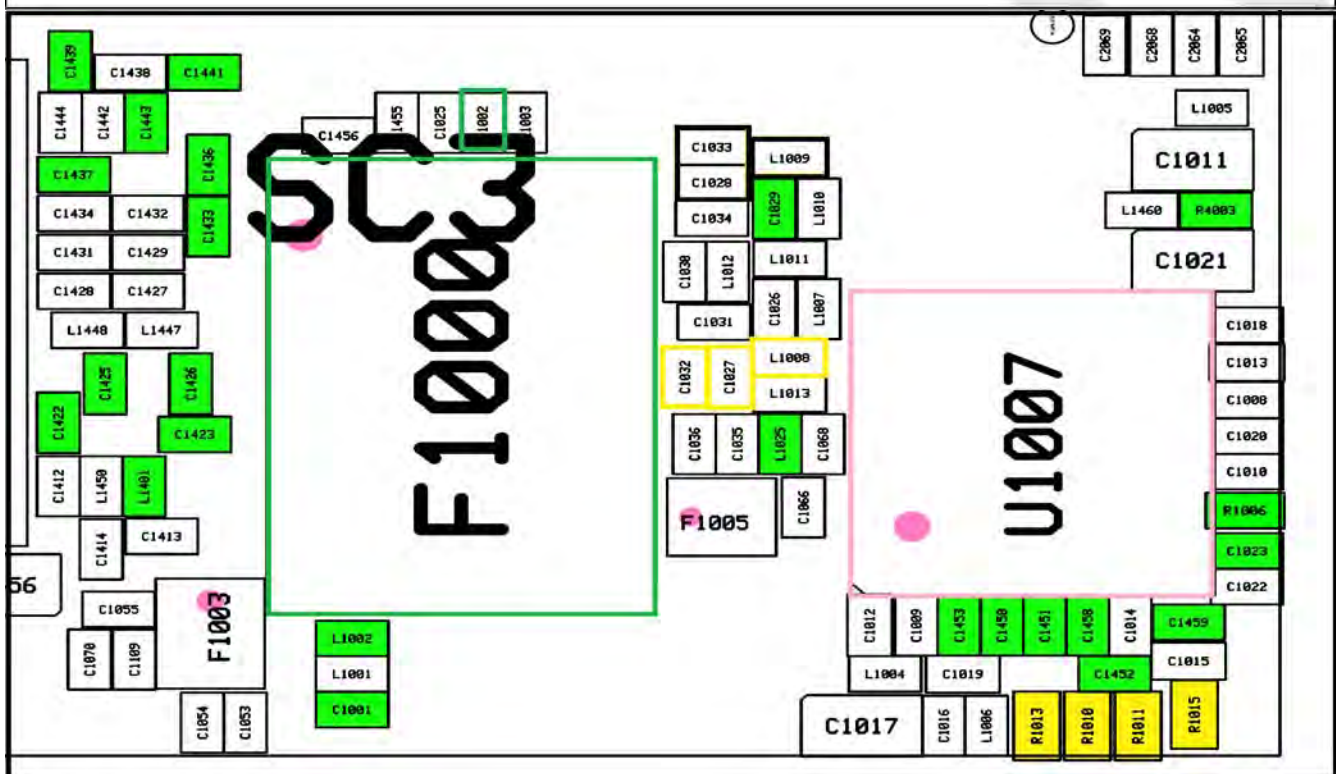
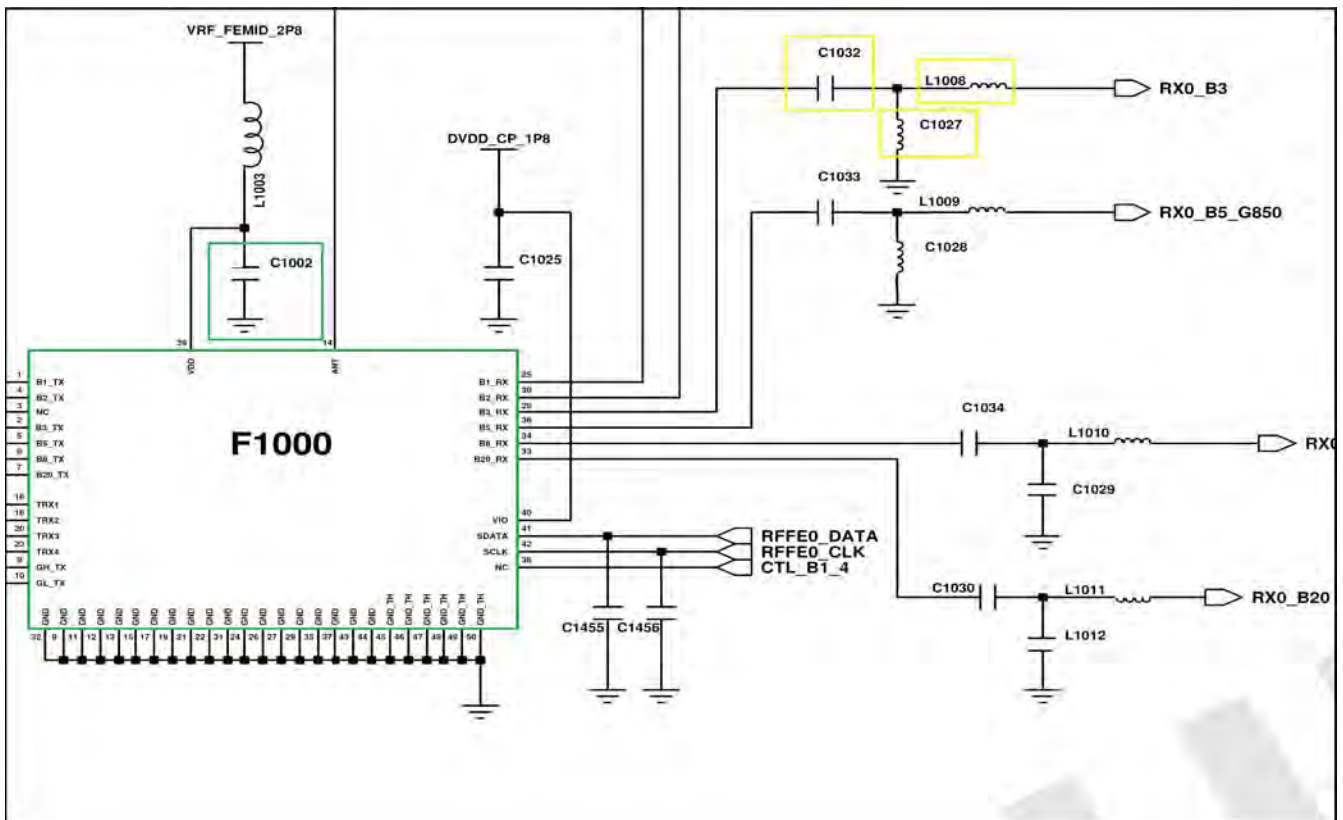


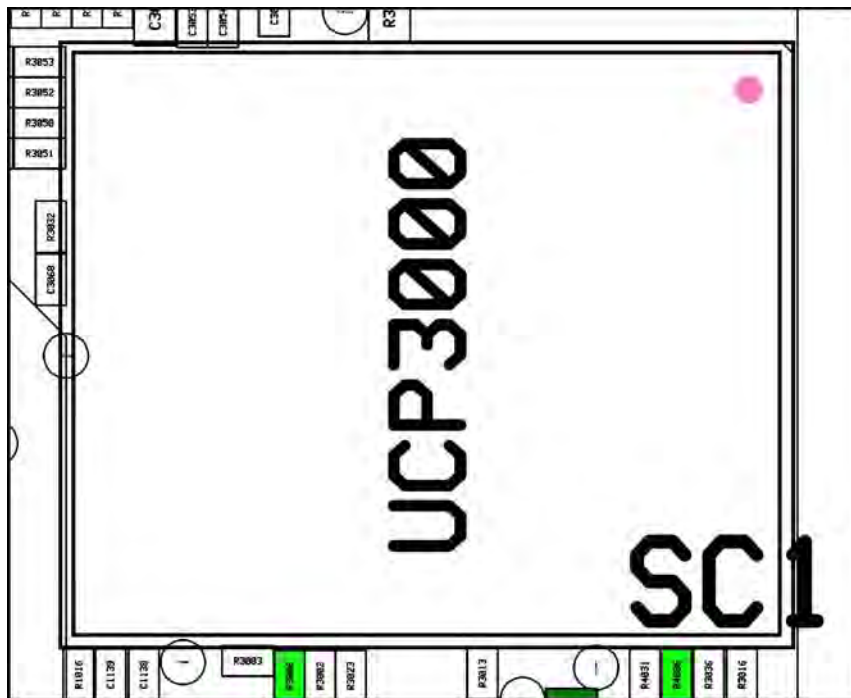
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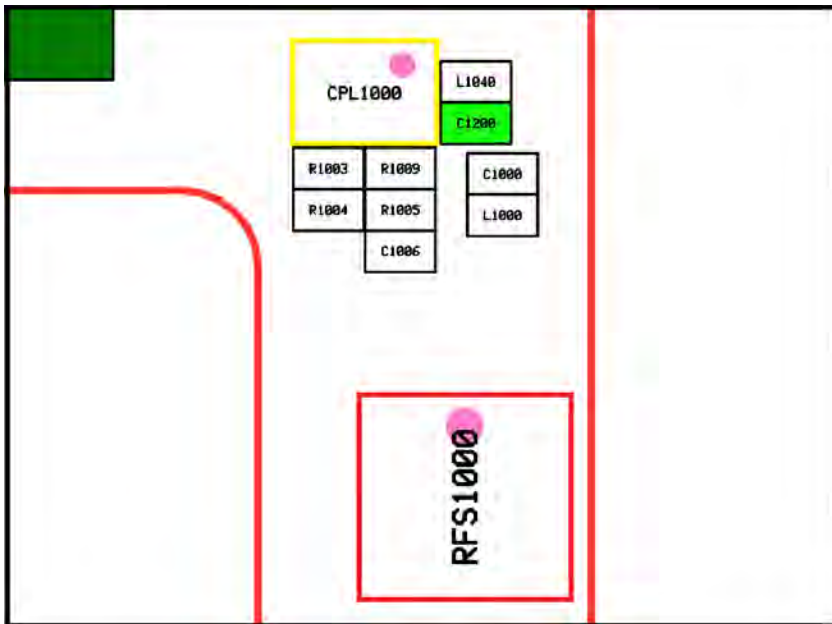
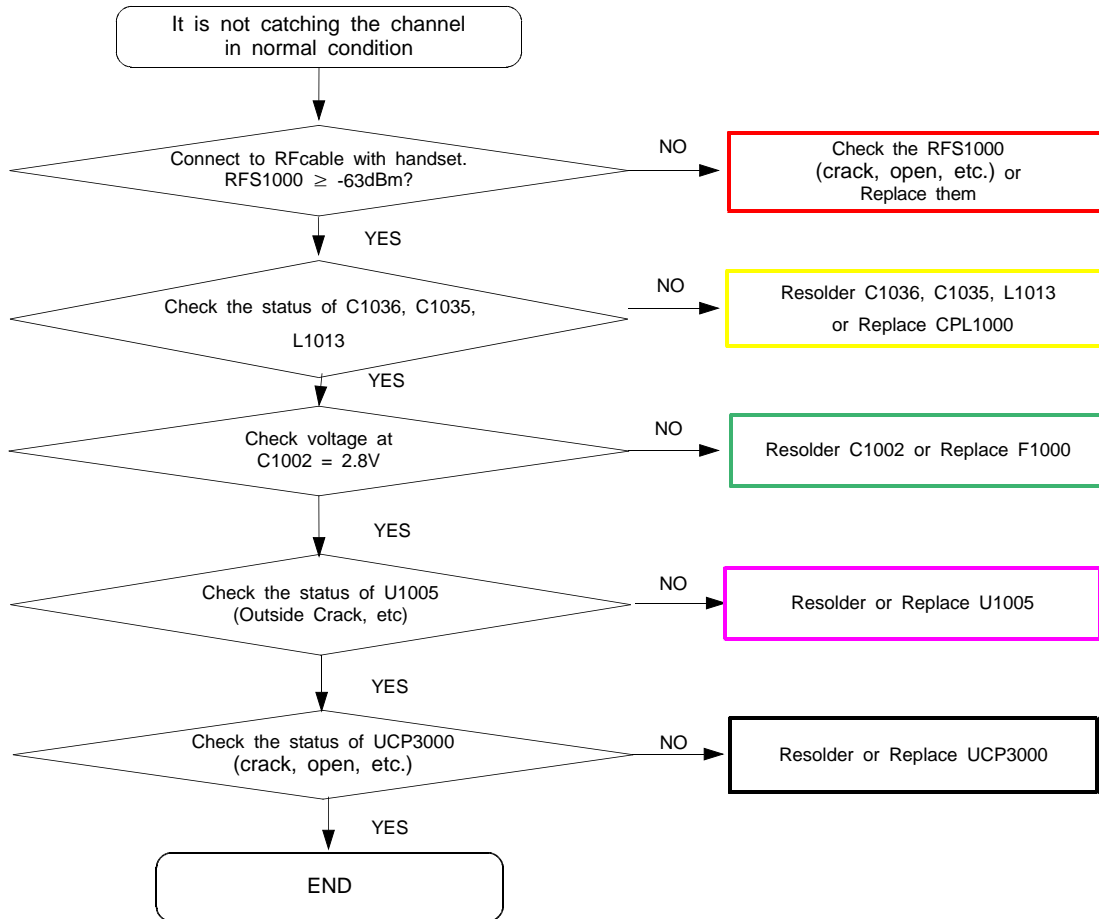
8-4-16. GSM1800 / LTE B3 Rx

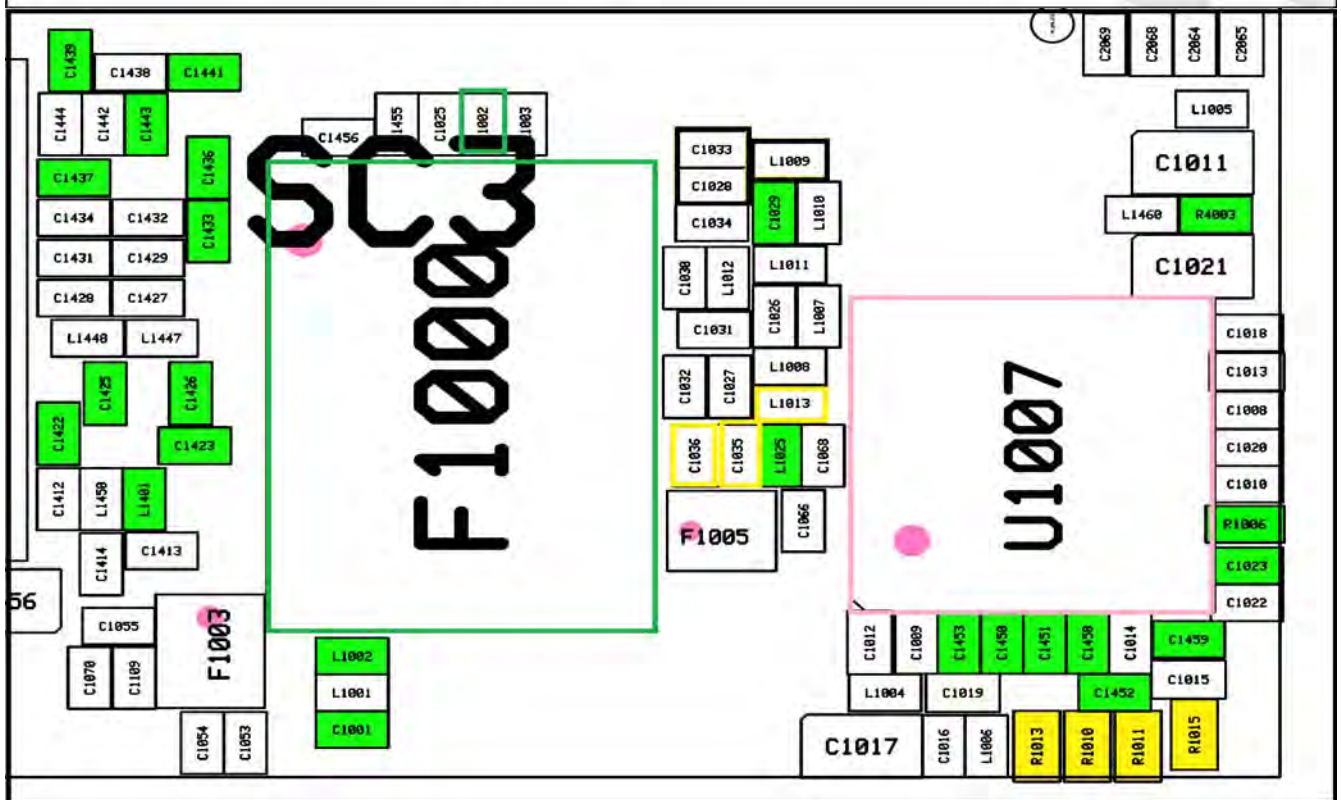


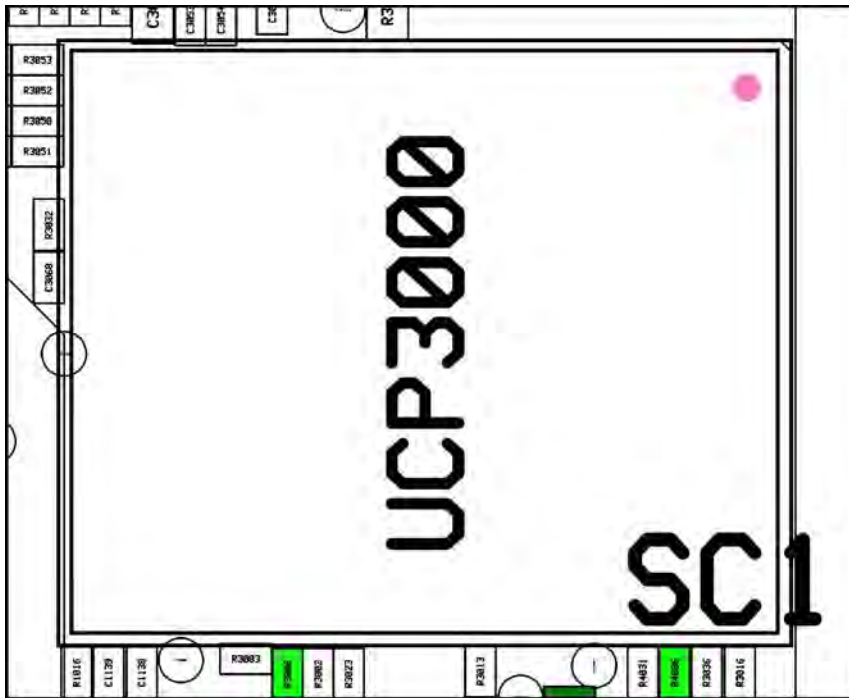
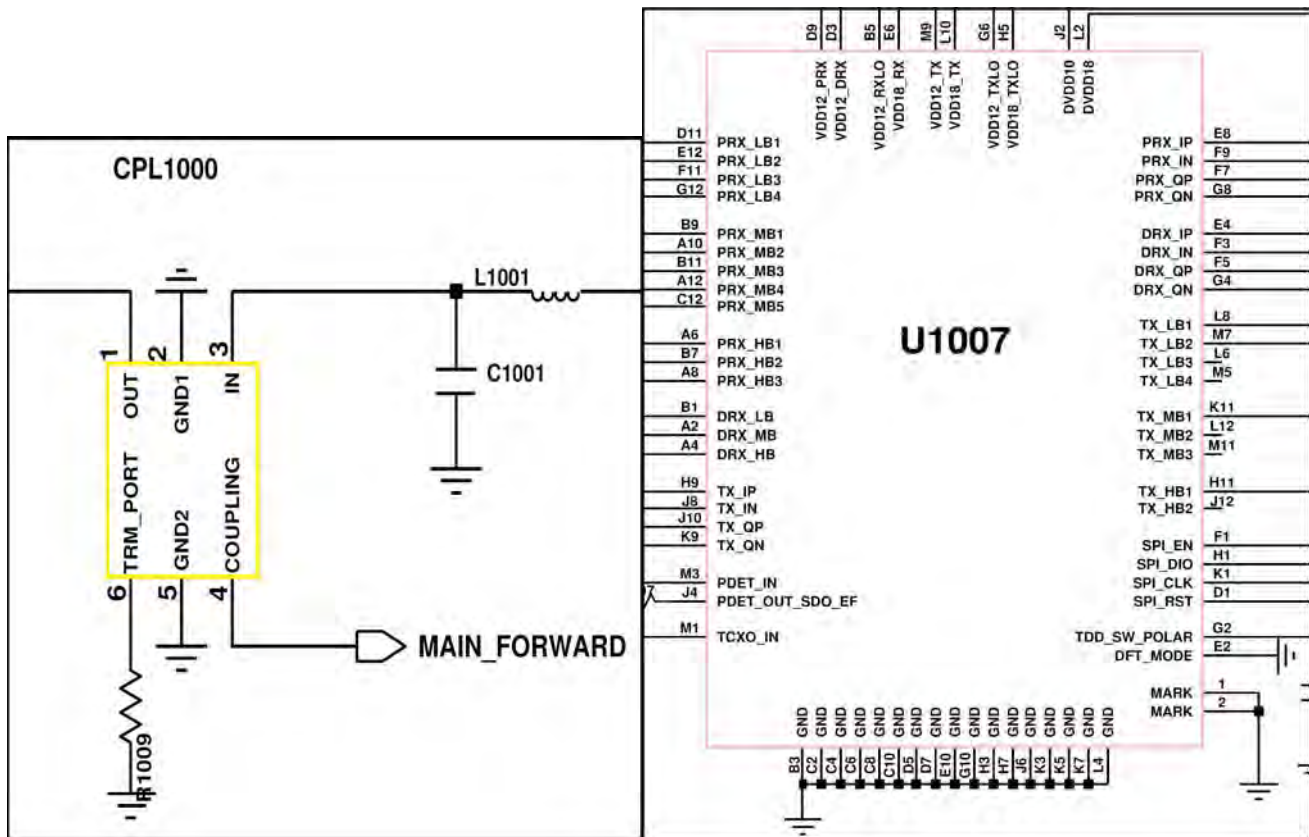




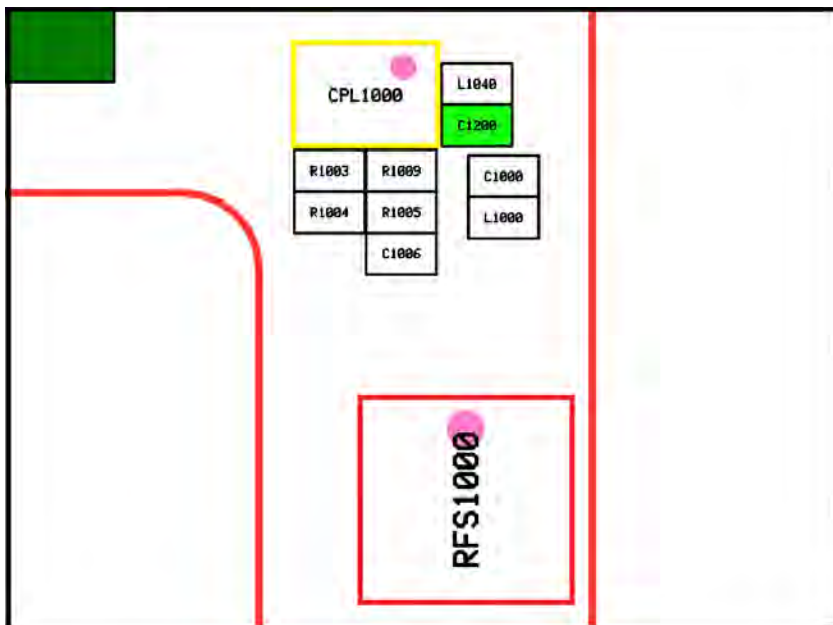
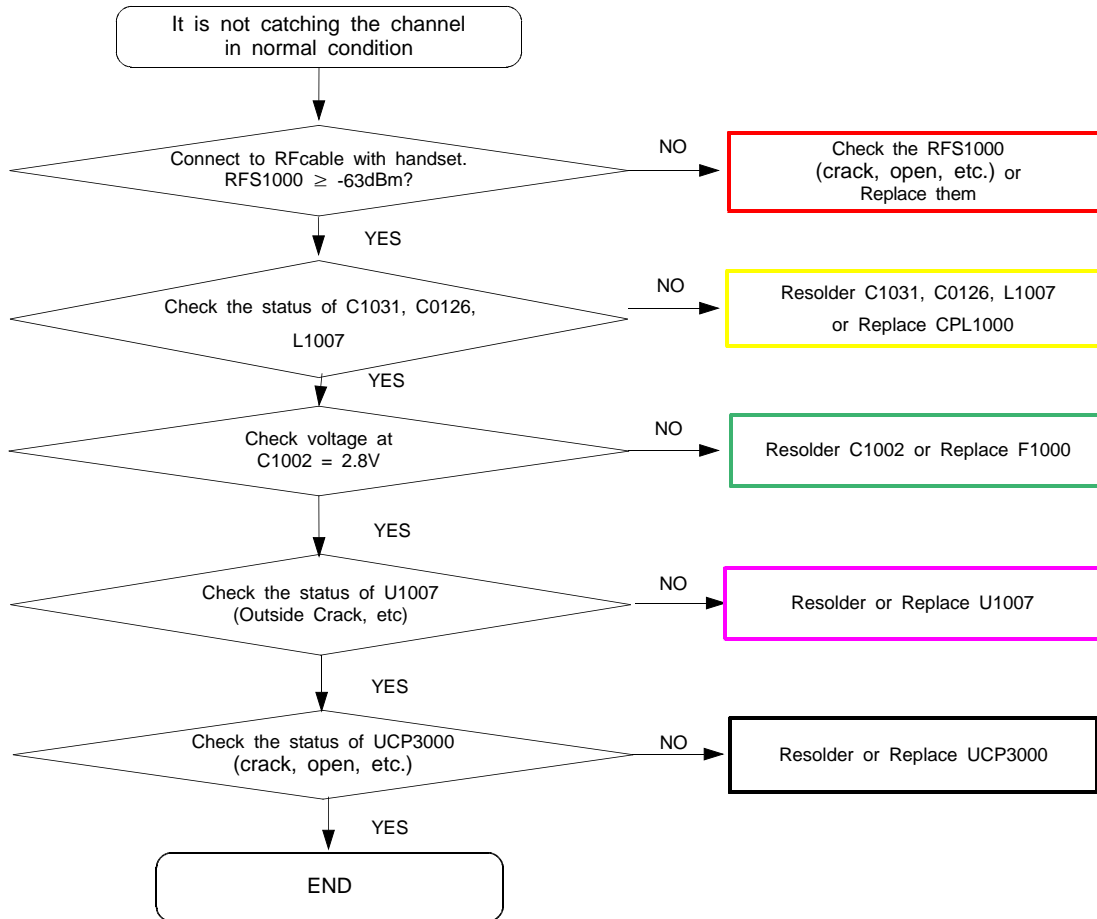
8-4-17. WCDMA Band1 / LTE Band1 Rx





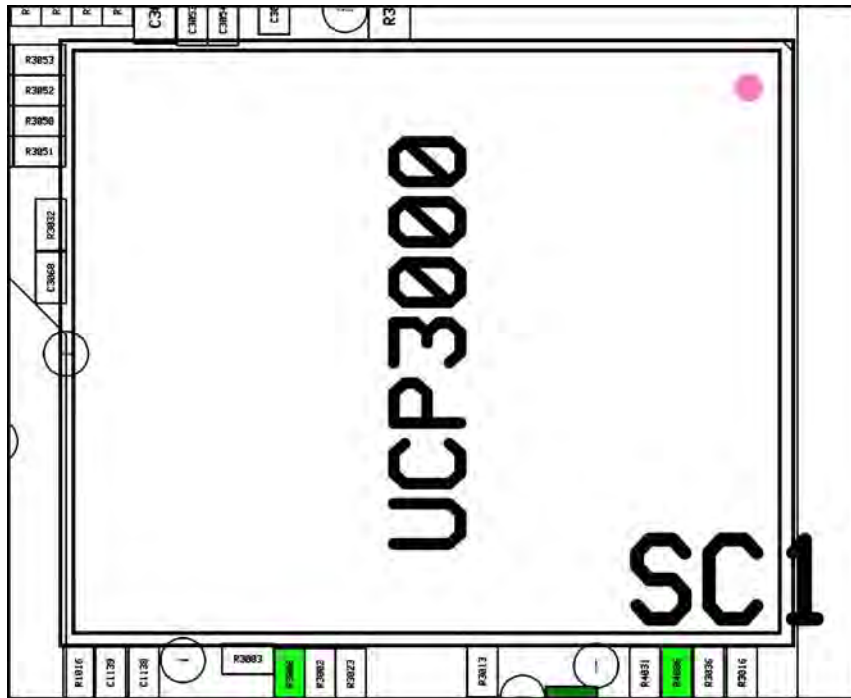


8-4-18. GSM1900 / WCDMA band1900 Rx

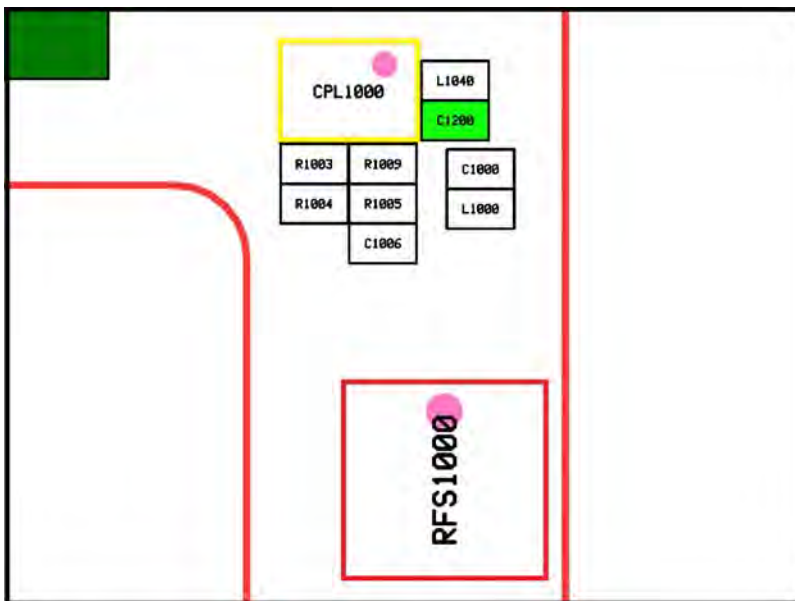
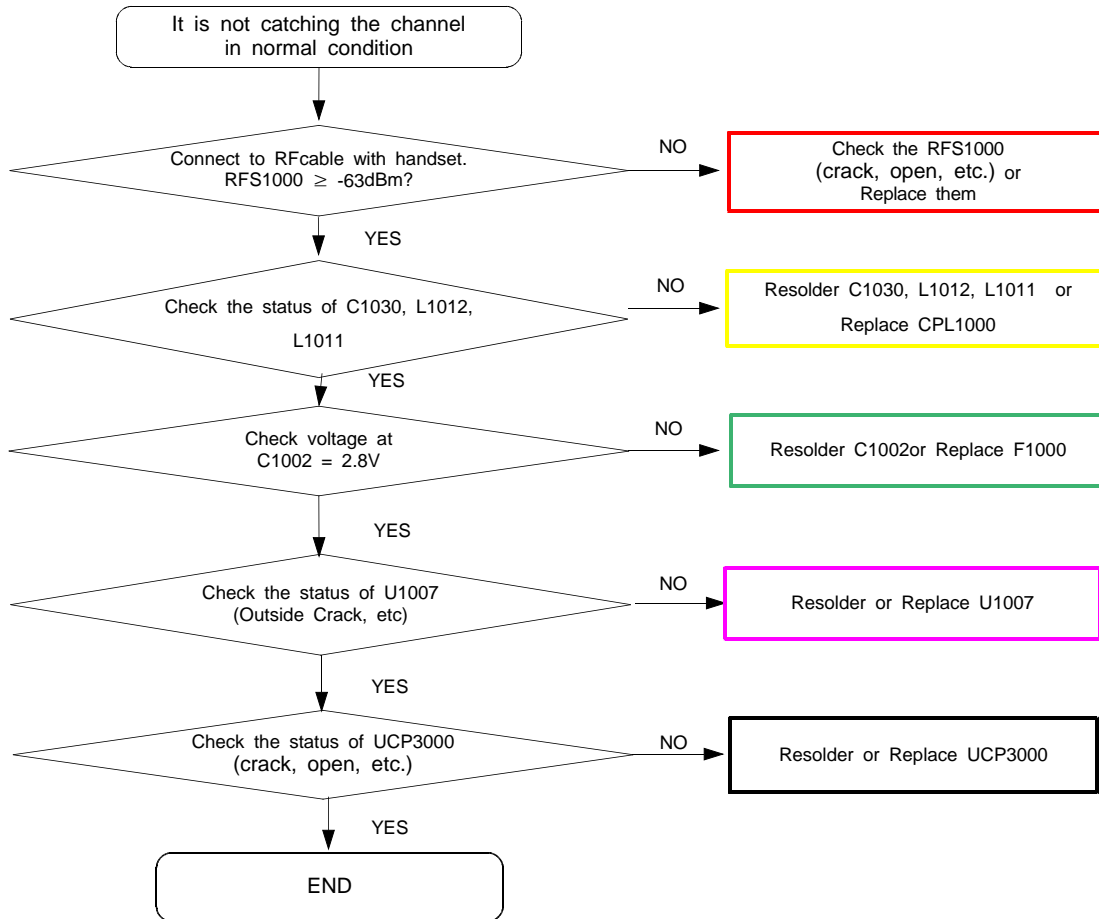




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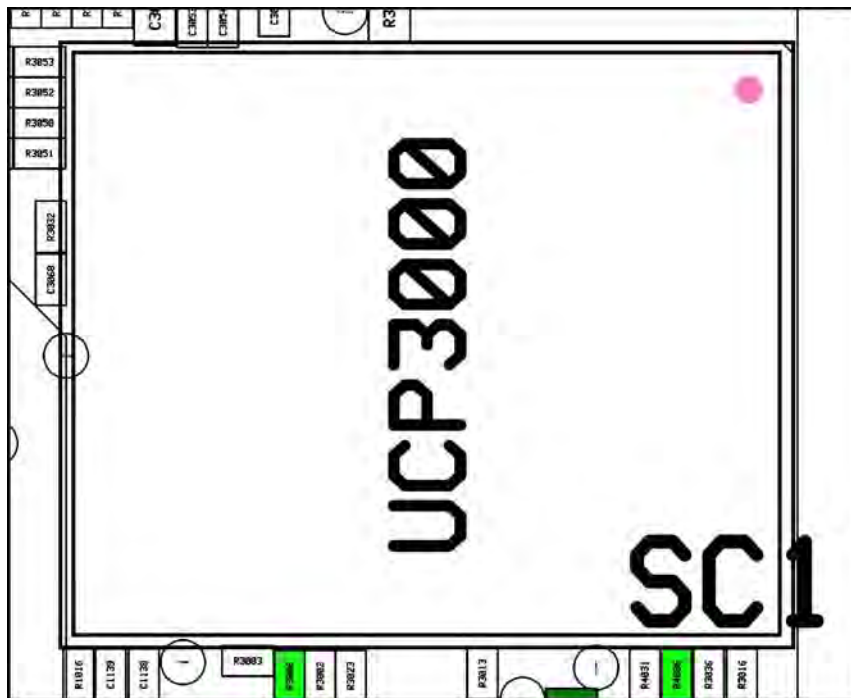


8-4-19. LTE Band20 Rx

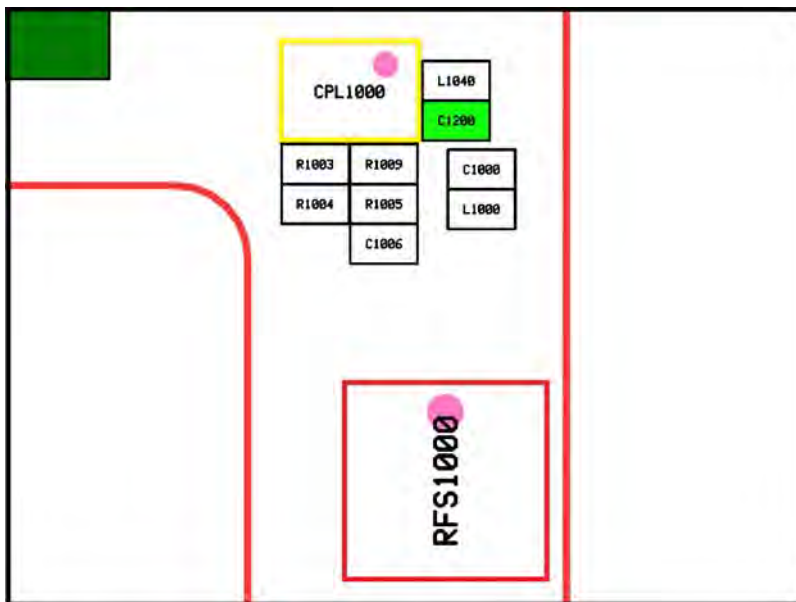
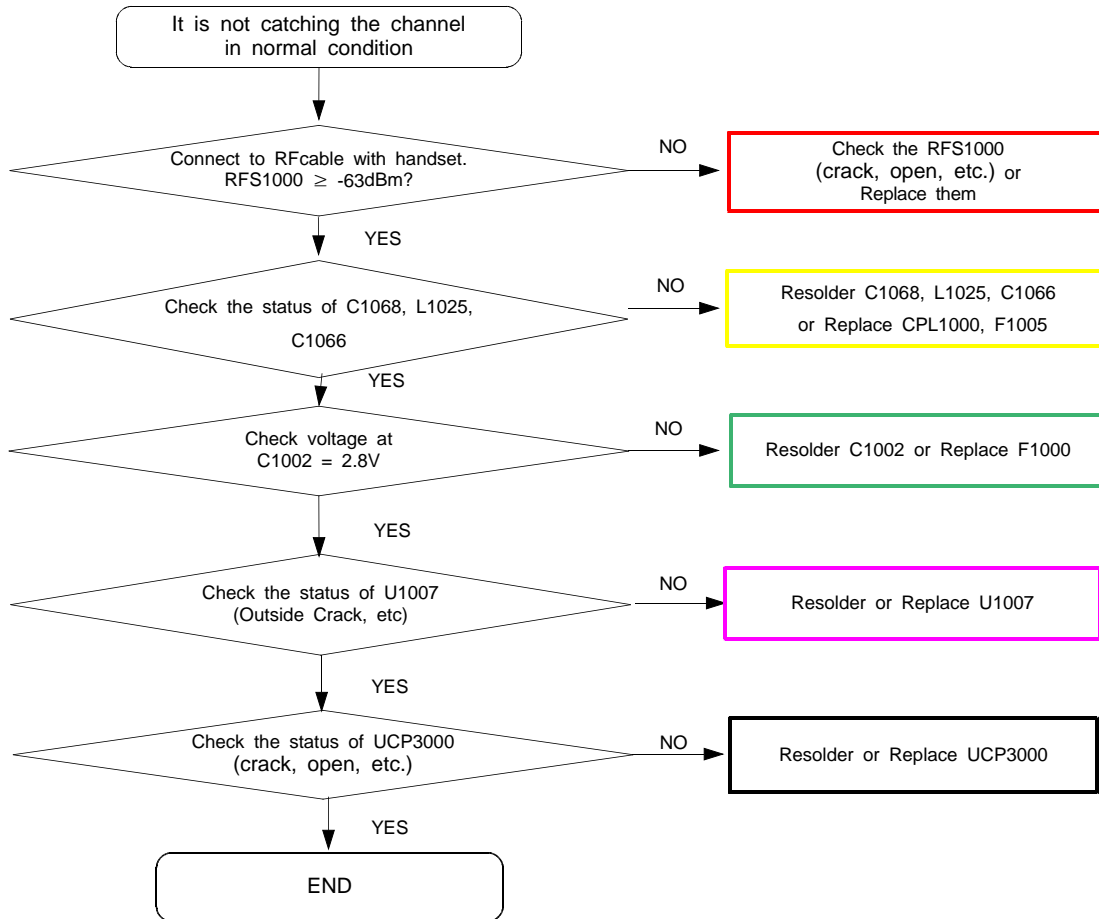


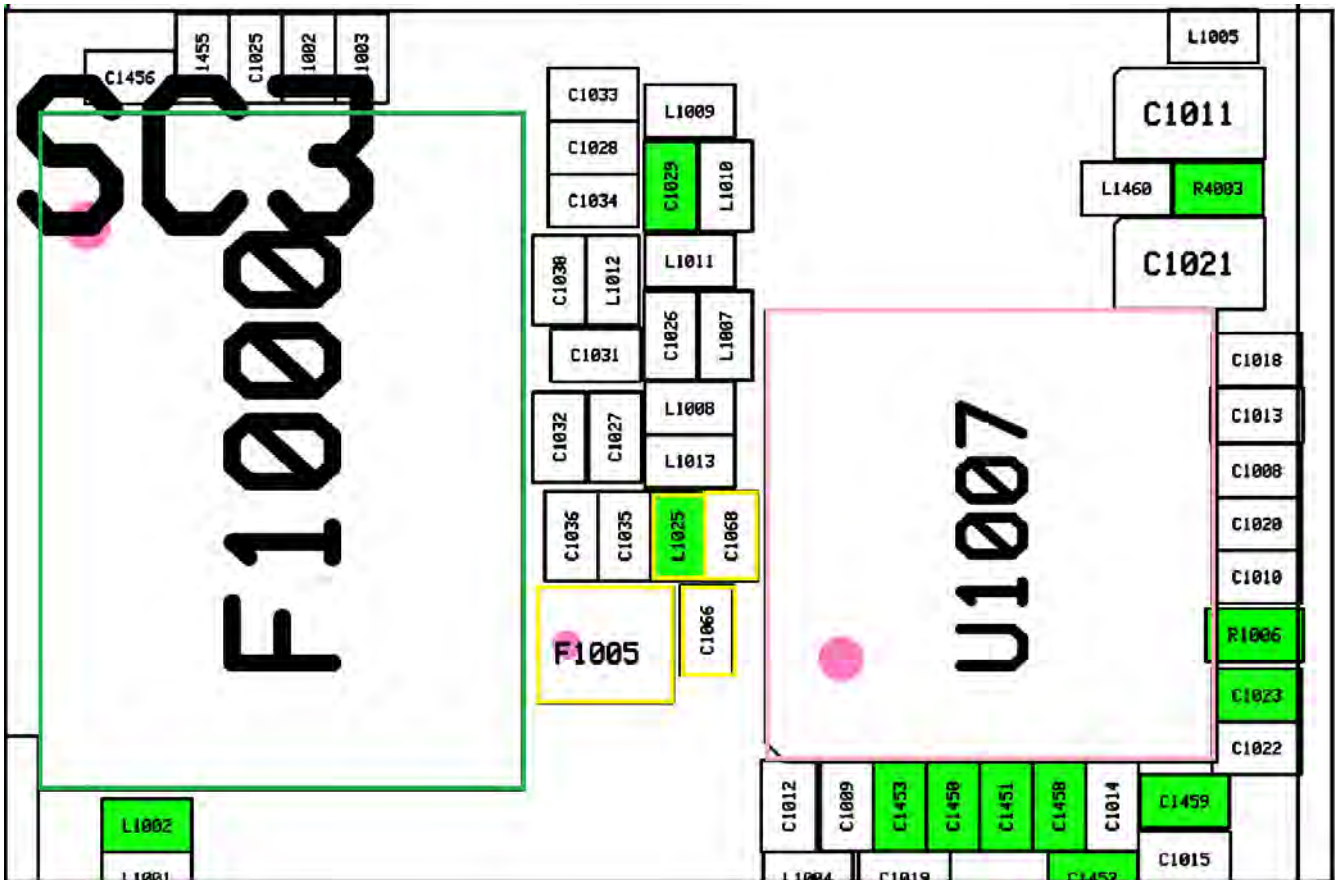


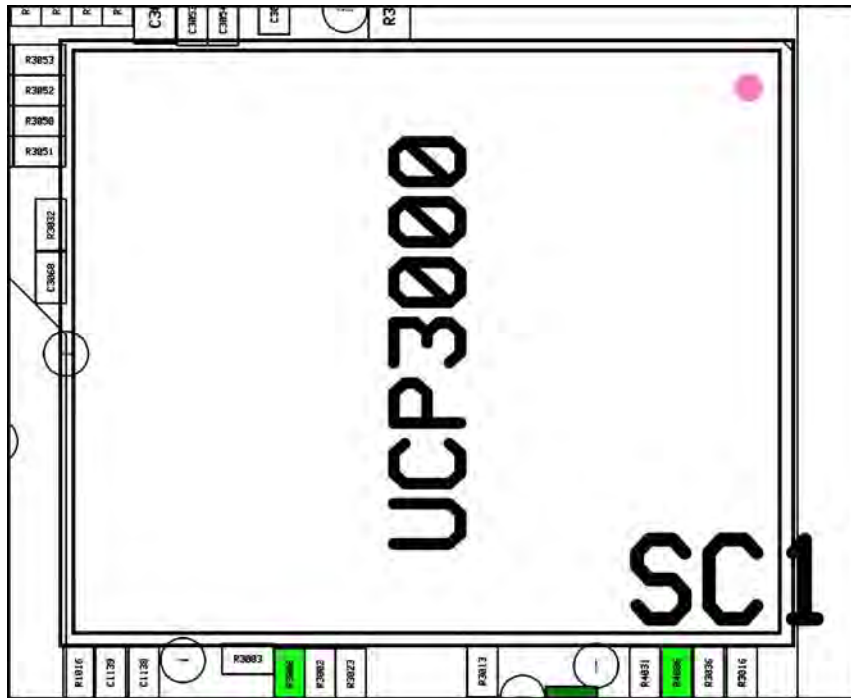
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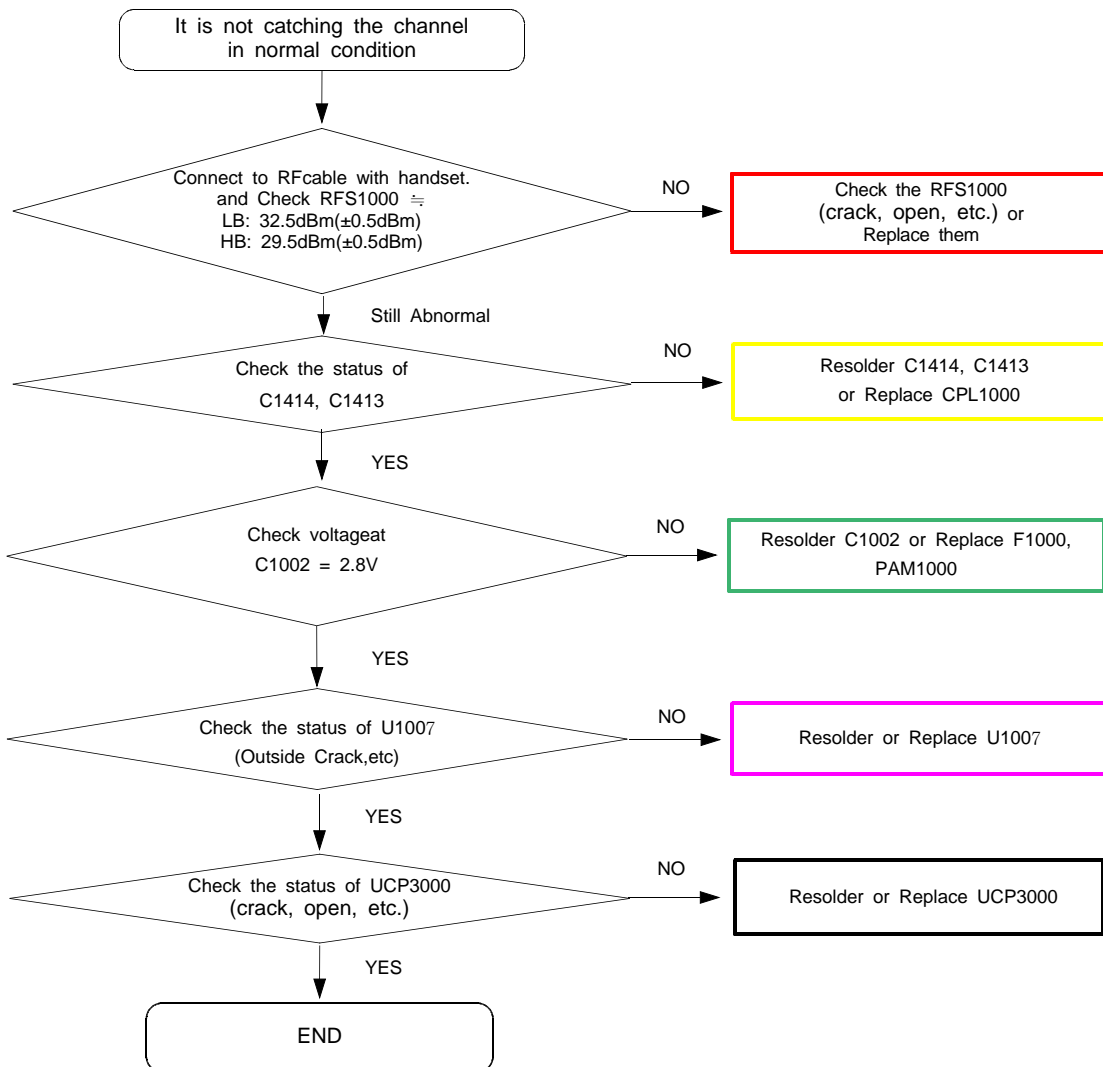
8-4-20. LTE B40 Rx

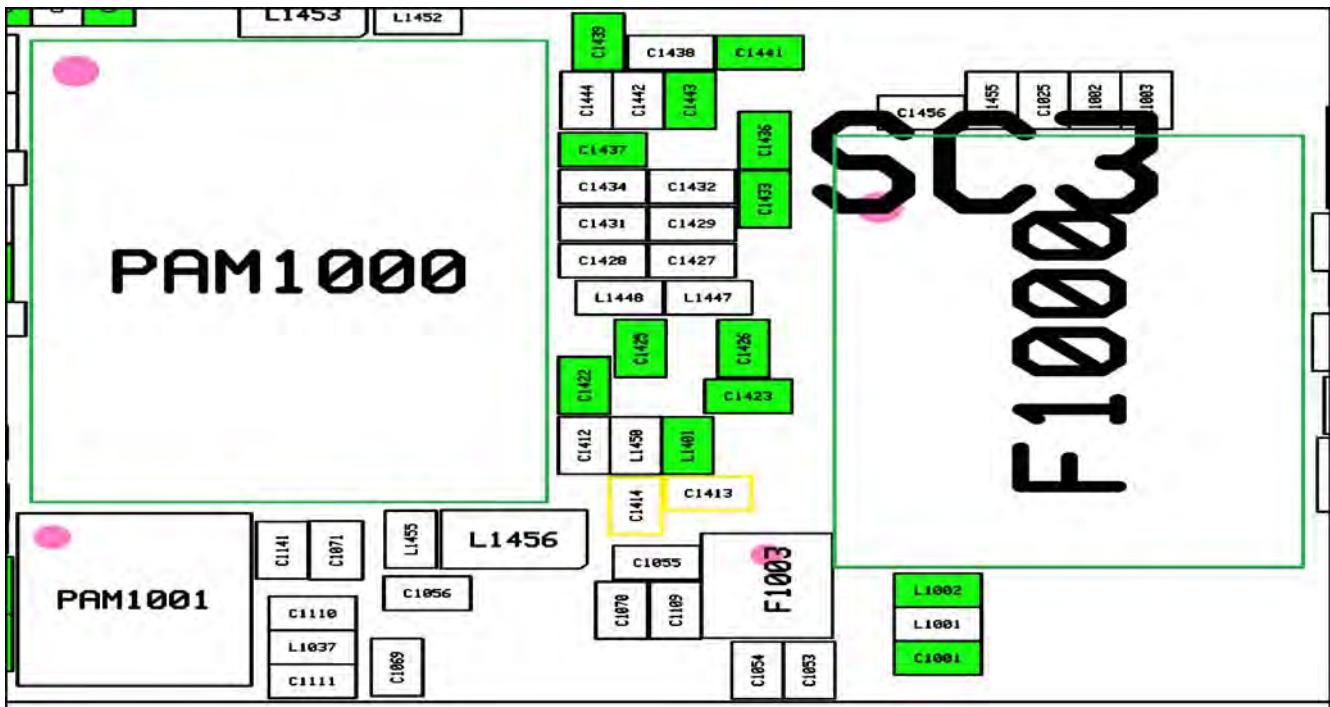


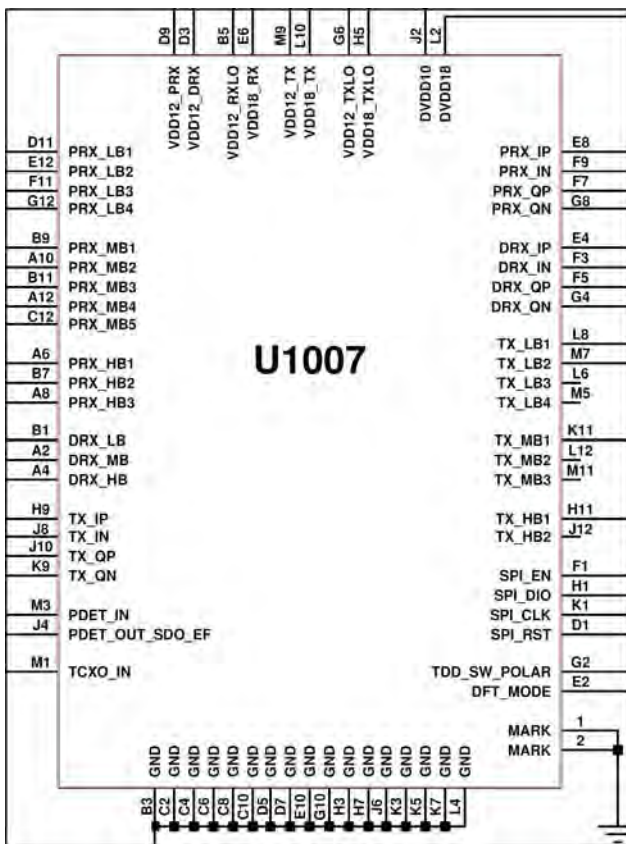
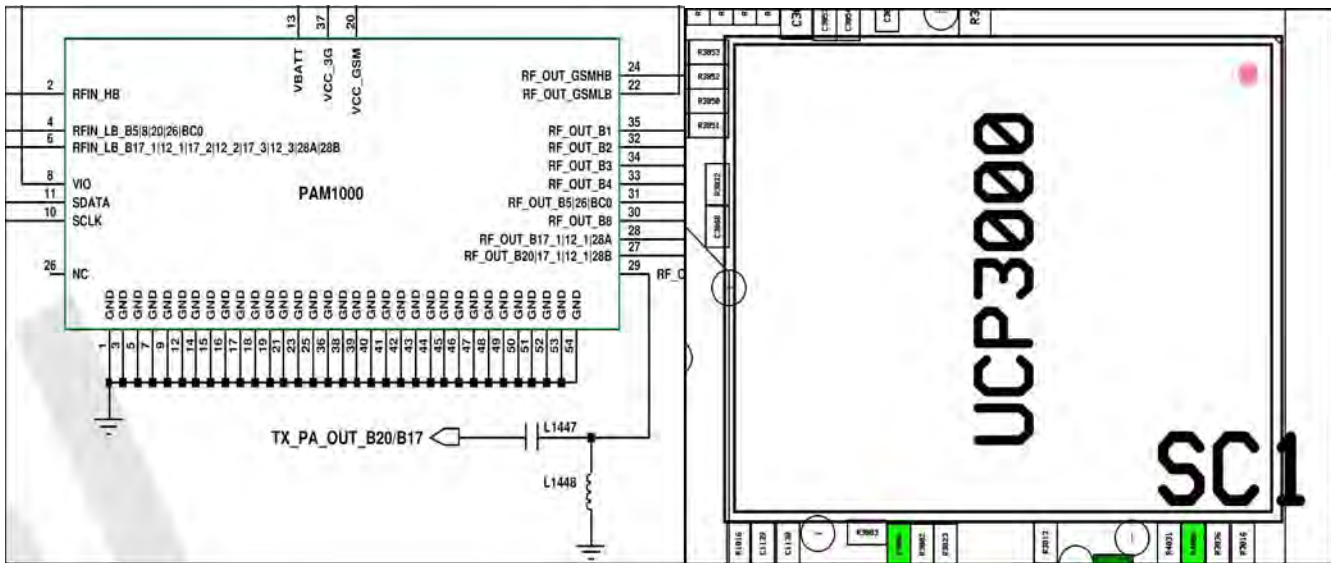




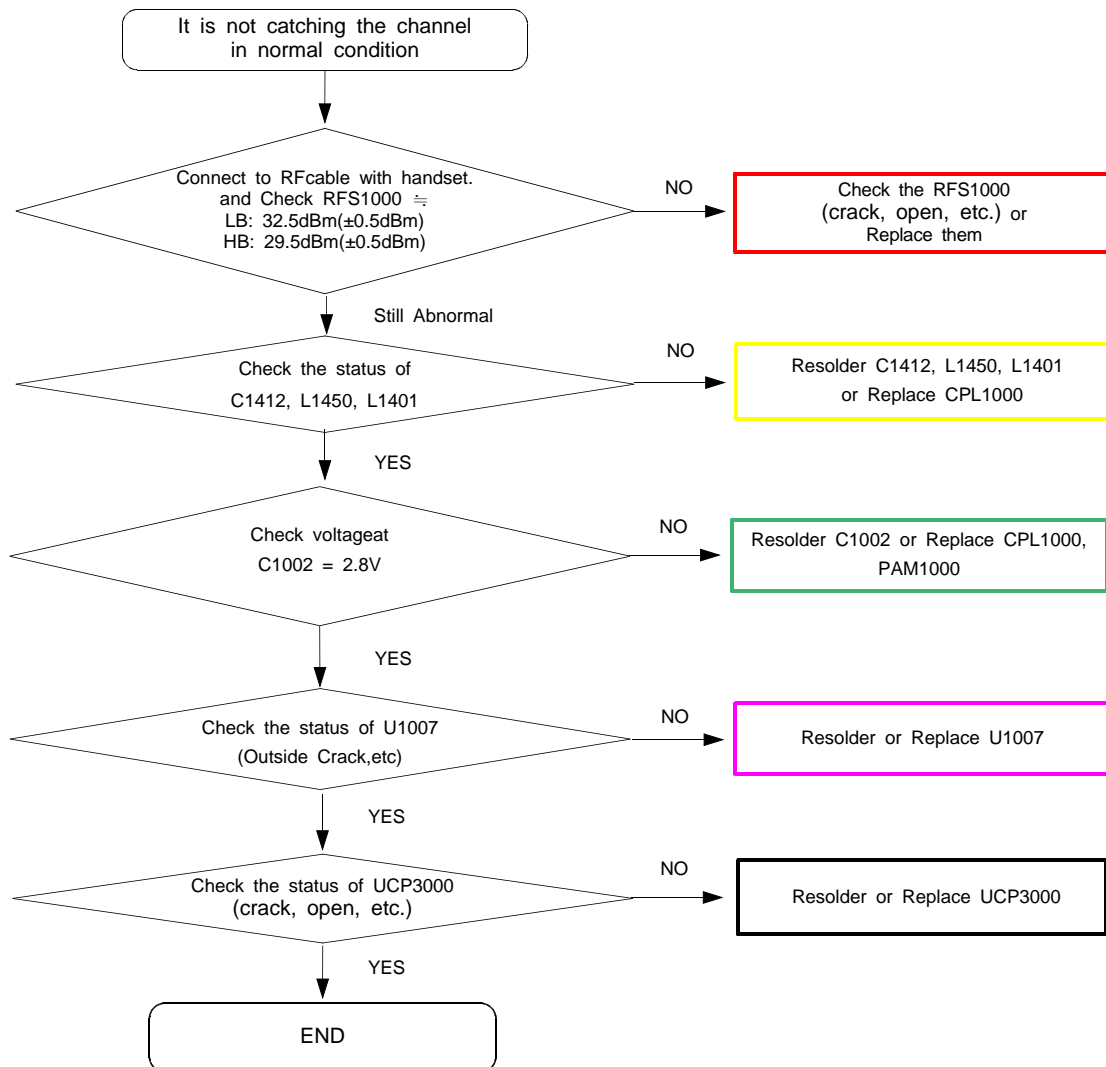
8-4-21. GSM850 / GSM900 Tx

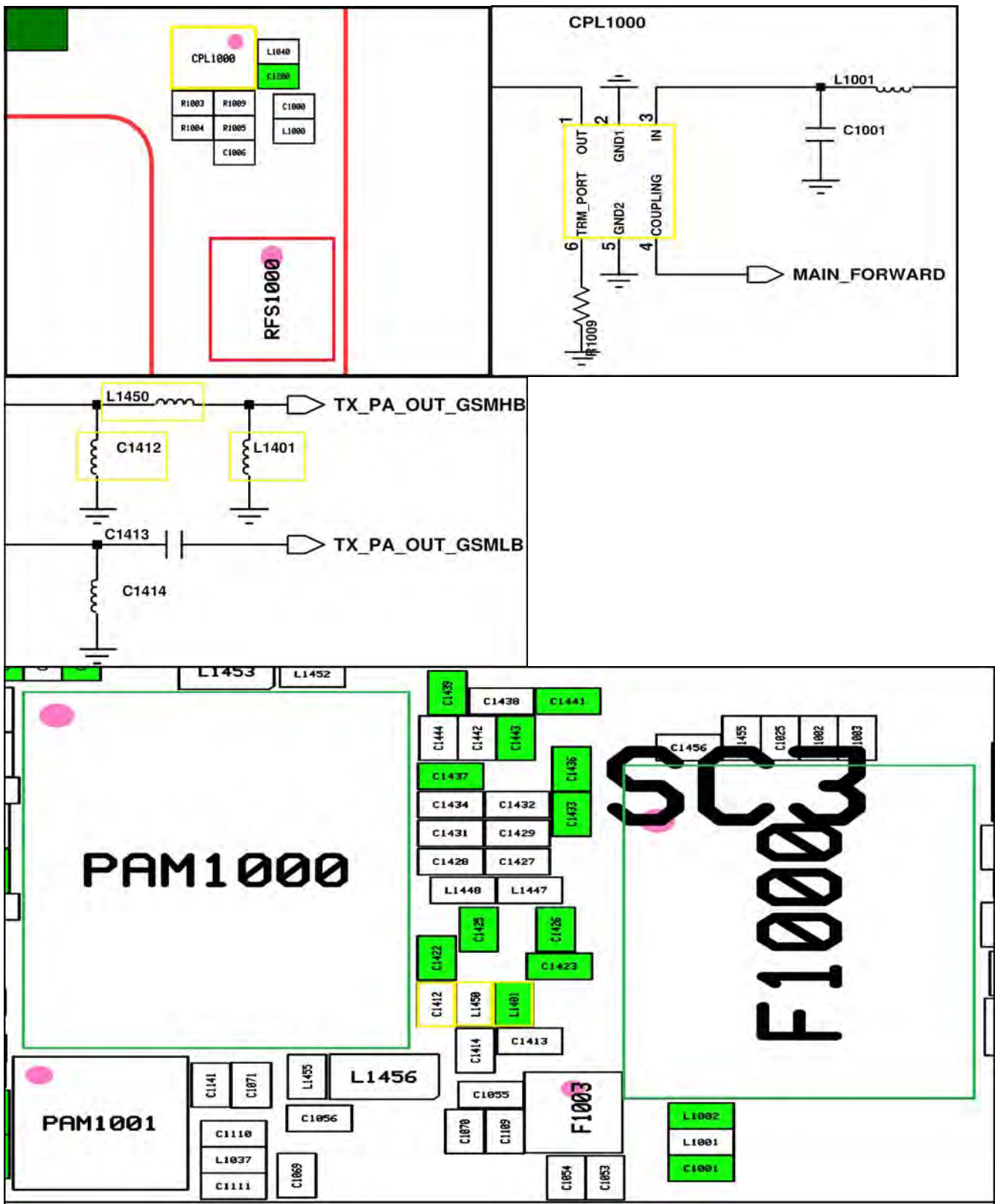


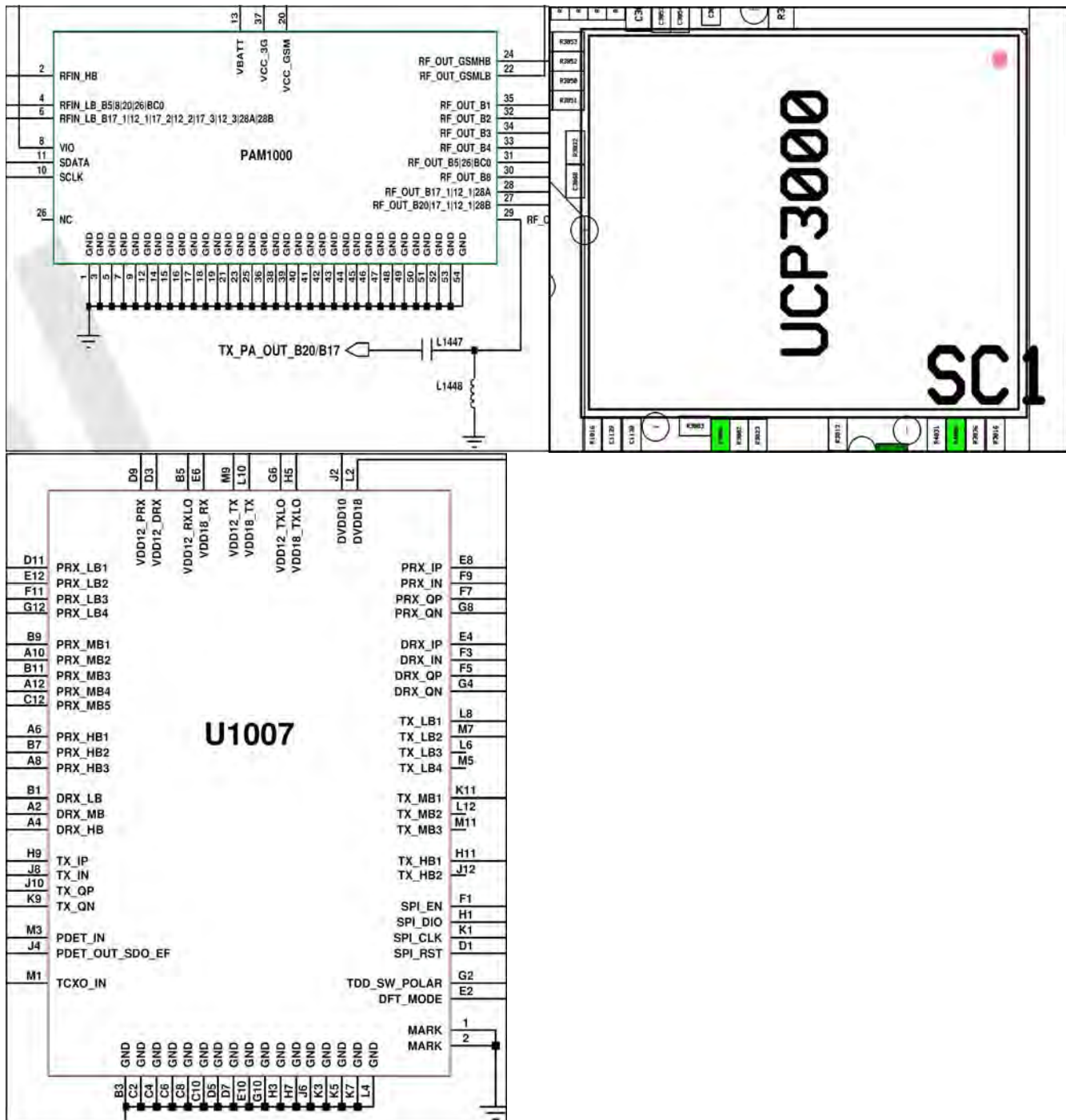




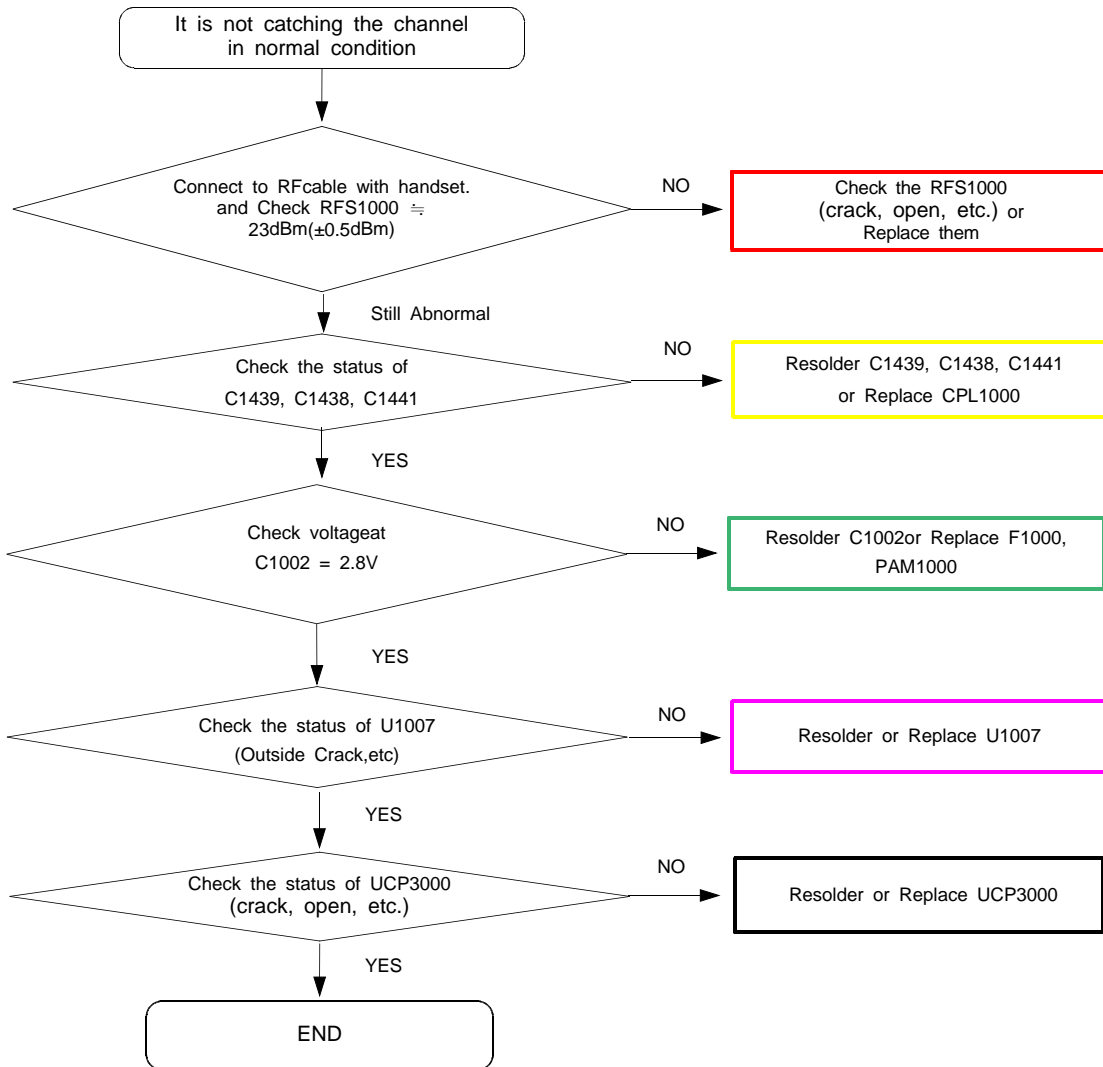
8-4-22. GSM1800 / GSM1900 Tx





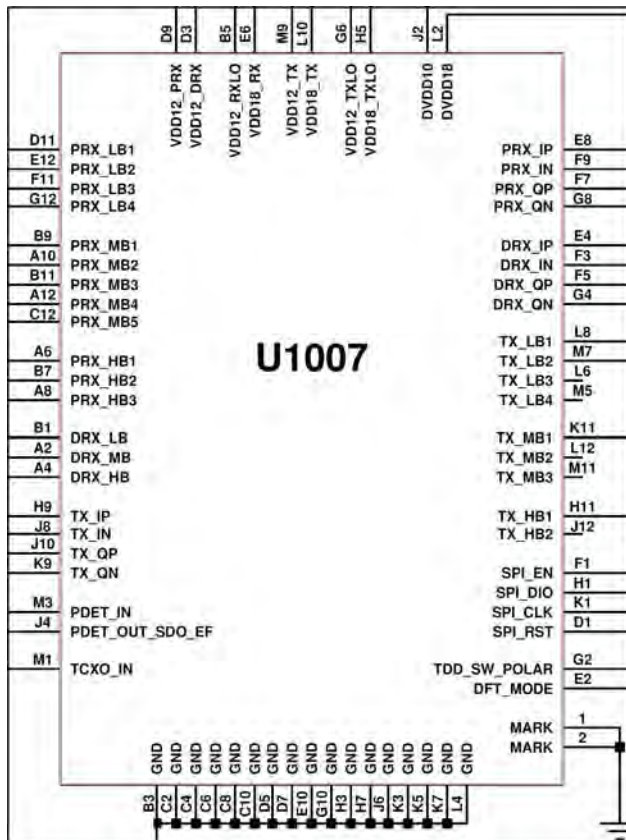
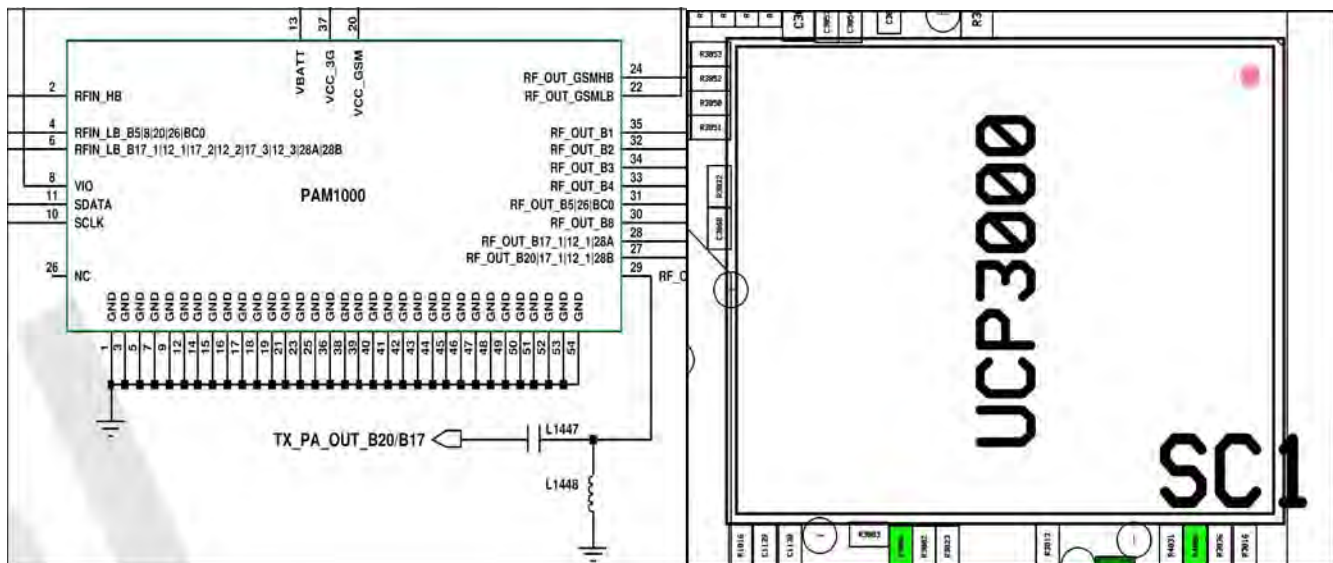


8-4-23. WCDMA Band1 / LTE Band1 Tx

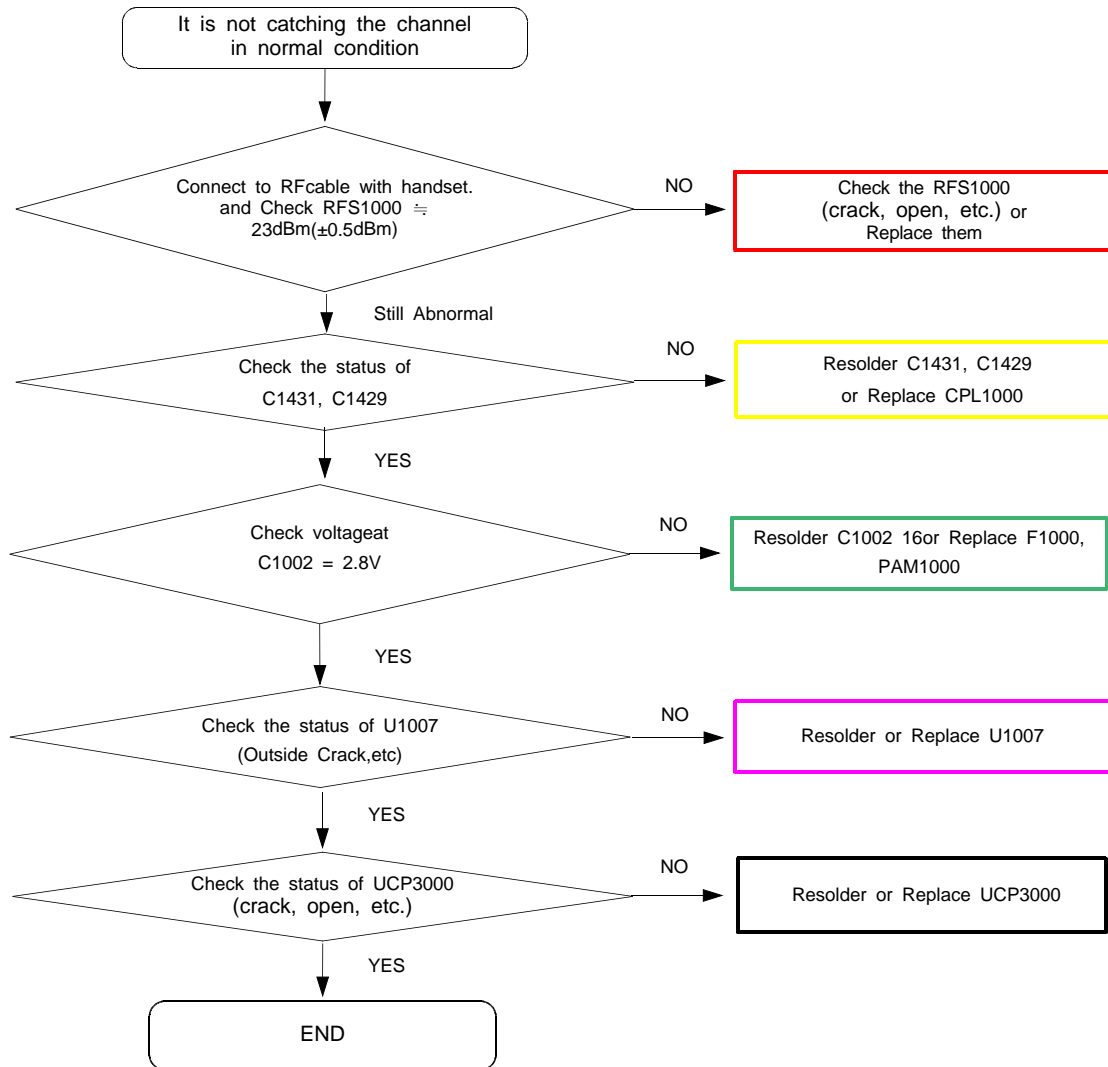


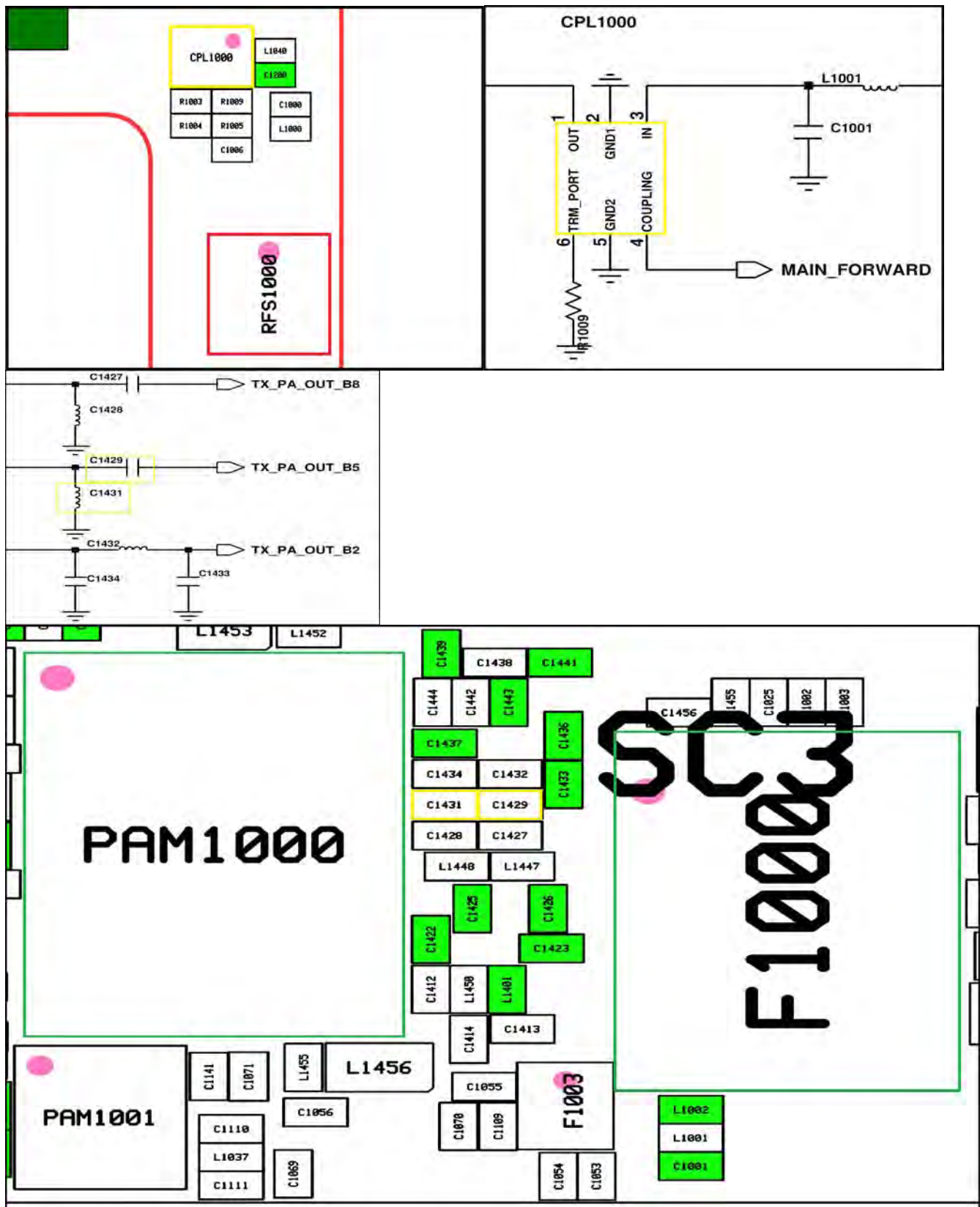


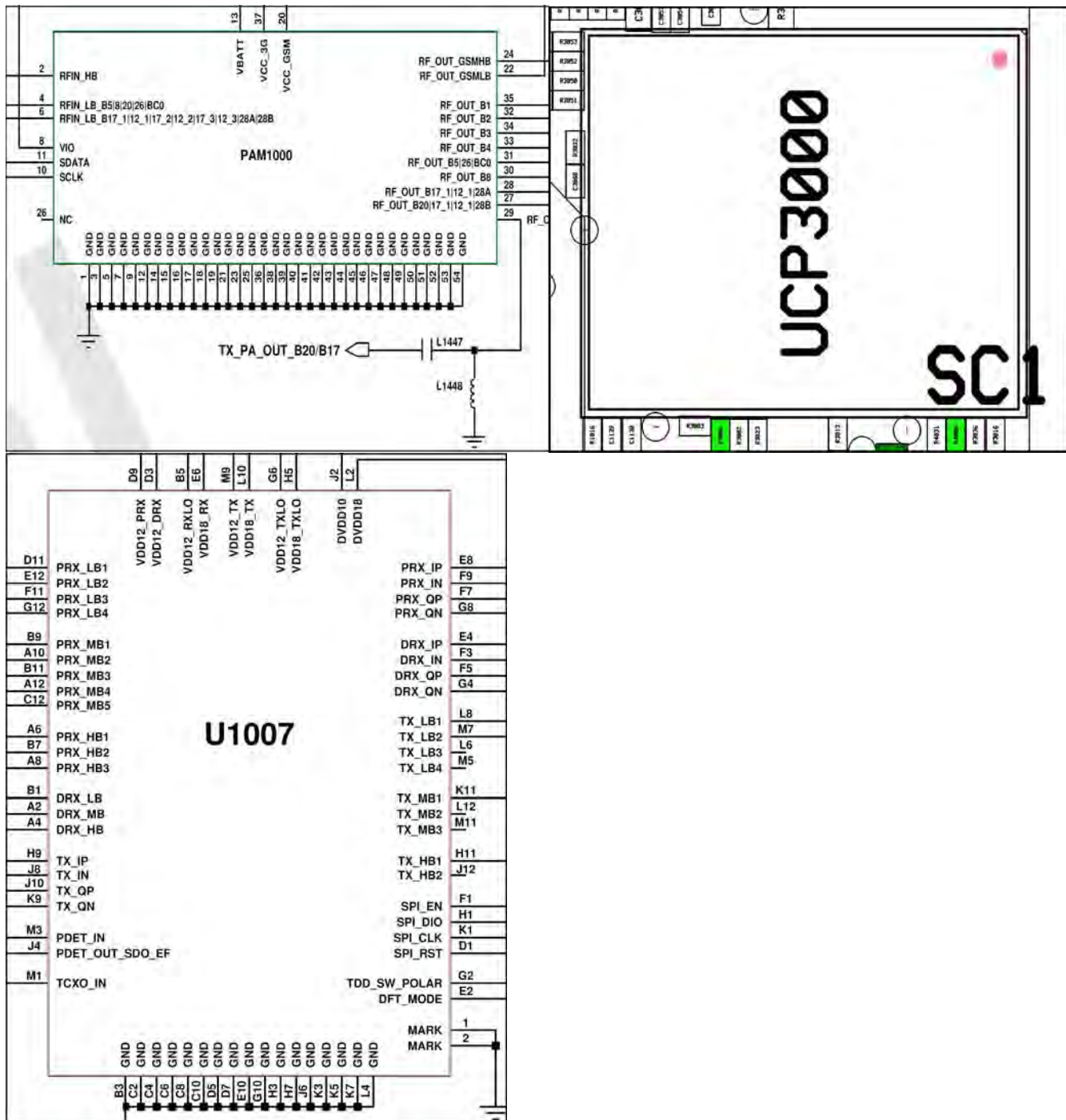
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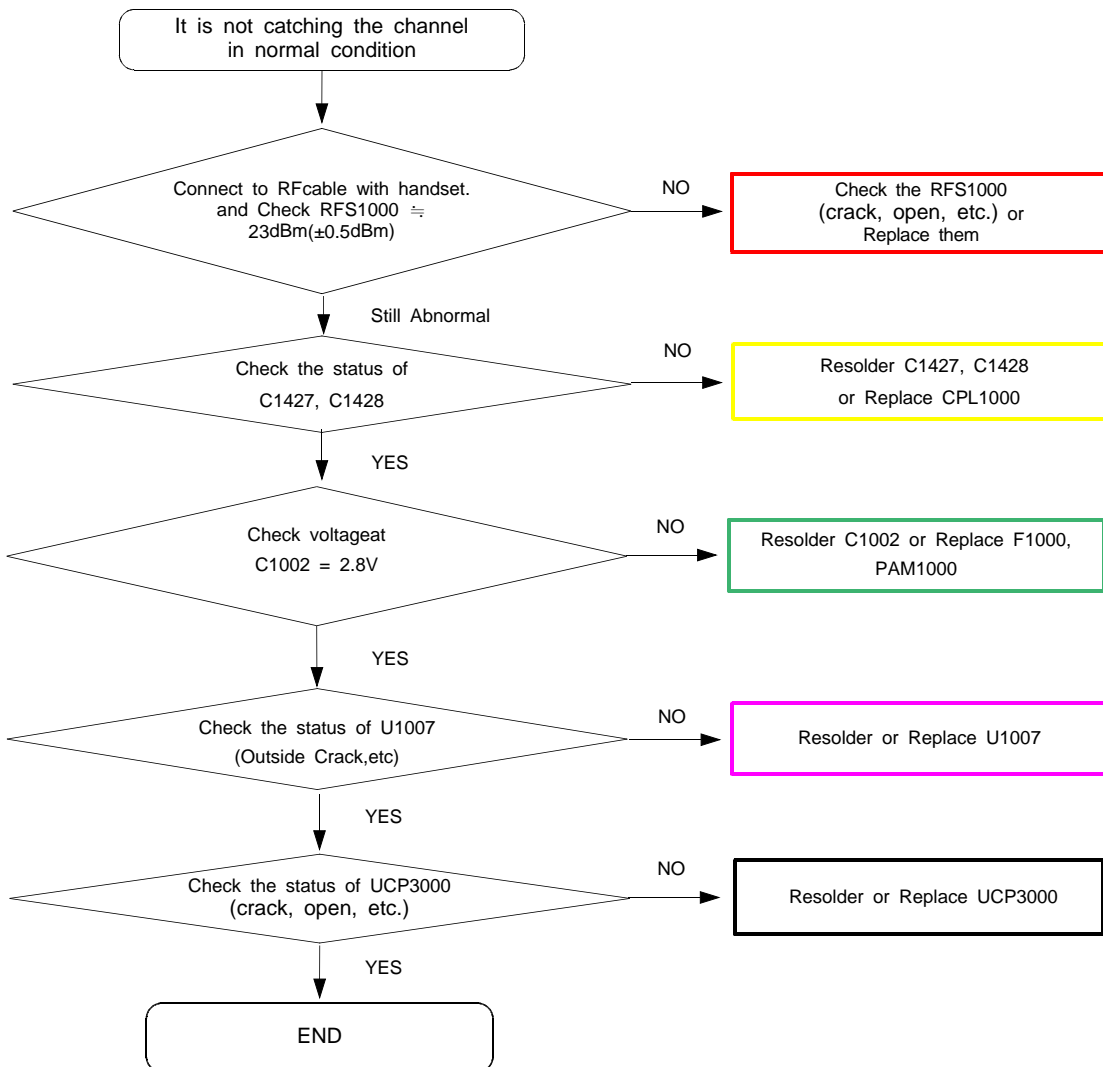
8-4-24. WCDMA Band5 / LTE B5 Tx





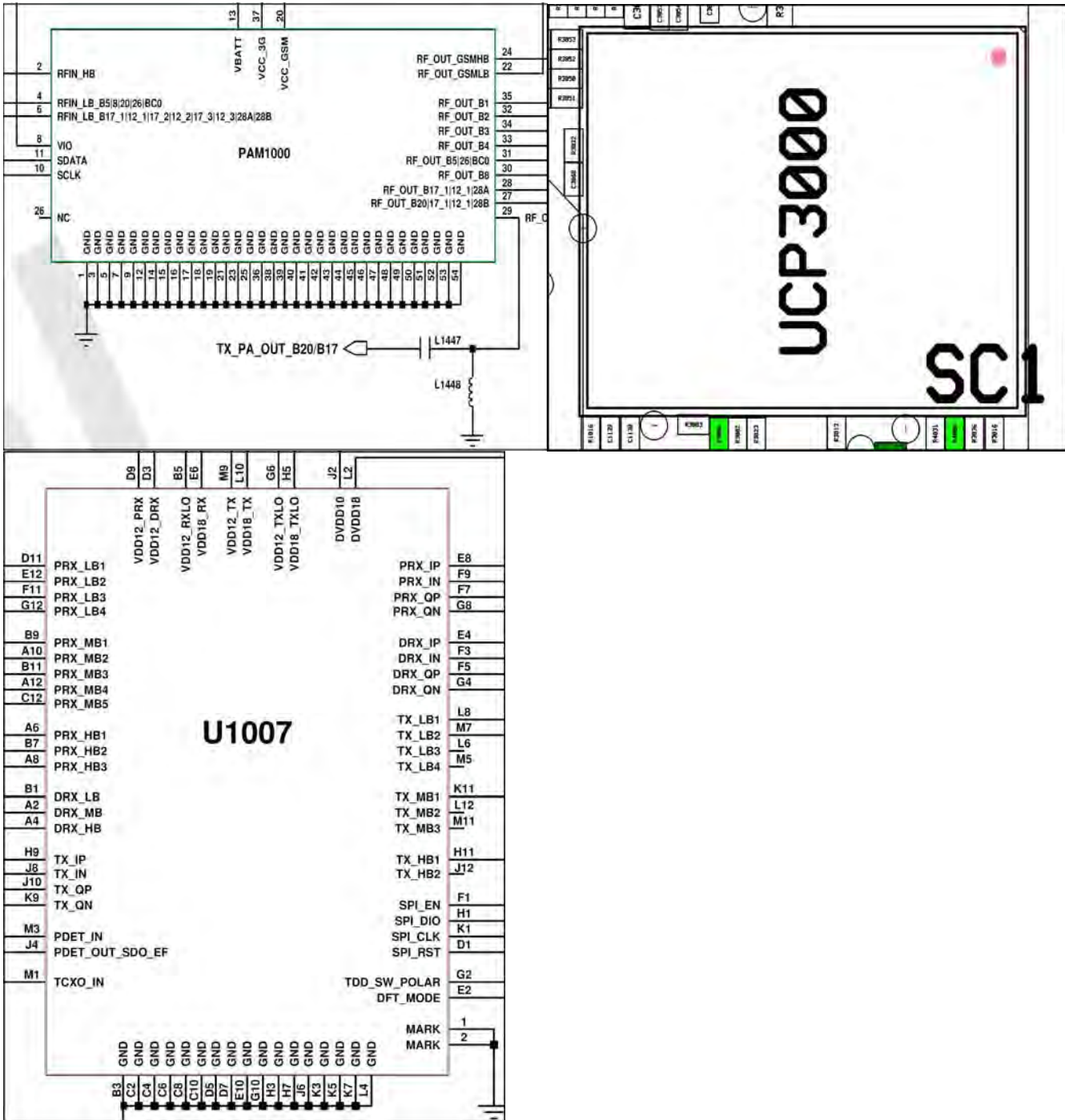


8-4-25. WCDMA Band8 / LTE Band8 Tx

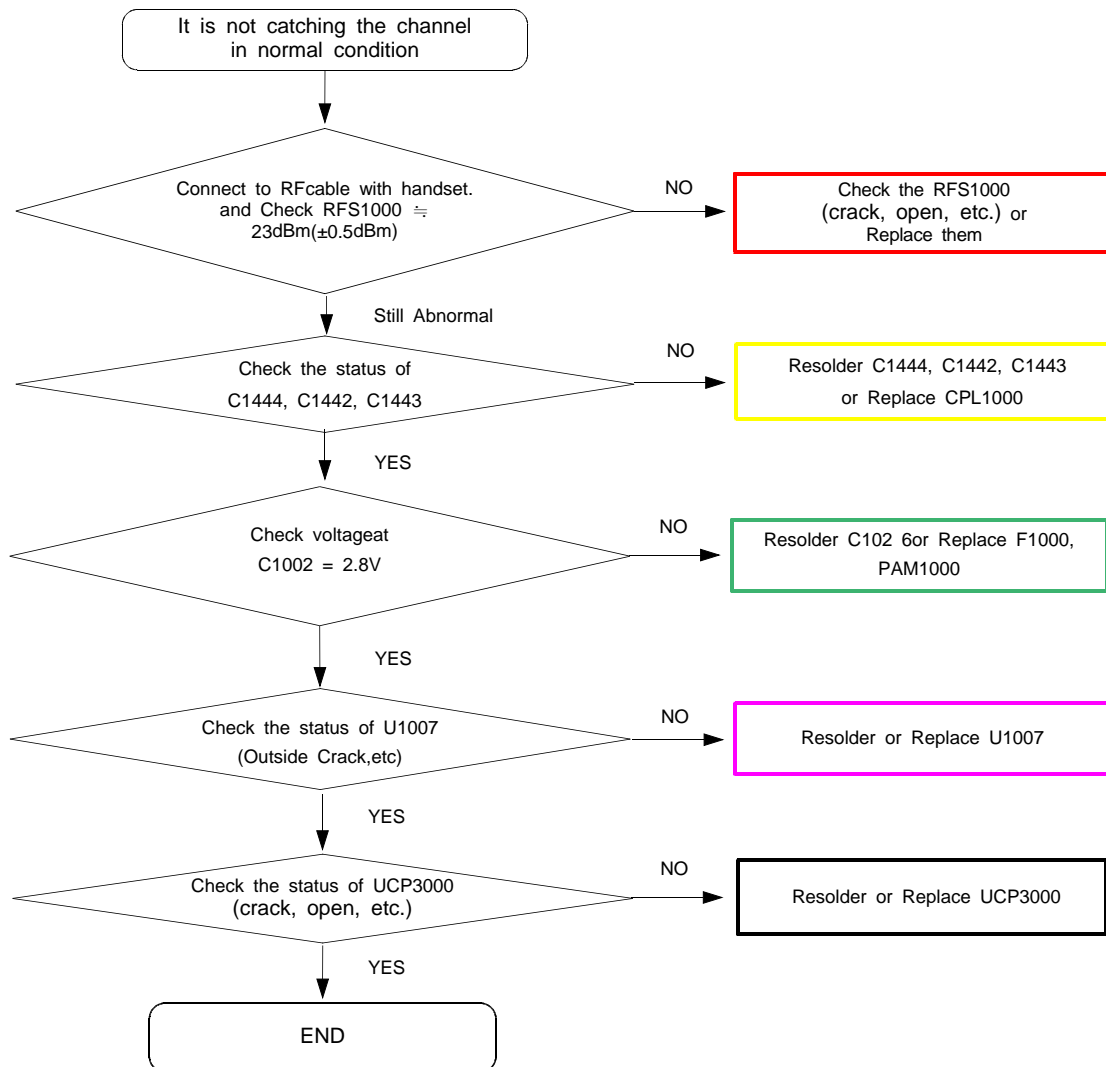


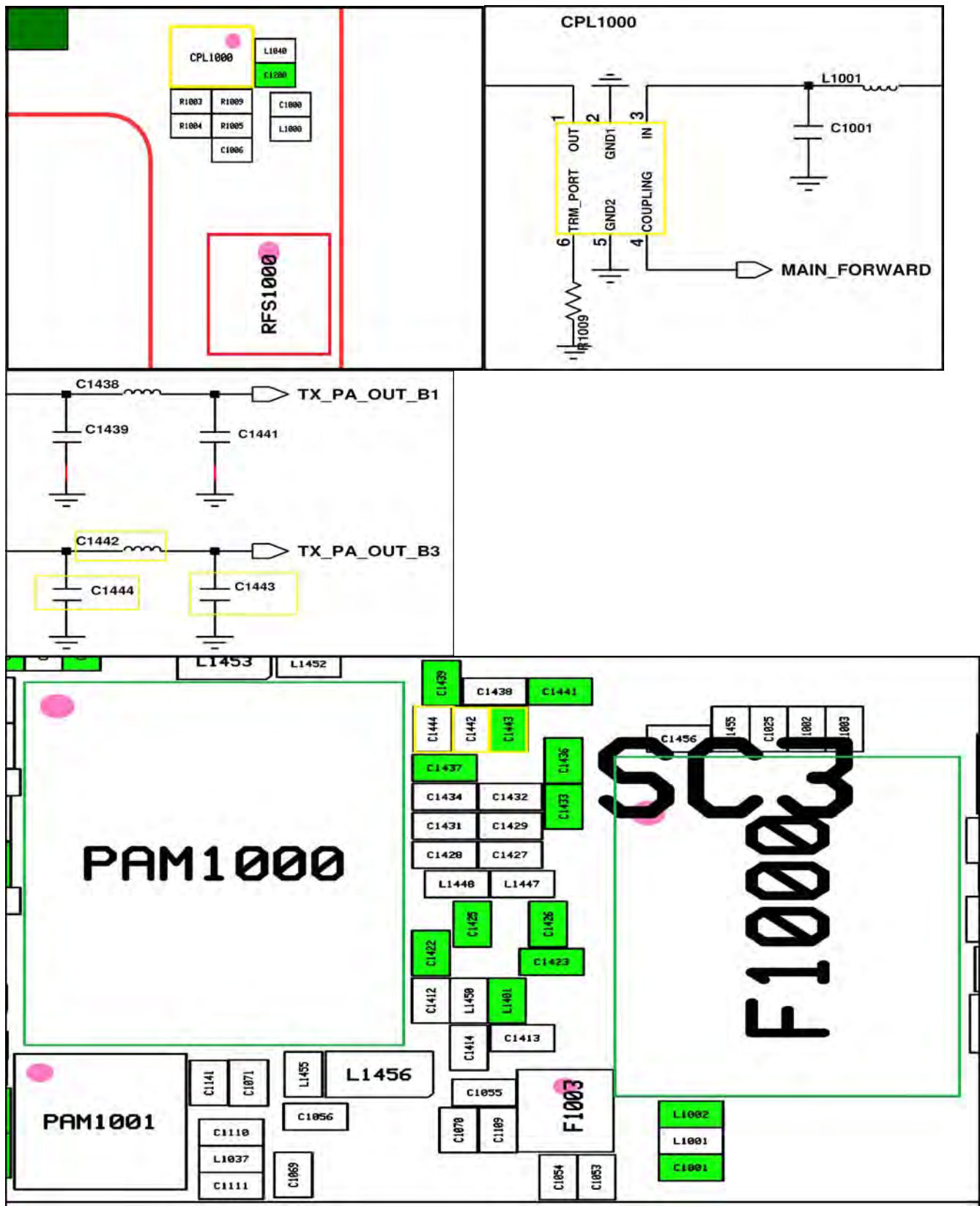


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8-4-26. LTE Band3 Tx

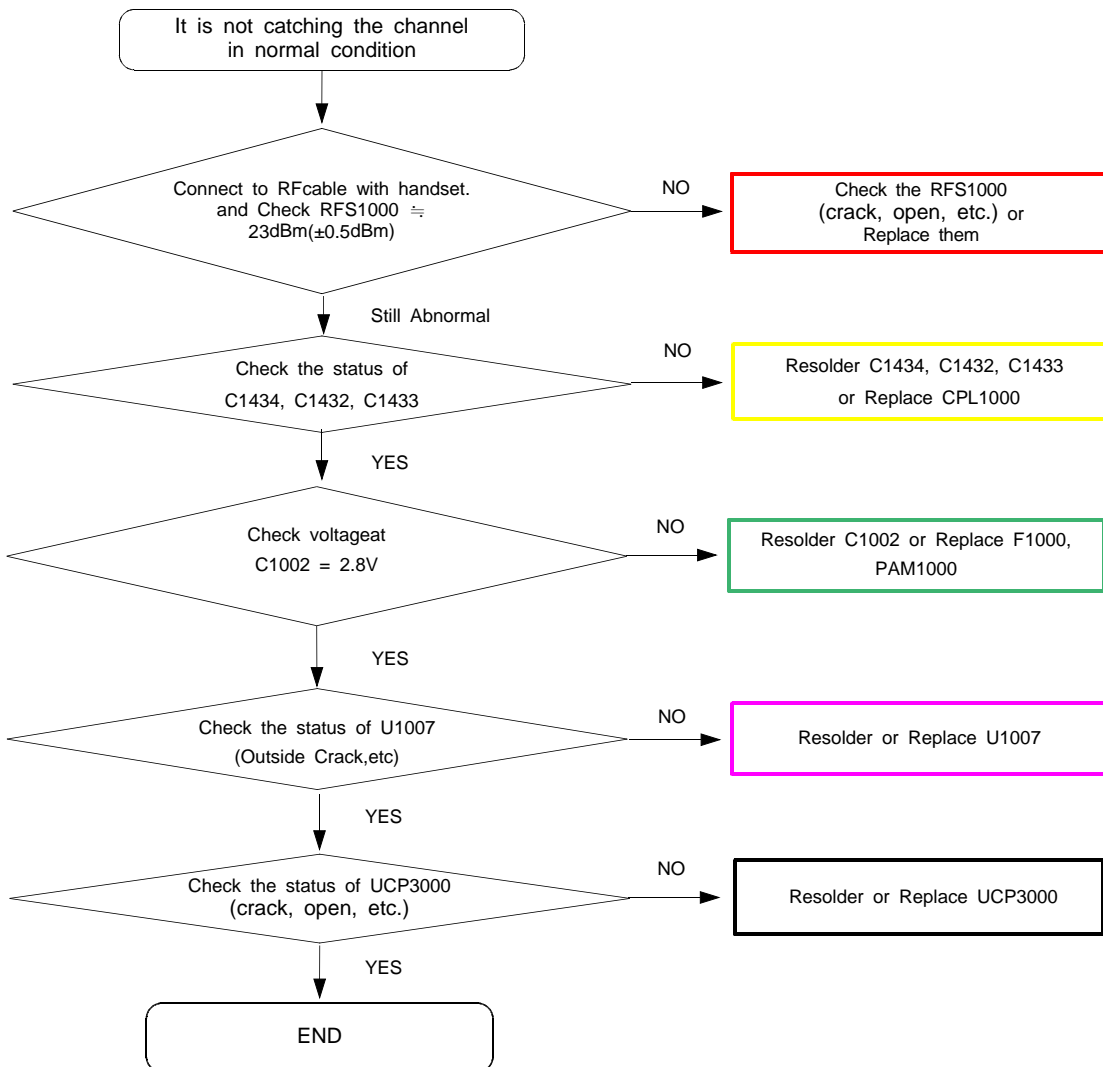


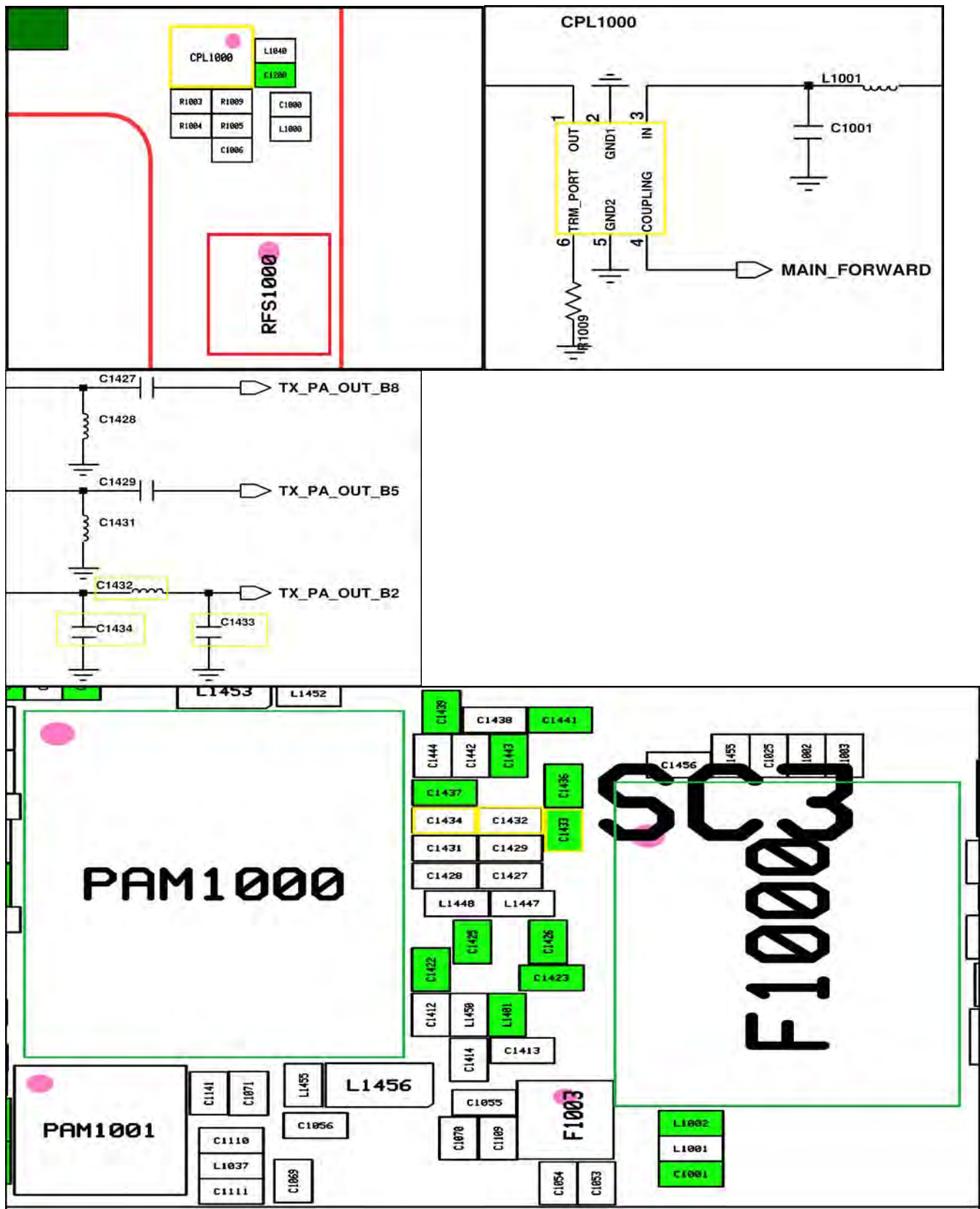


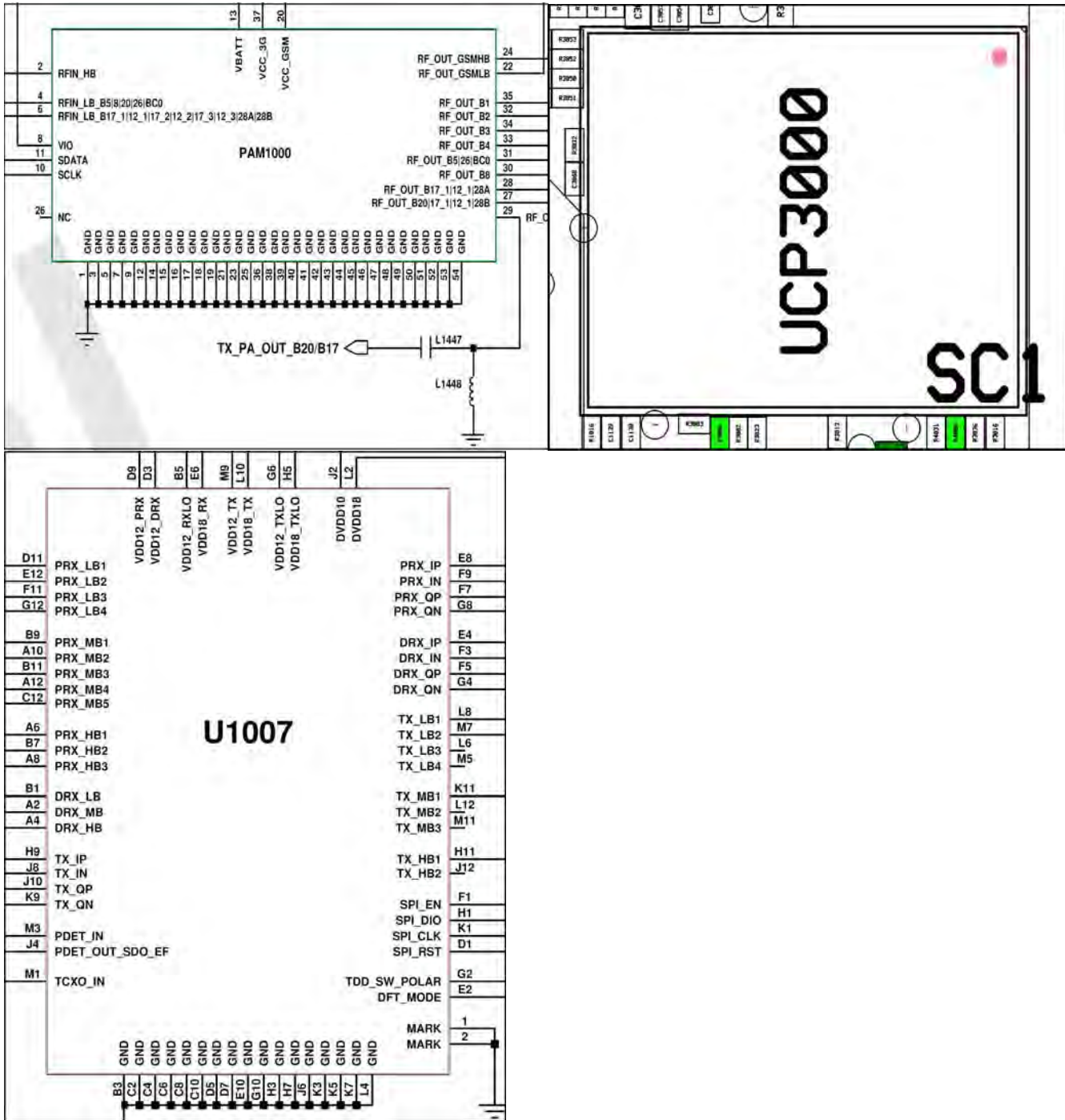


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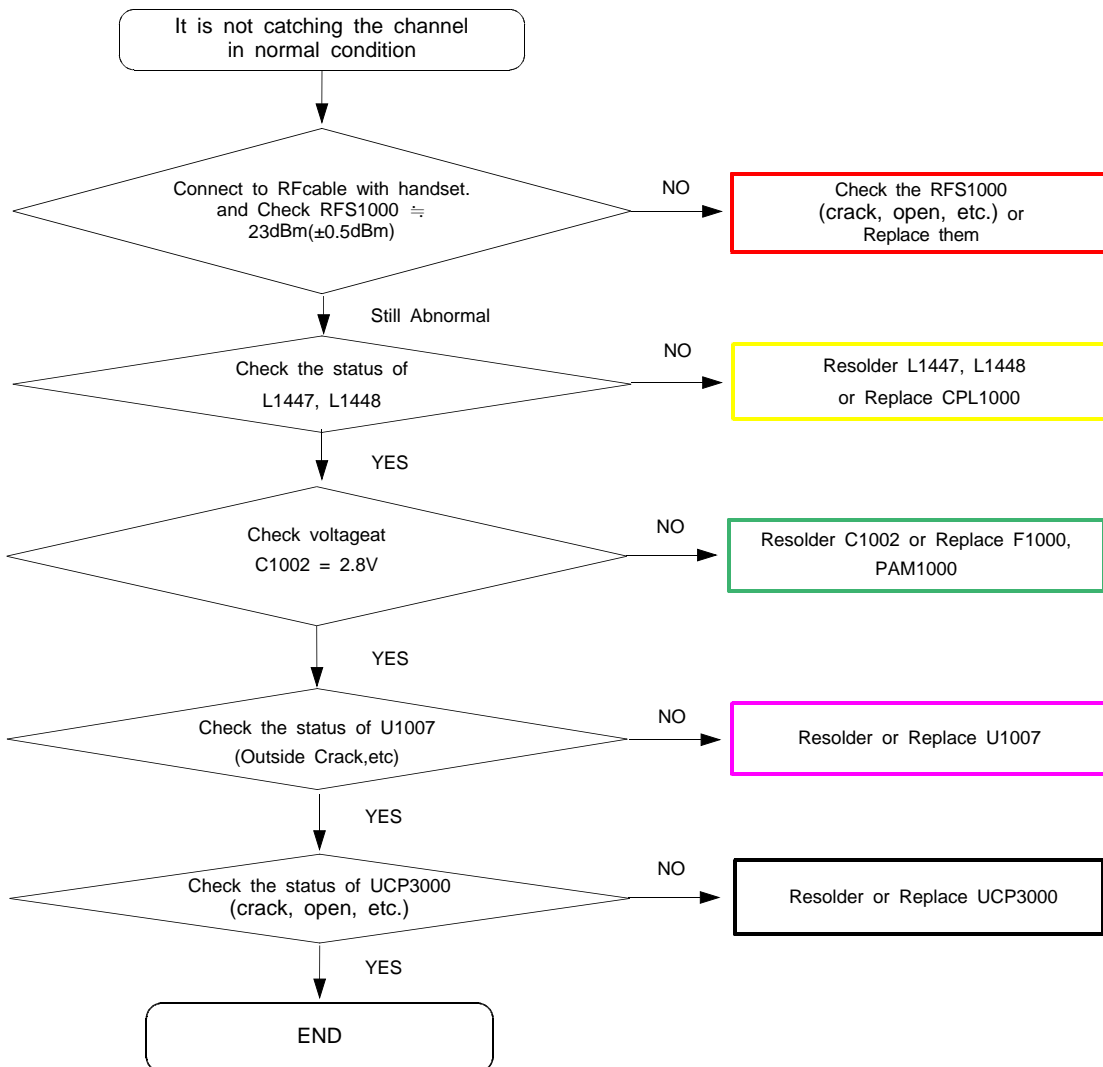
8-4-27. WCDMA Band2 Tx

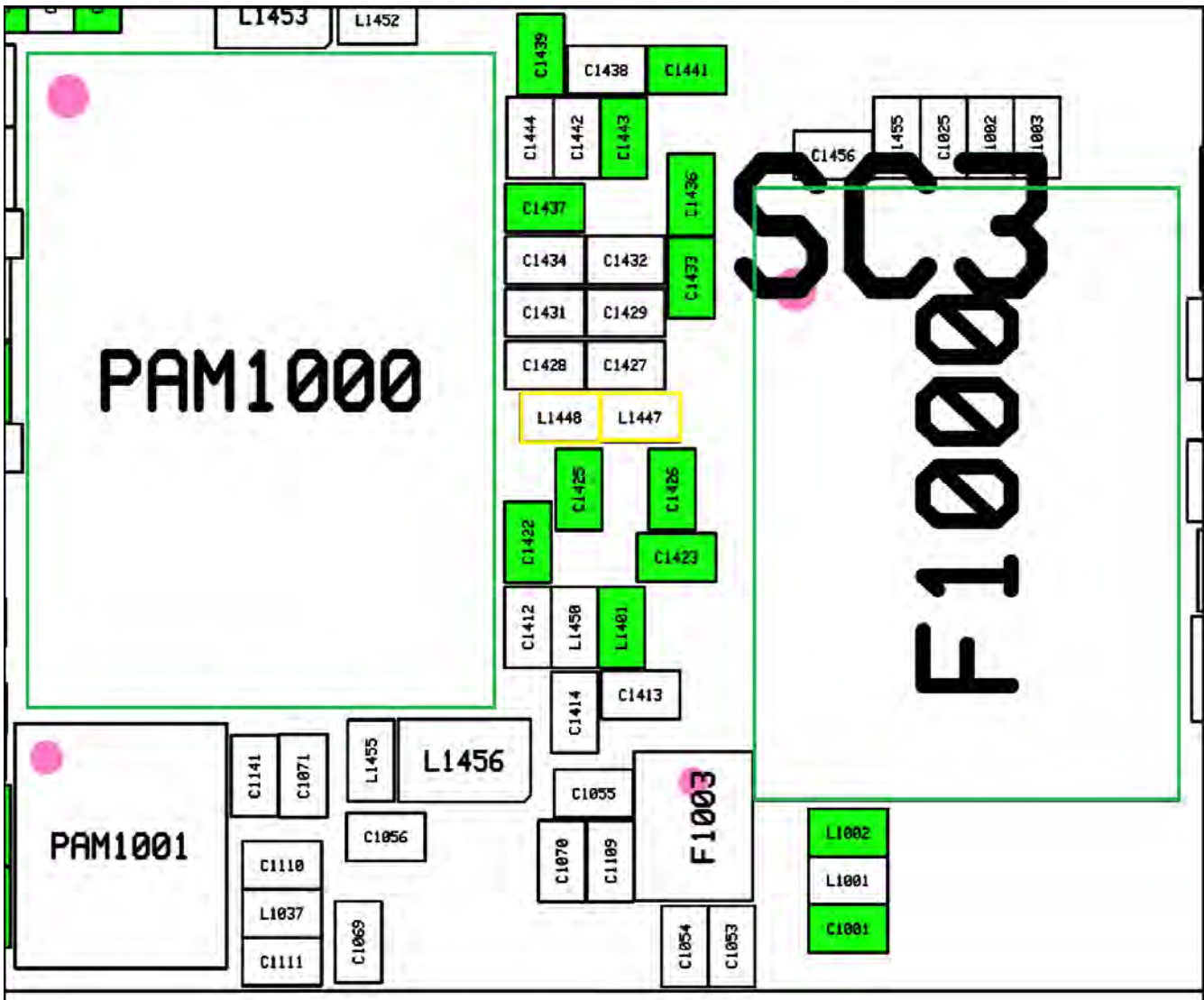
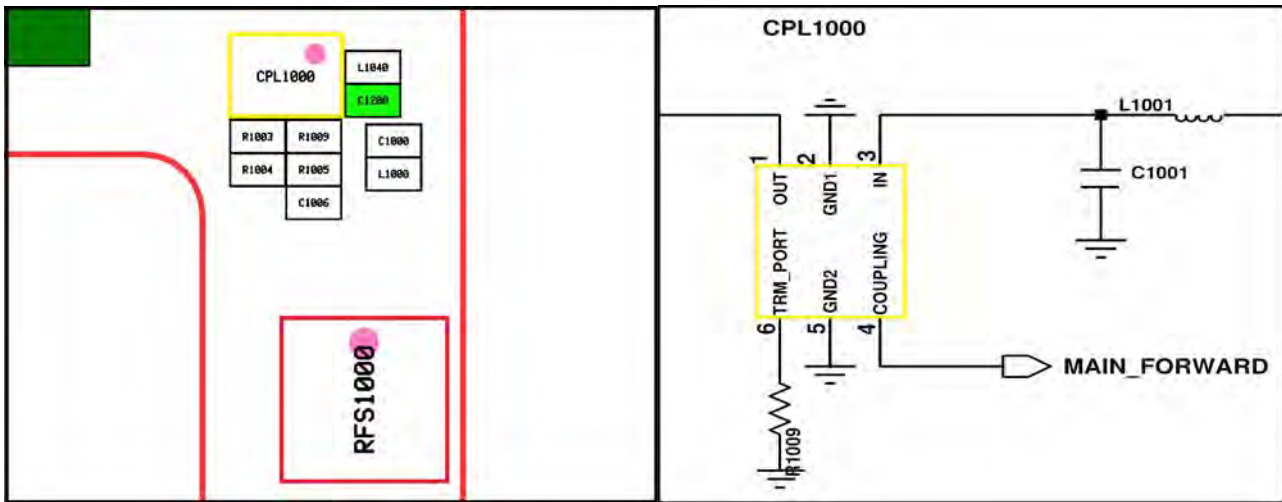


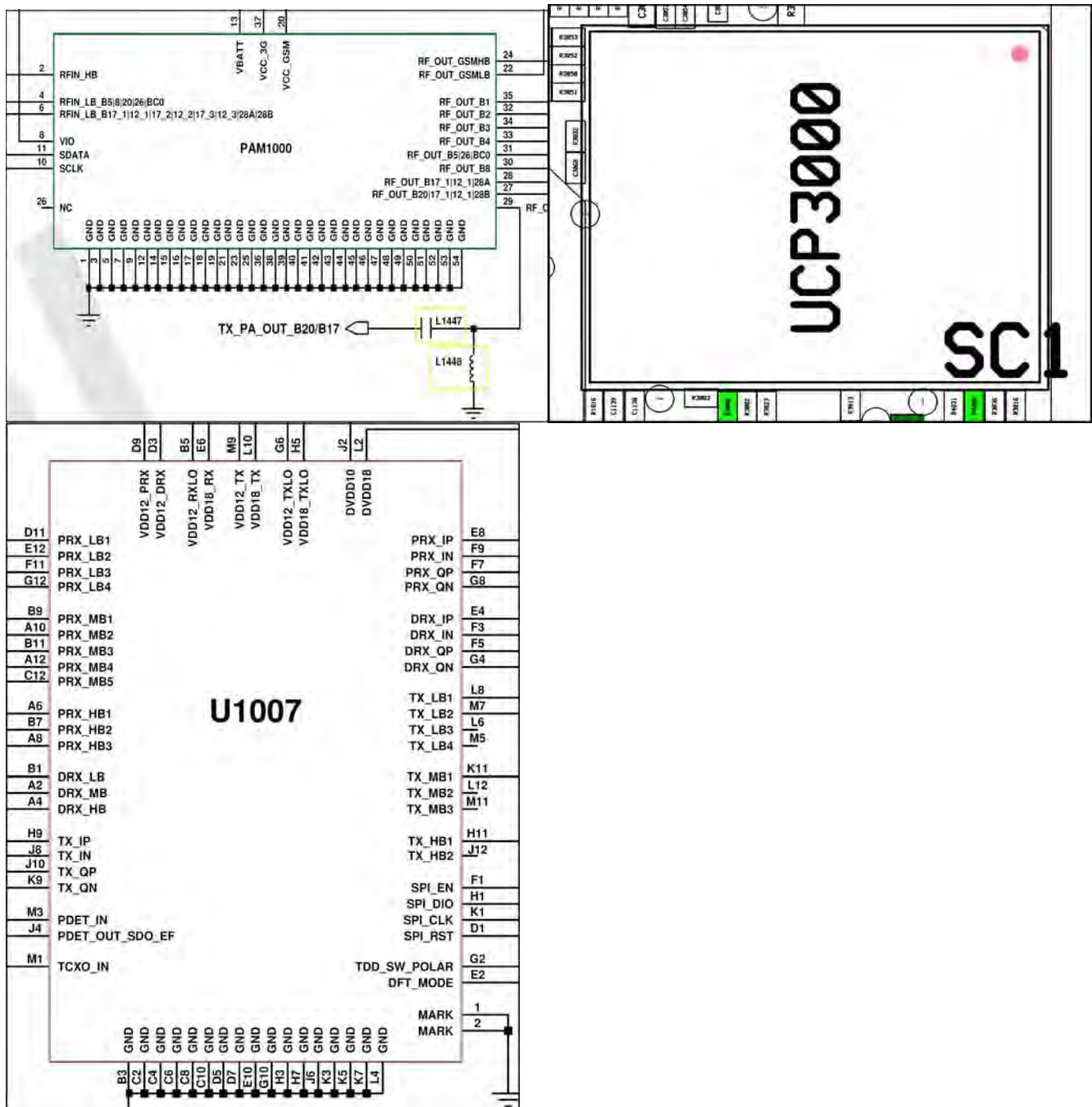




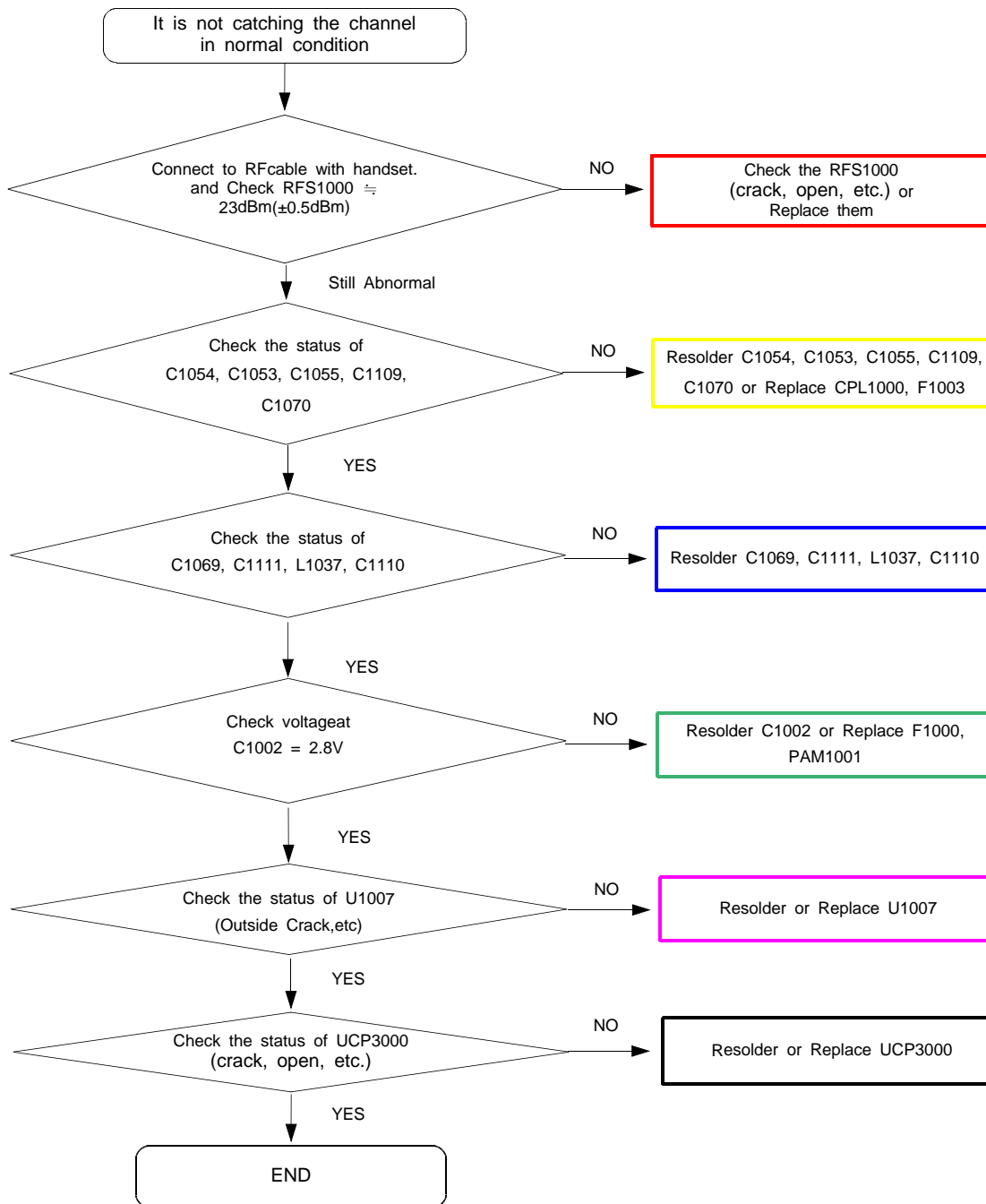
8-4-28. LTE Band20 Tx

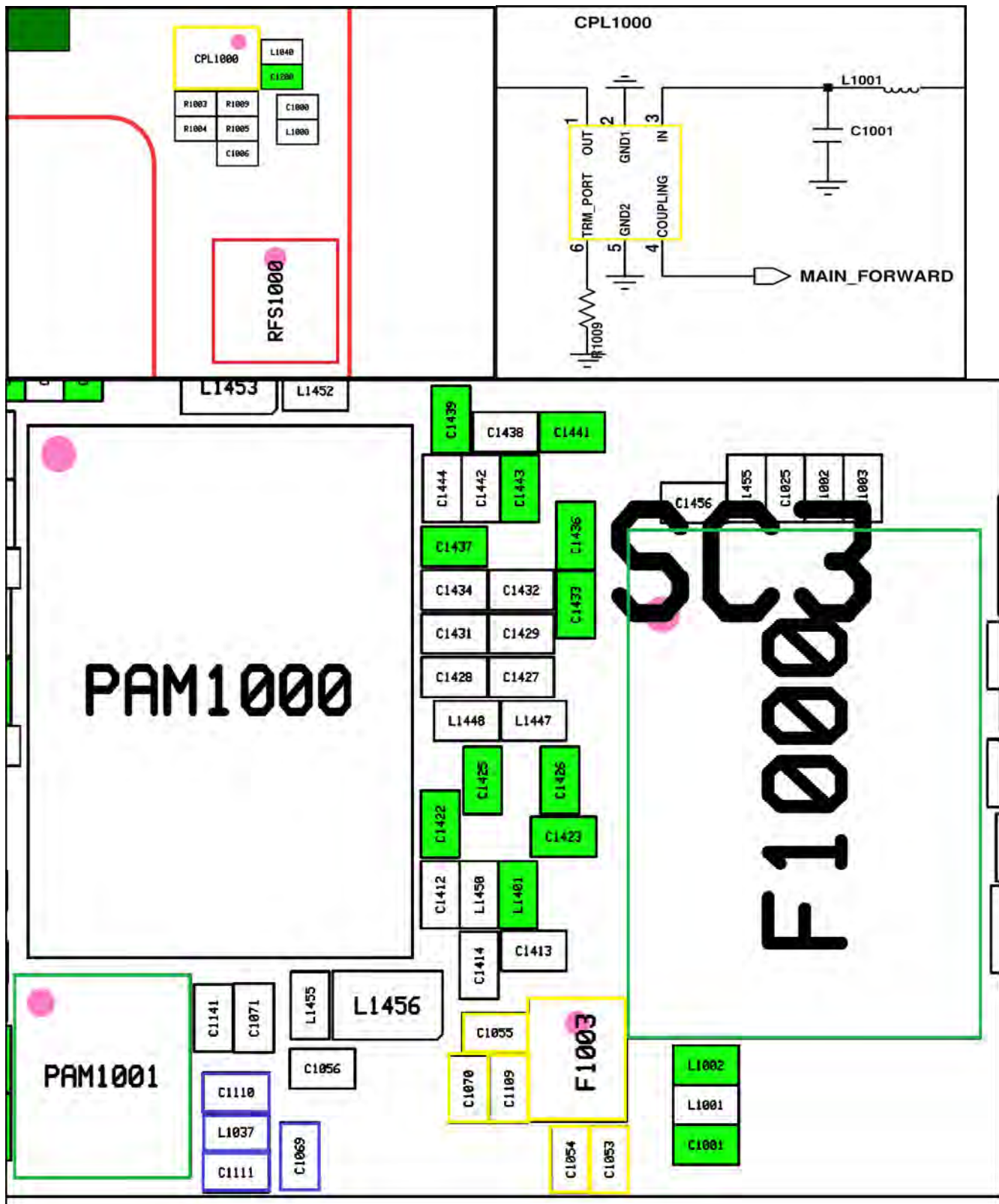


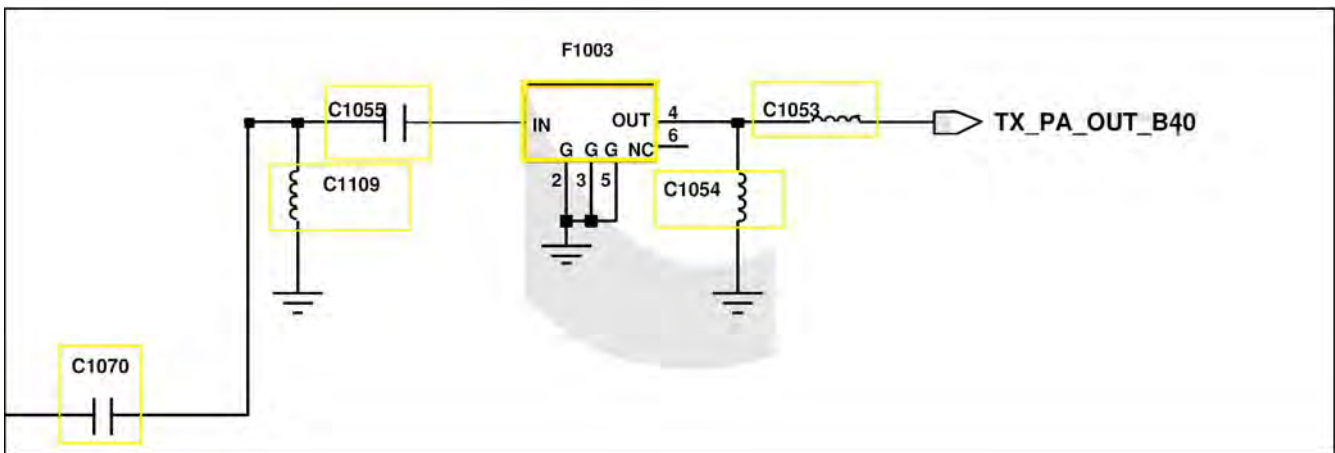
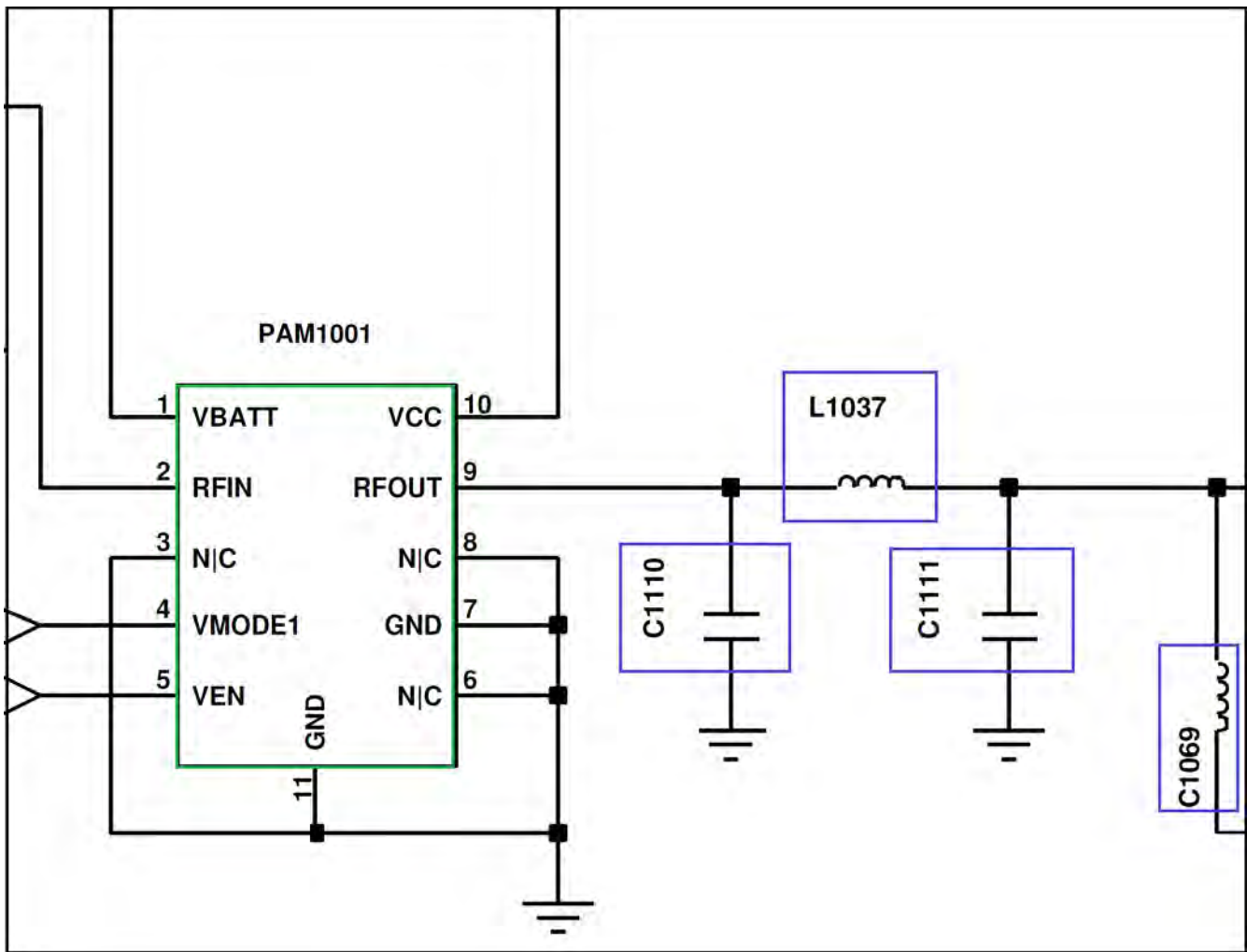


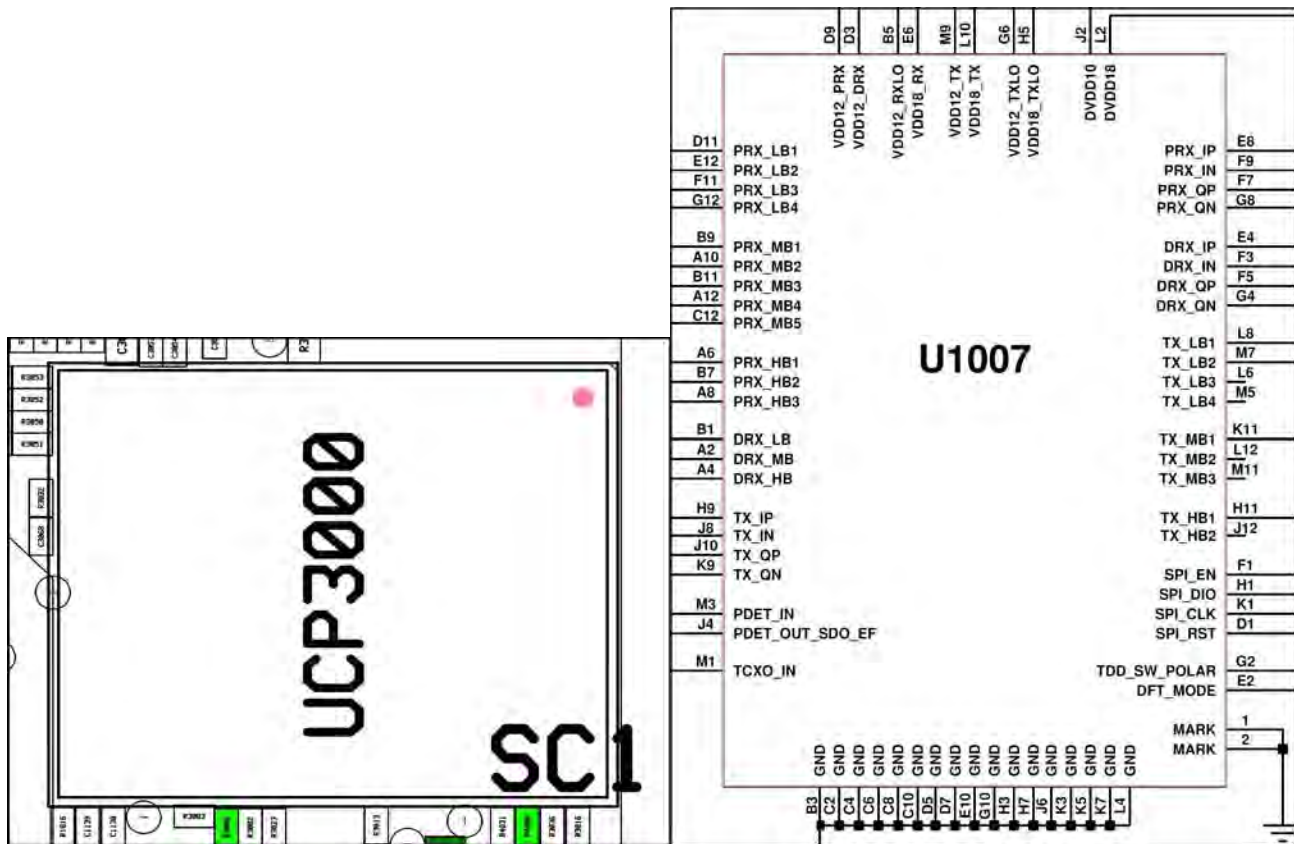


8-4-29. LTE Band40 Tx

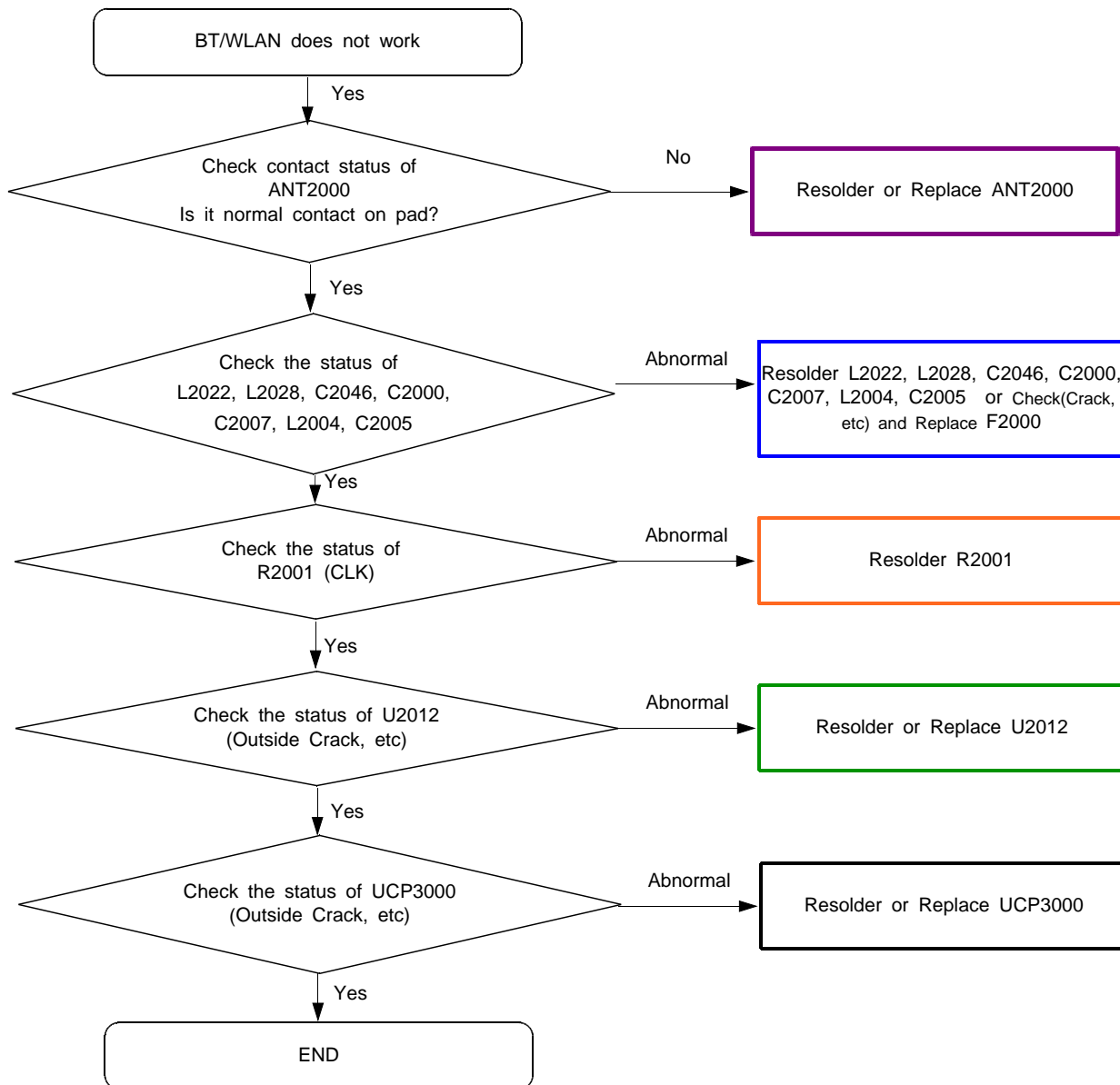


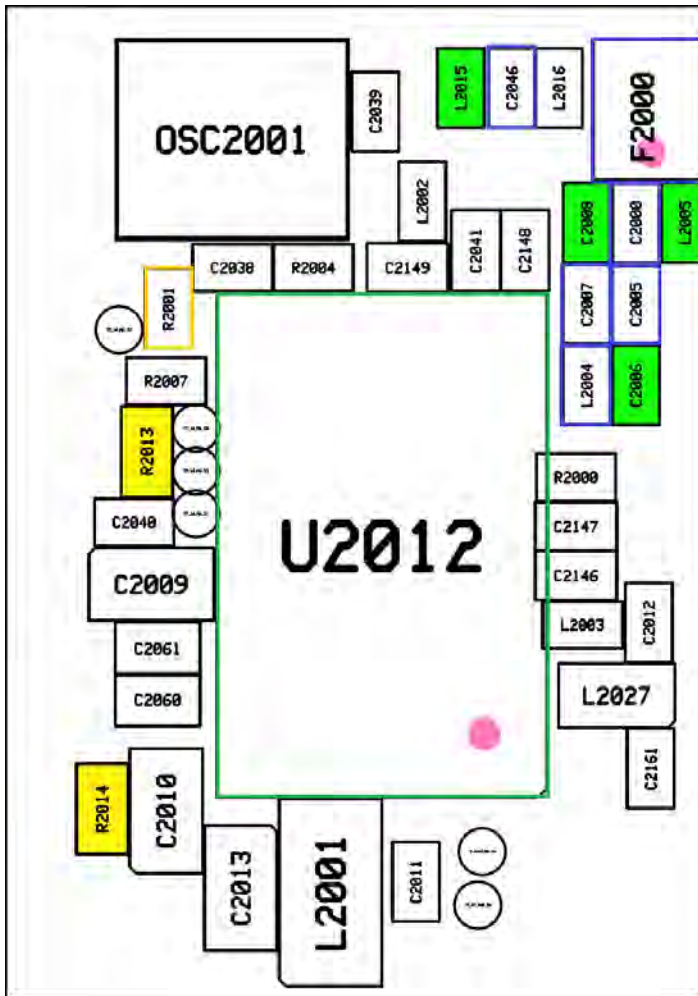
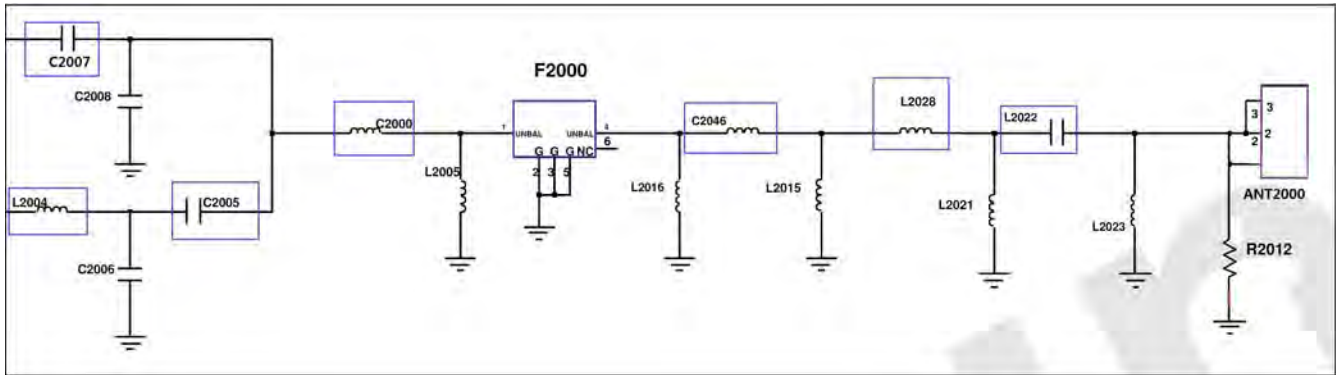


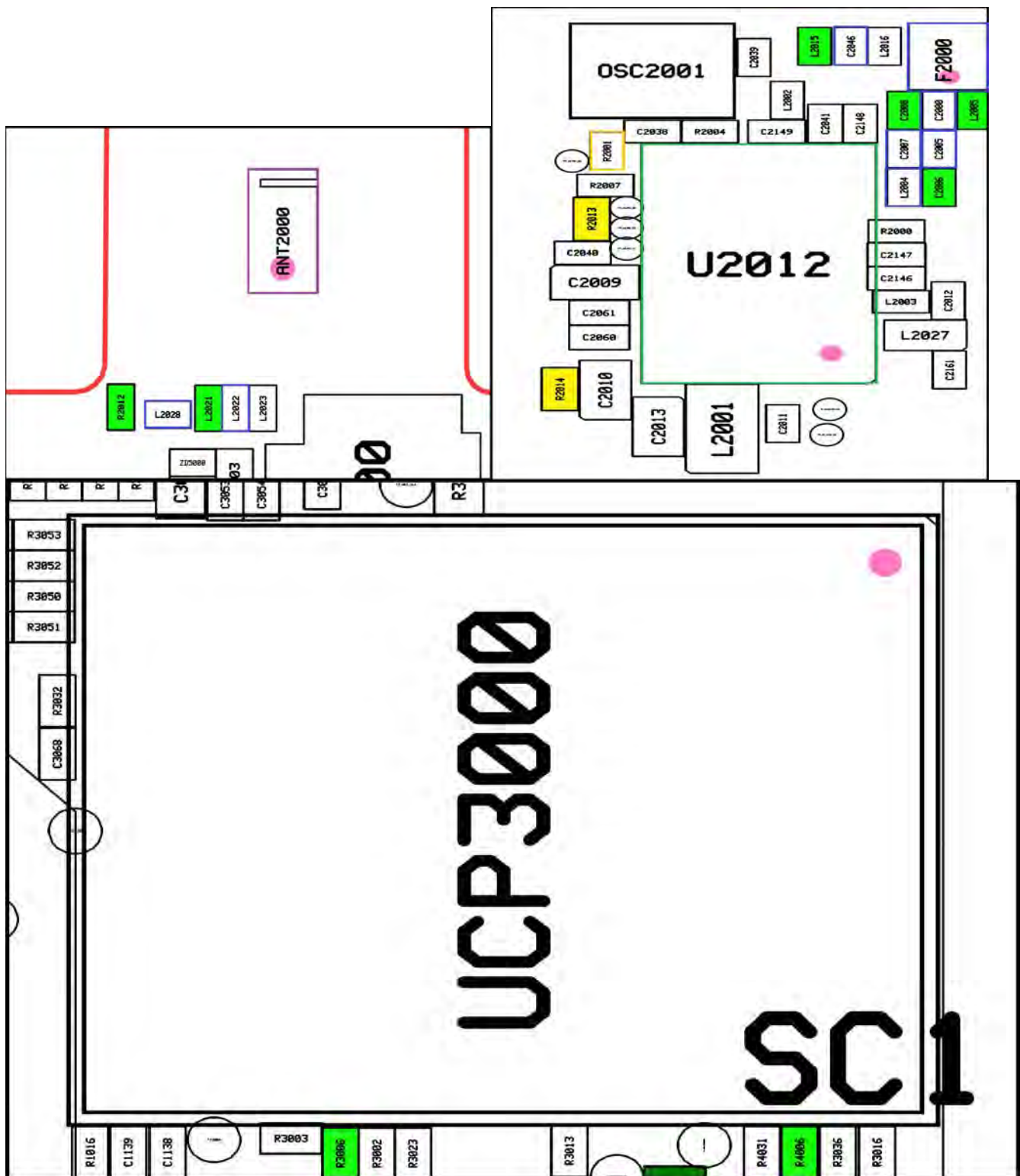




8-4-30. BT/WLAN







8-4-31. GPS

