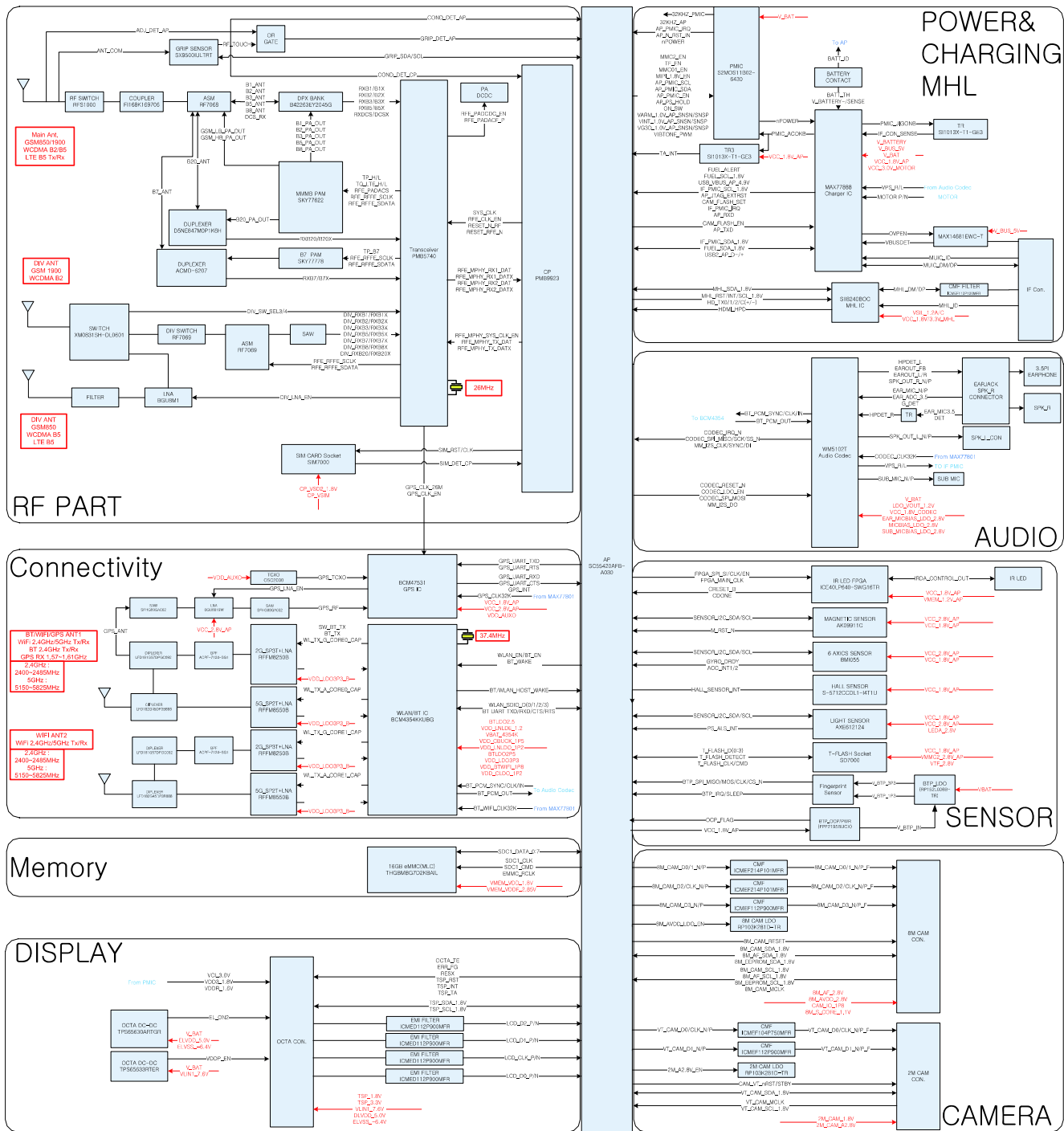


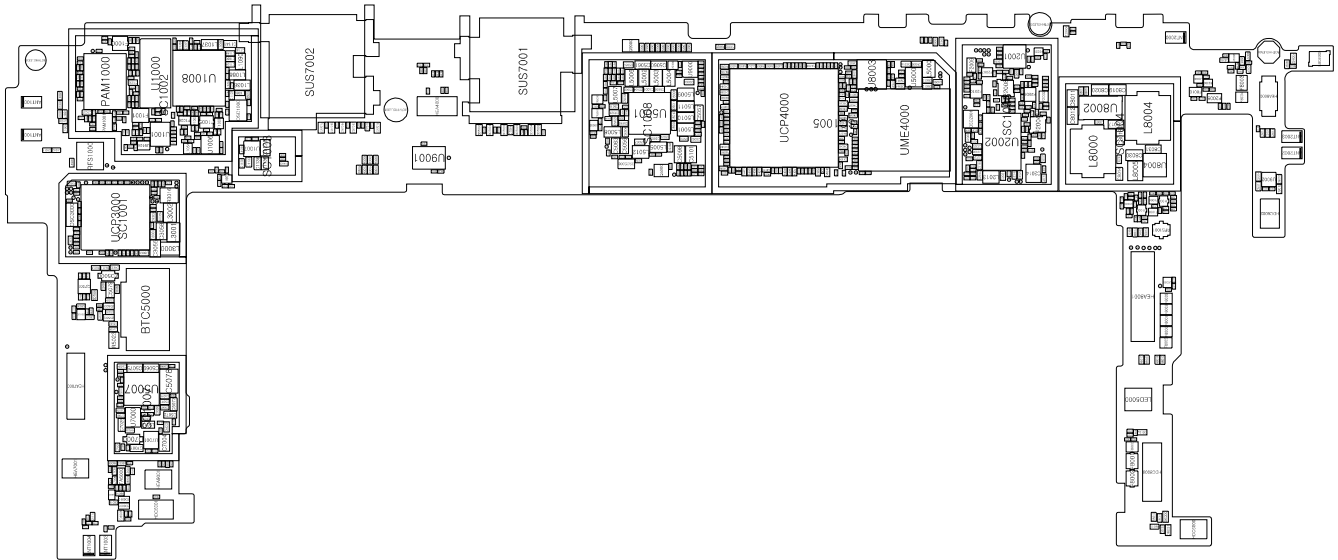
8. Level 3 Repair

8-1. Block Diagram

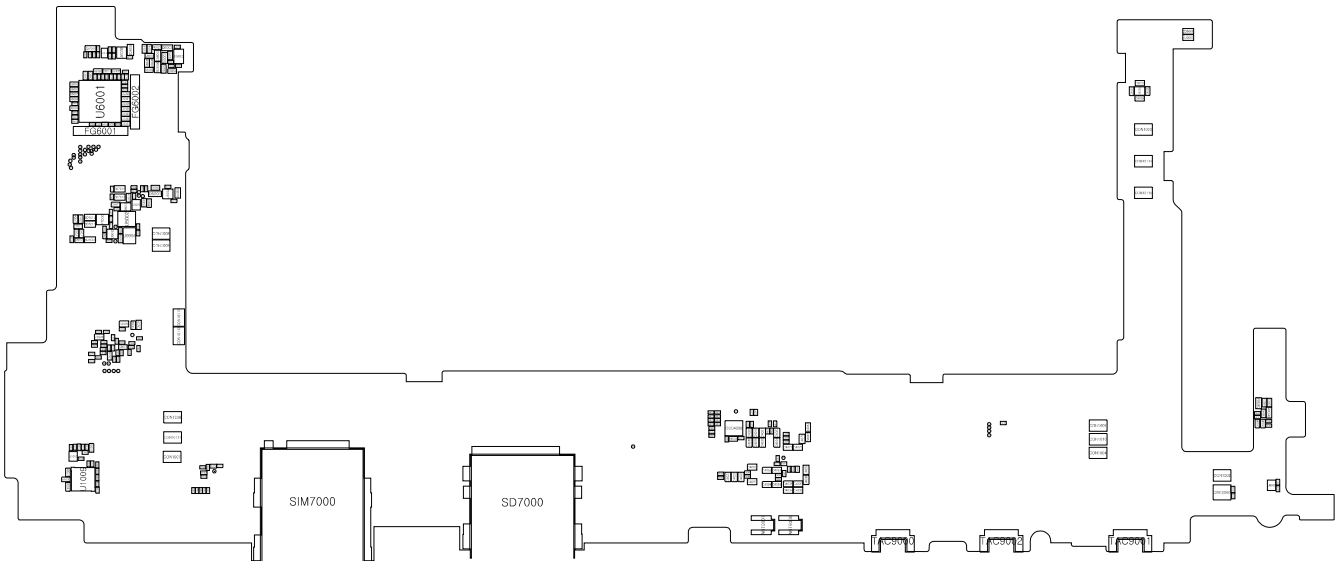


8-2. PCB Diagrams

8-2-1. Main PCB Top

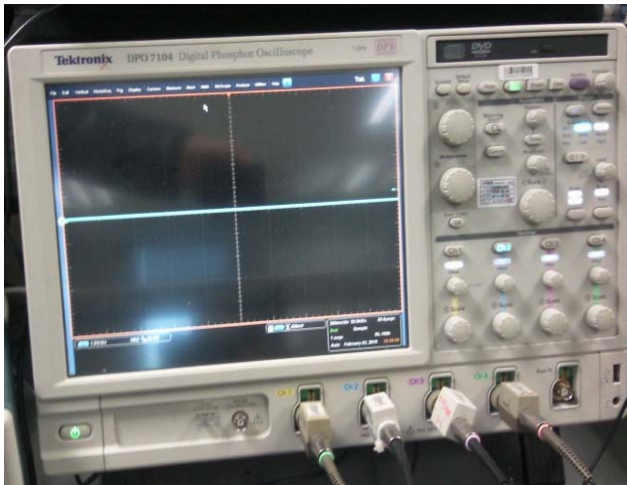


8-2-2. Bottom



8-3. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



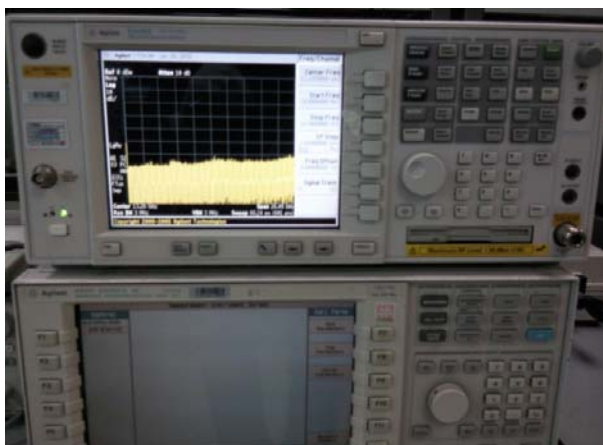
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer

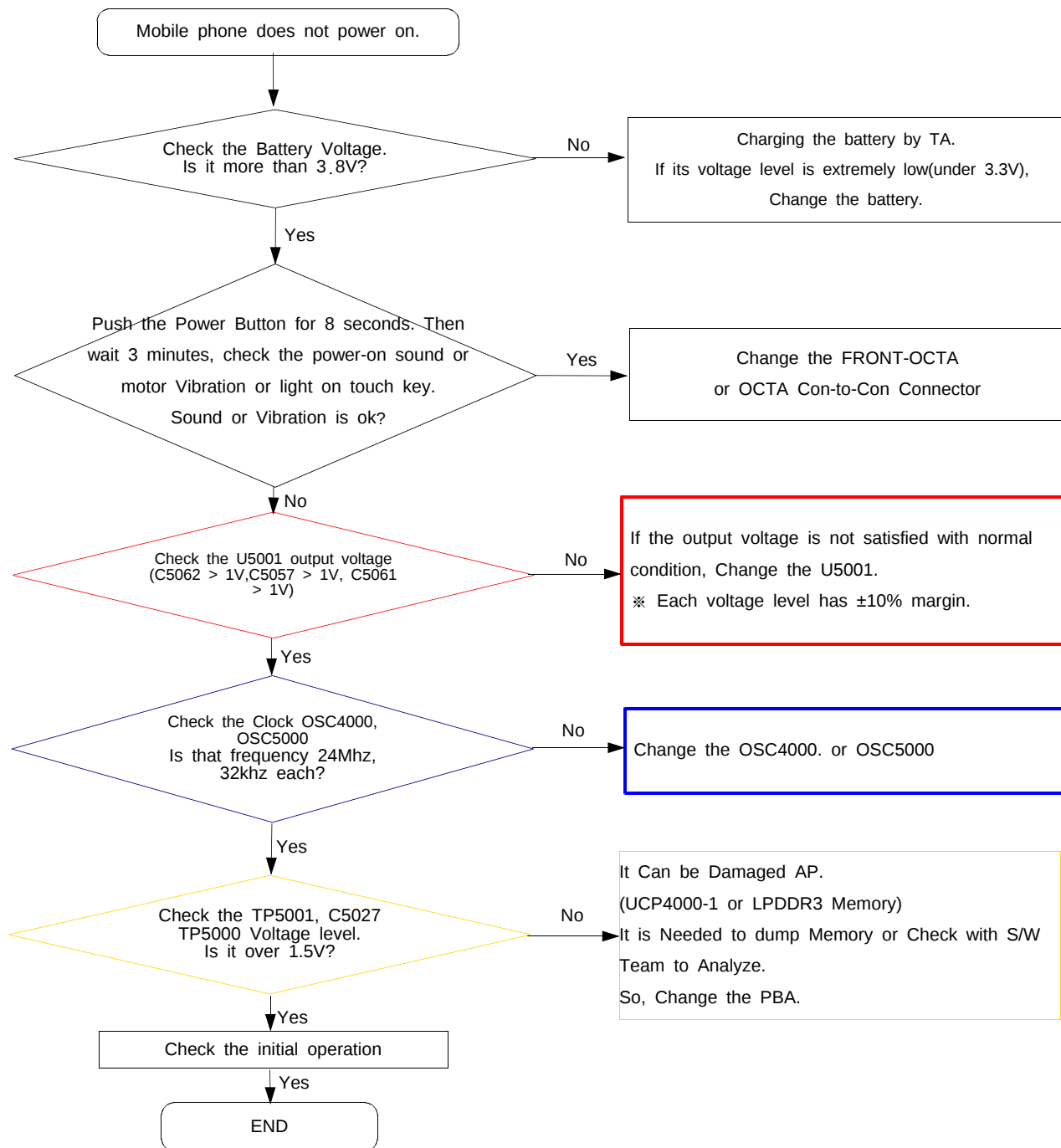


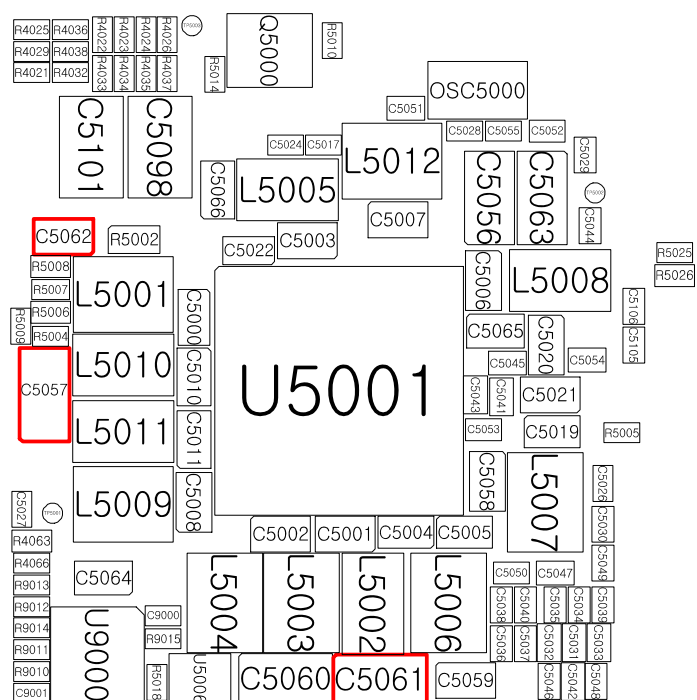
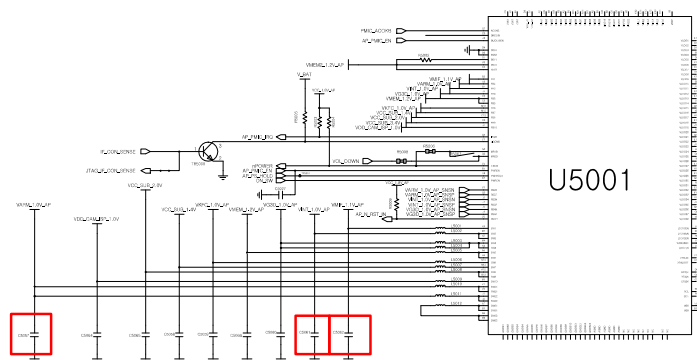
↑ 8960 & Spectrum Analyzer

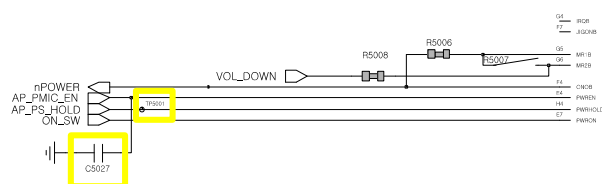
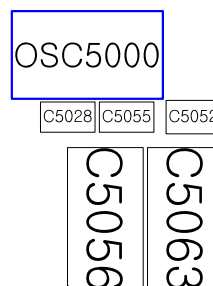
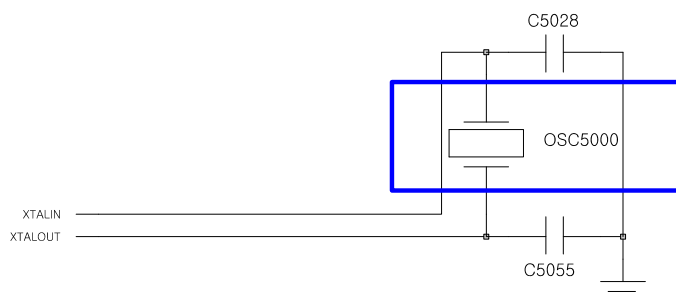
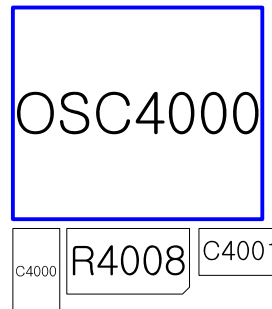
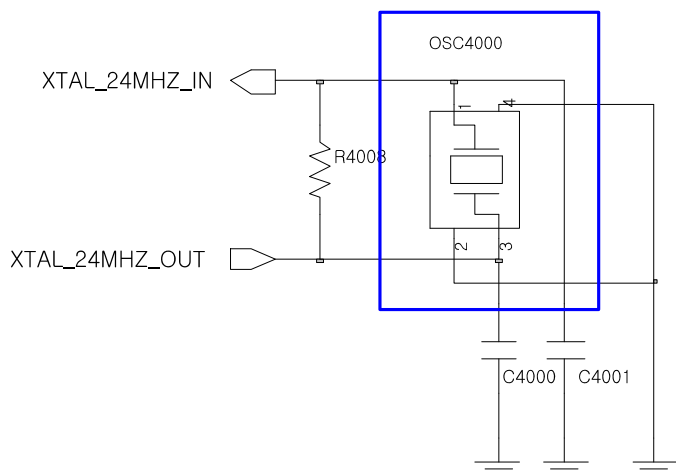


↑ Soldering iron

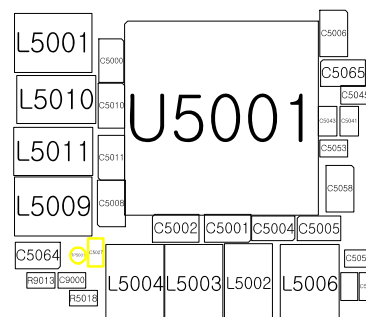
8-3-1. Power On

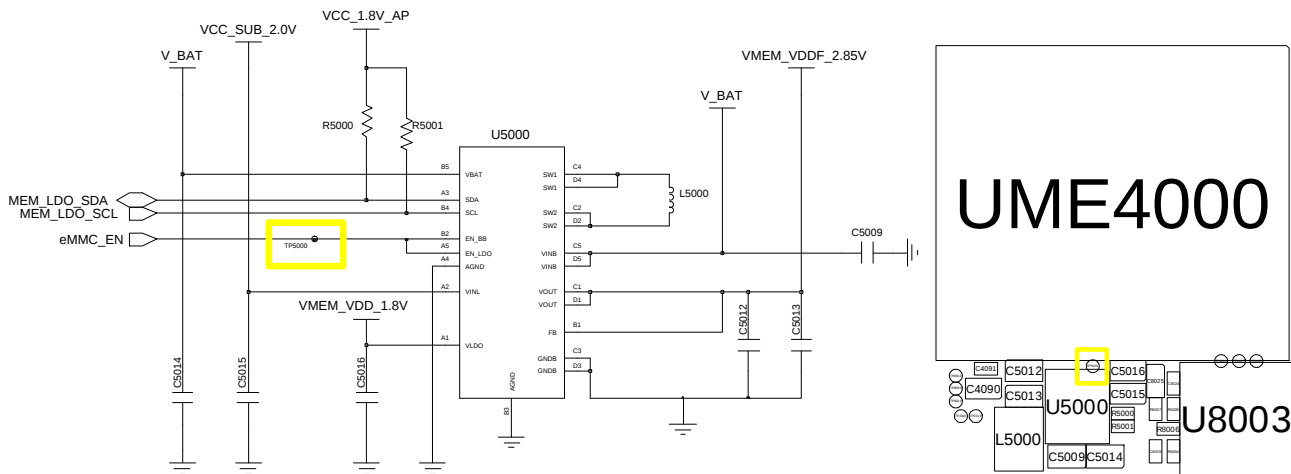




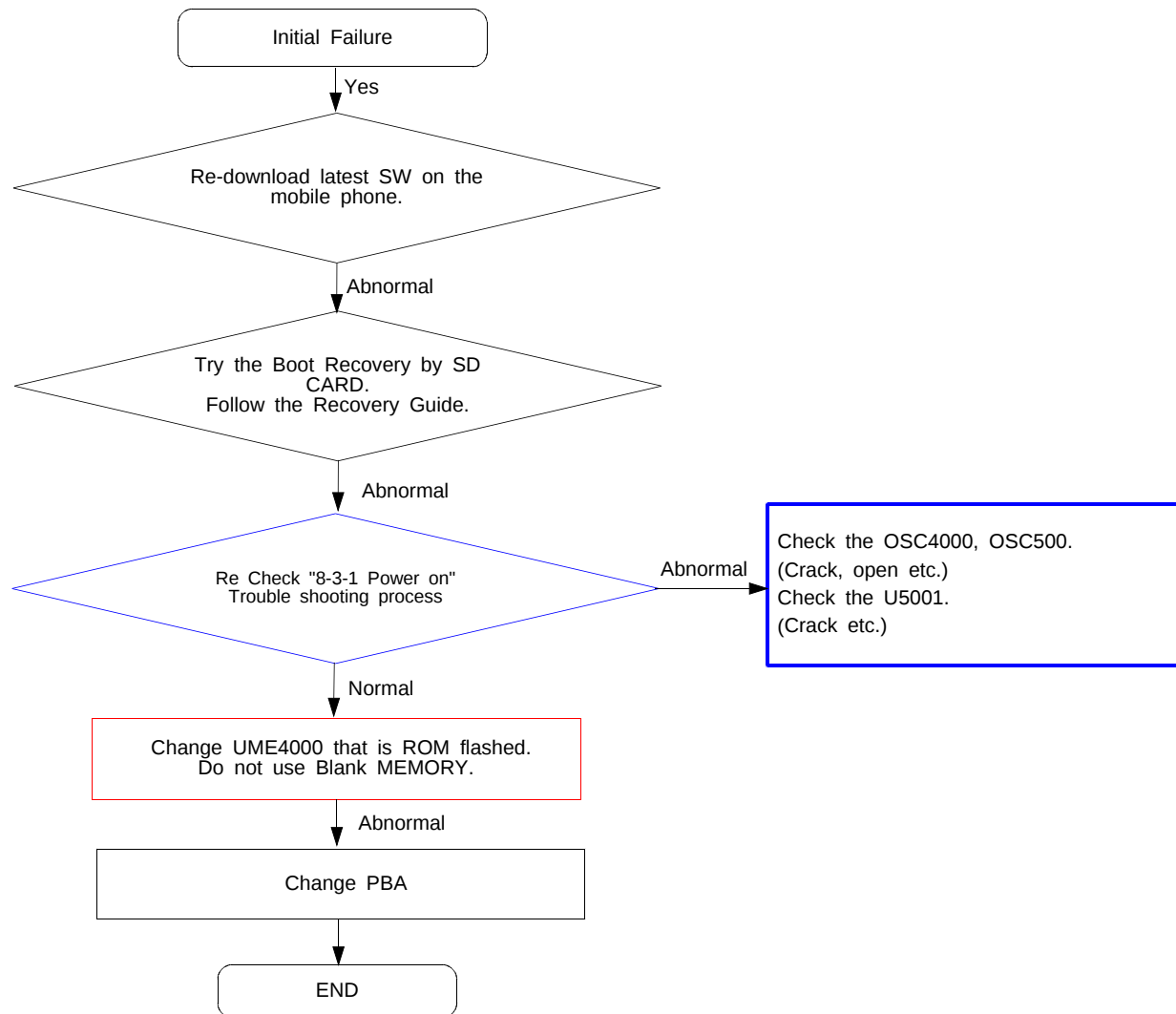


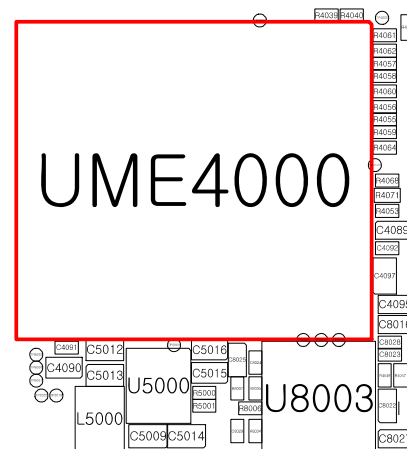
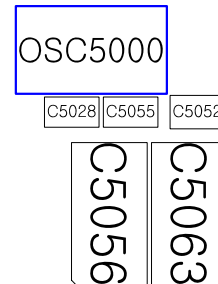
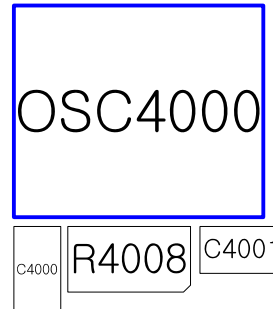
U5001



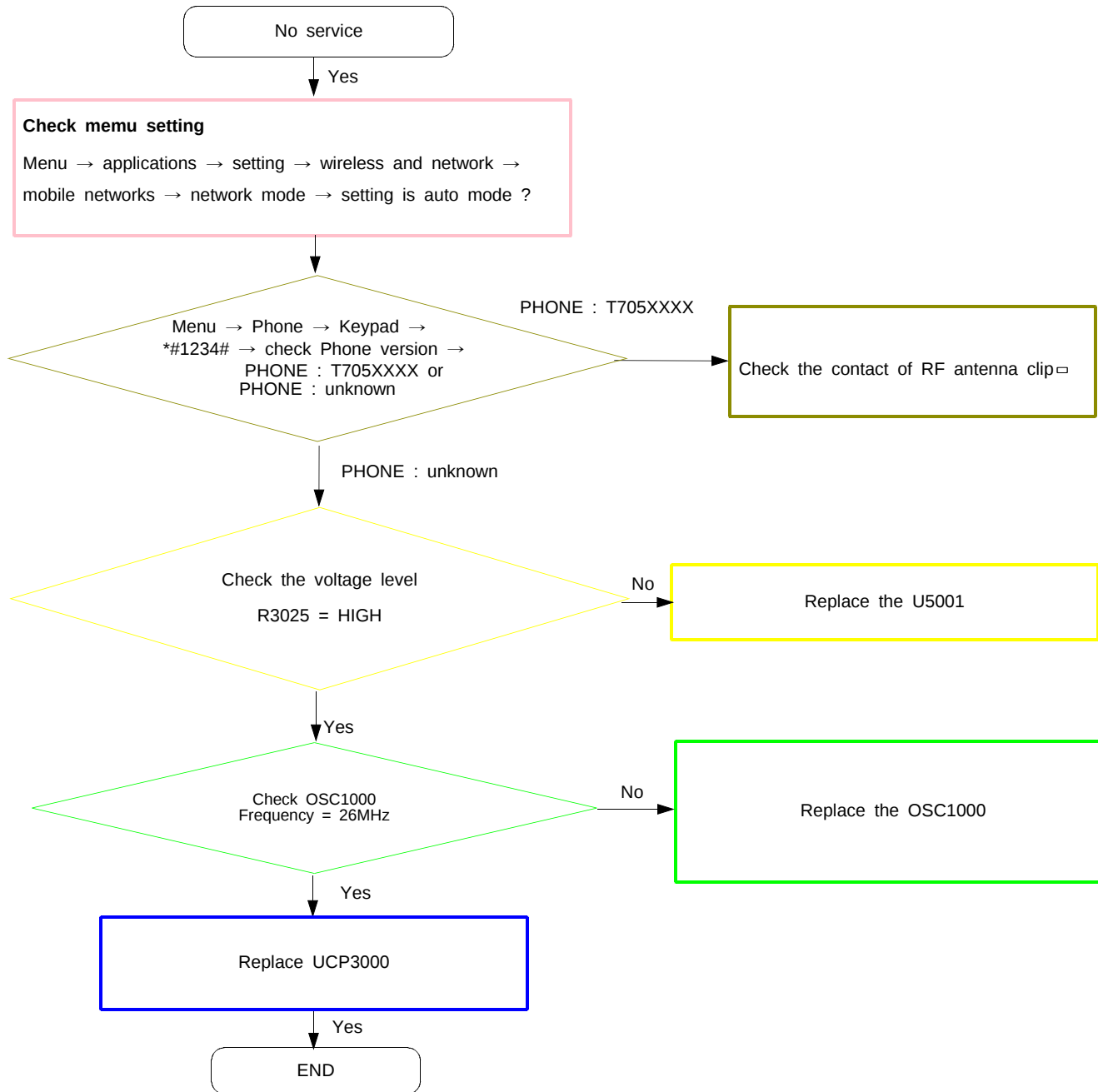


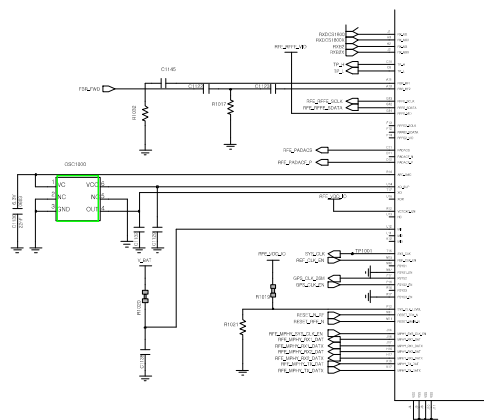
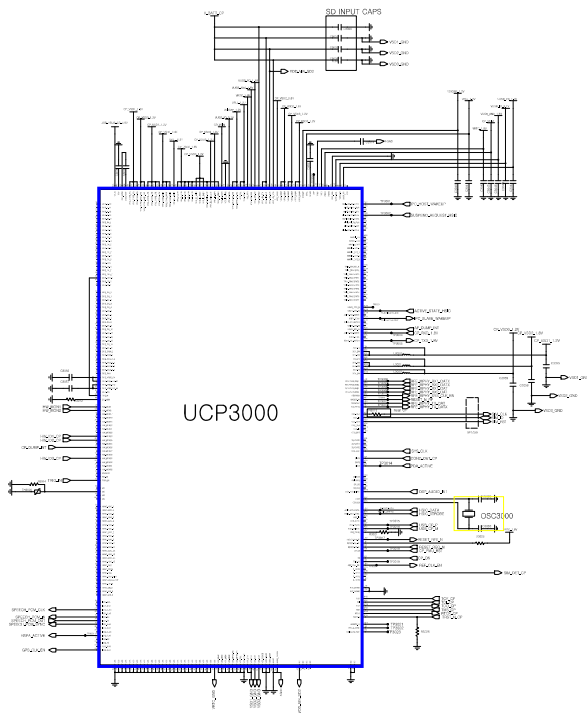
8-3-2. Initial



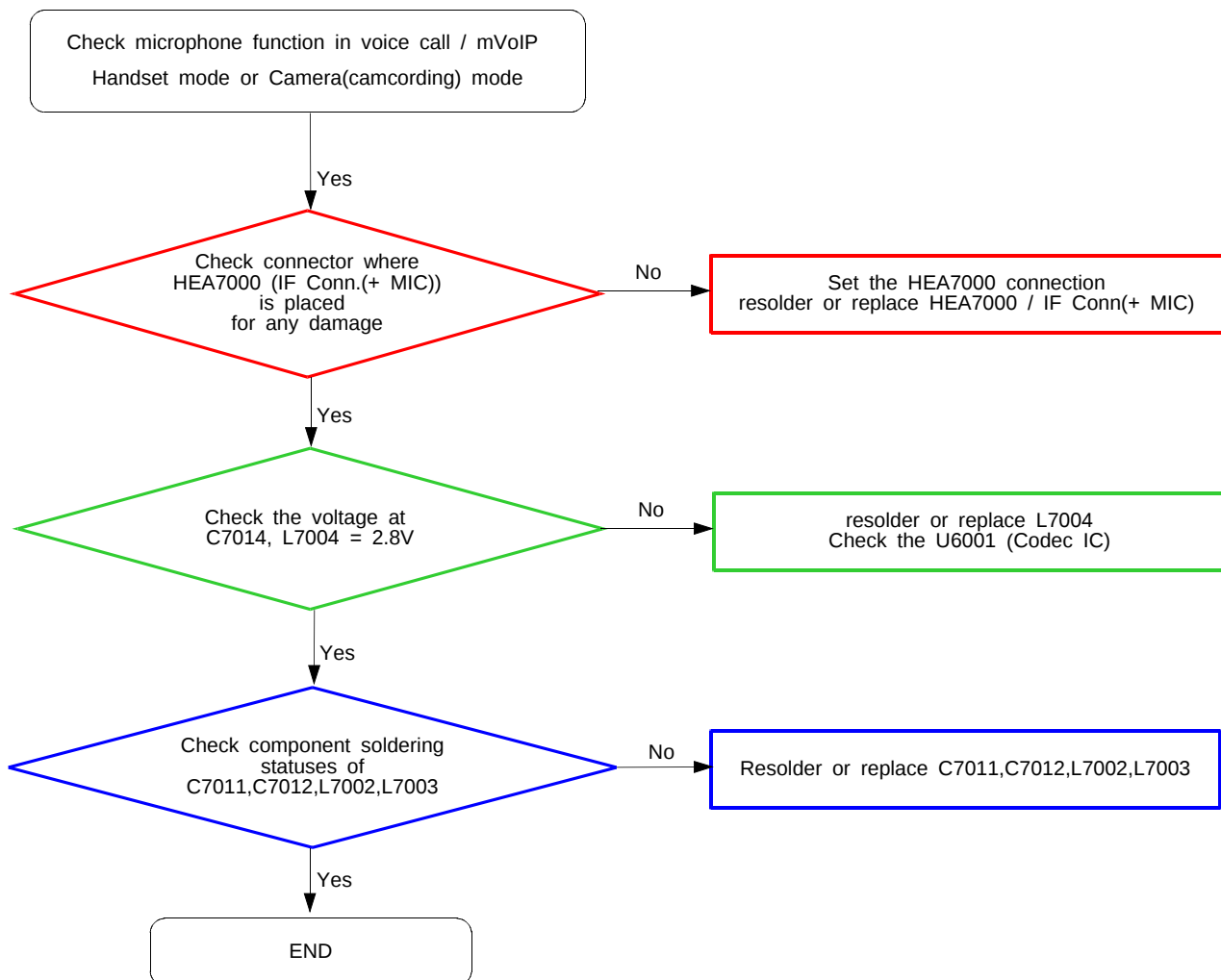


8-3-3. No Service

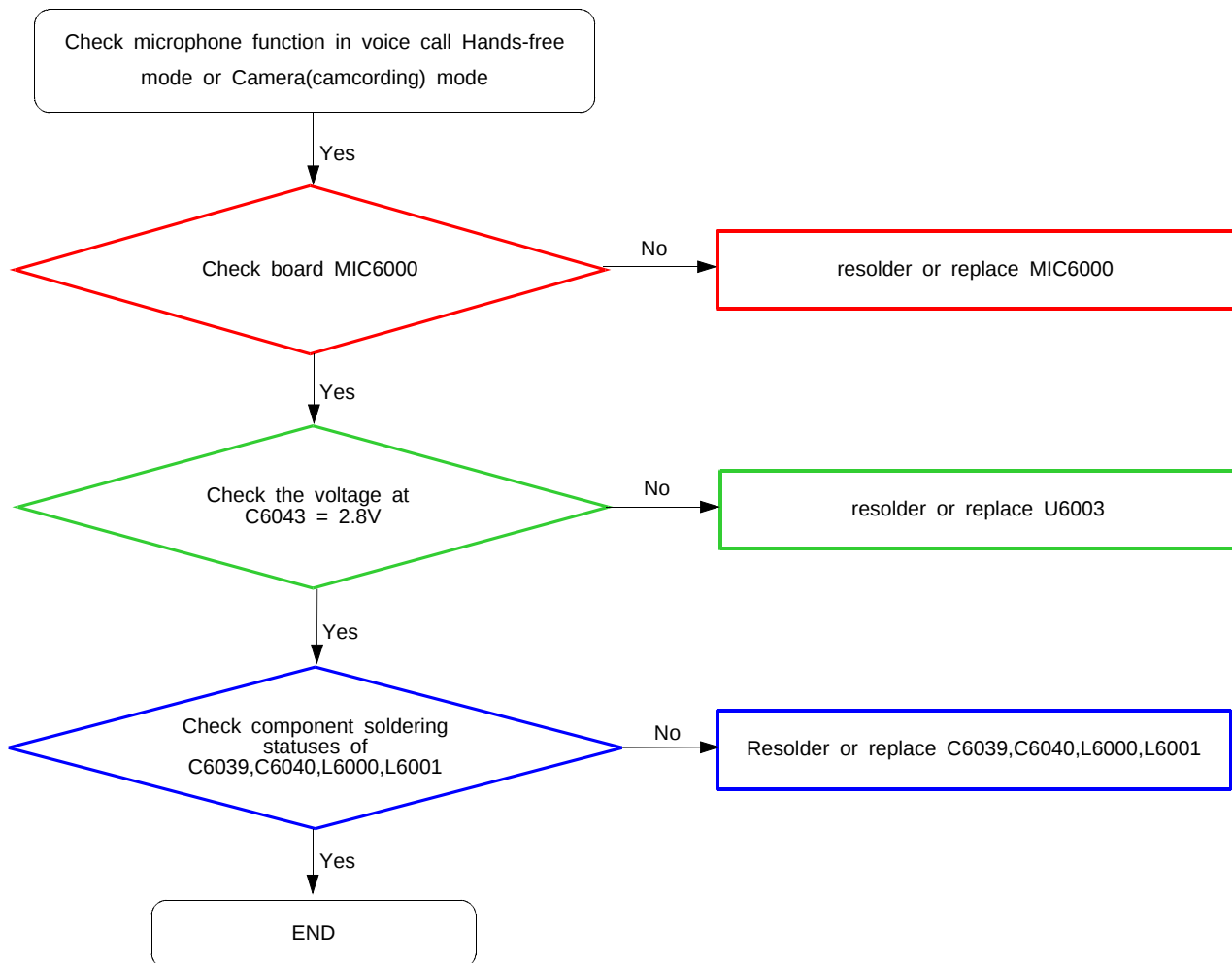


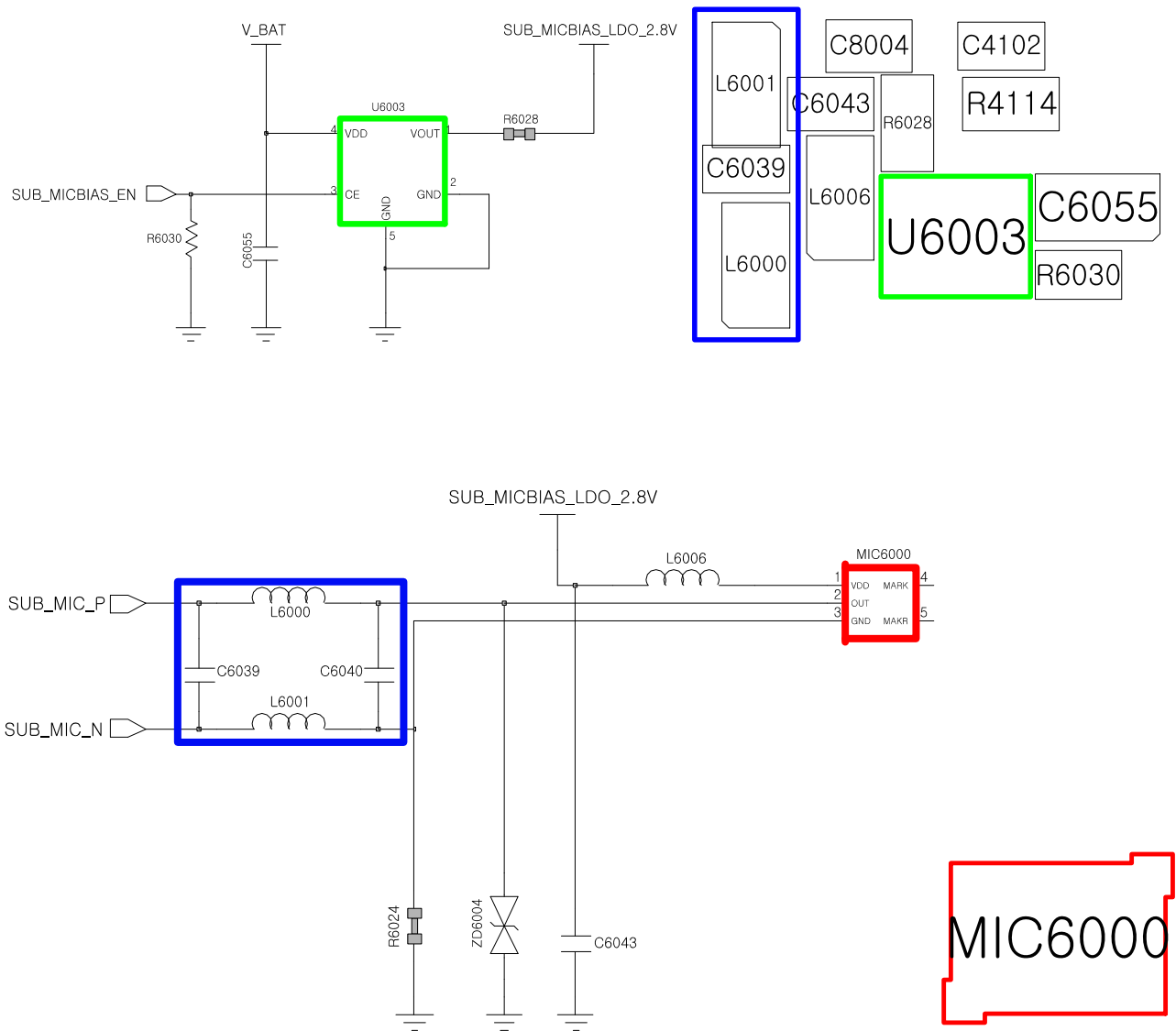


8-3-4-1 Main Microphone Part

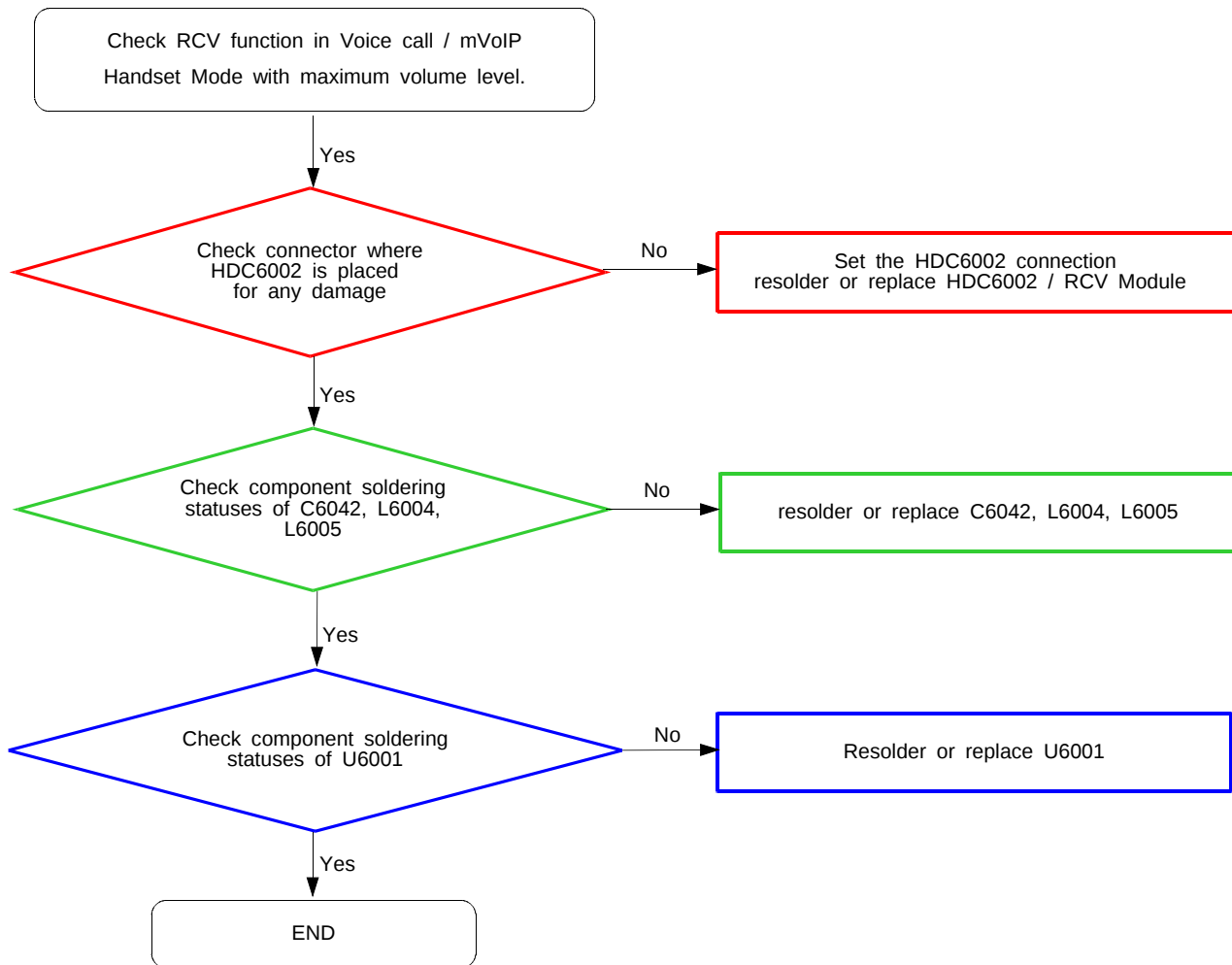


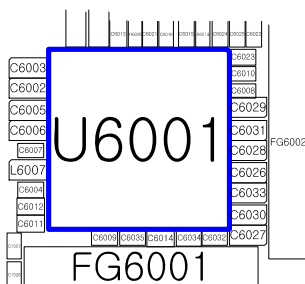
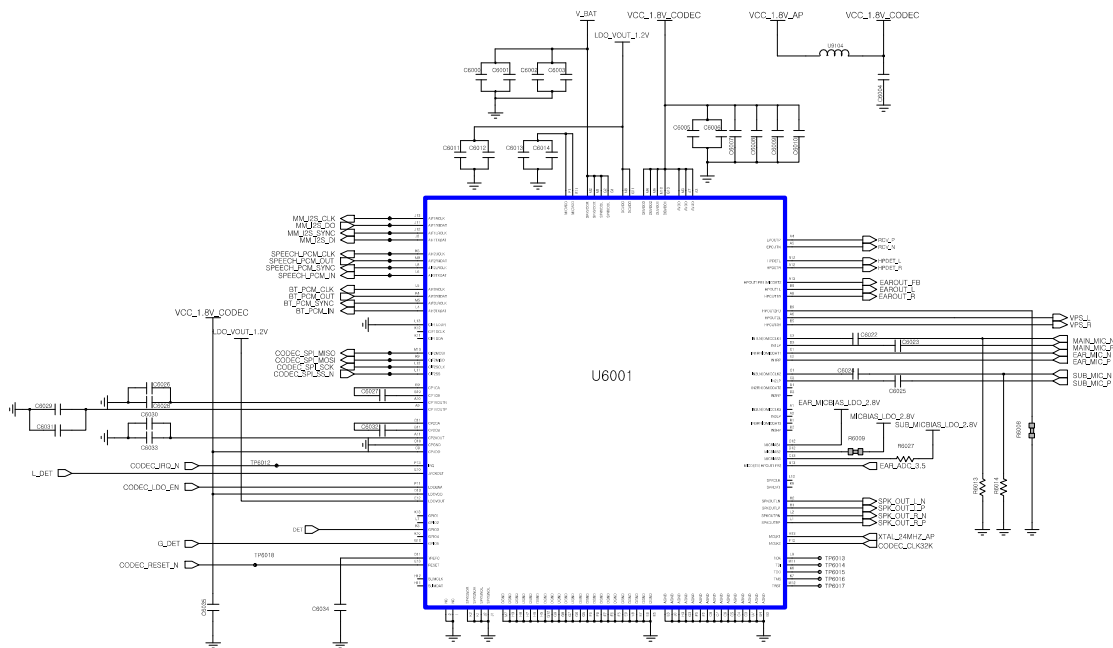
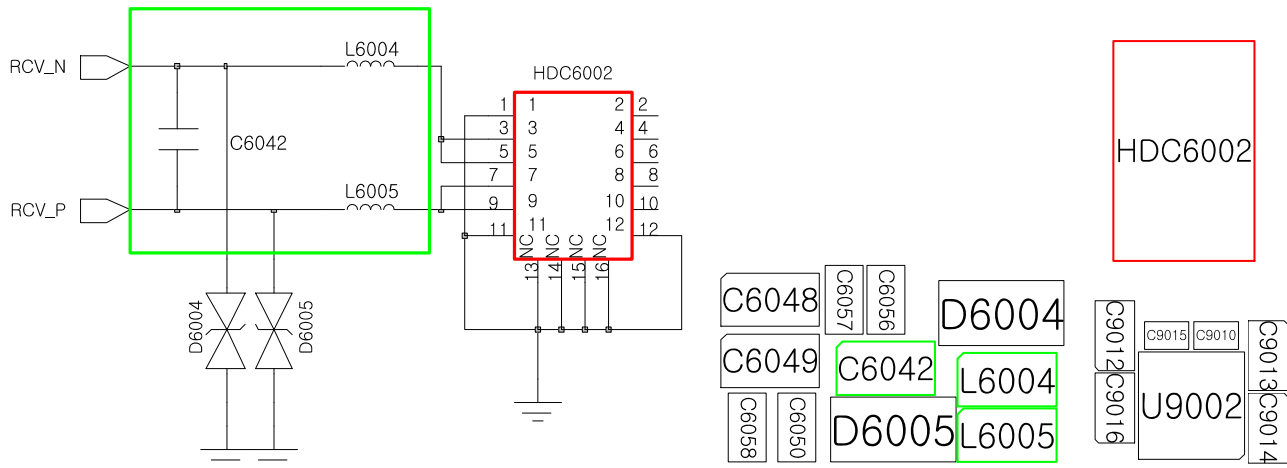
8-3-4-2 SUB Microphone Part



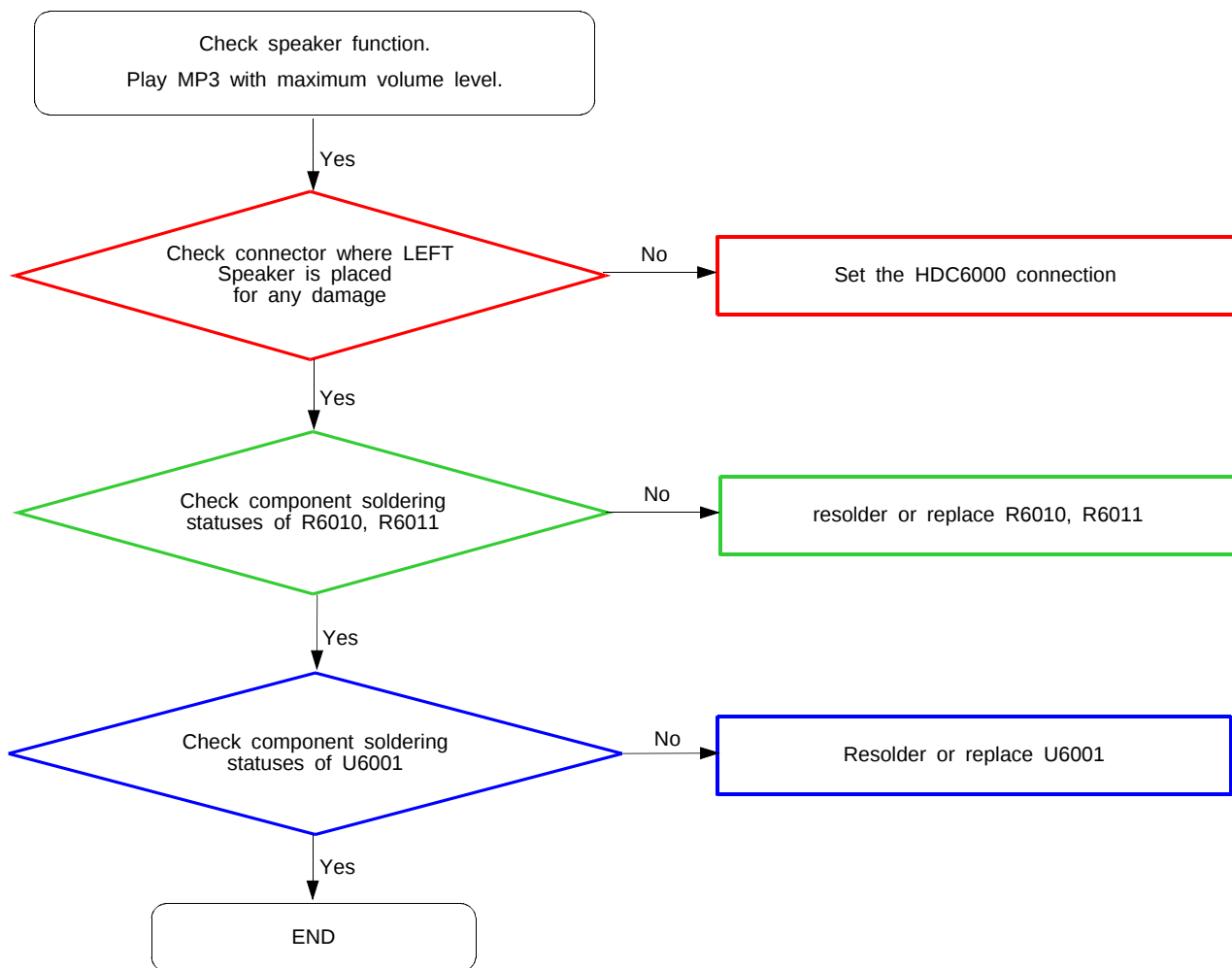


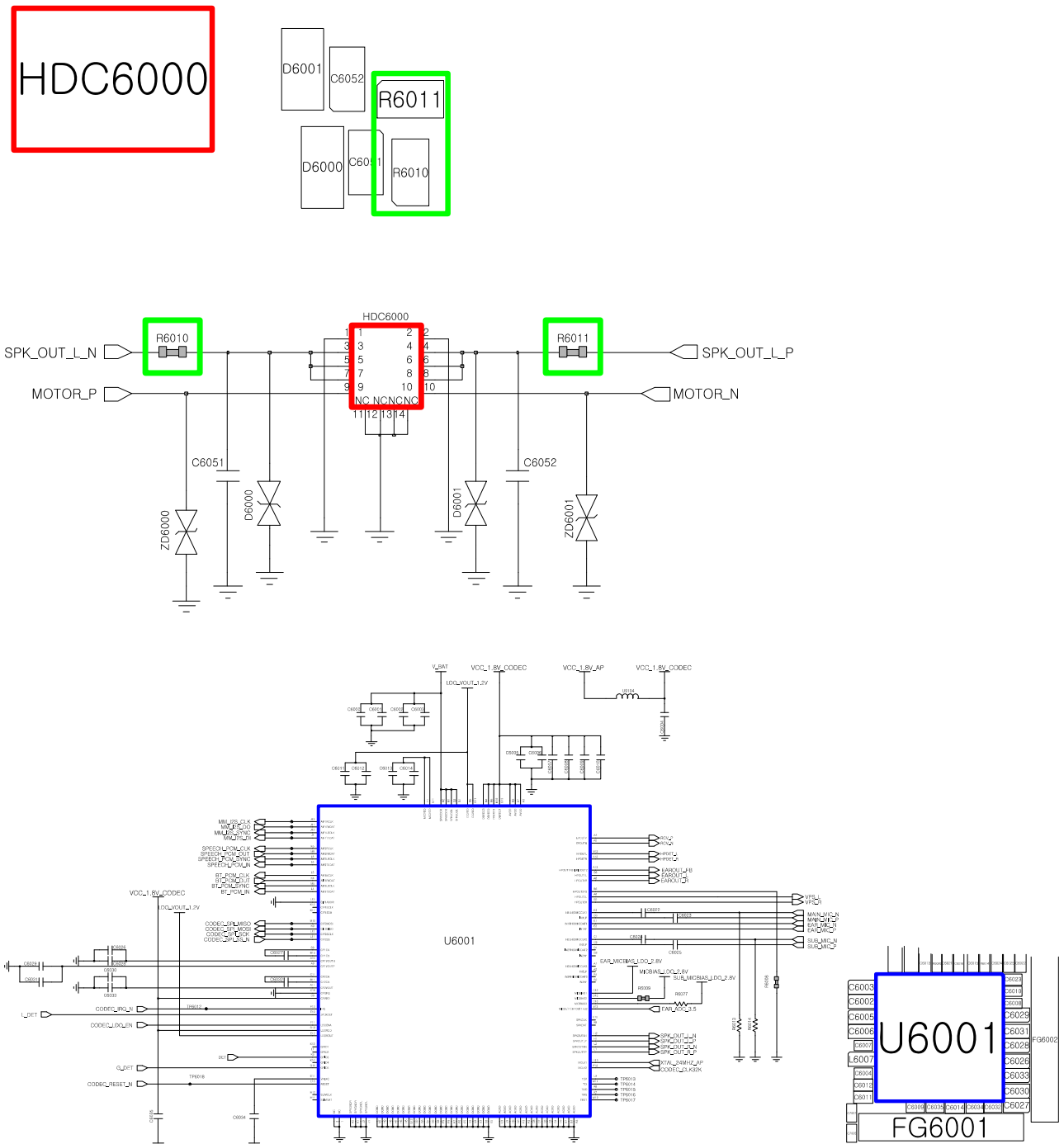
8-3-4-3. RCV Part



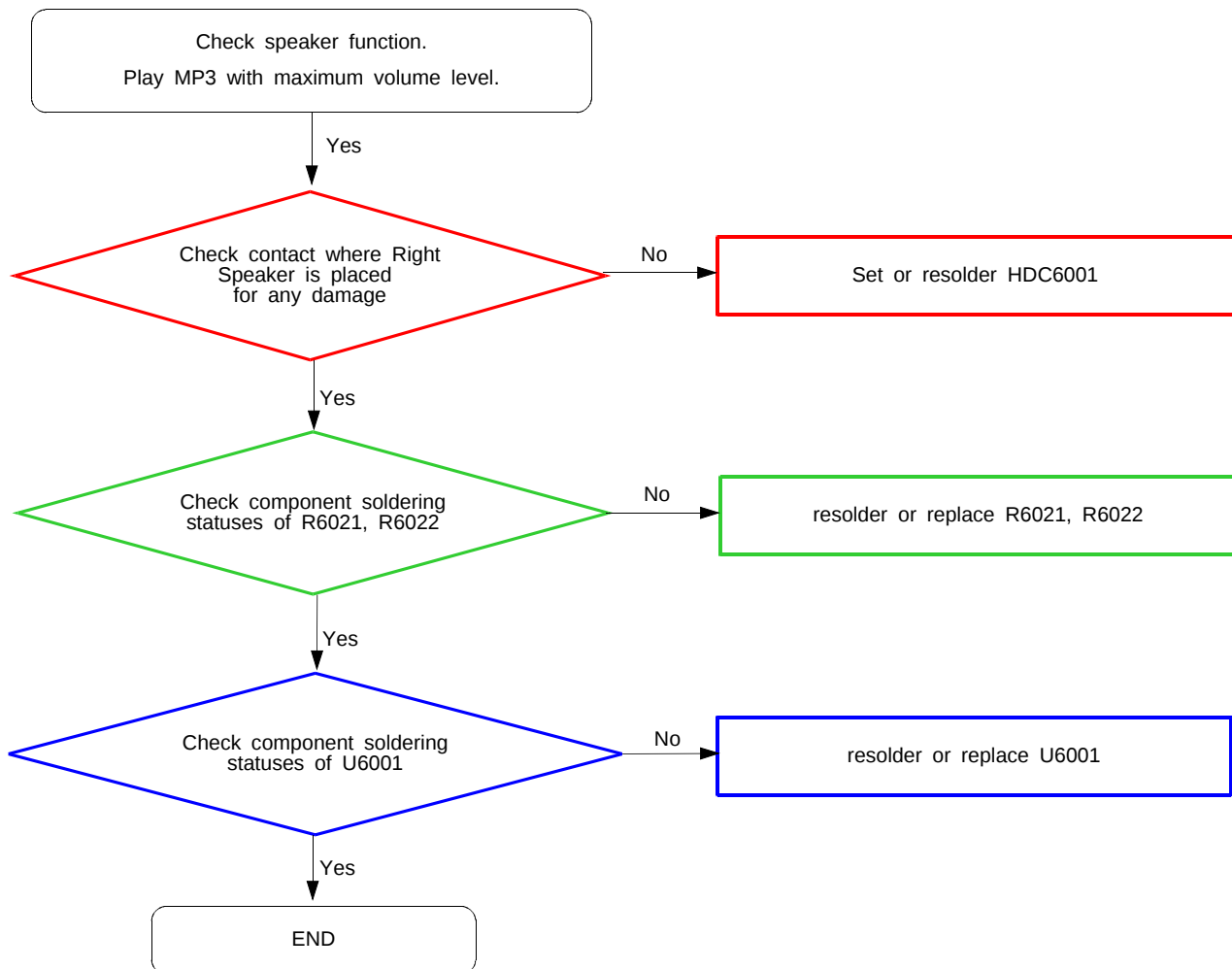


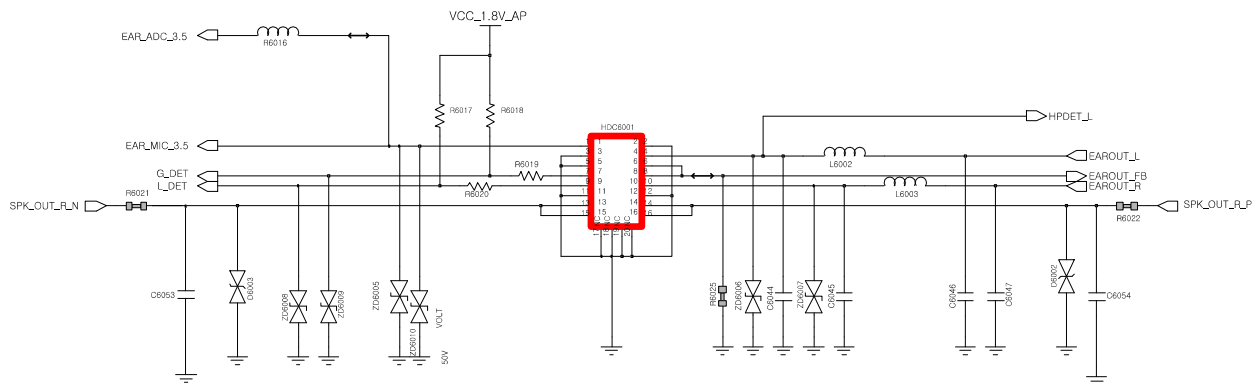
8-3-4-4. Speaker Part (LEFT)



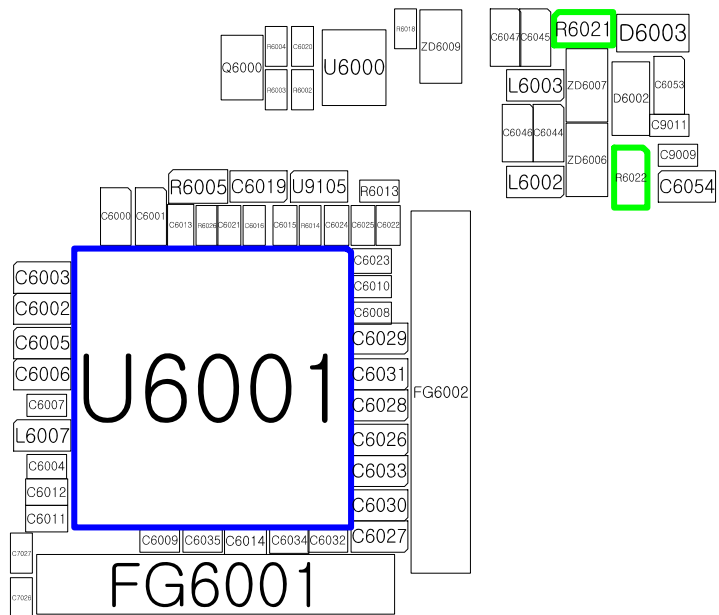
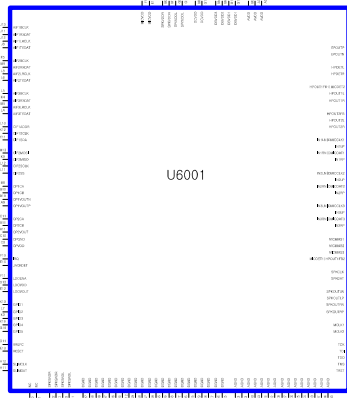


8-3-4-5. Speaker Part (RIGHT)

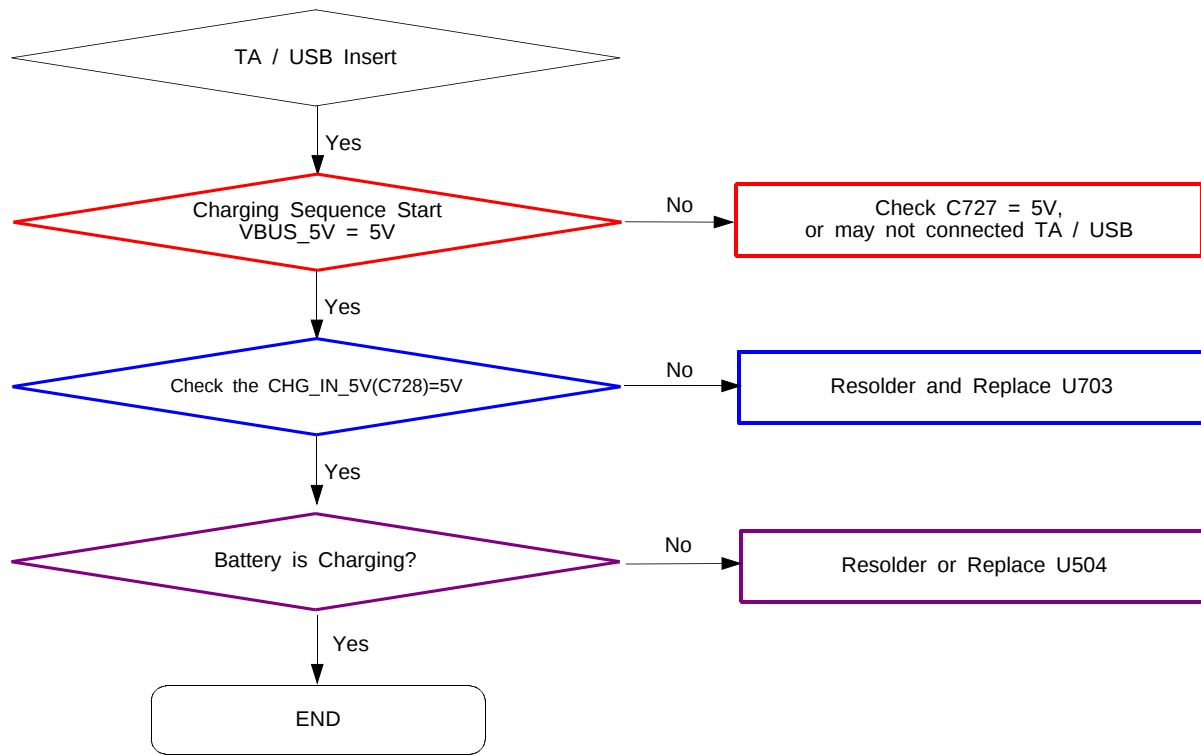


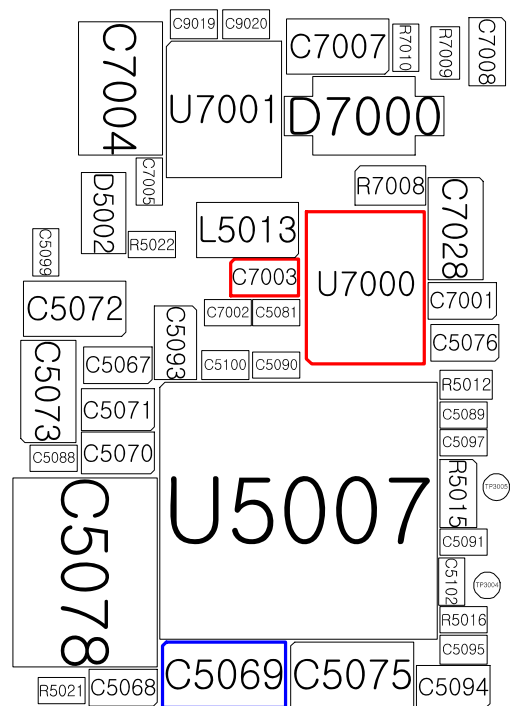
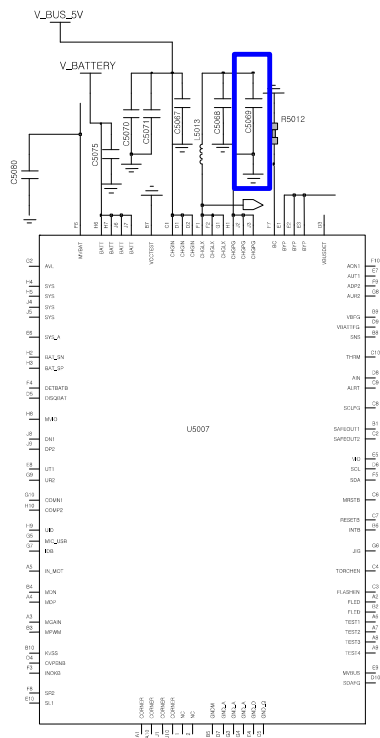
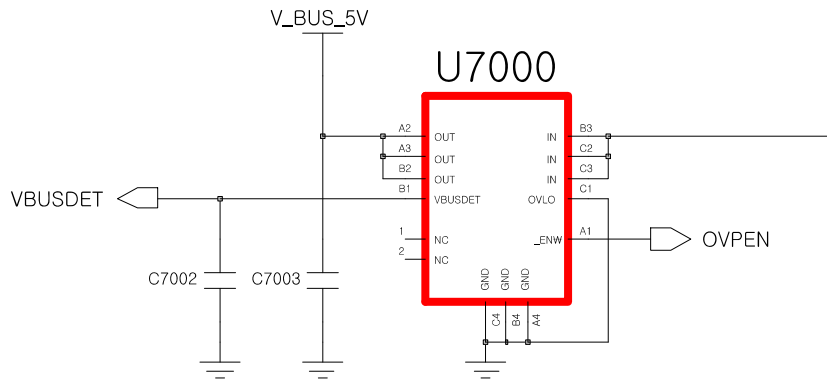


HDC6001

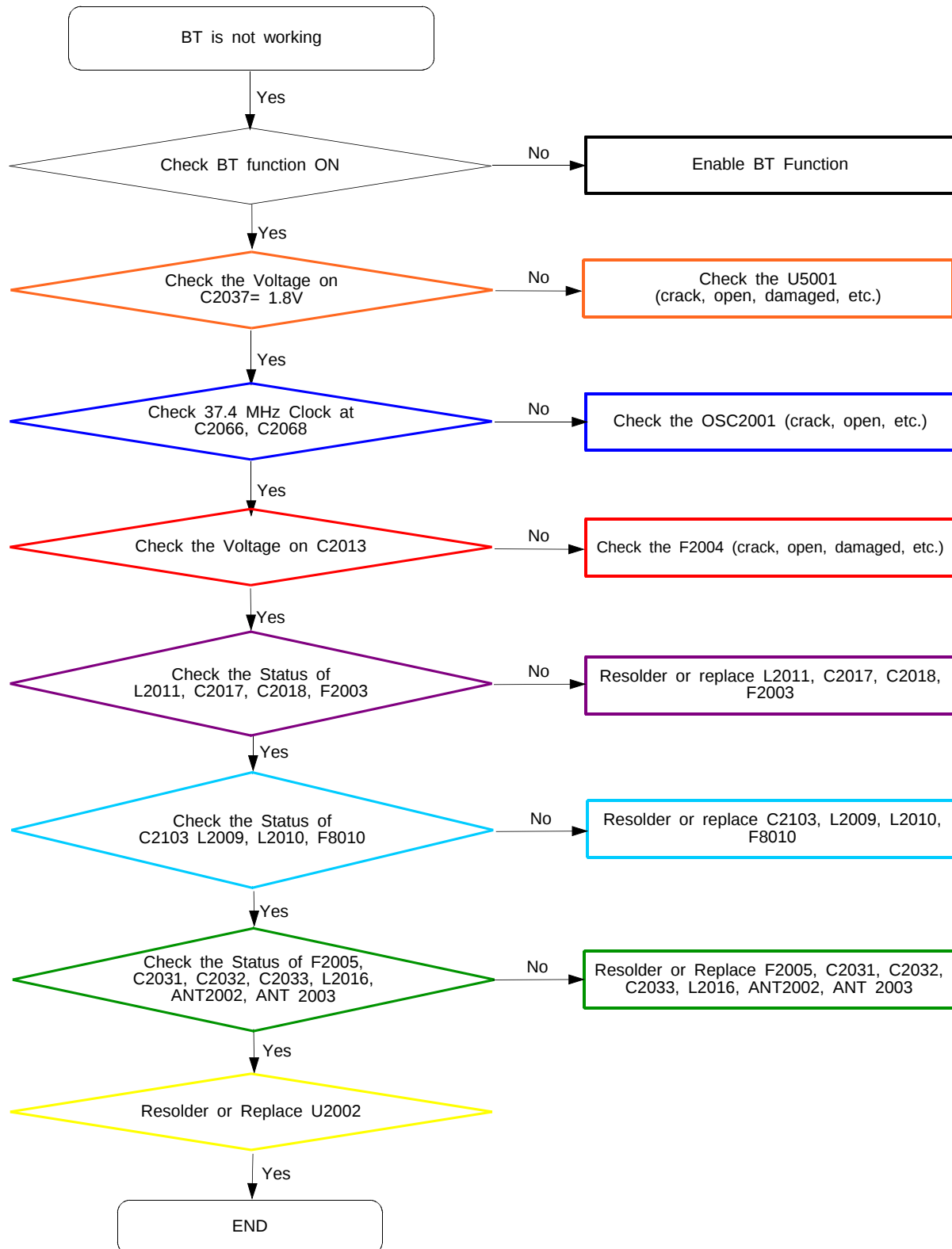


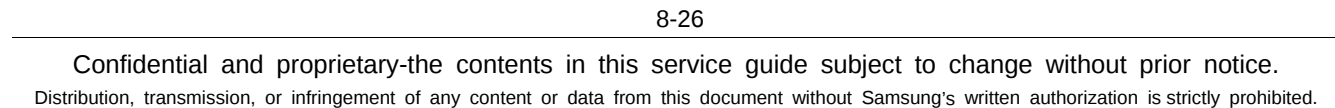
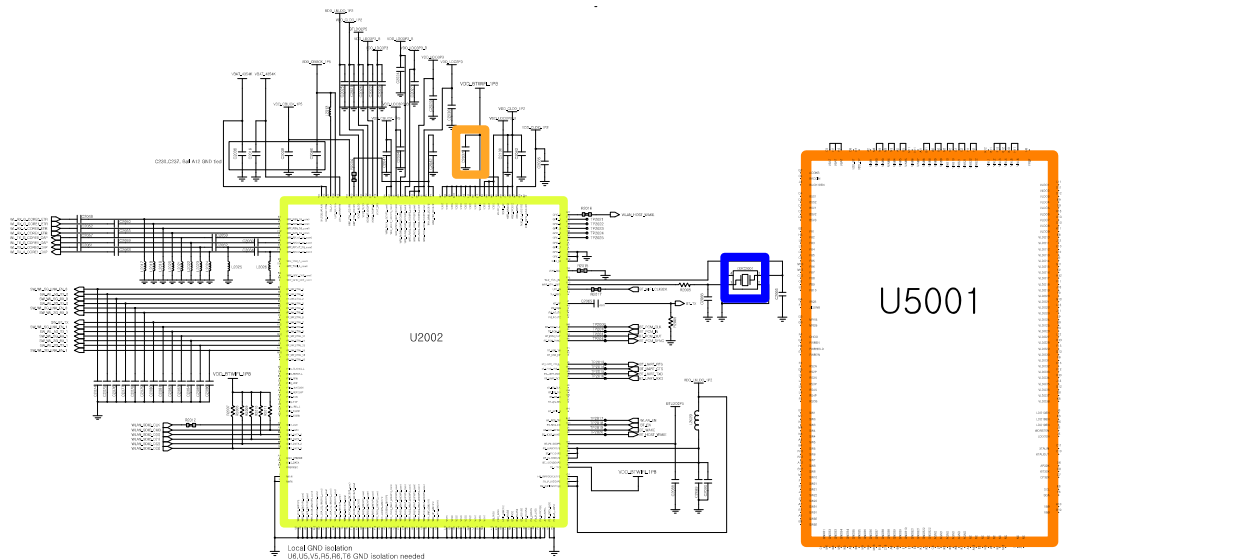
8-3-5. Charging Part



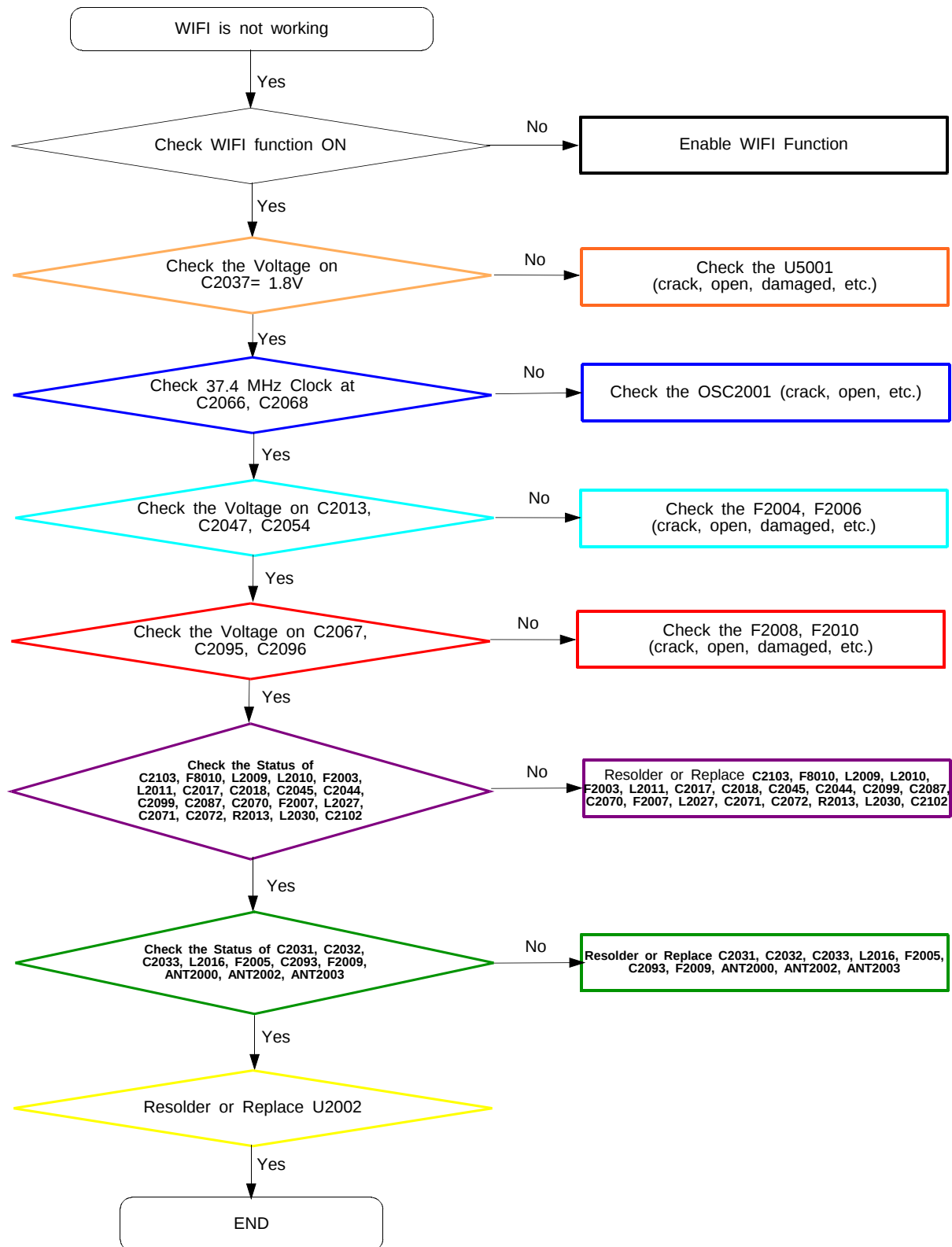


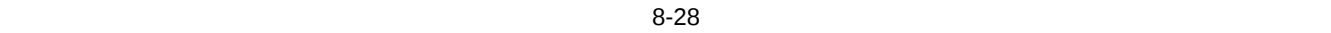
8-3-6. BT Part

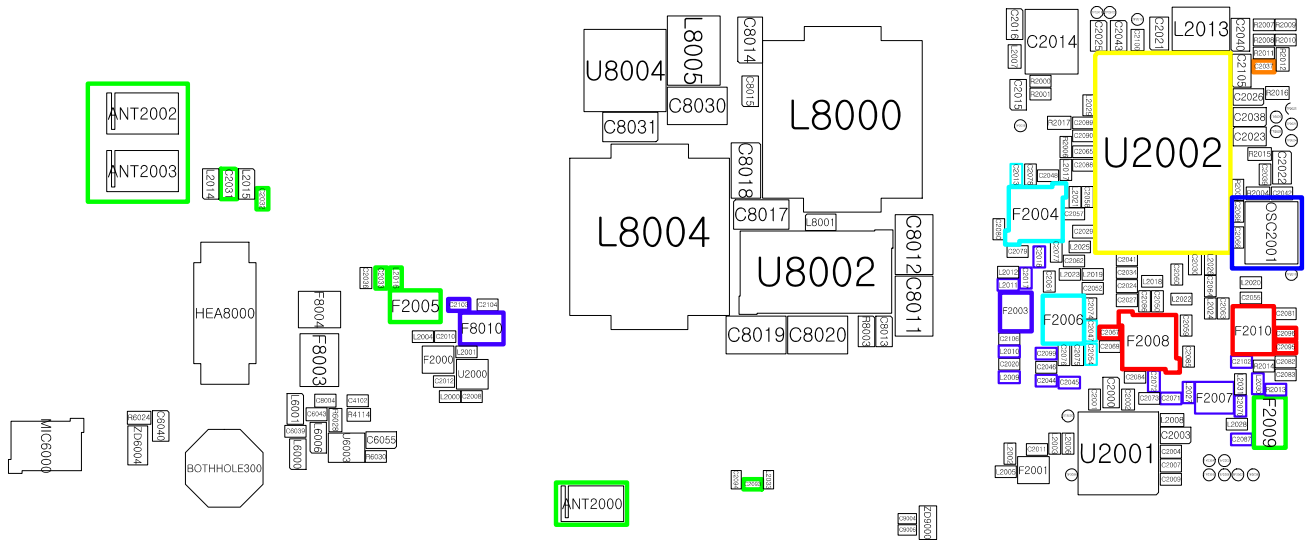




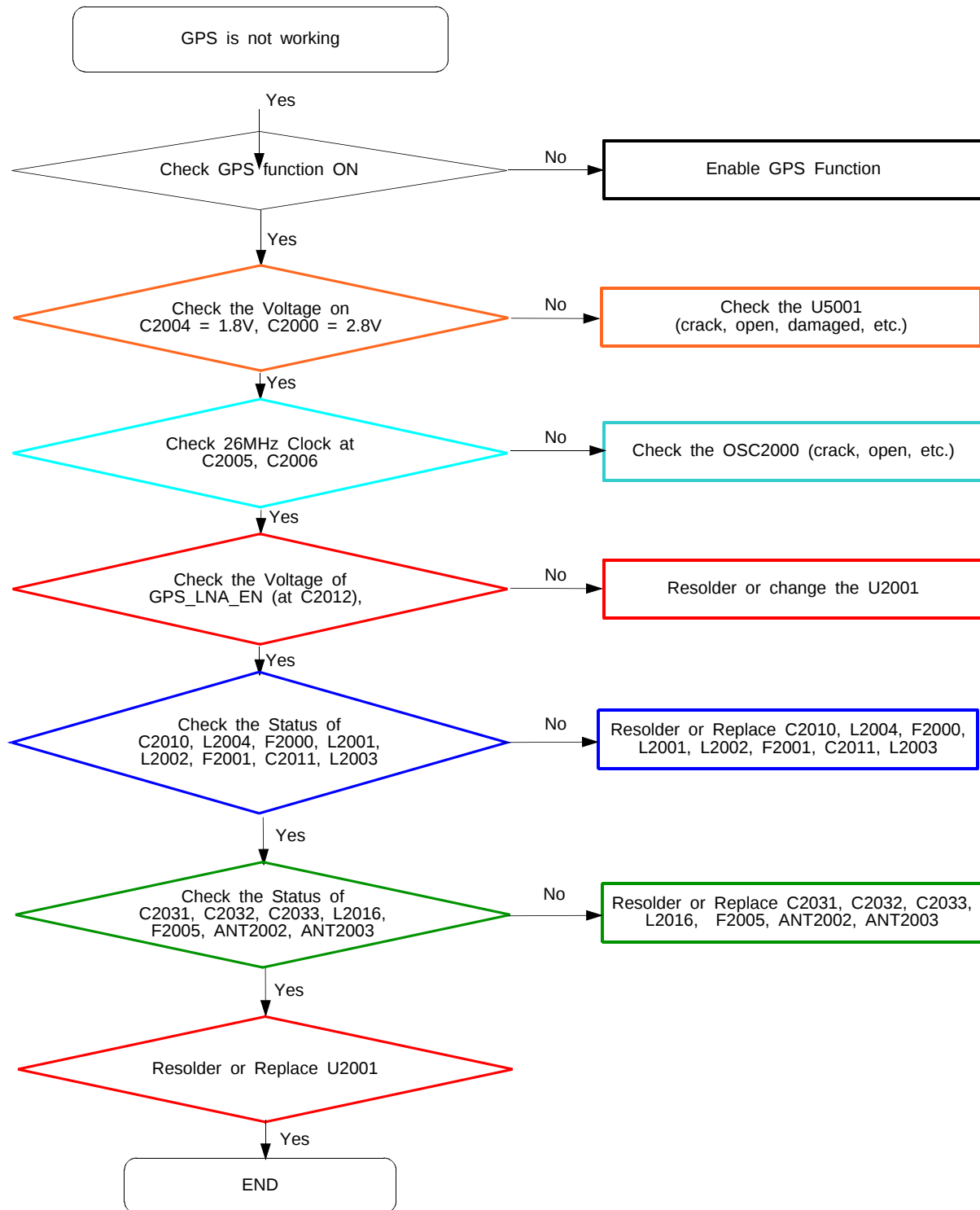
8-3-7. WIFI Part



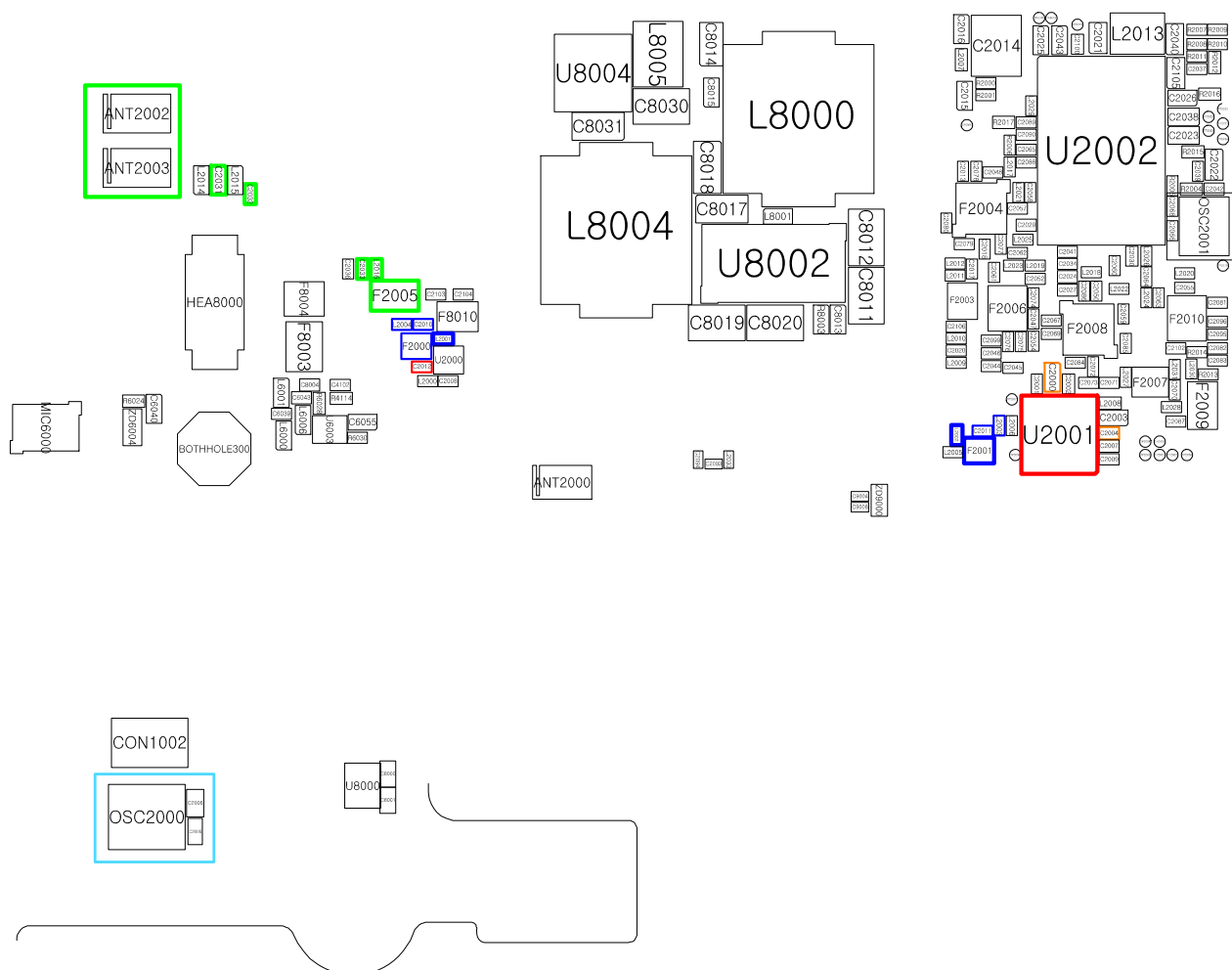




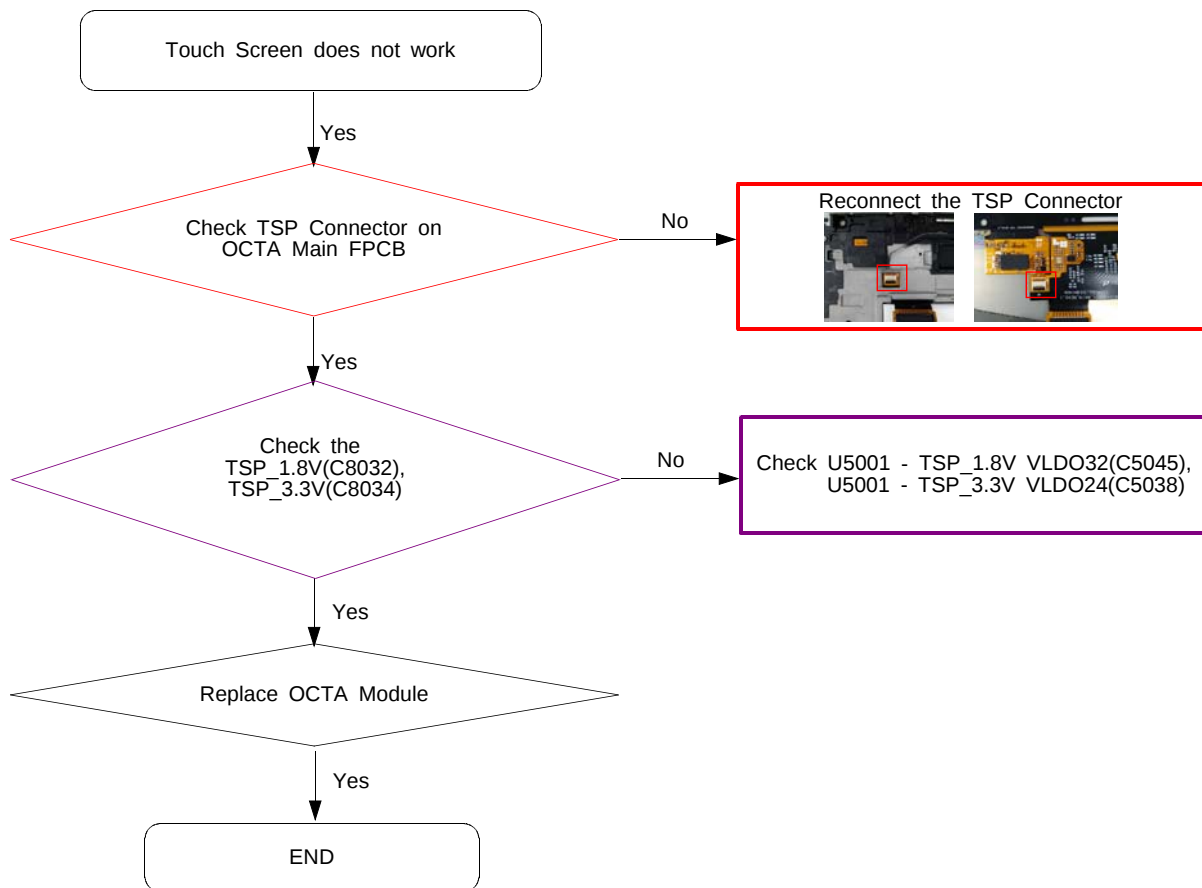
8-3-8. GPS Part

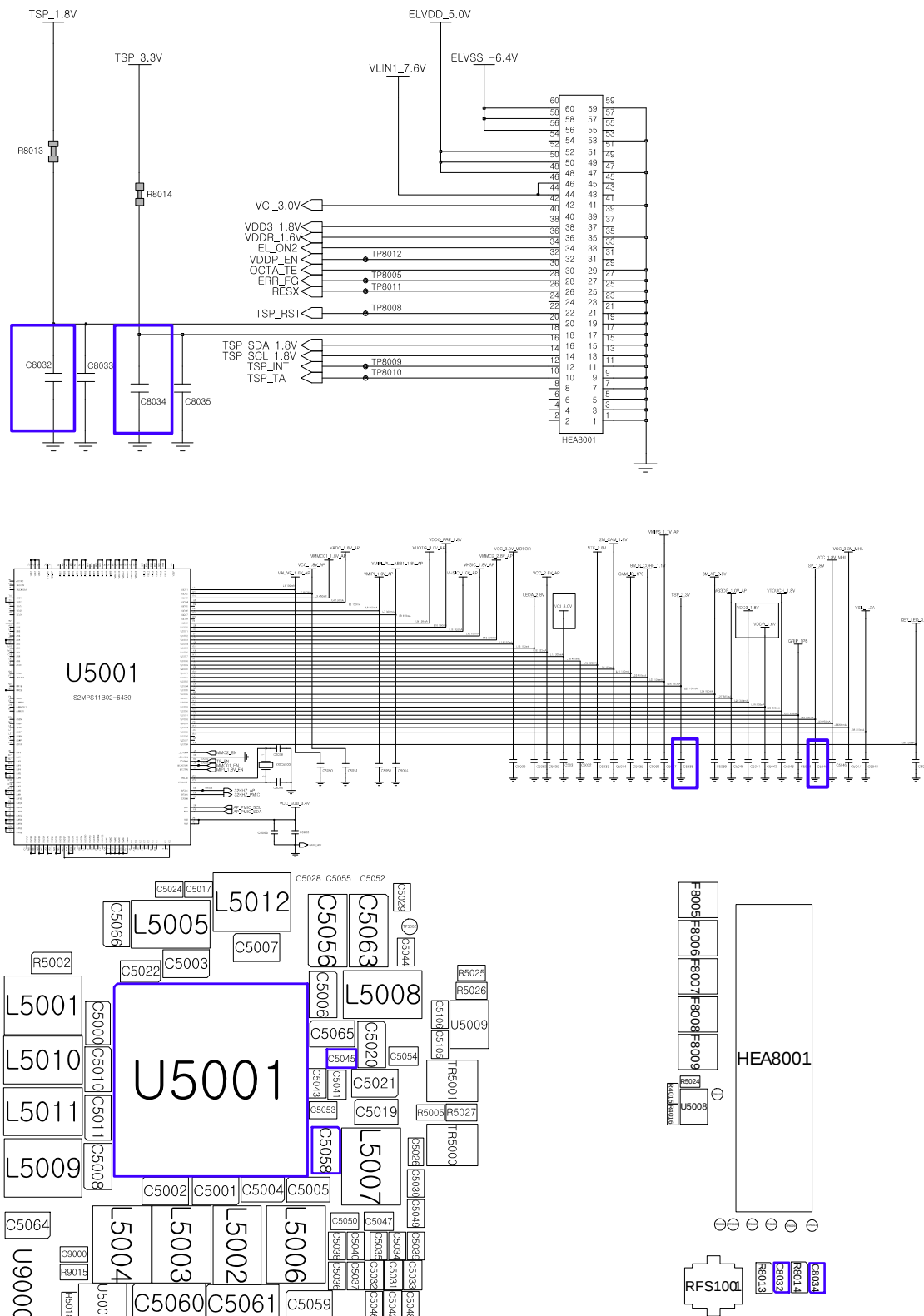




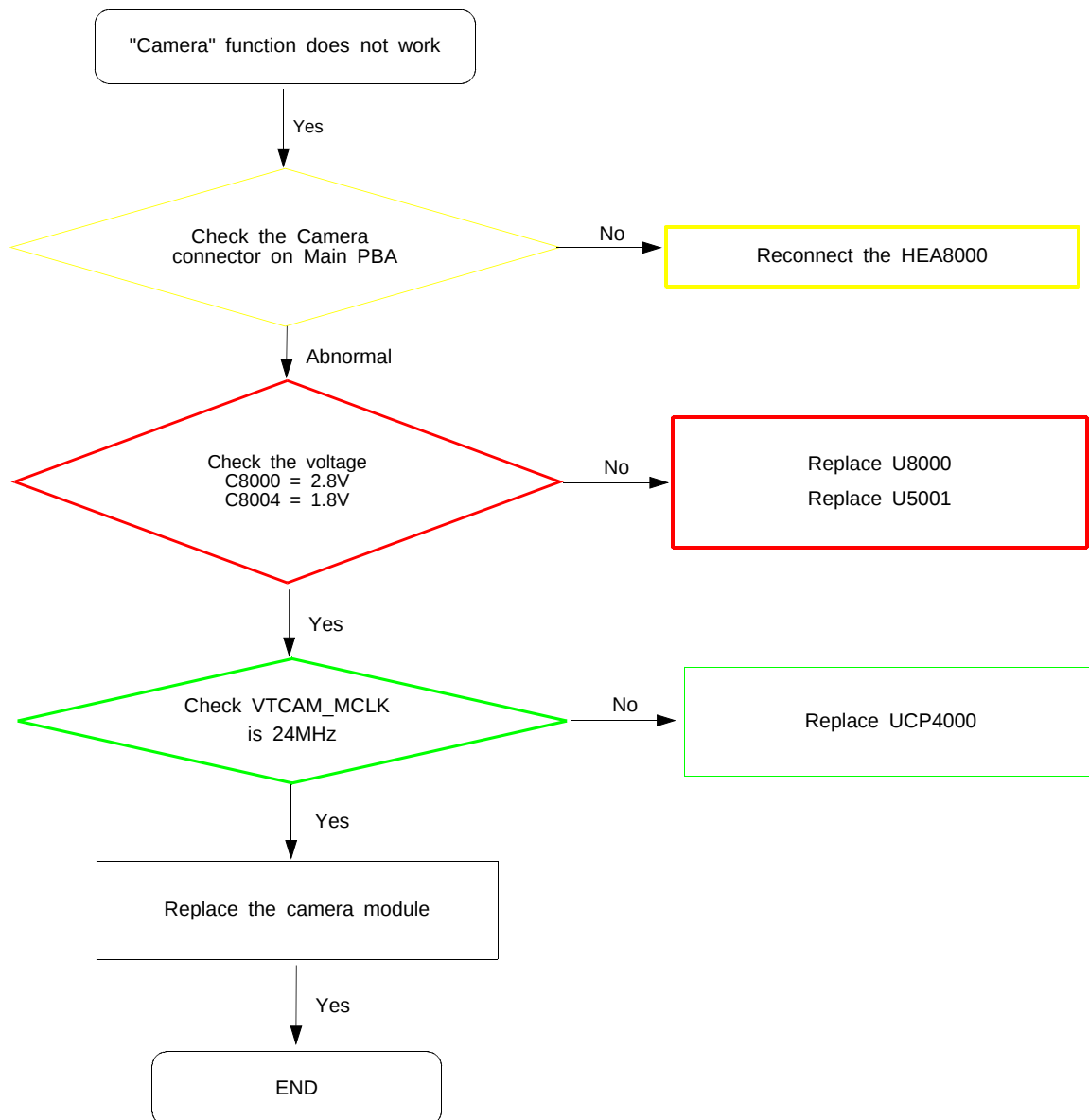


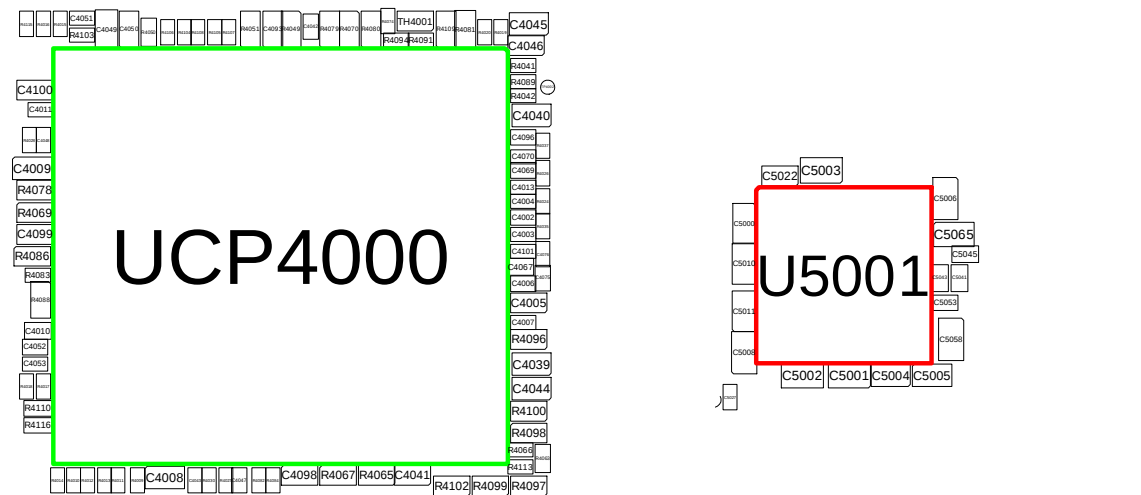
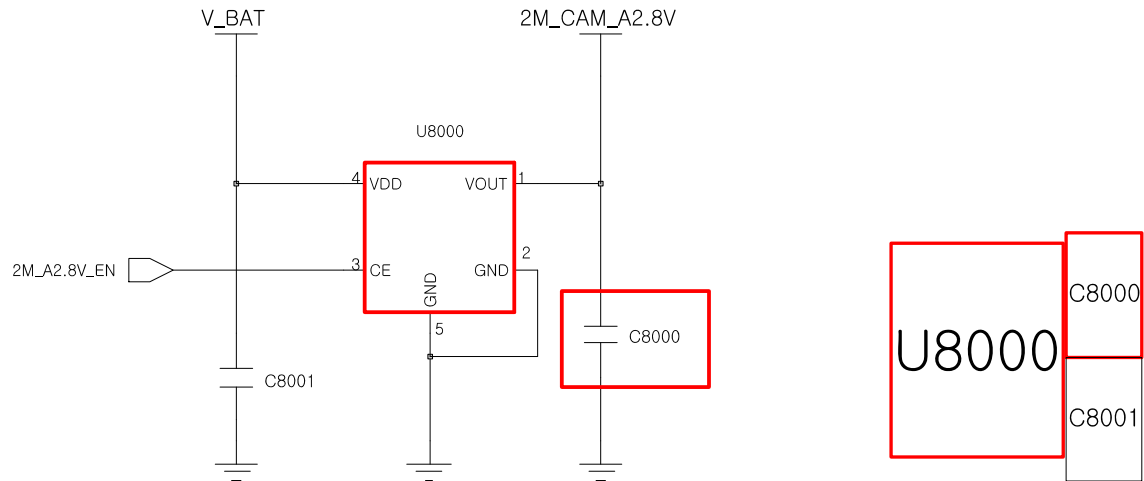
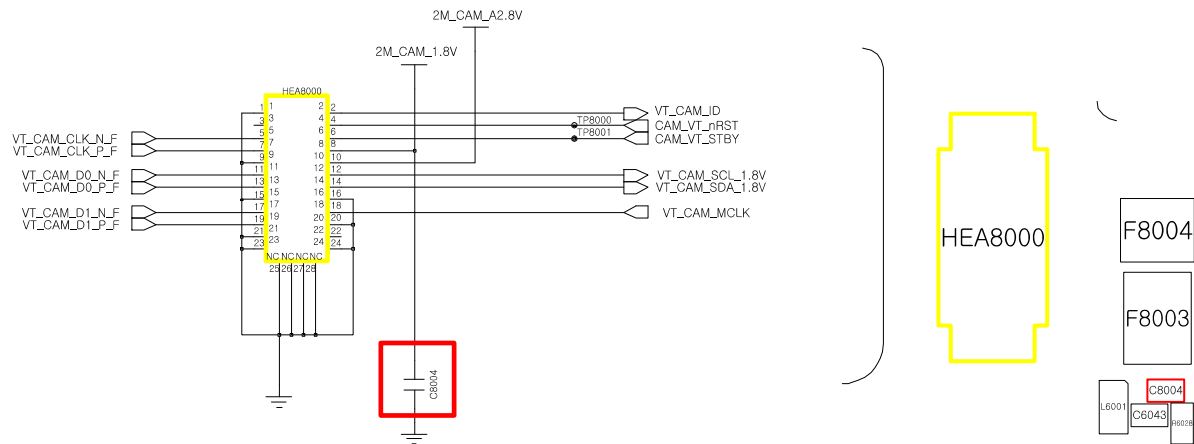
8-3-9. OCTA(TSP)



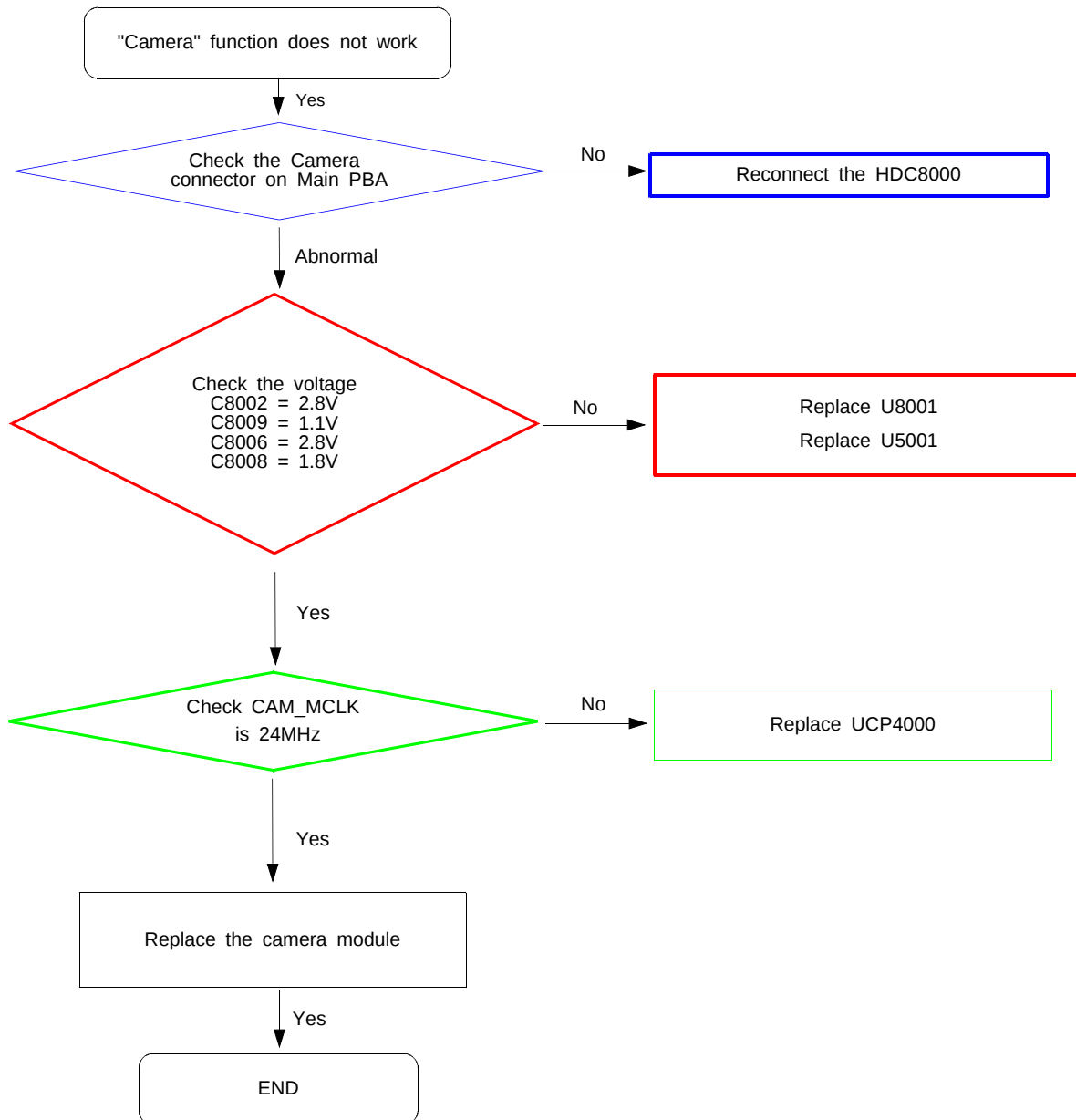


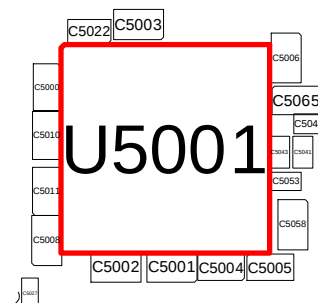
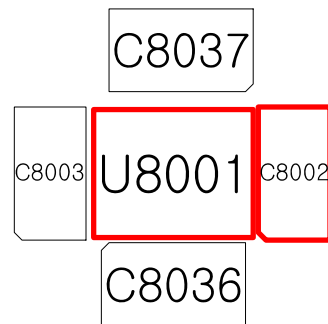
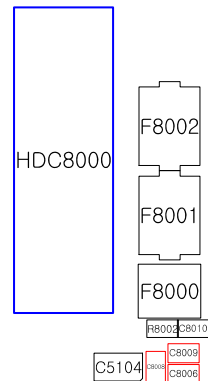
8-3-10. VT CAM



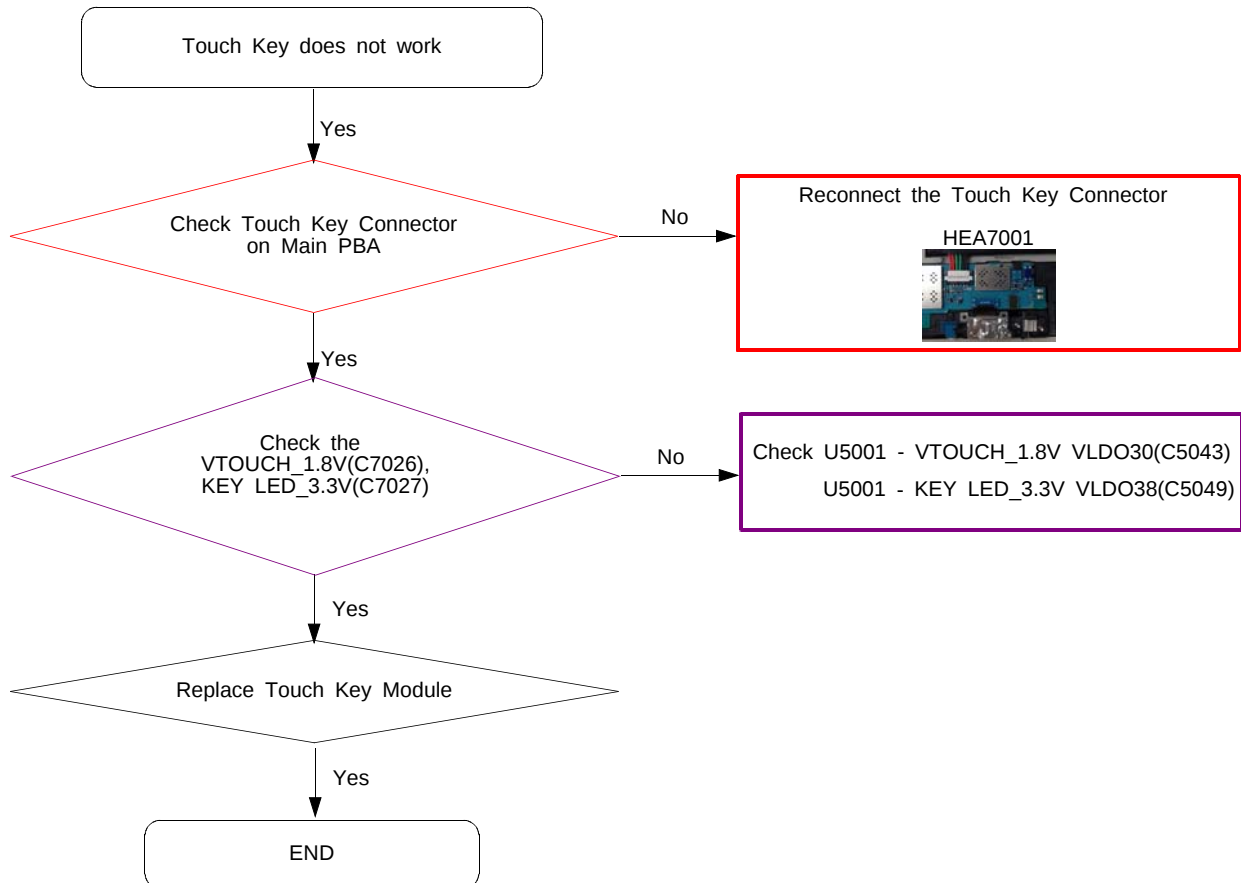


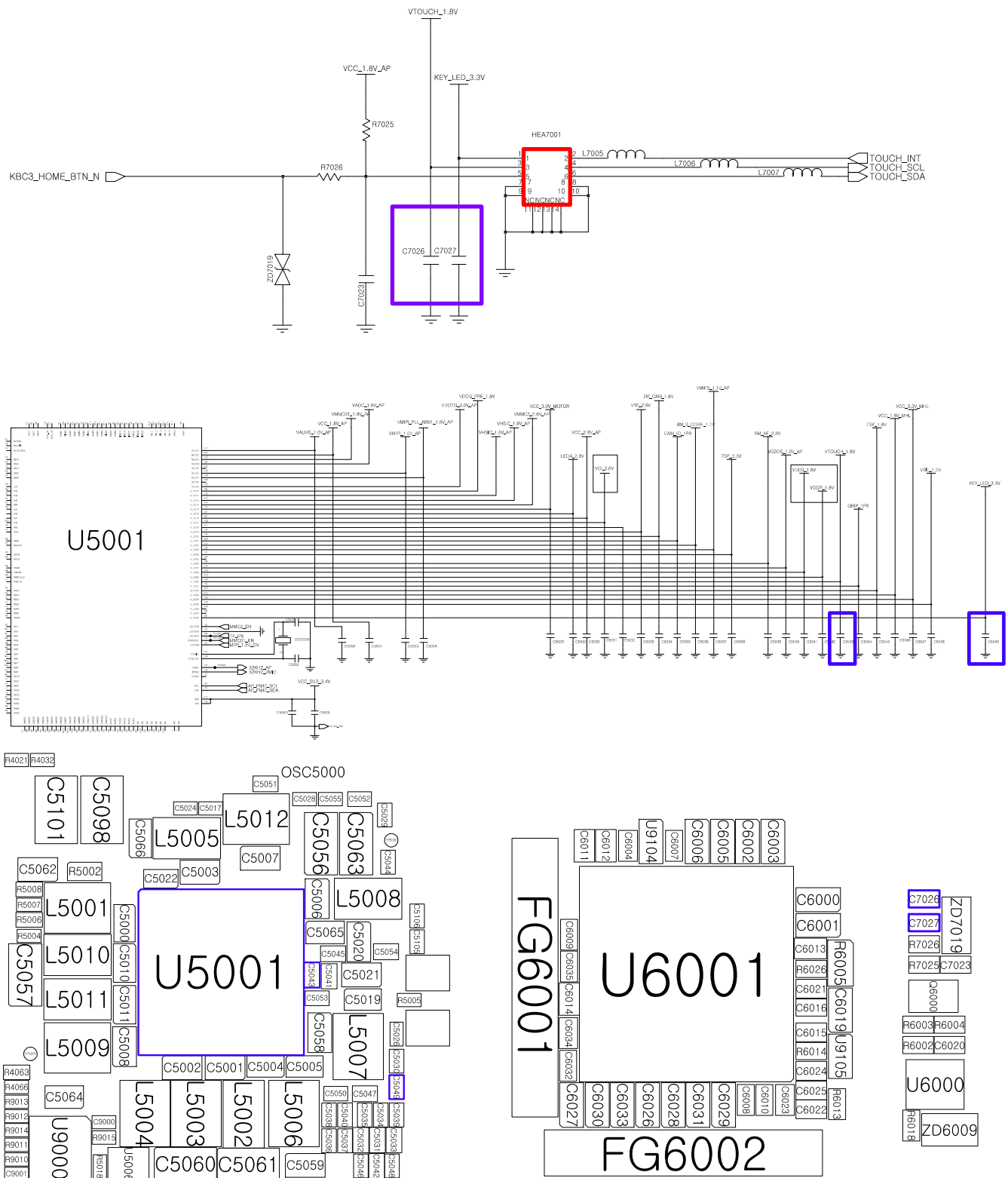
8-3-11. 8M CAM



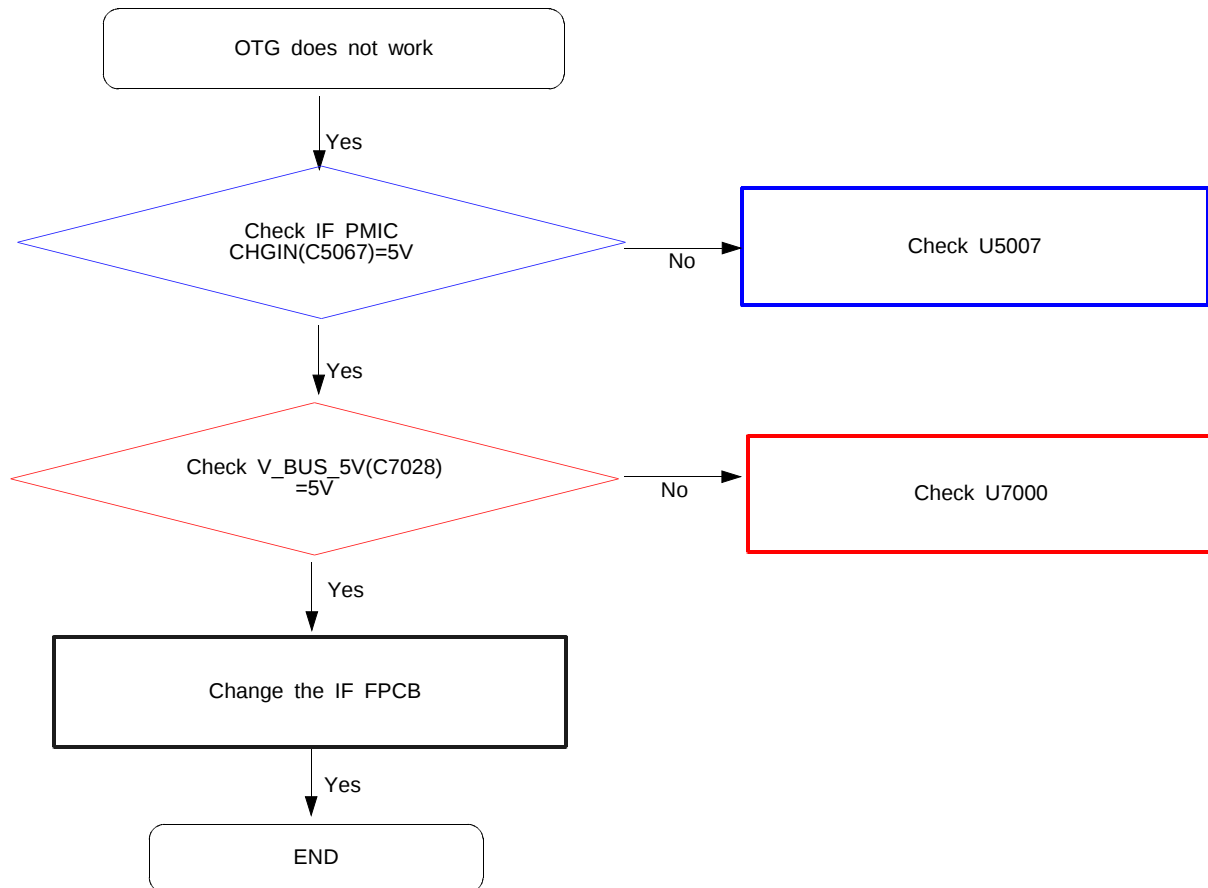


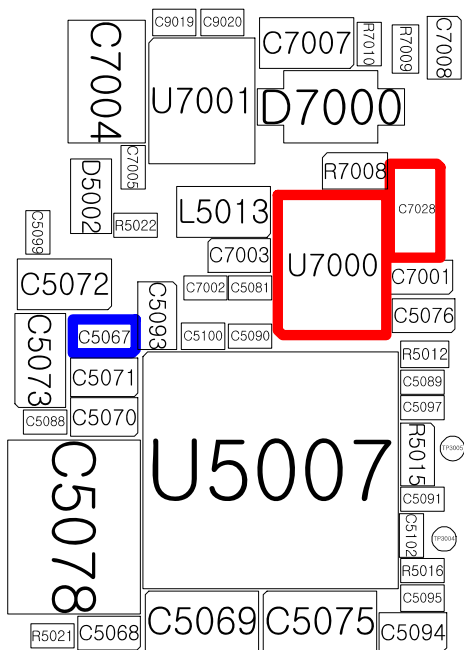
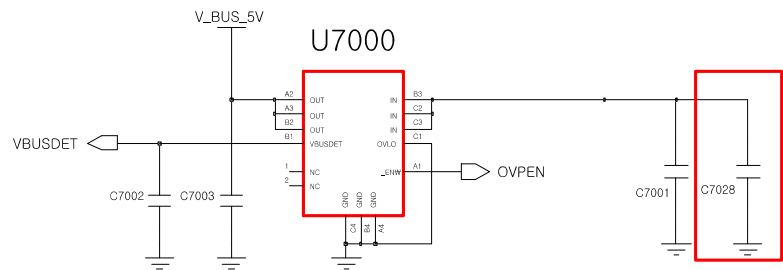
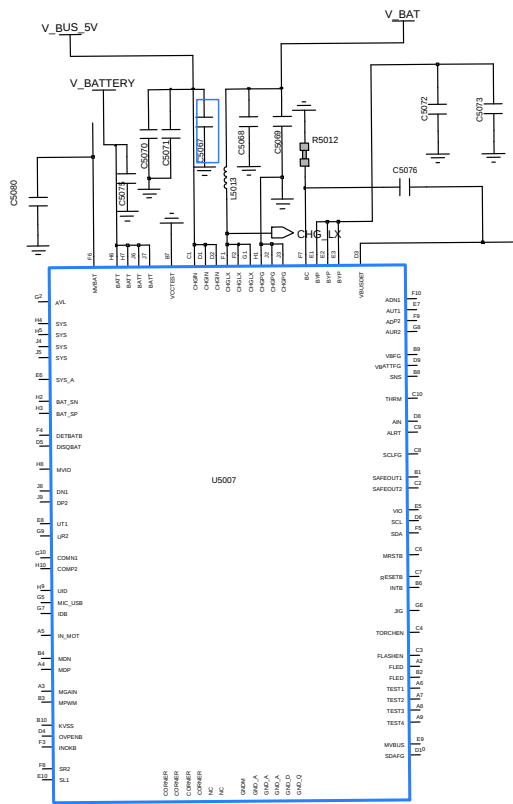
8-3-12. Touch Key



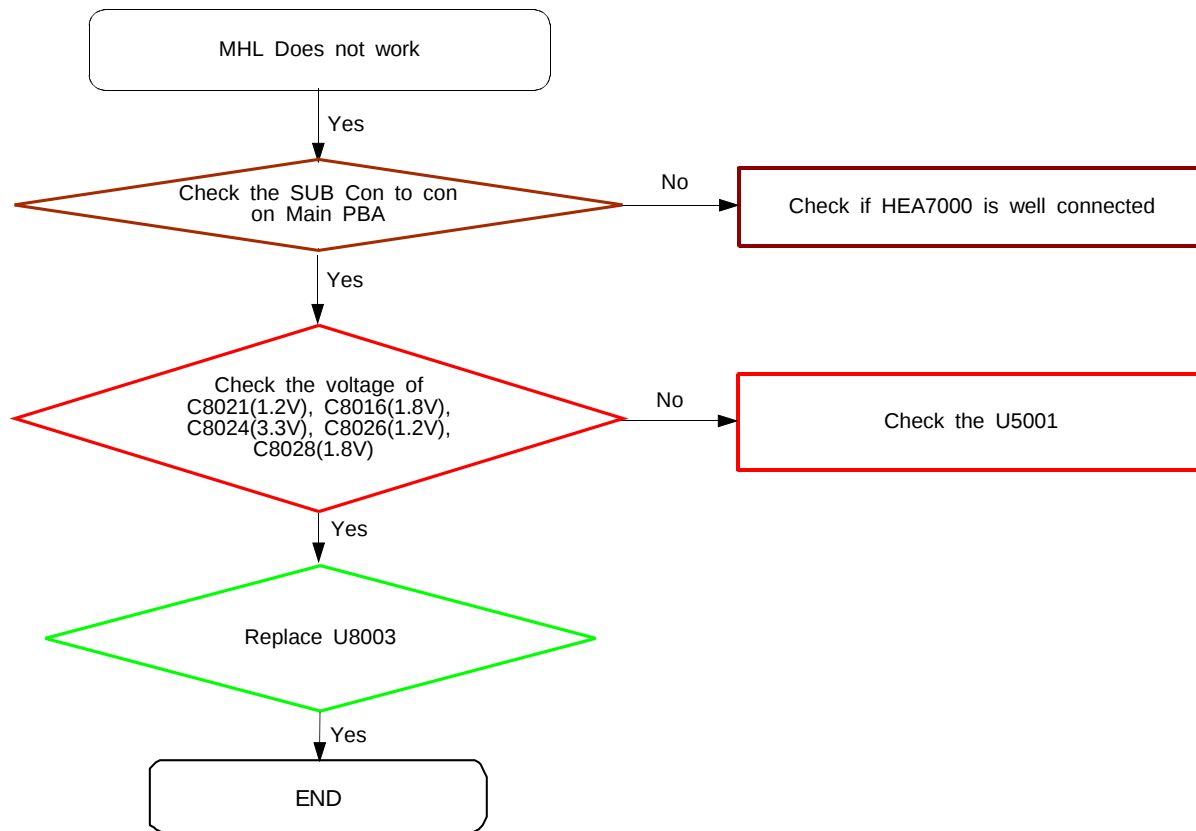


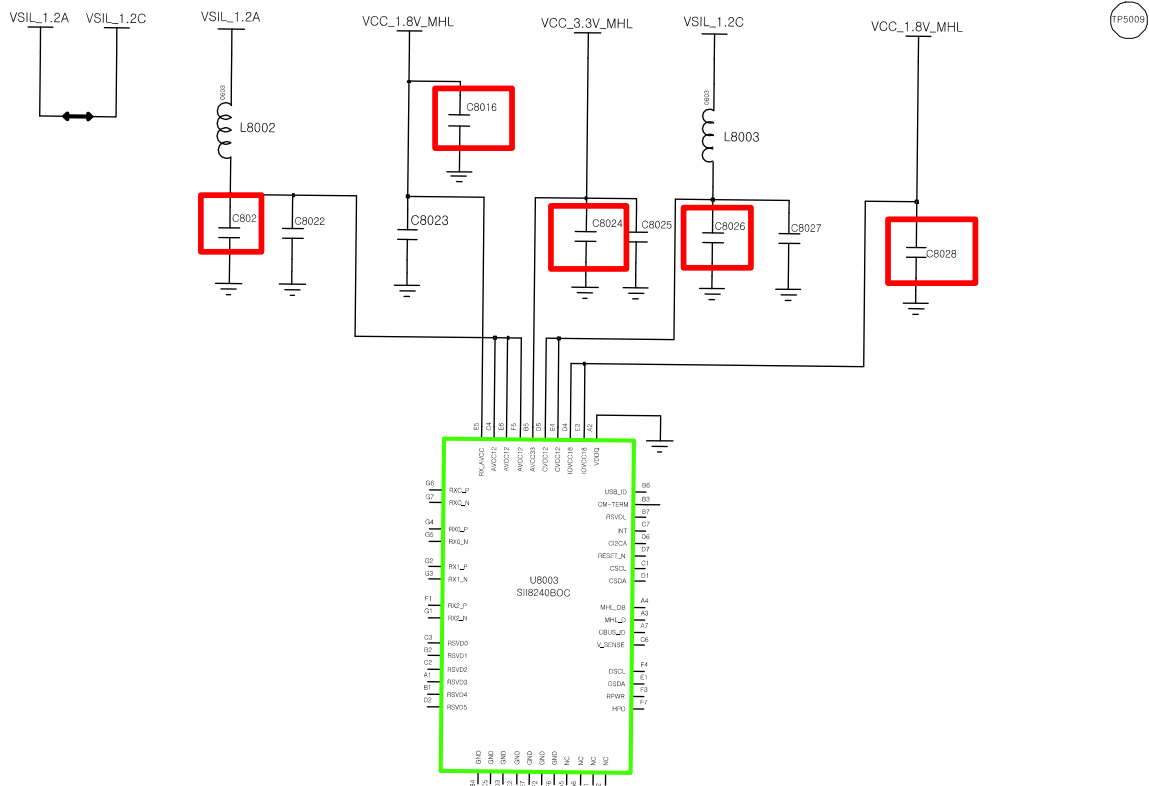
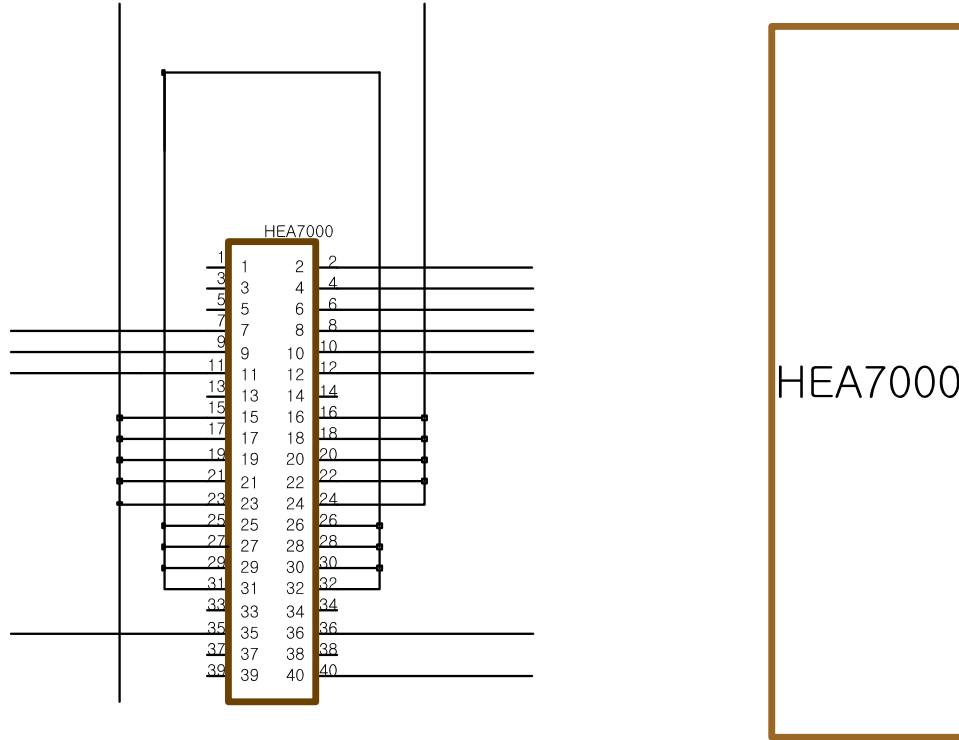
8-3-13. OTG

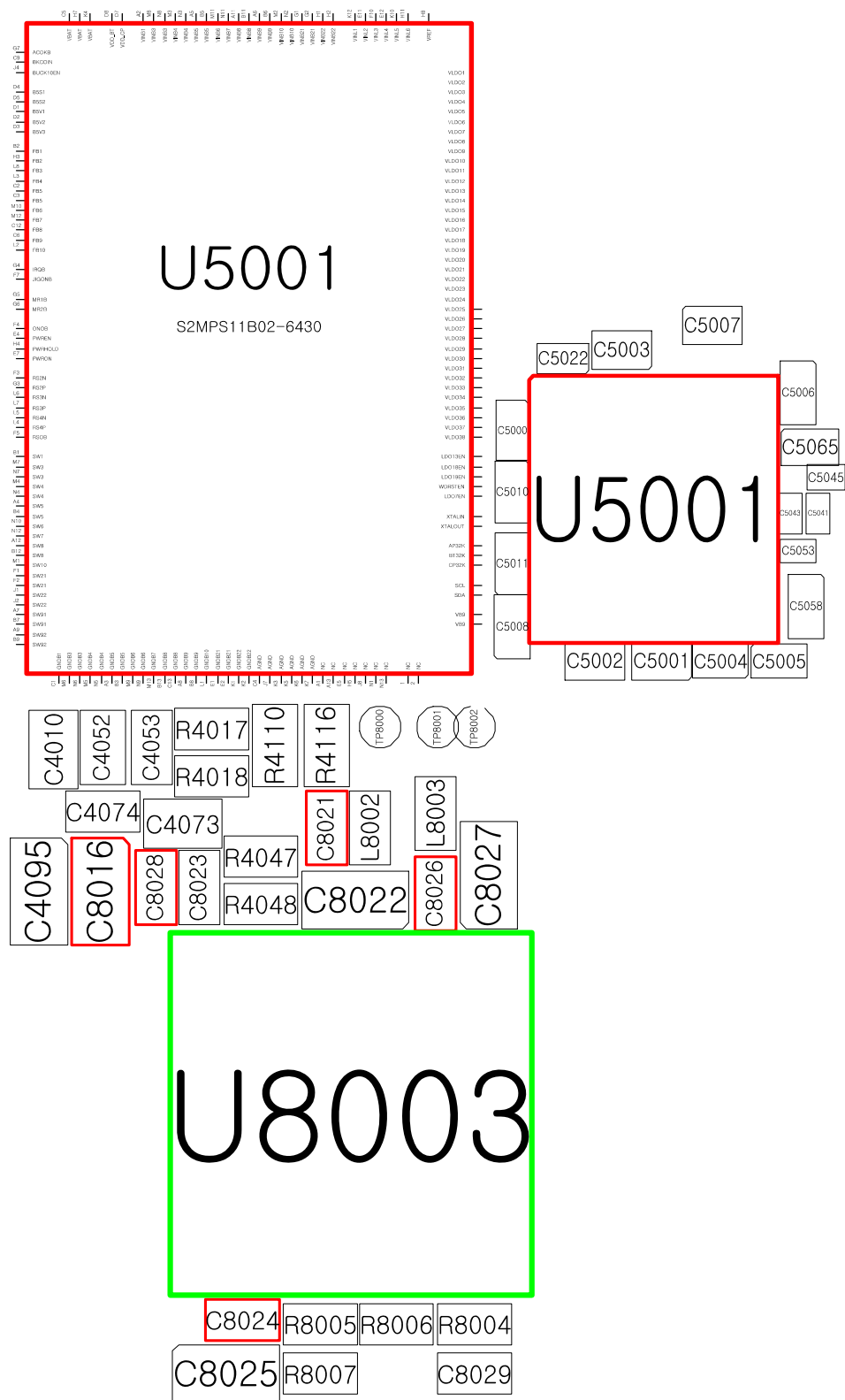




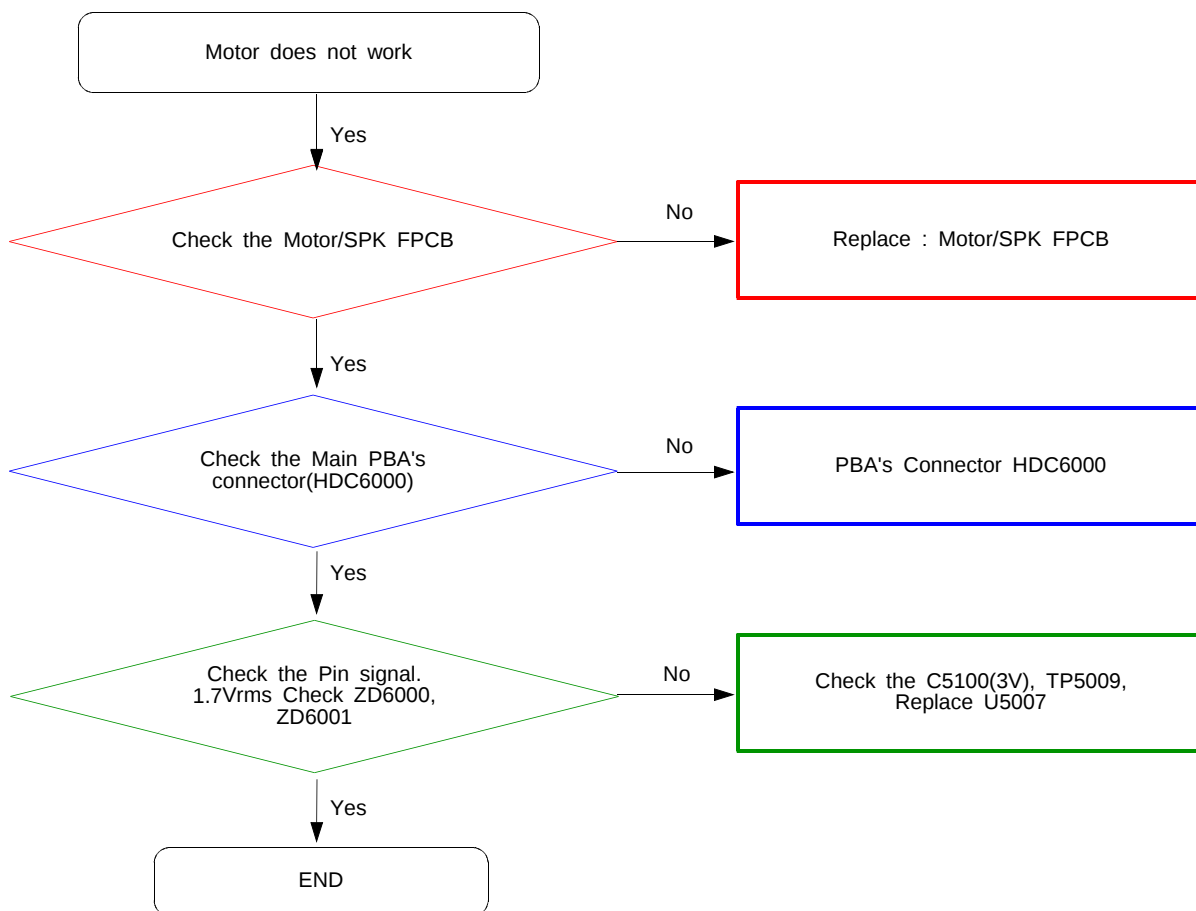
8-3-14. MHL

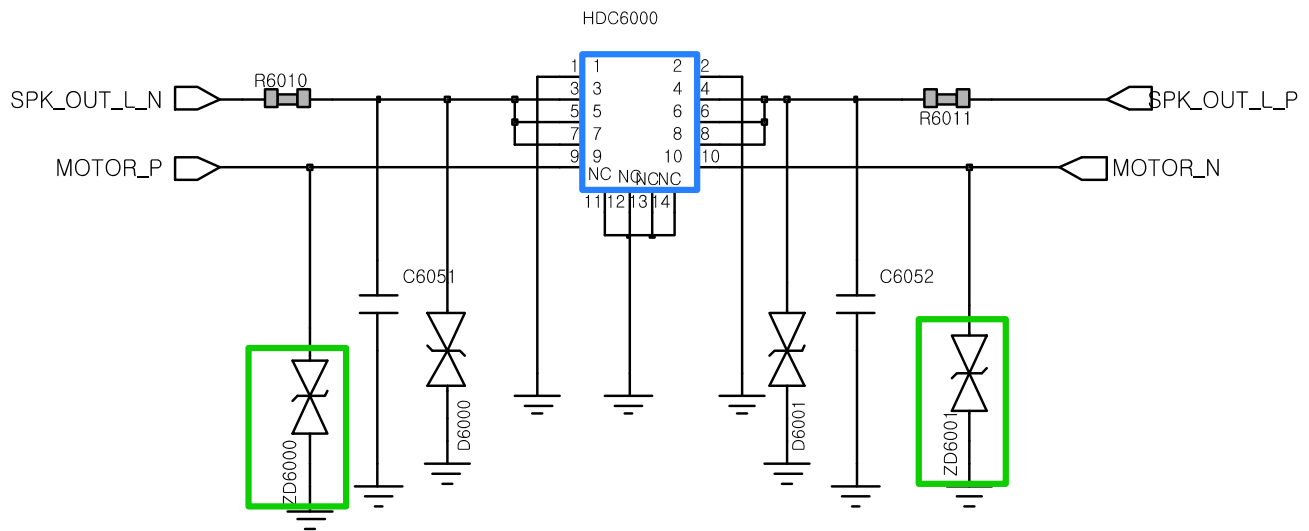






8-3-15. Motor

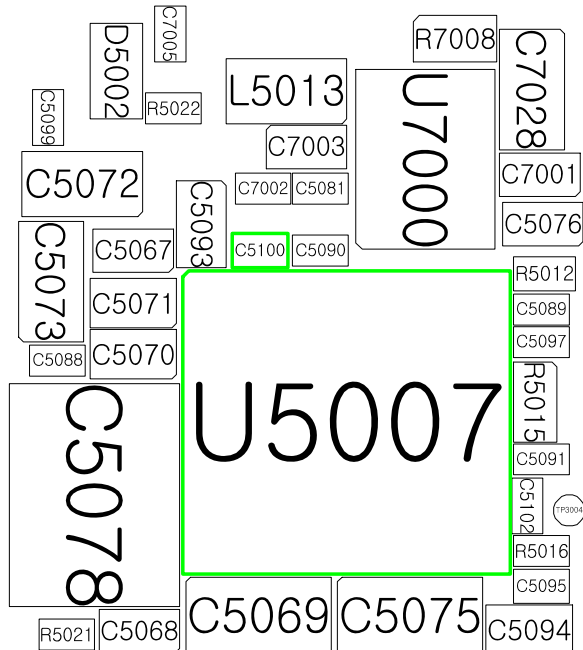
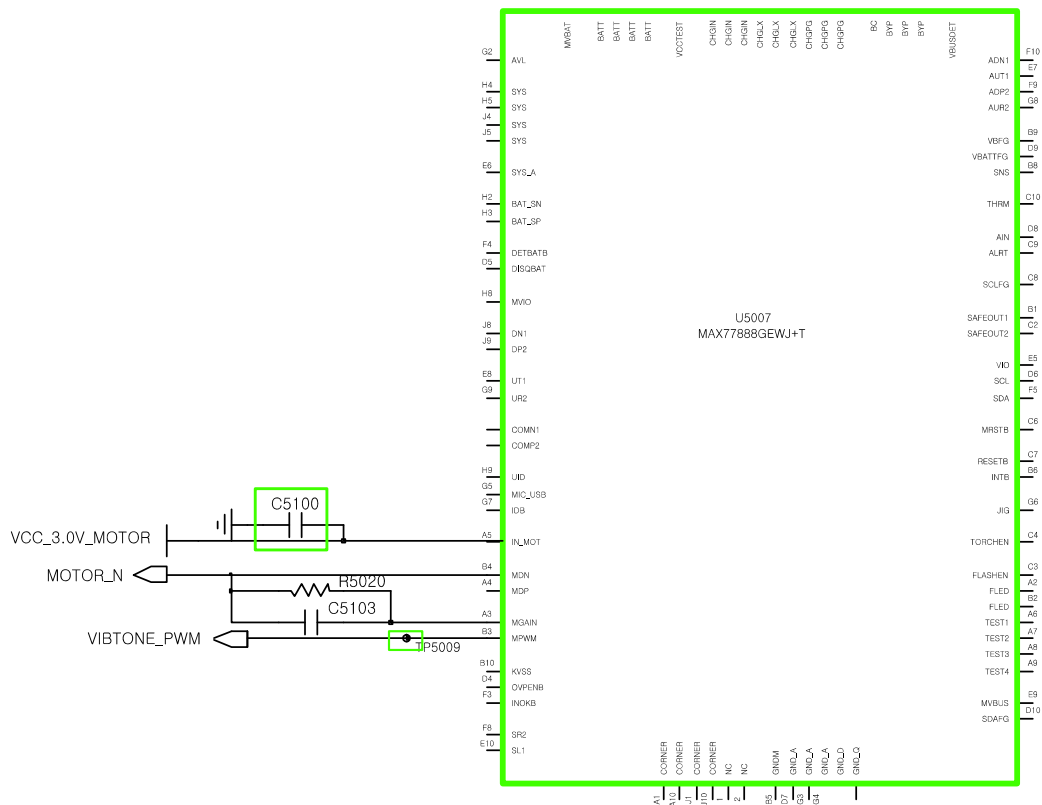




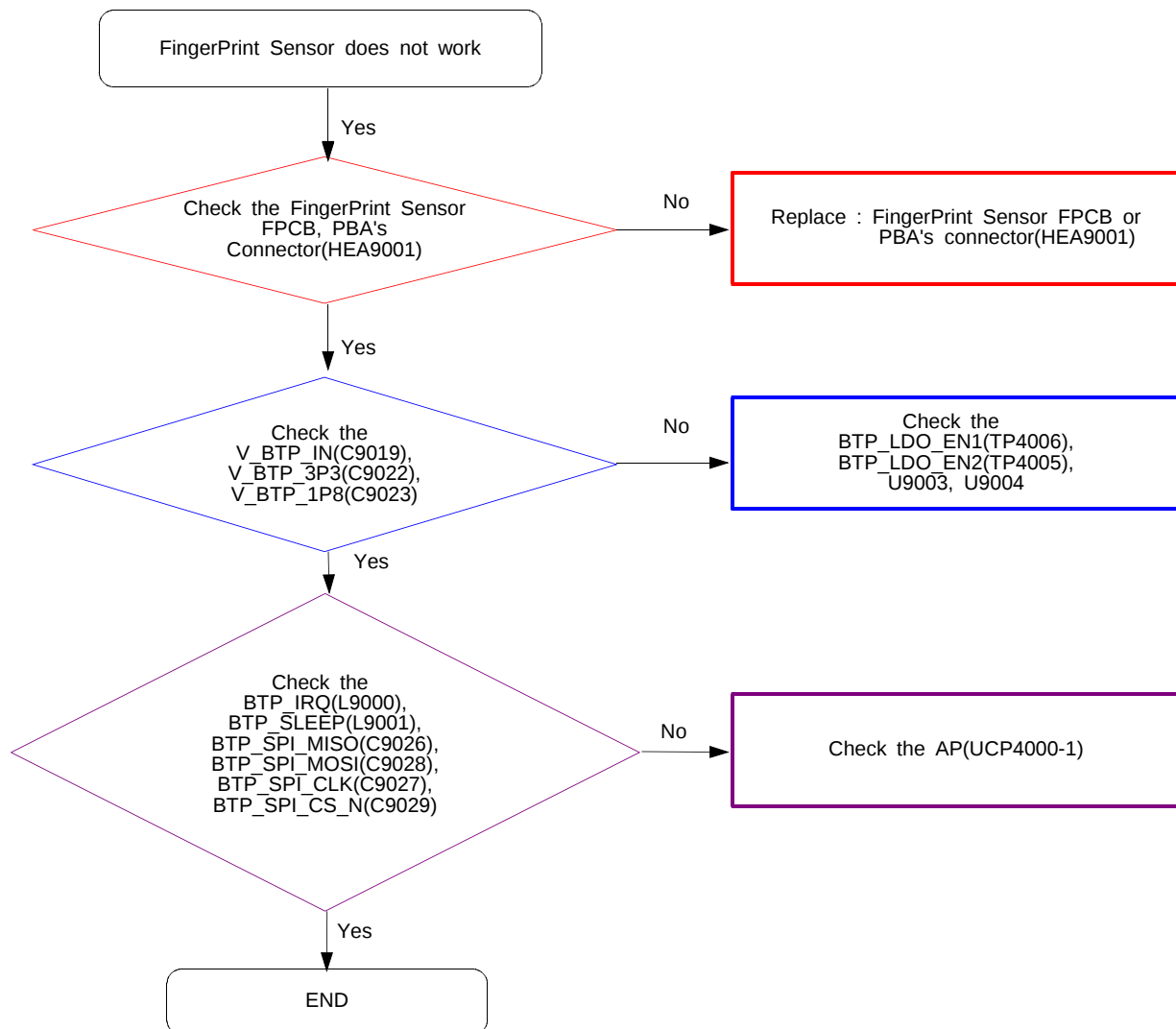
ZD6001

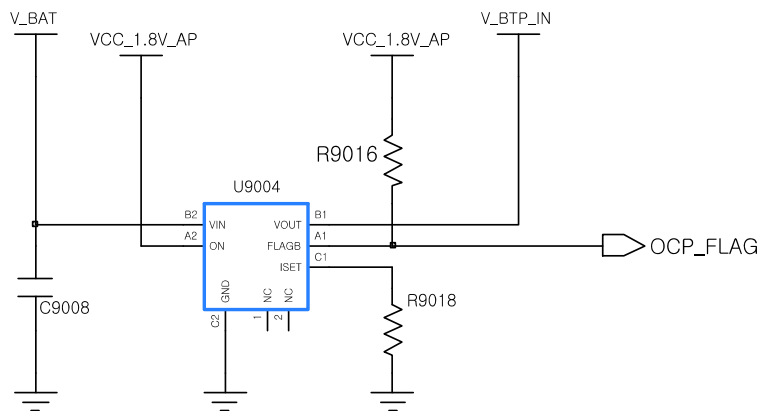
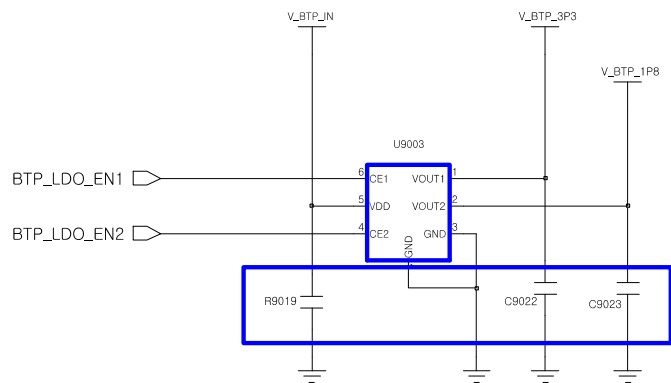
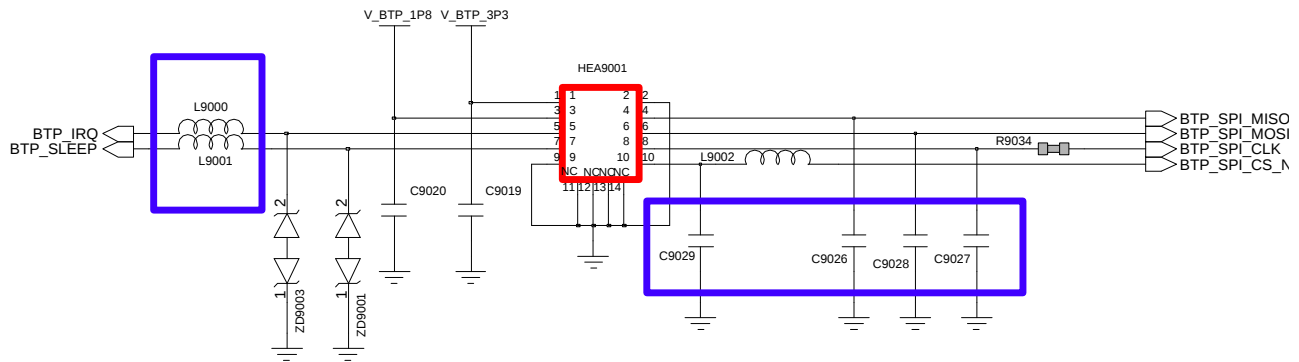
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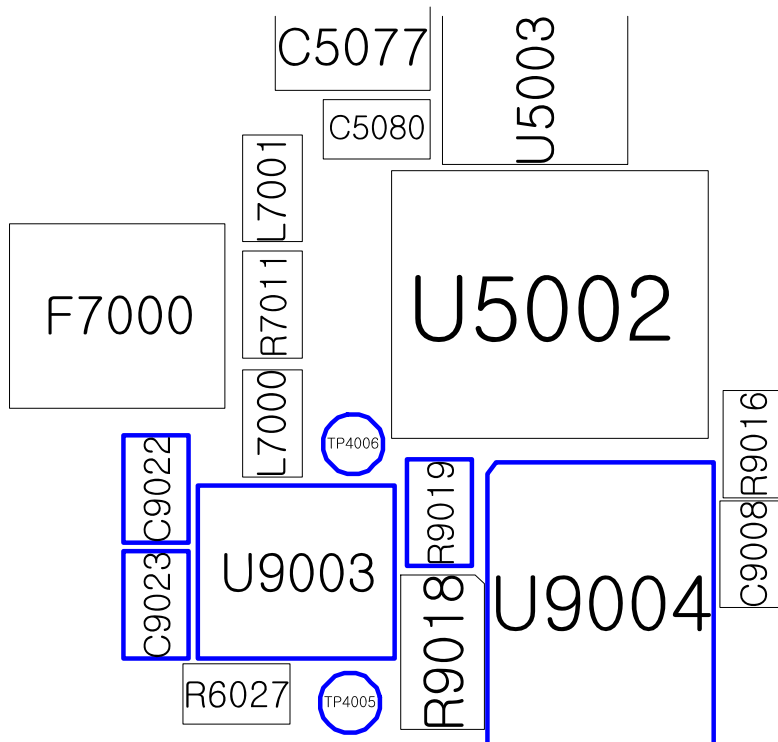
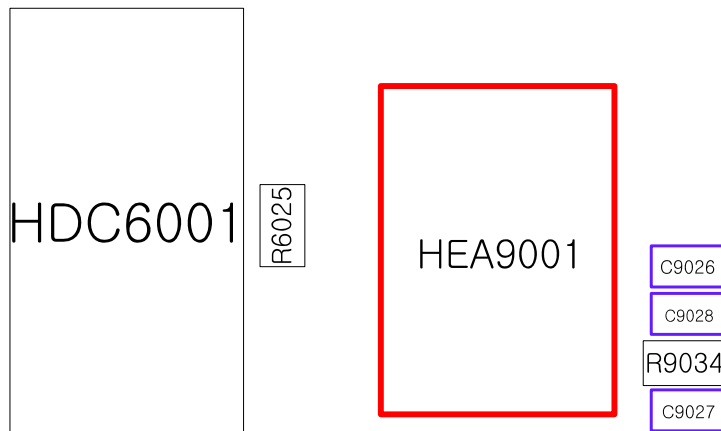
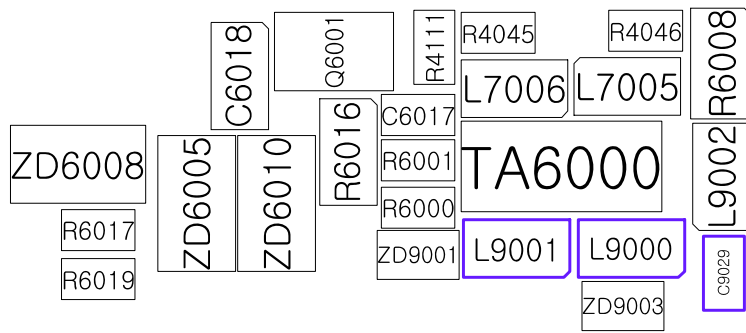
HDC6000



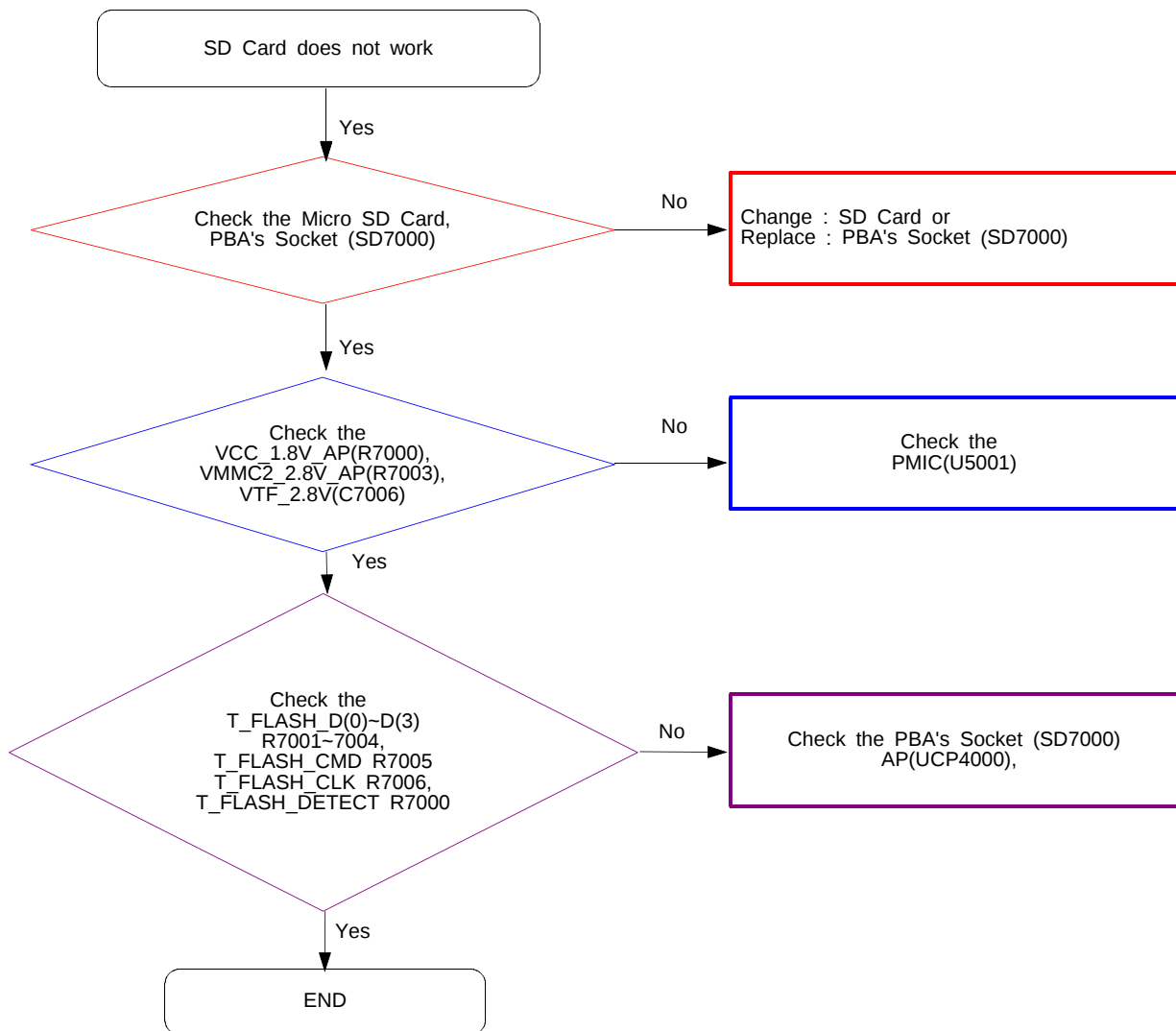
8-3-16. FingerPrint Sensor

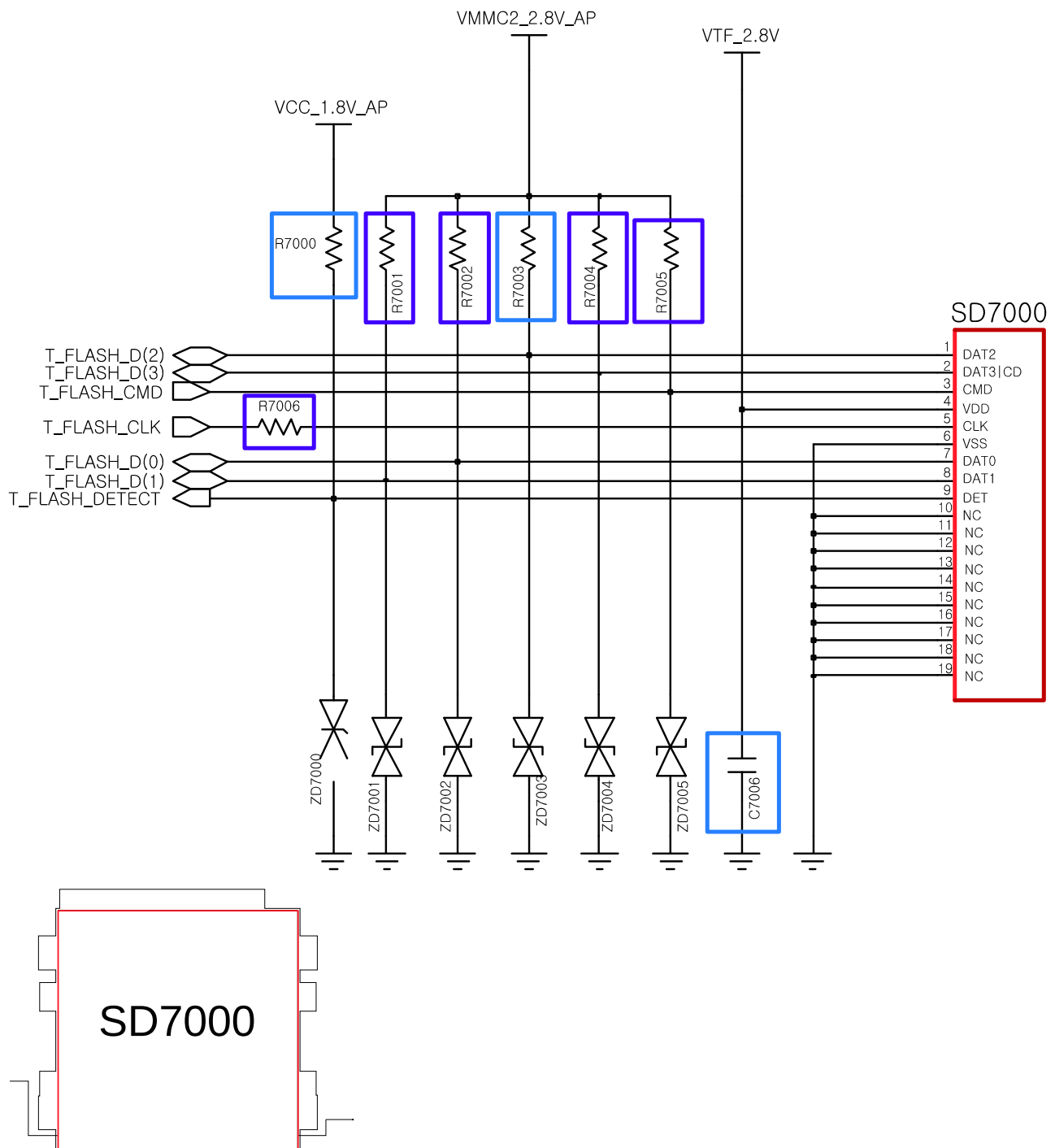




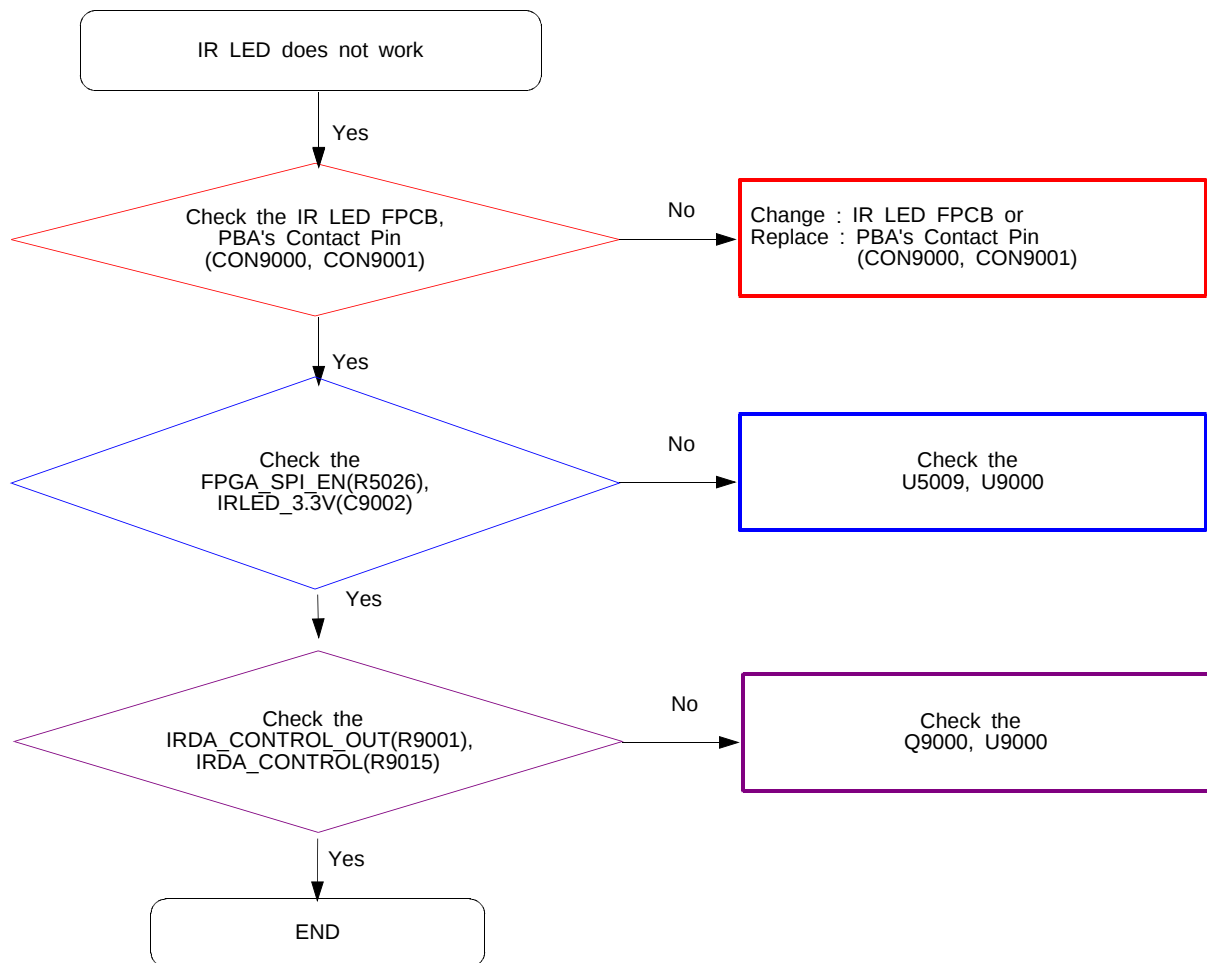


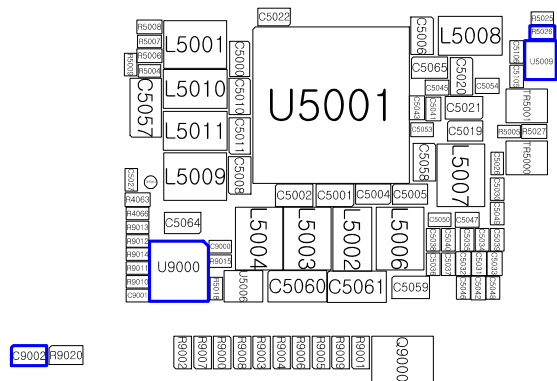
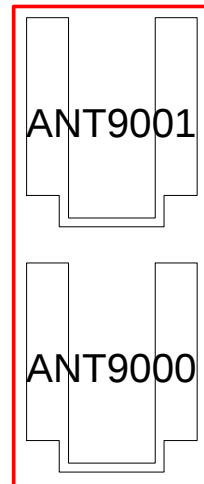
8-3-17. SD Part

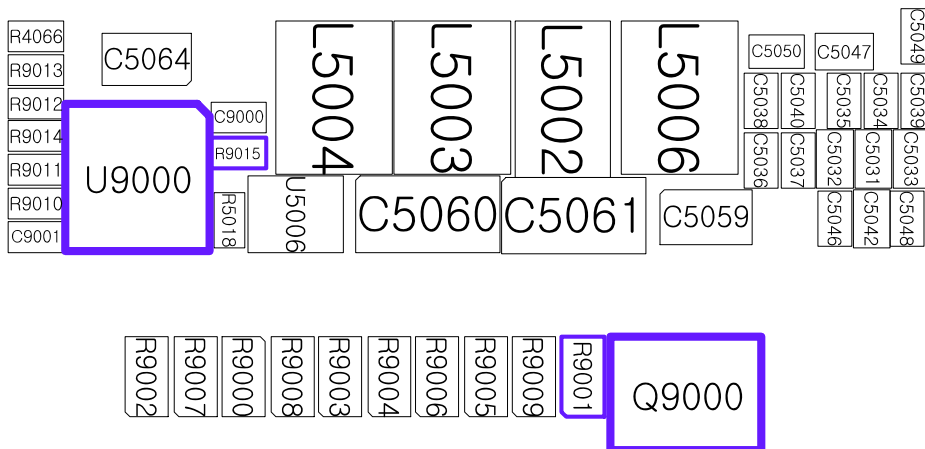
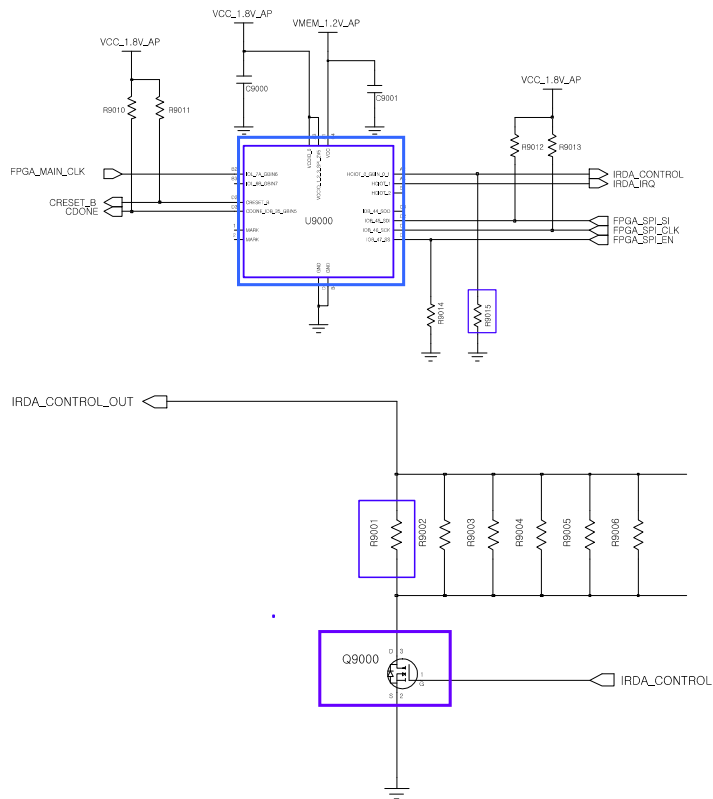




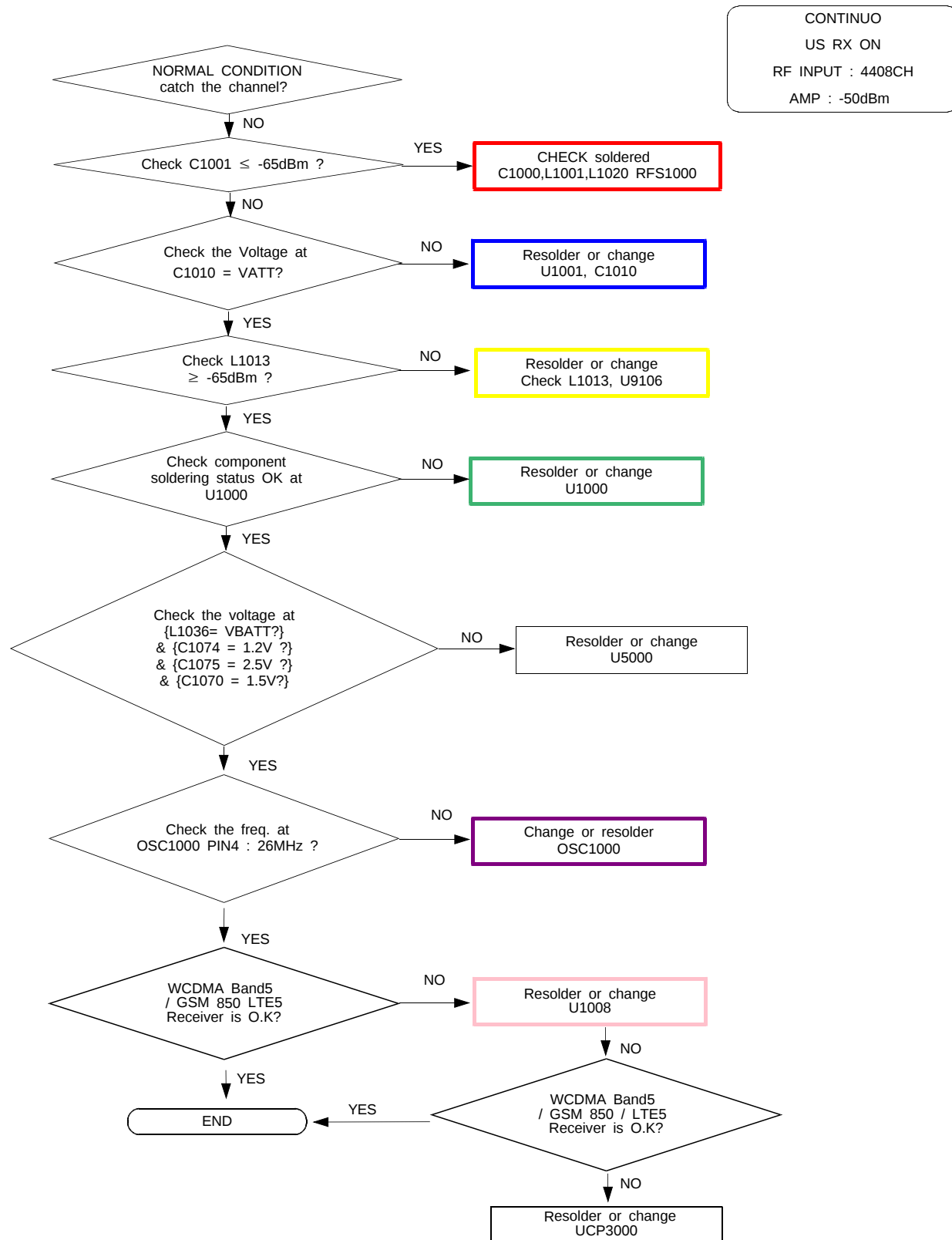
8-3-18. IR LED Part

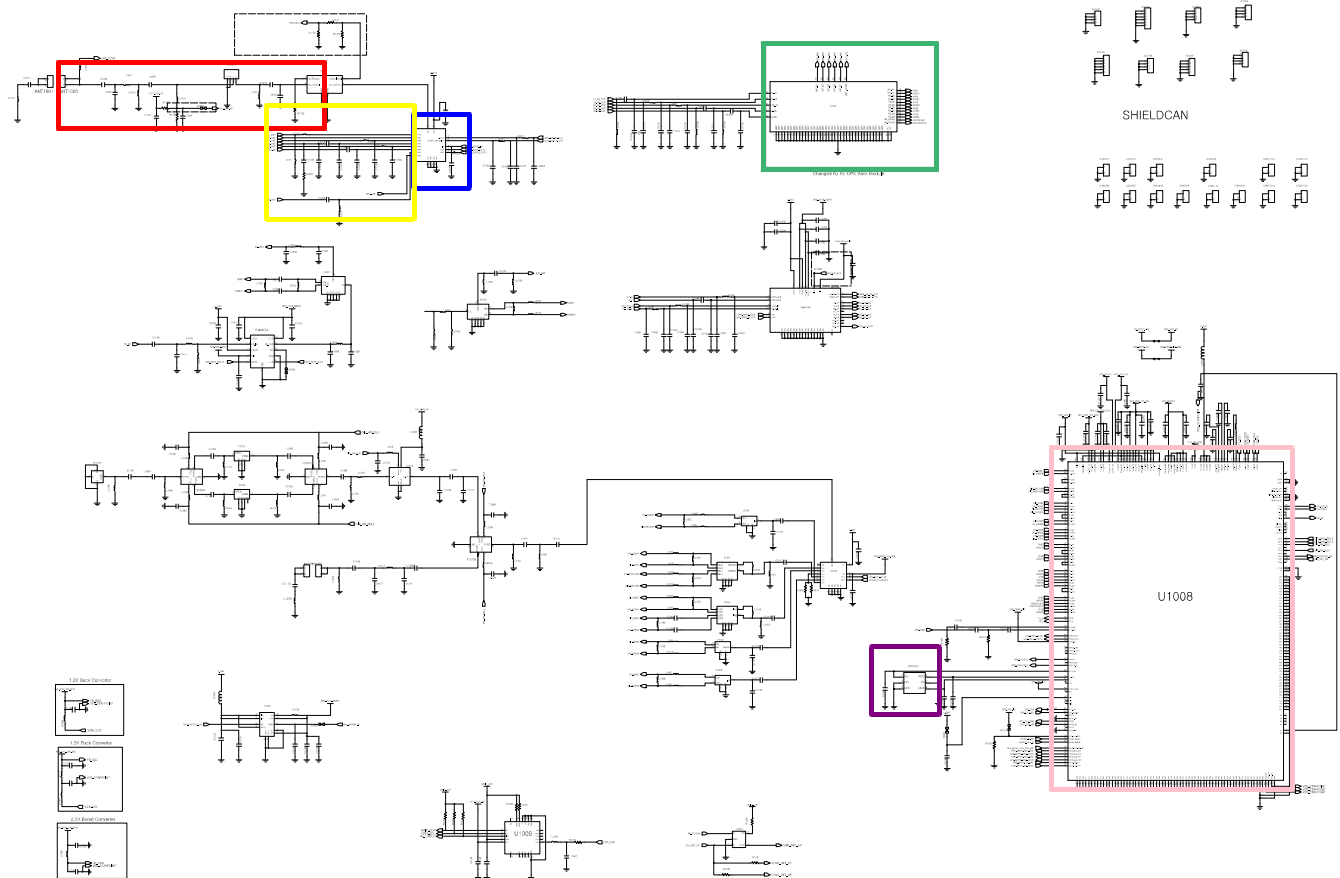


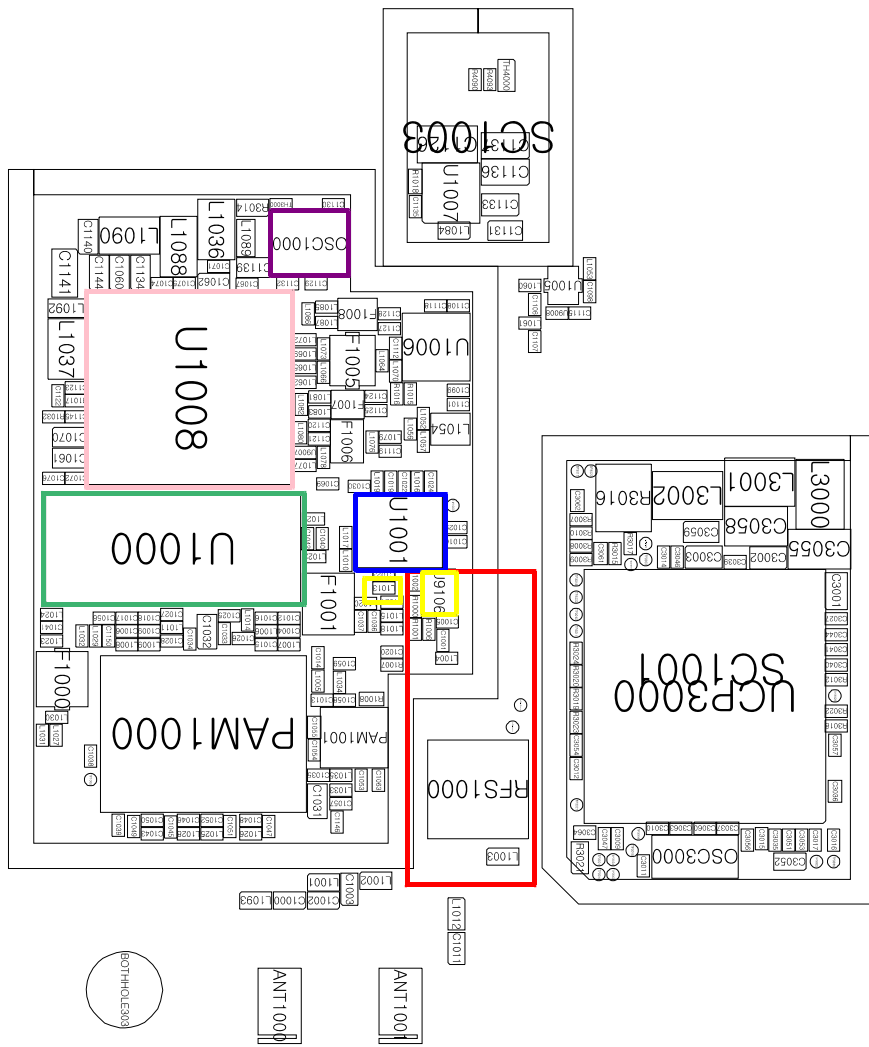




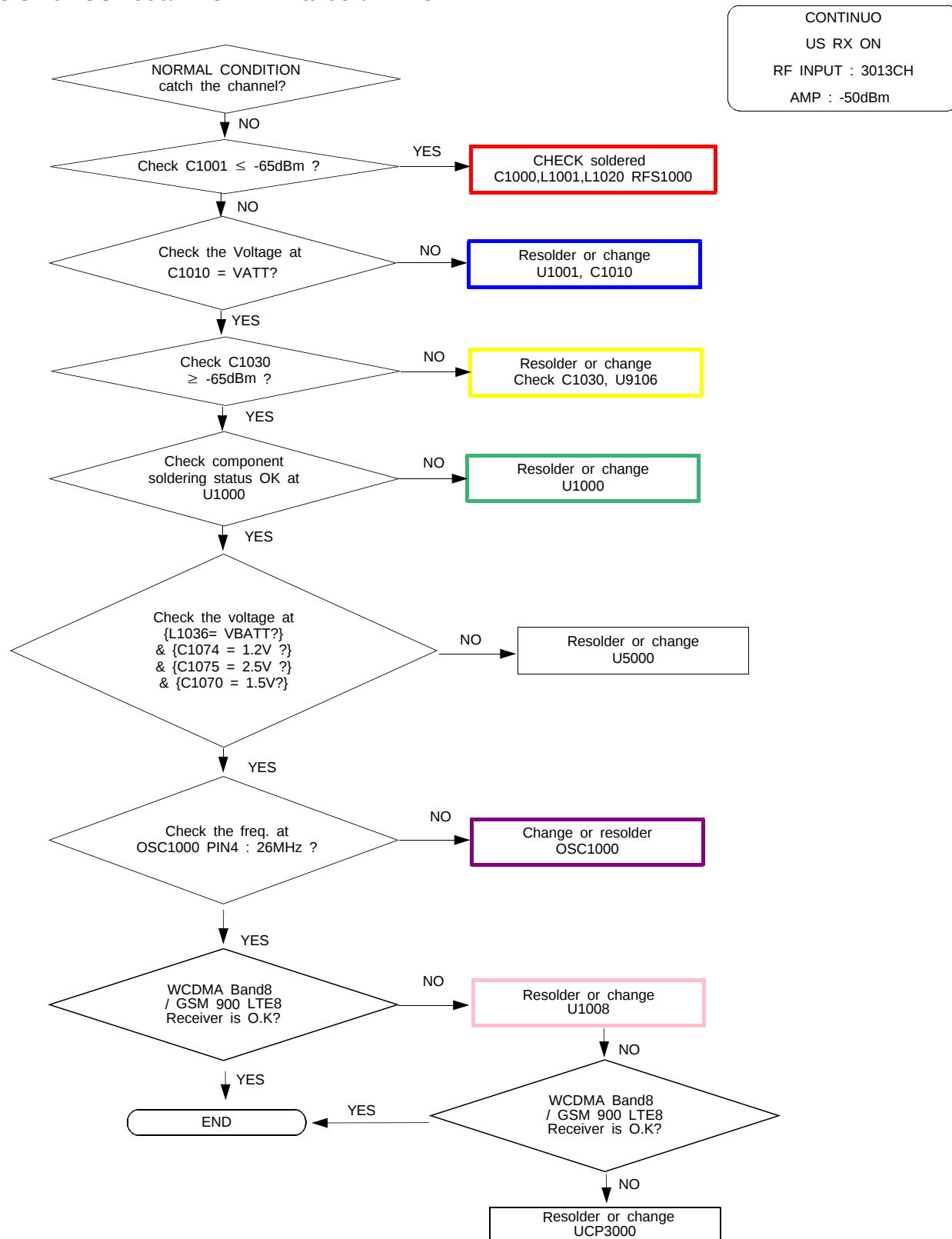
8-3-19. GSM850/ WCDMA Band5 / LTE5 RX

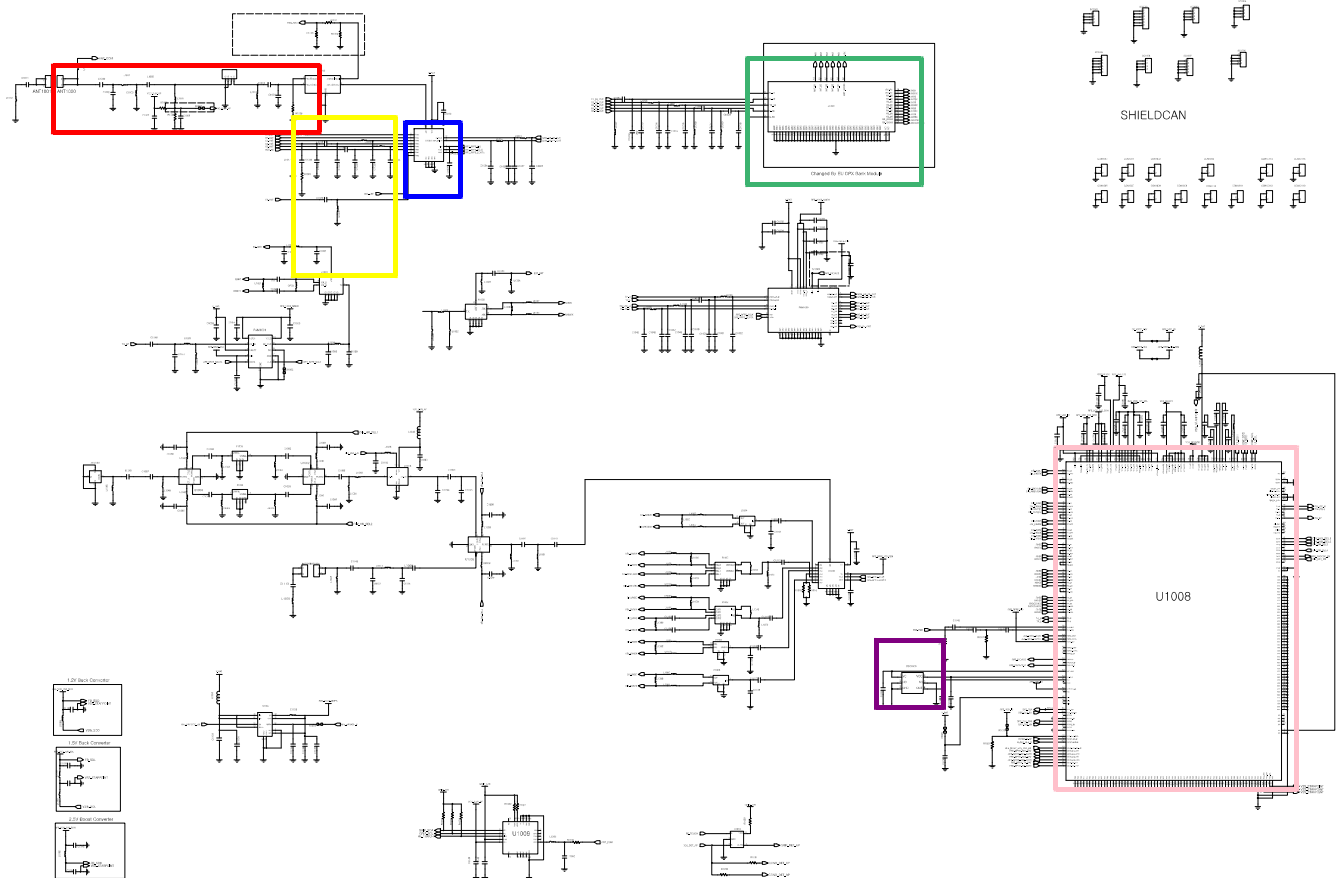




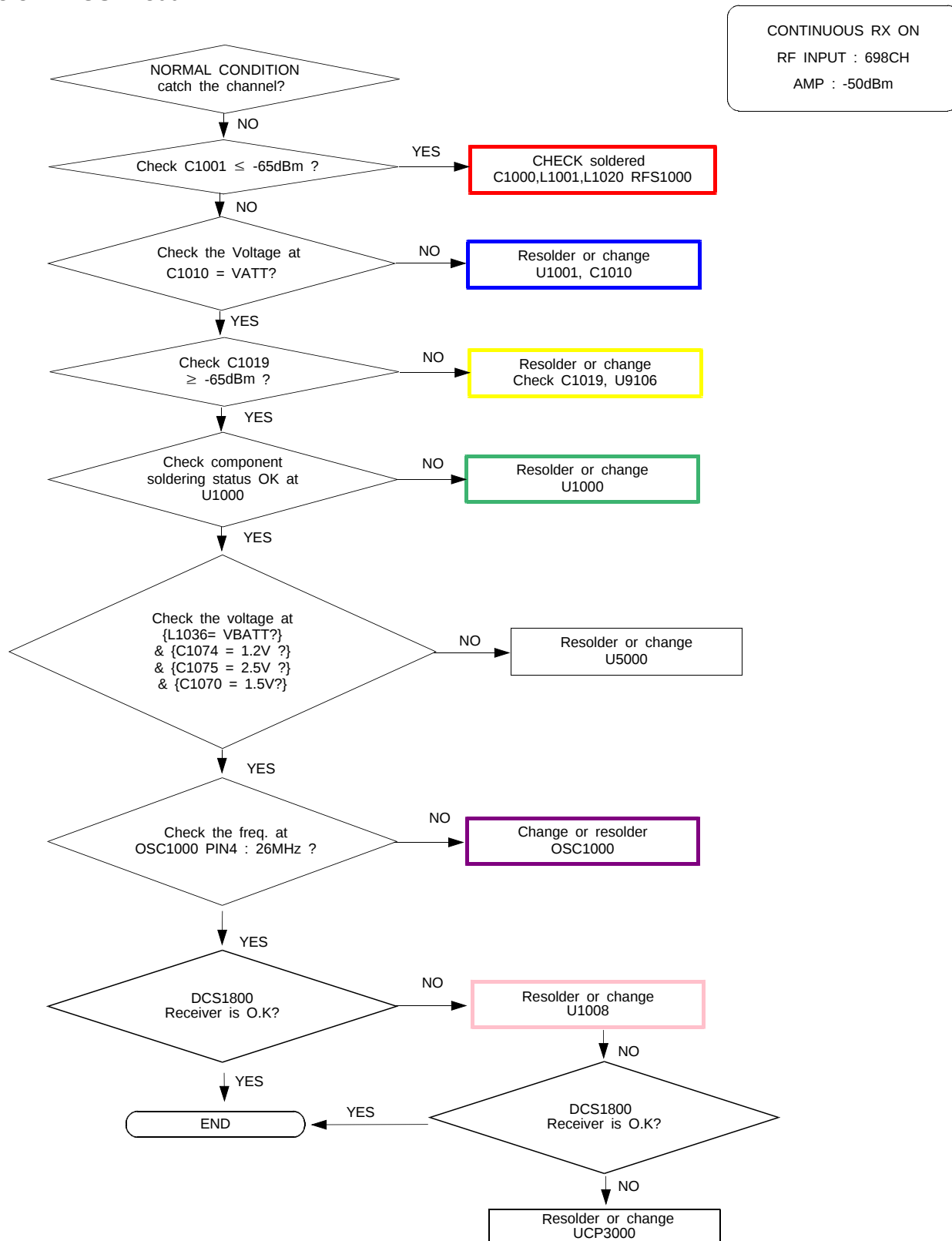


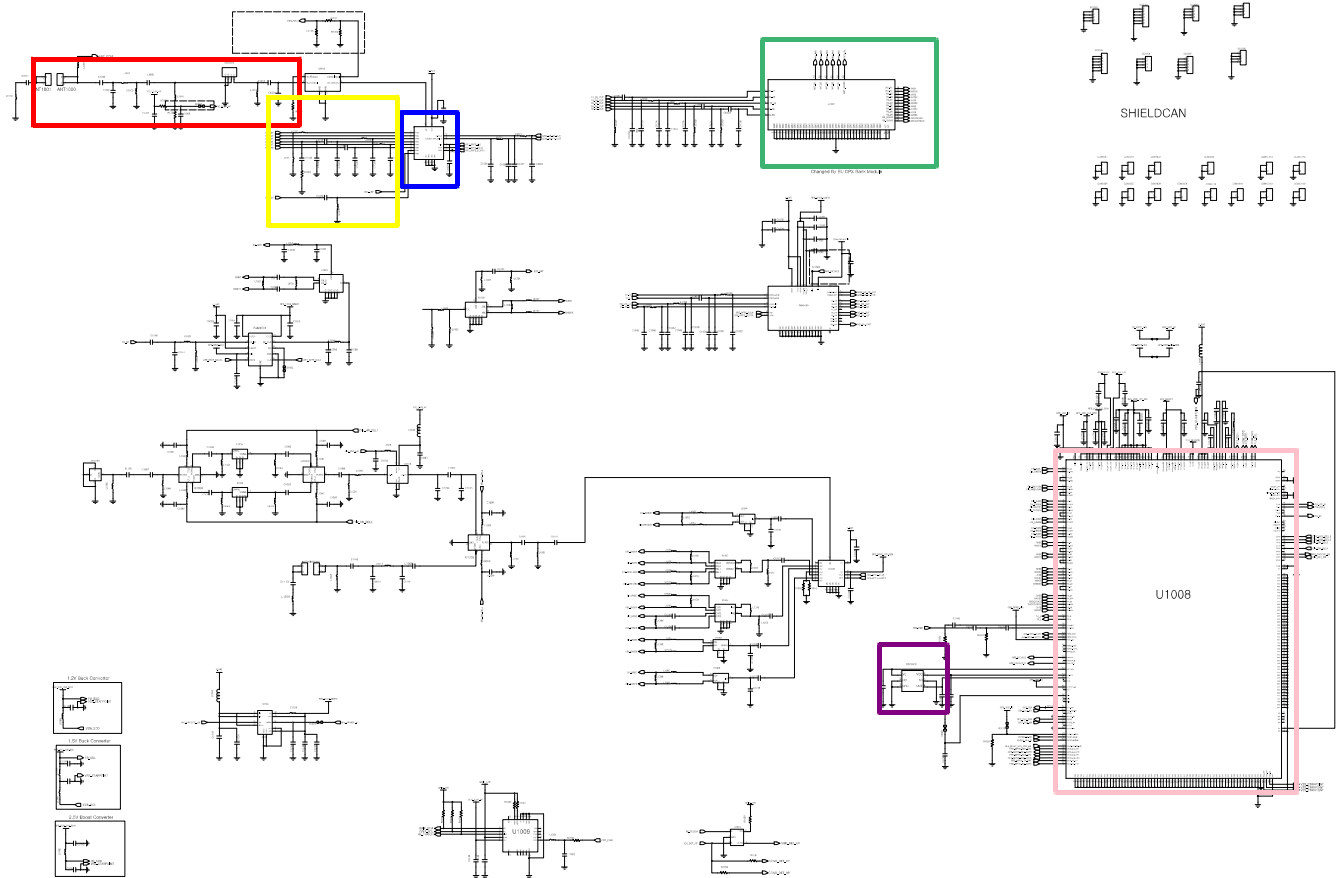
8-3-20. GSM900/ WCDMA Band8 / LTE8 RX

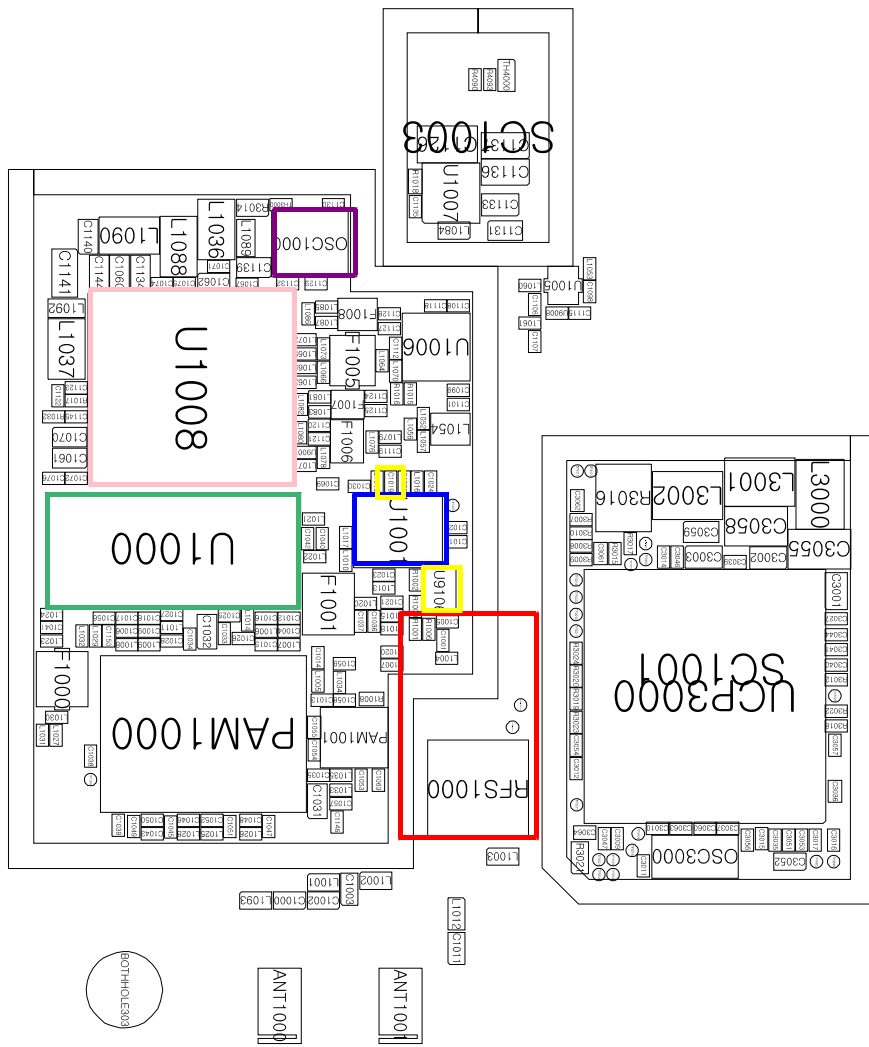




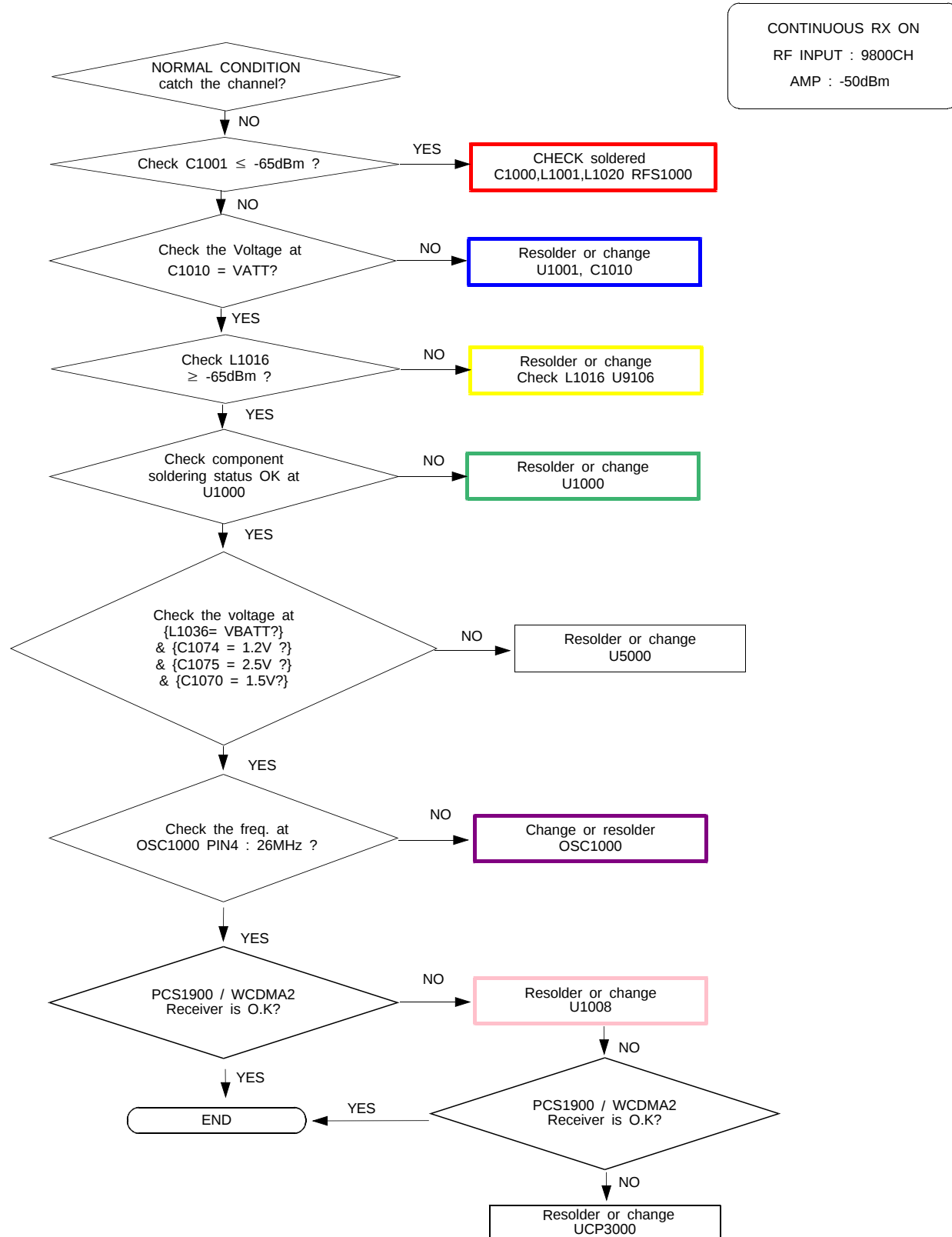
8-3-21. GSM1800 RX

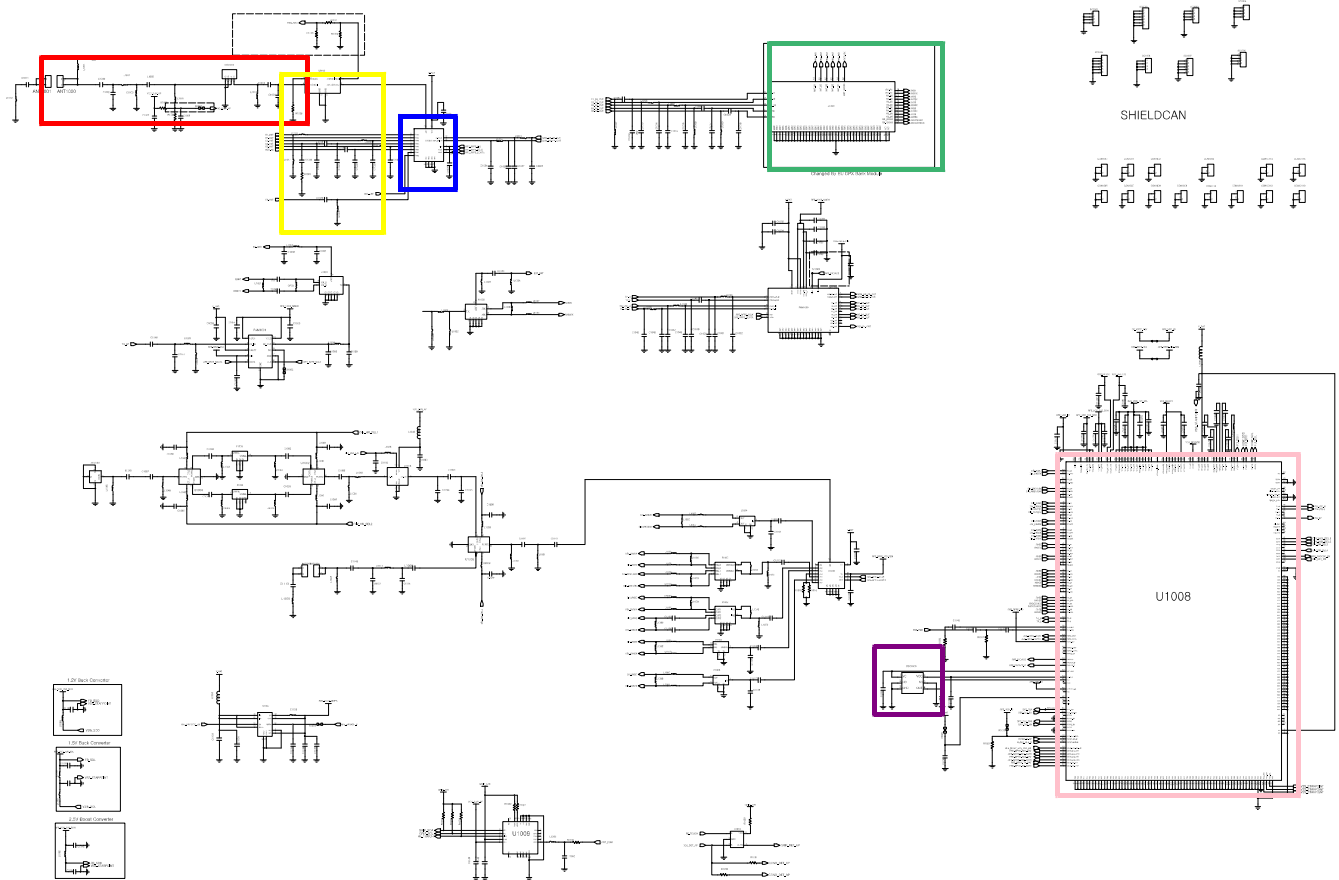


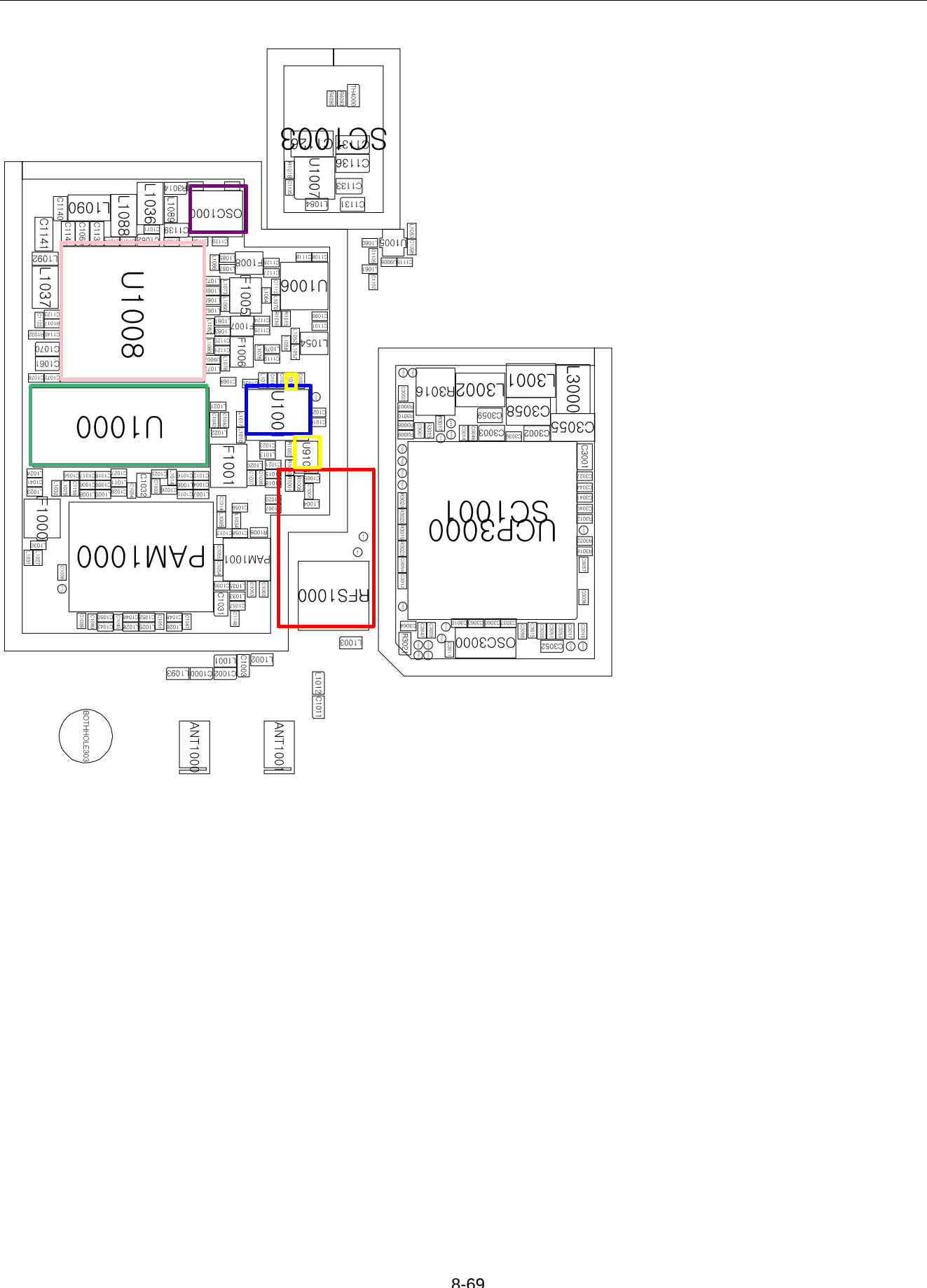




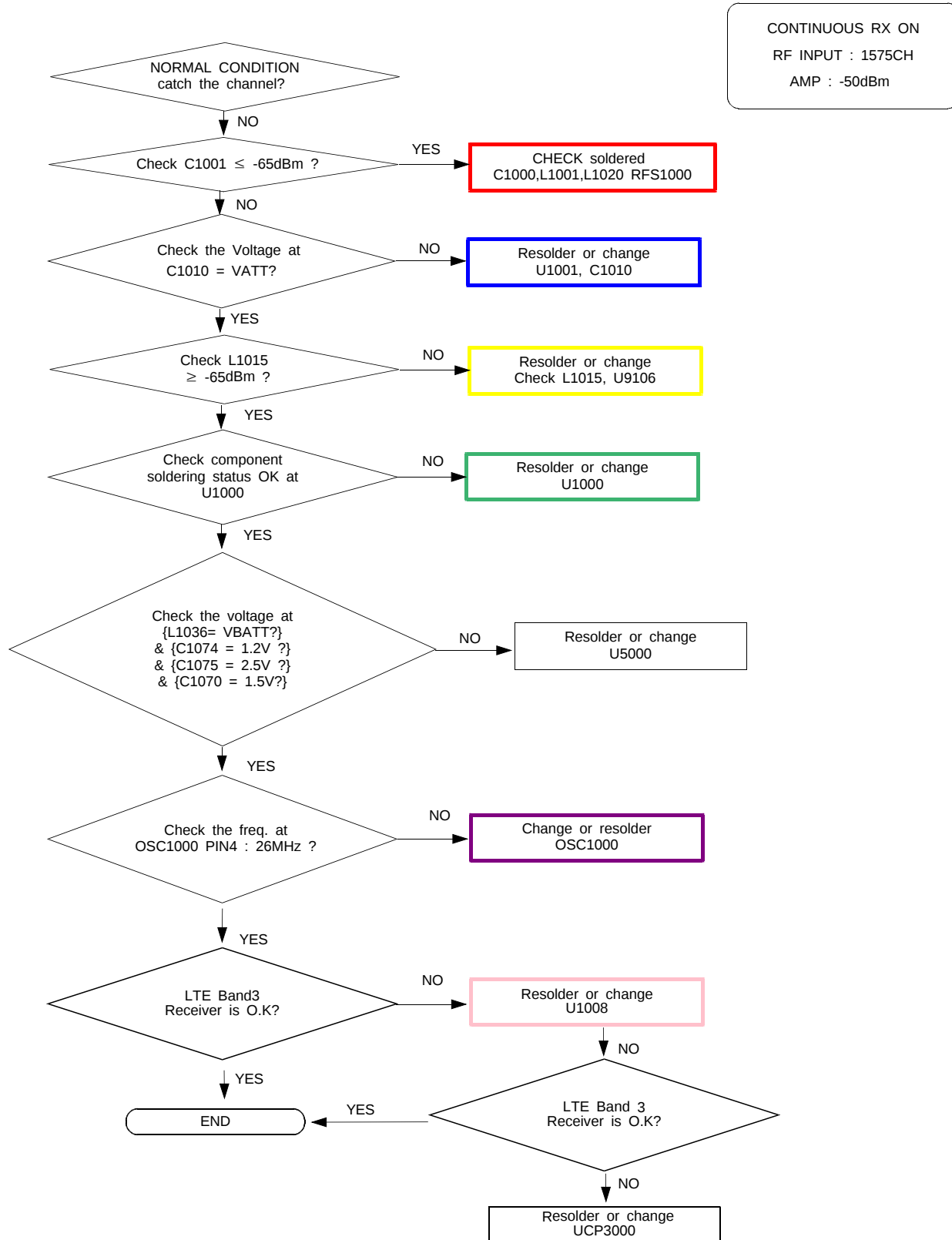
8-3-22. GSM1900/ WCDMA Band2 RX

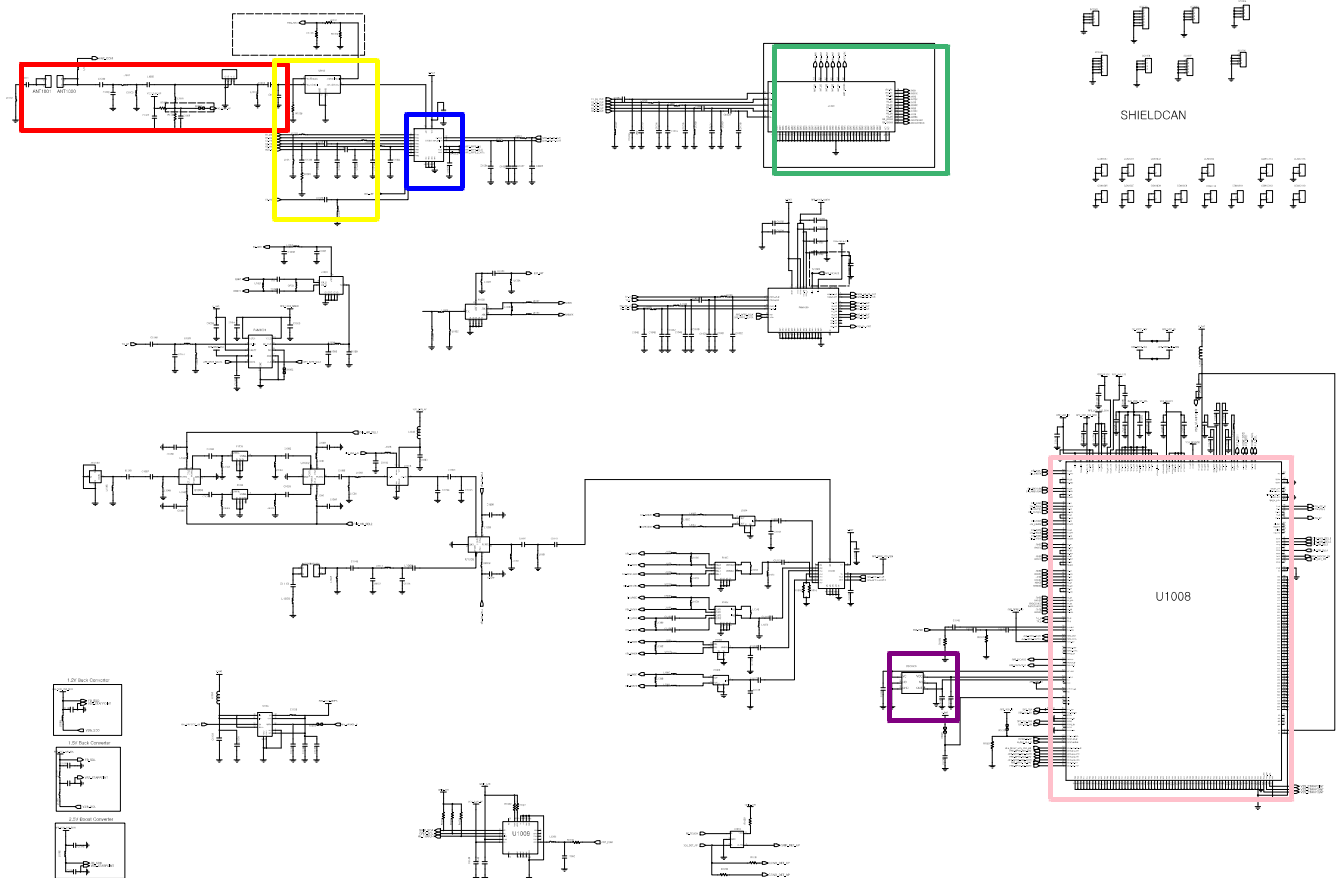


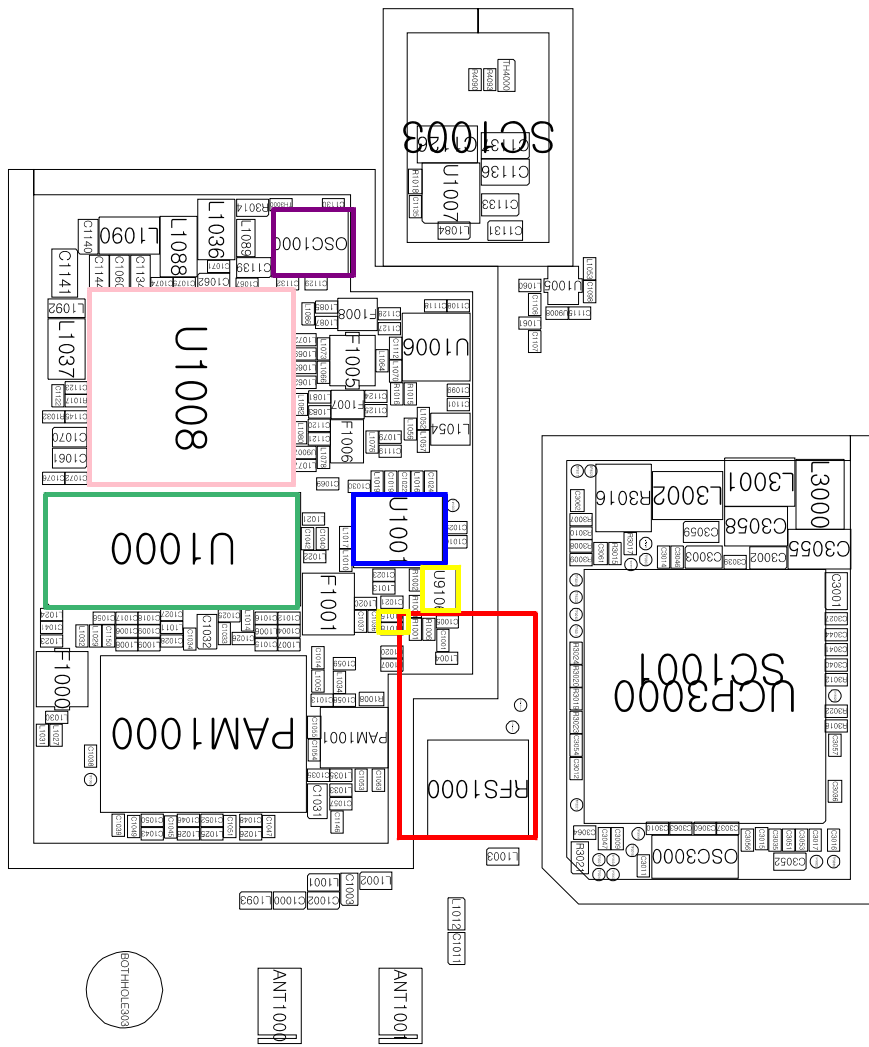




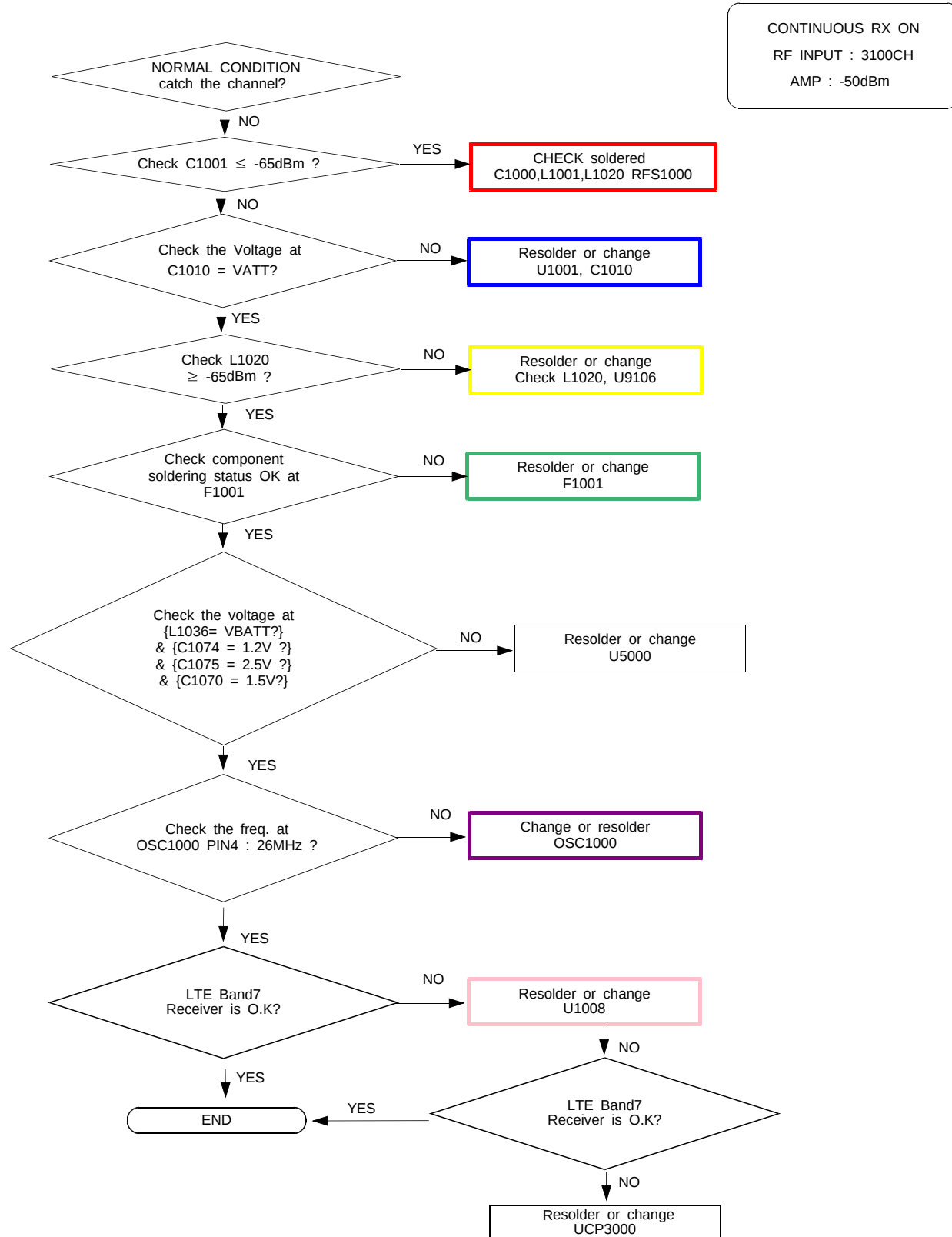
8-3-23. LTE B3 RX

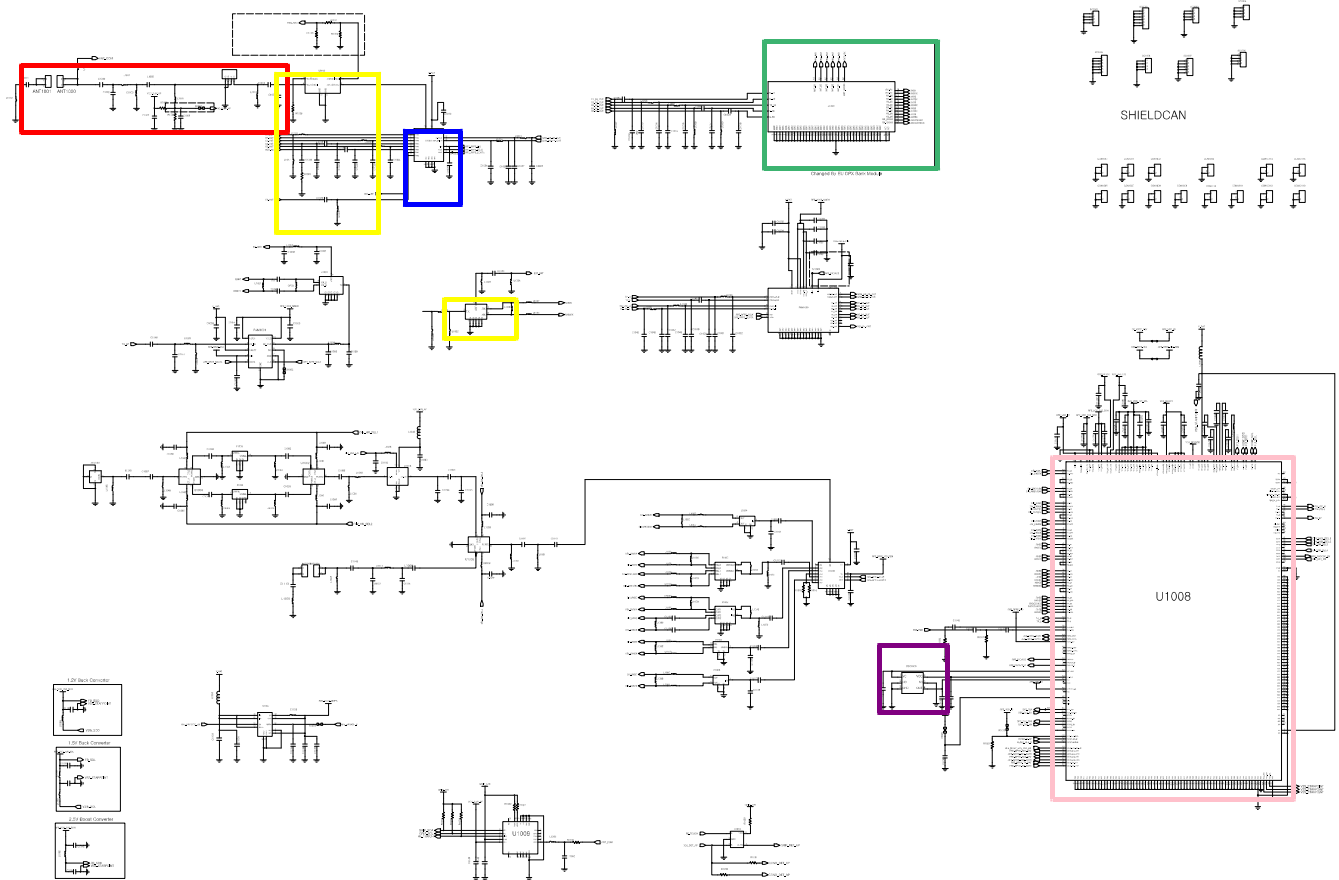


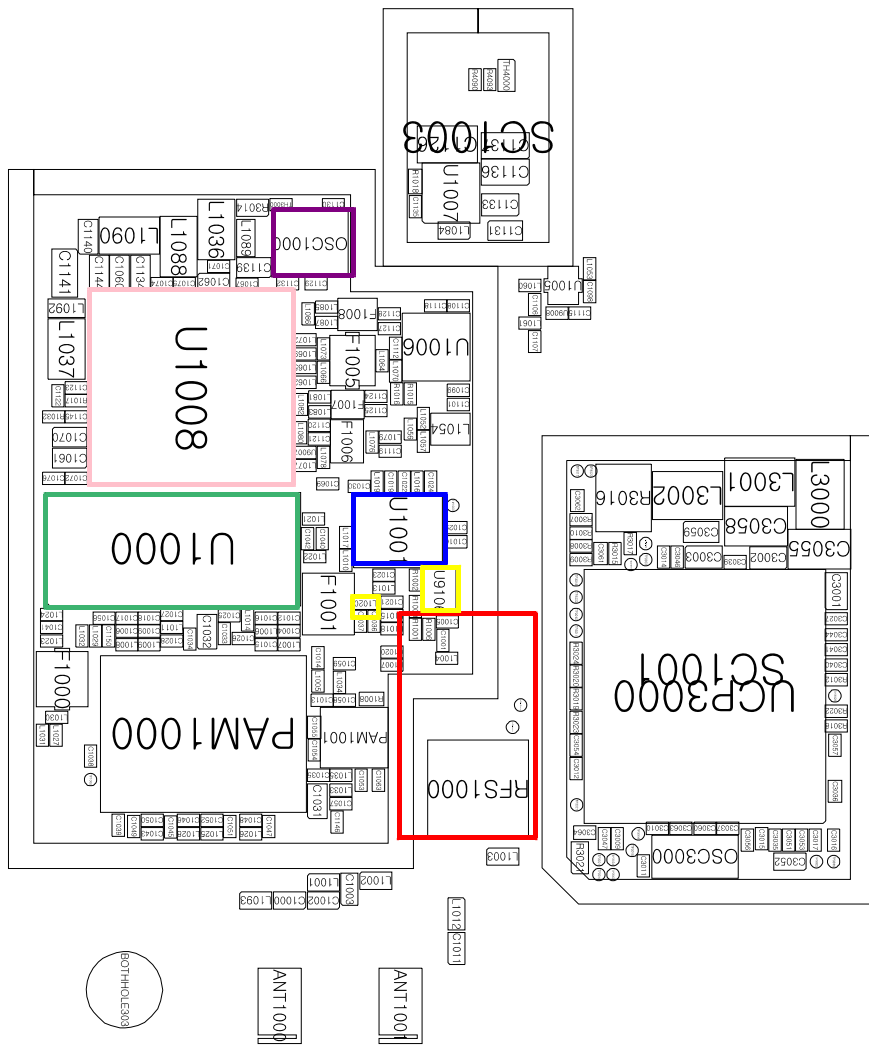




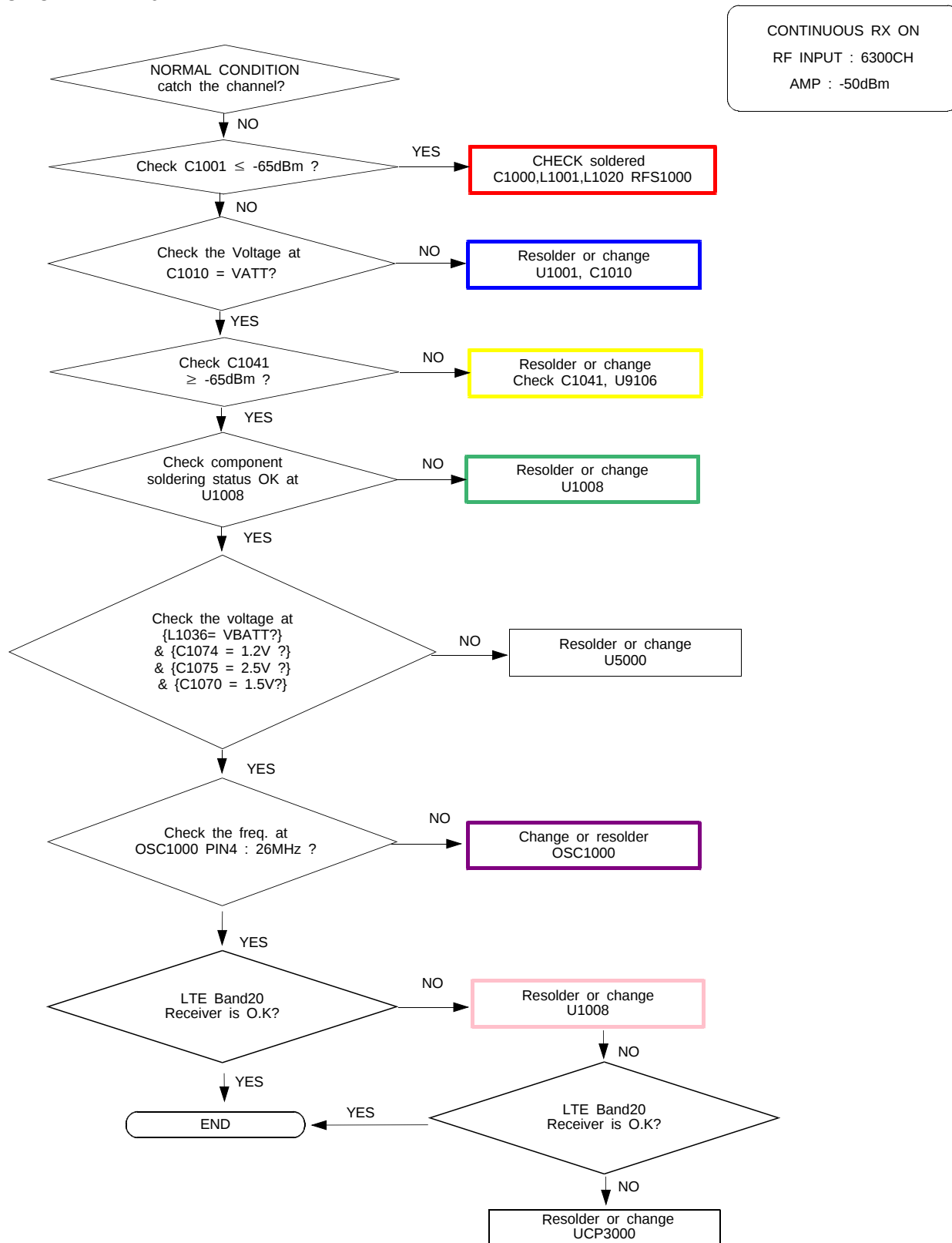
8-3-24. LTE B7 RX

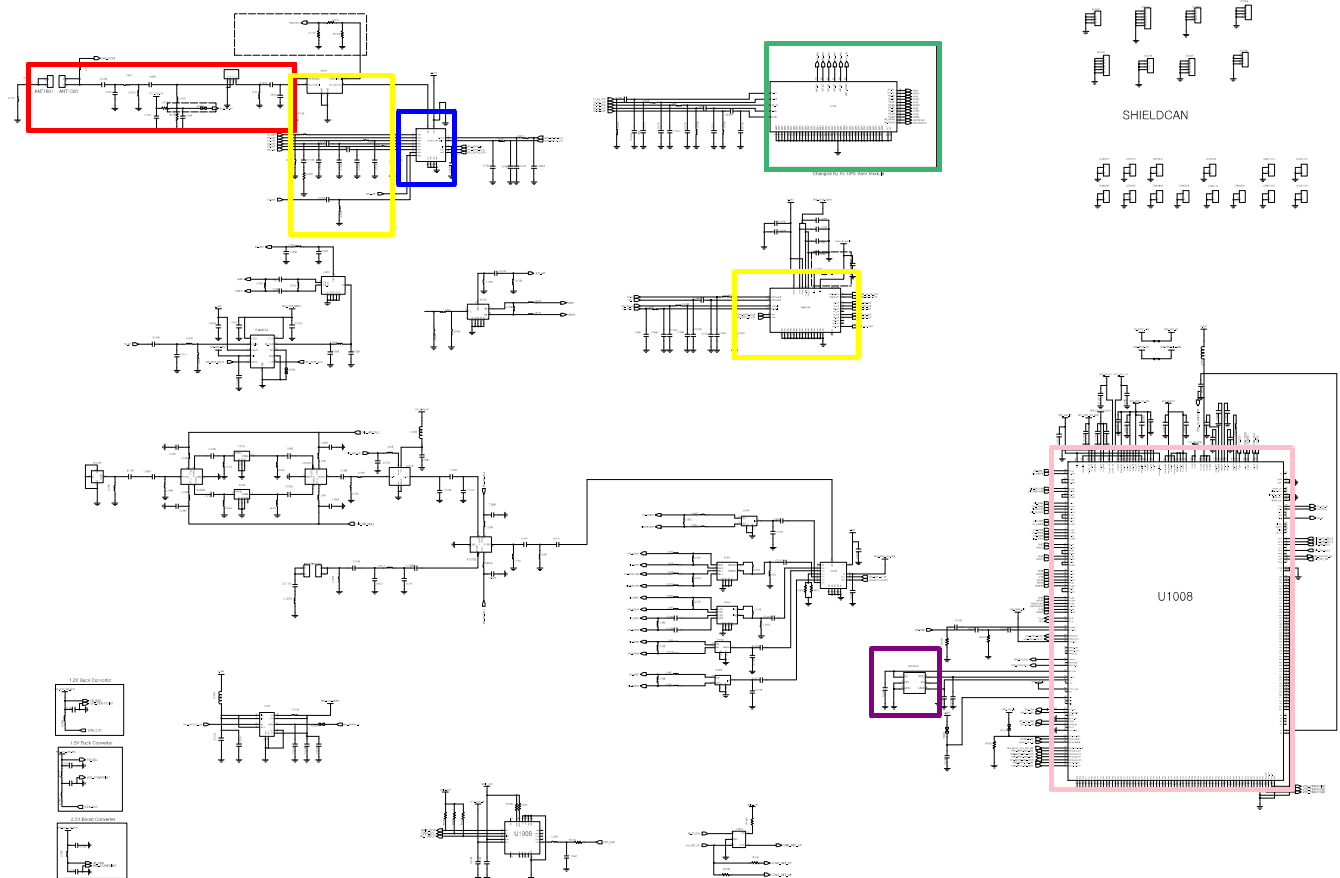




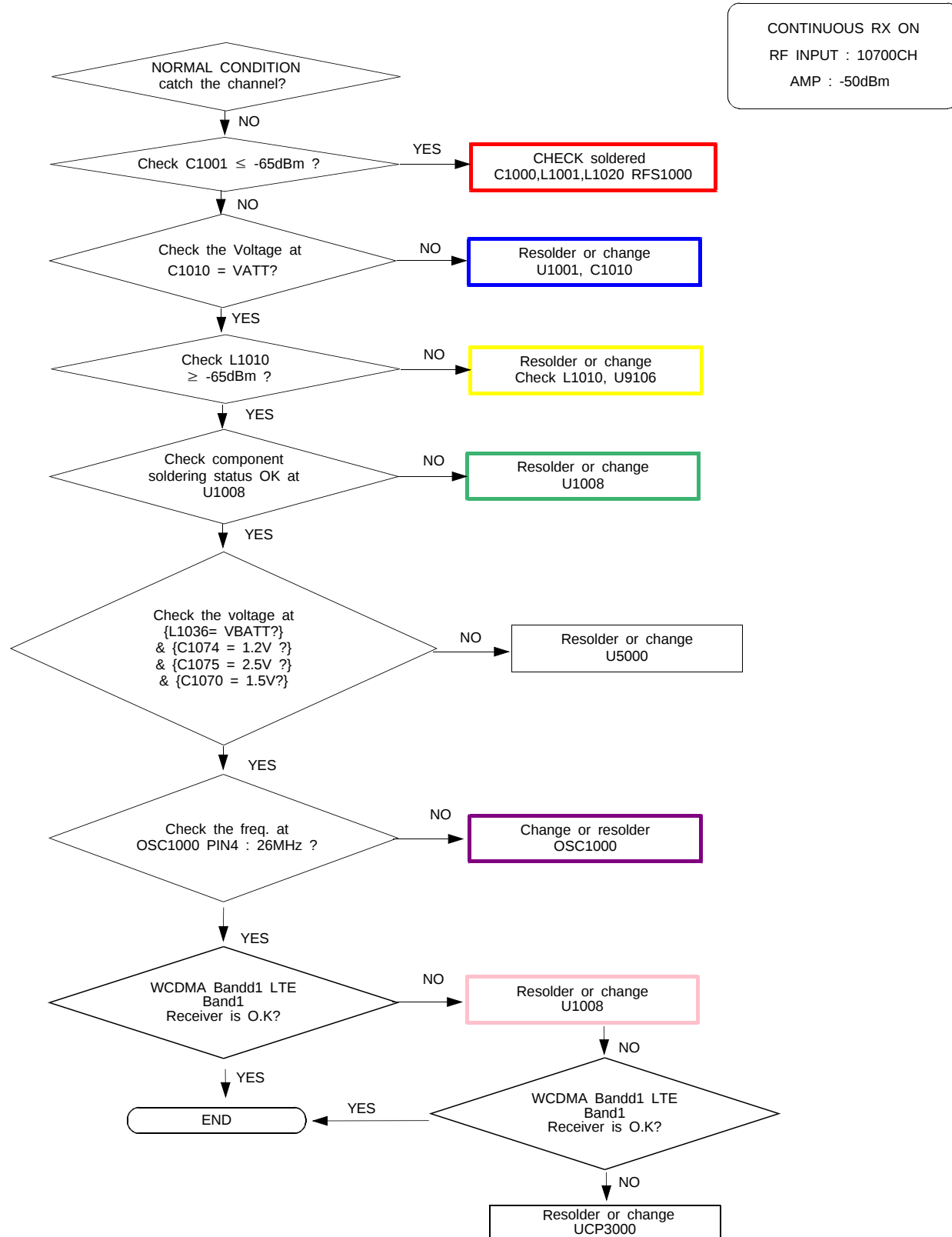


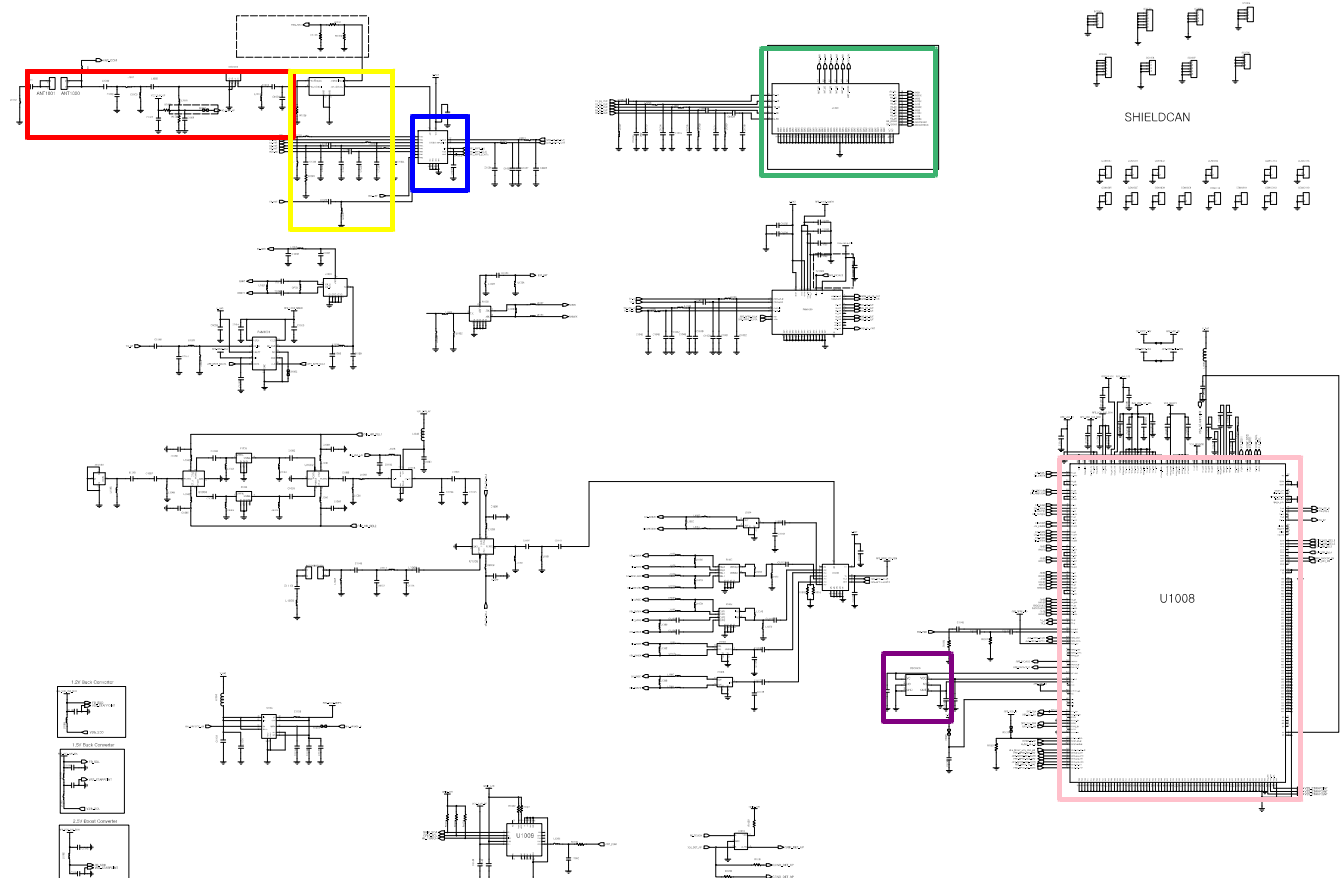
8-3-25. LTE B20 RX

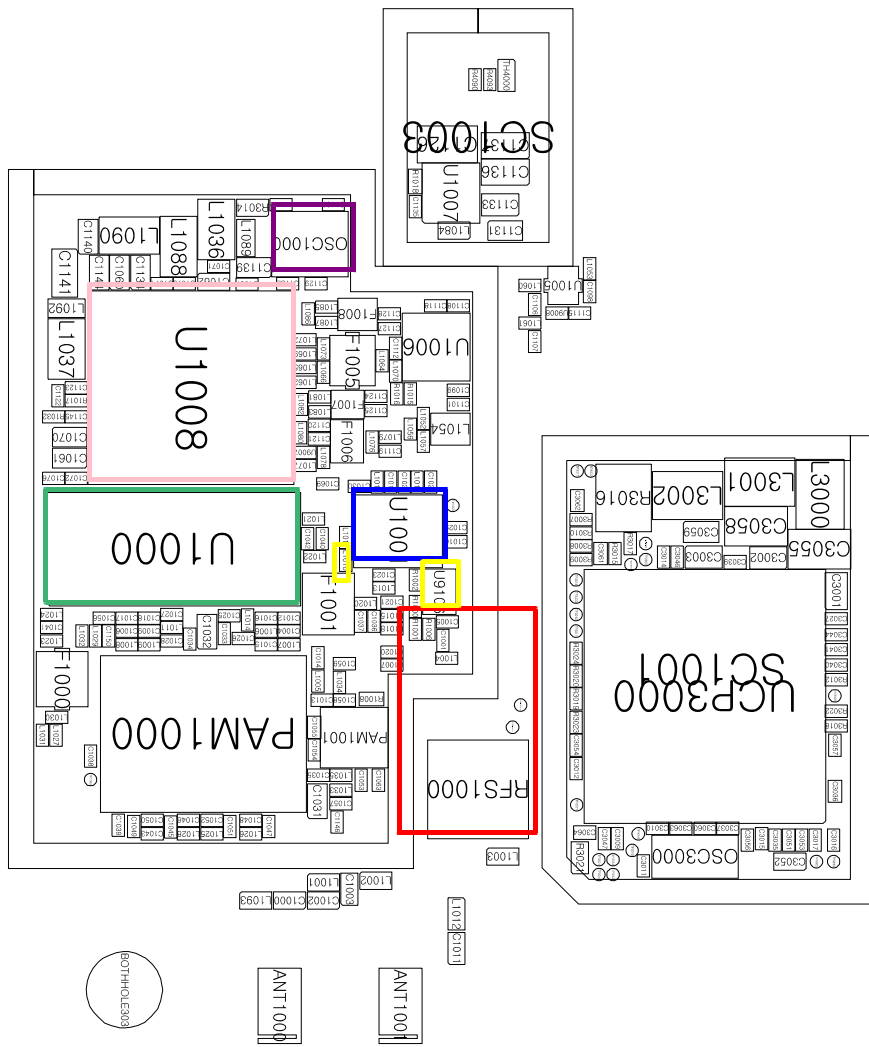




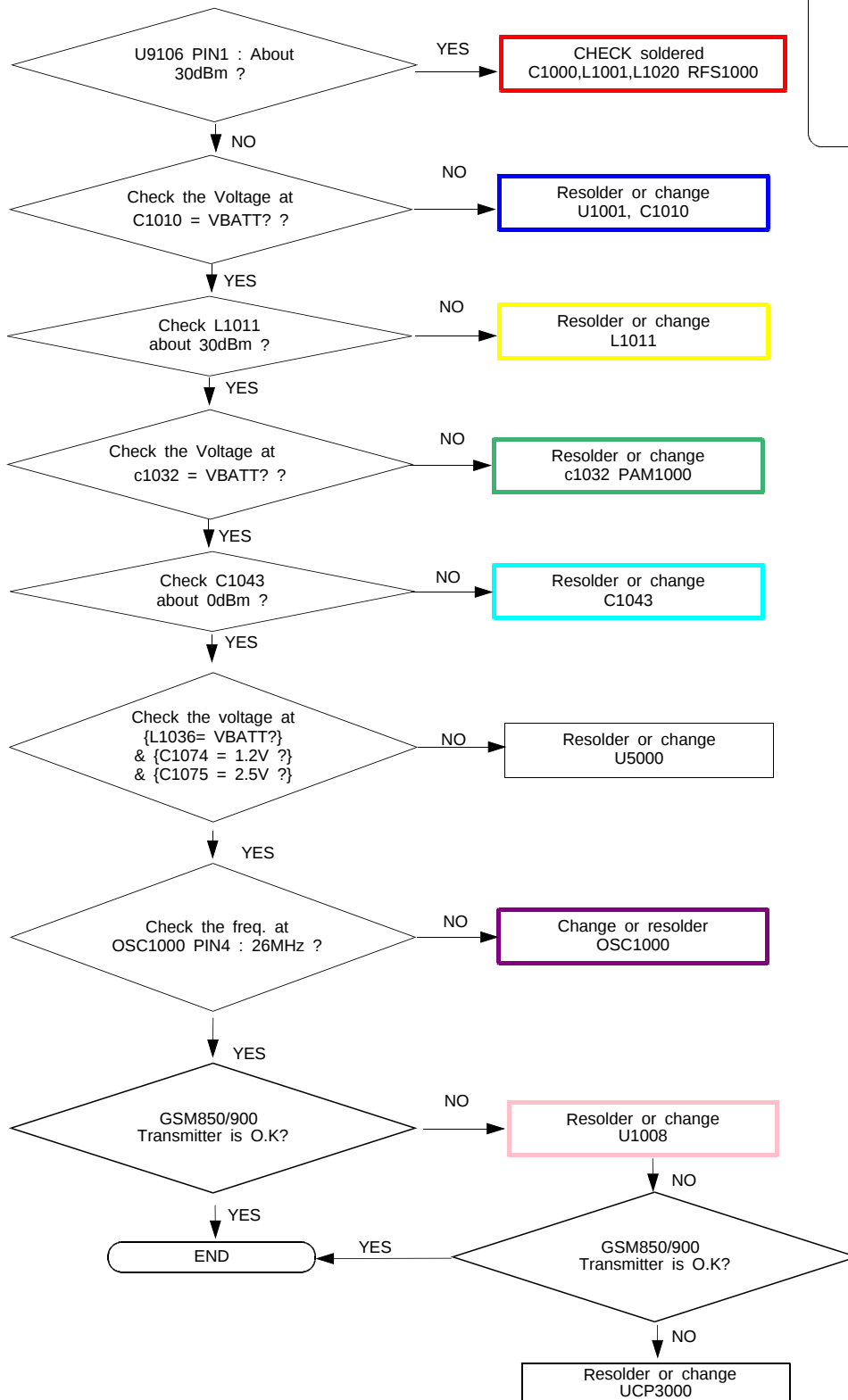
8-3-26. WCDMA Band1 LTE B1 RX



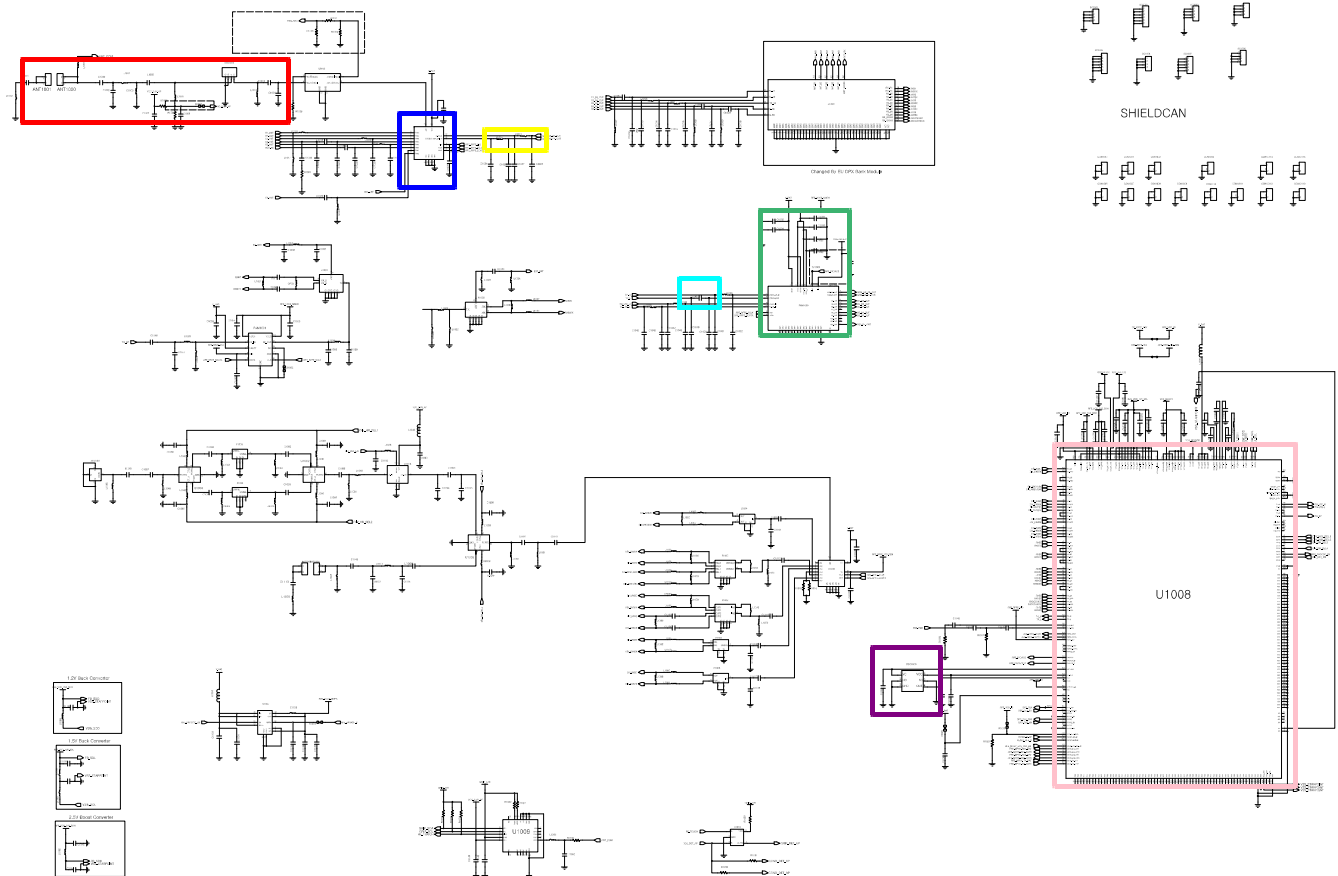


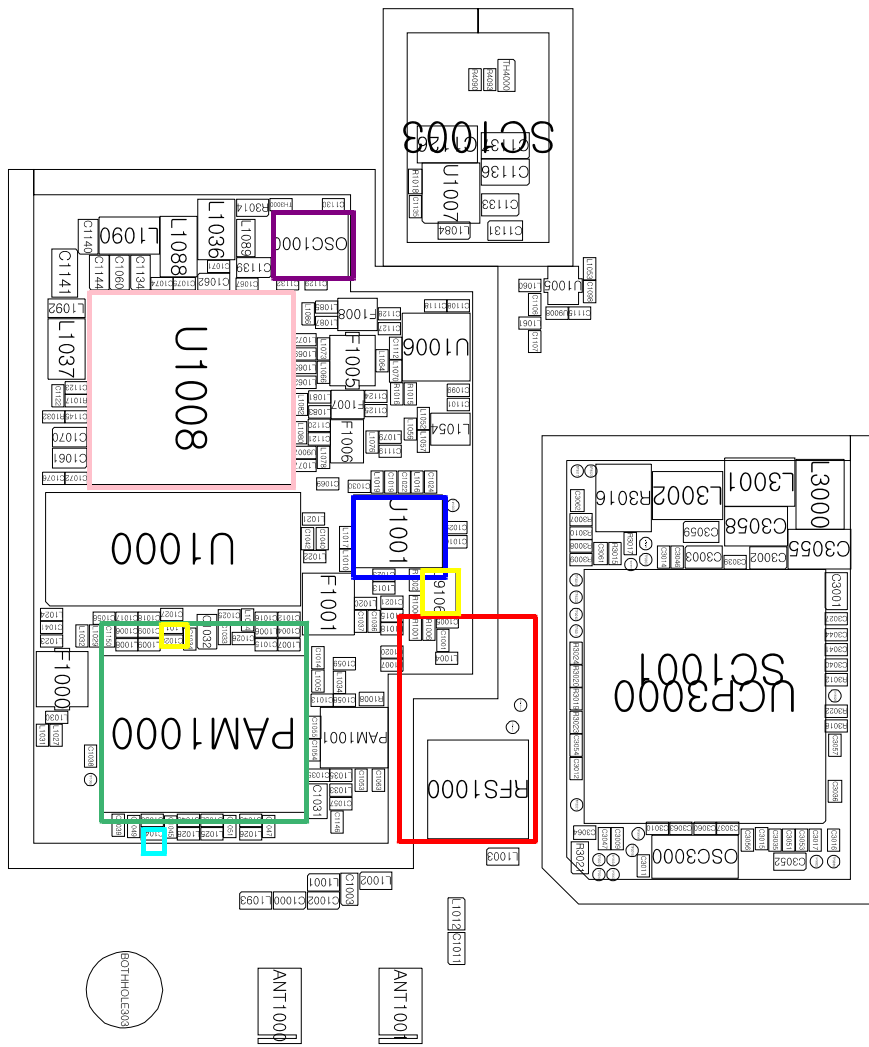


8-3-27. GSM850/ GSM900 TX

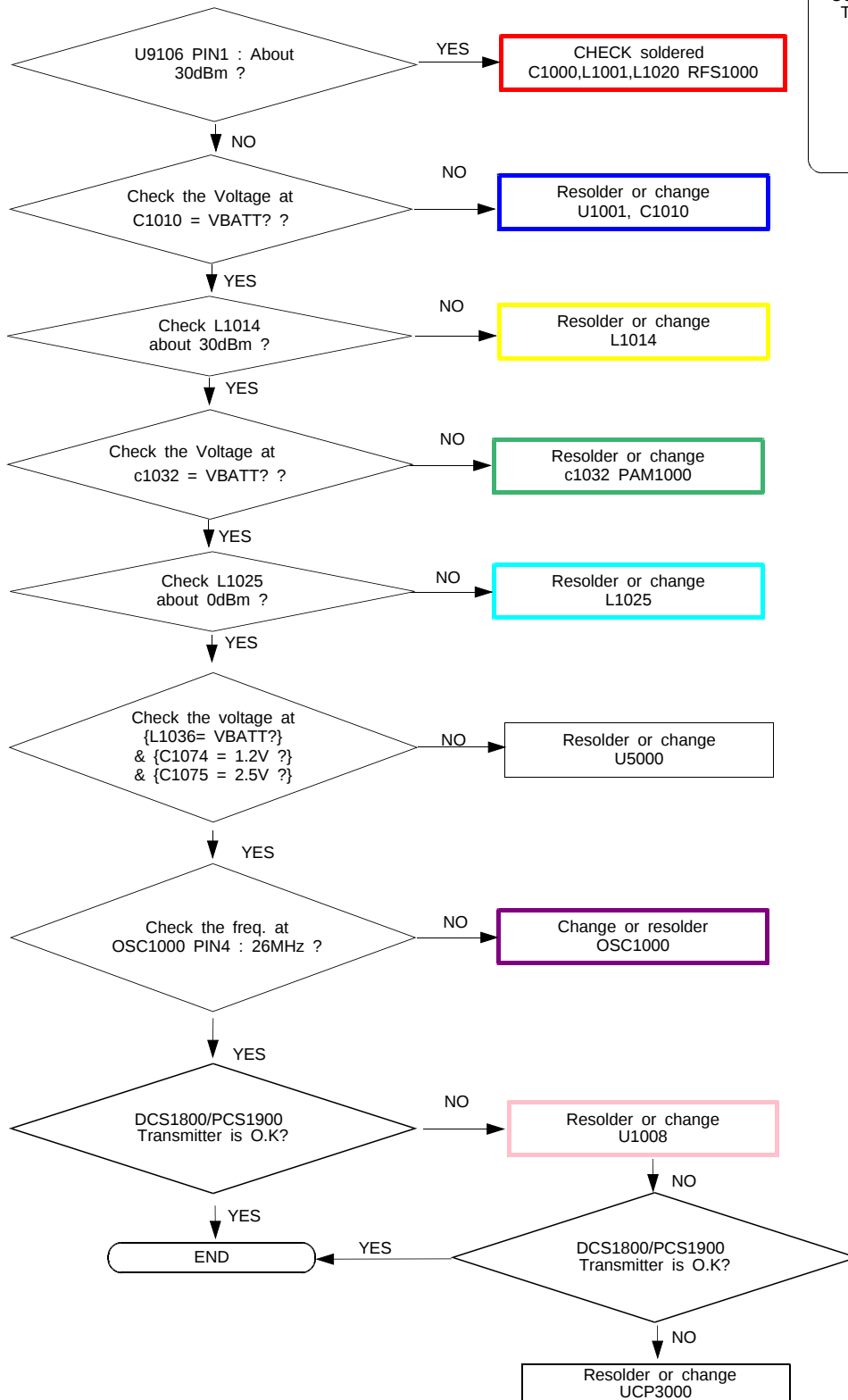


CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

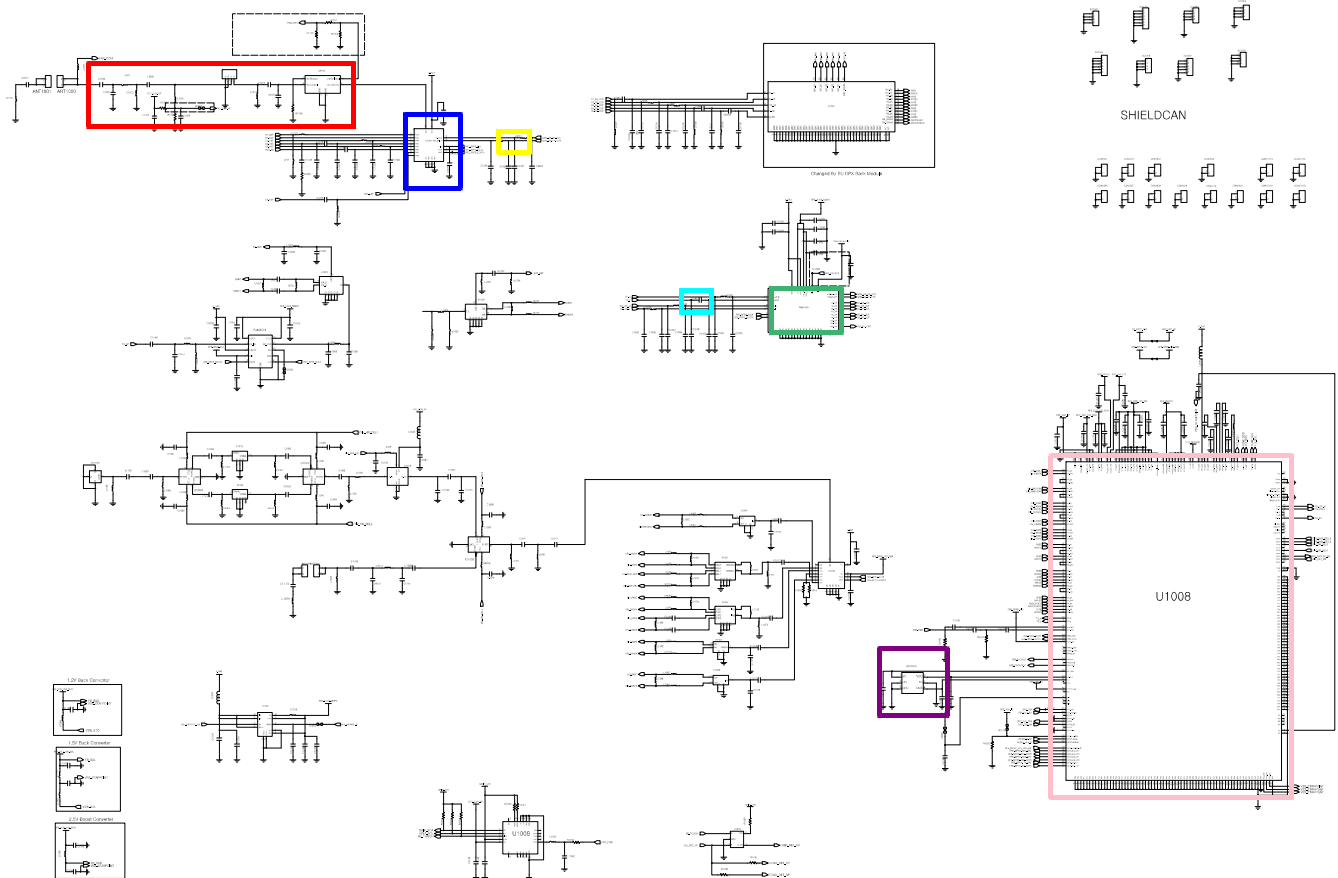


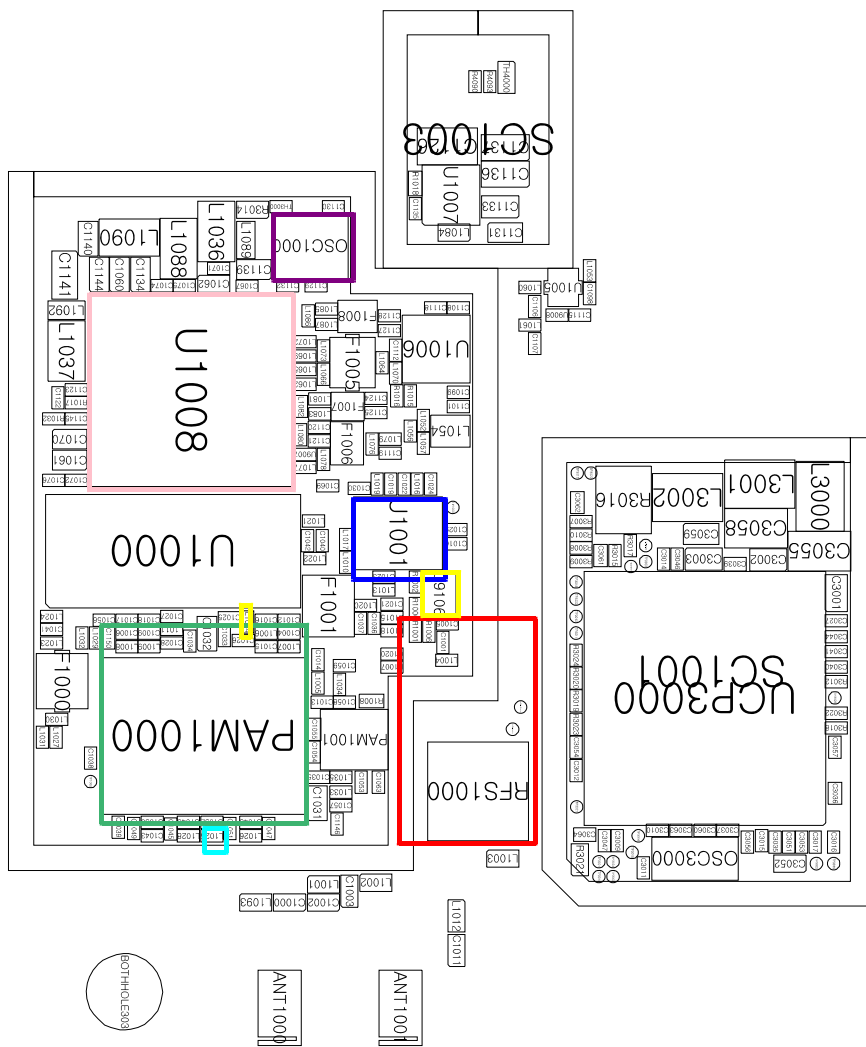


8-3-28. GSM1800/ GSM1900 TX

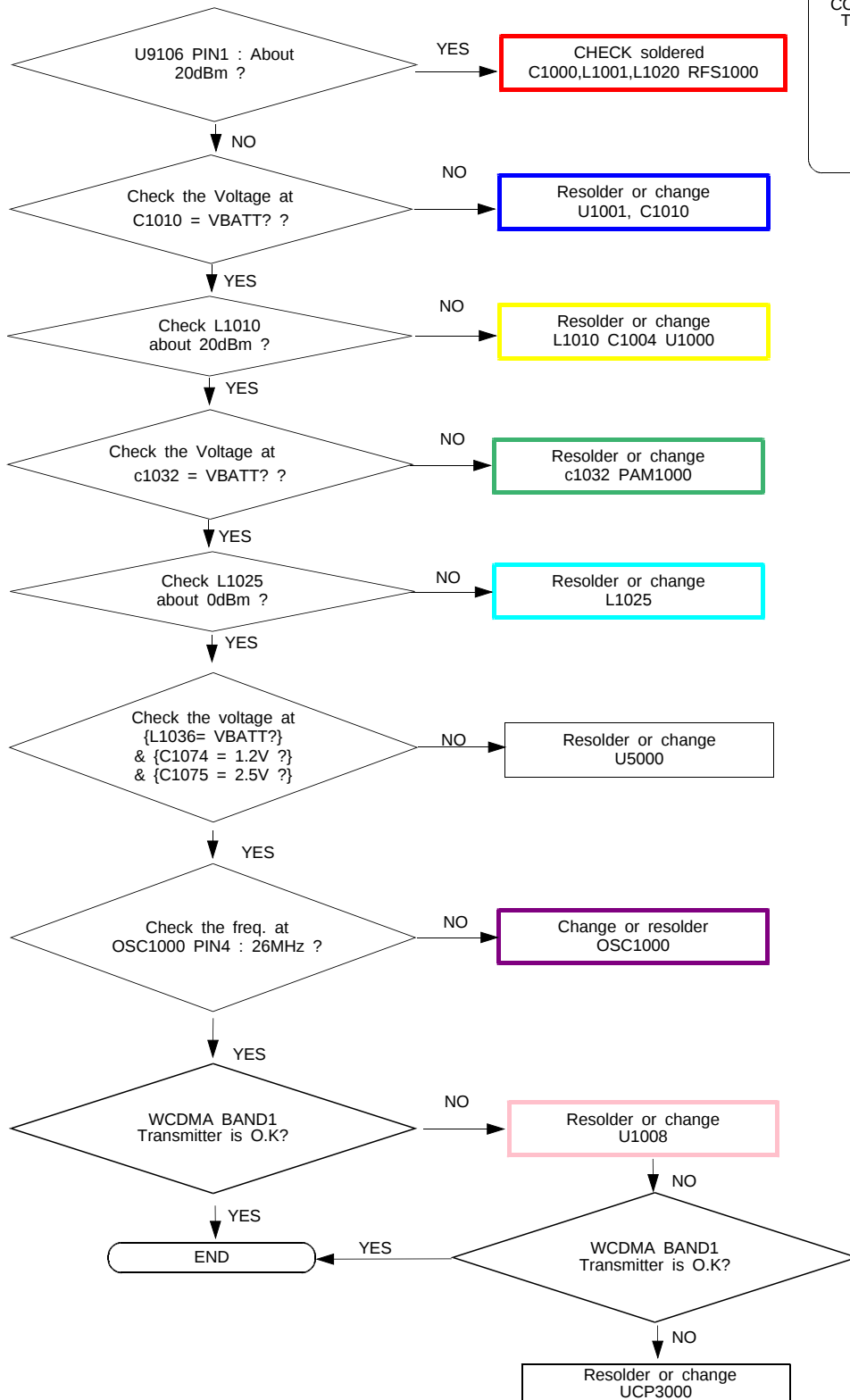


CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
DCS CH : 685
PCS CH : 661
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

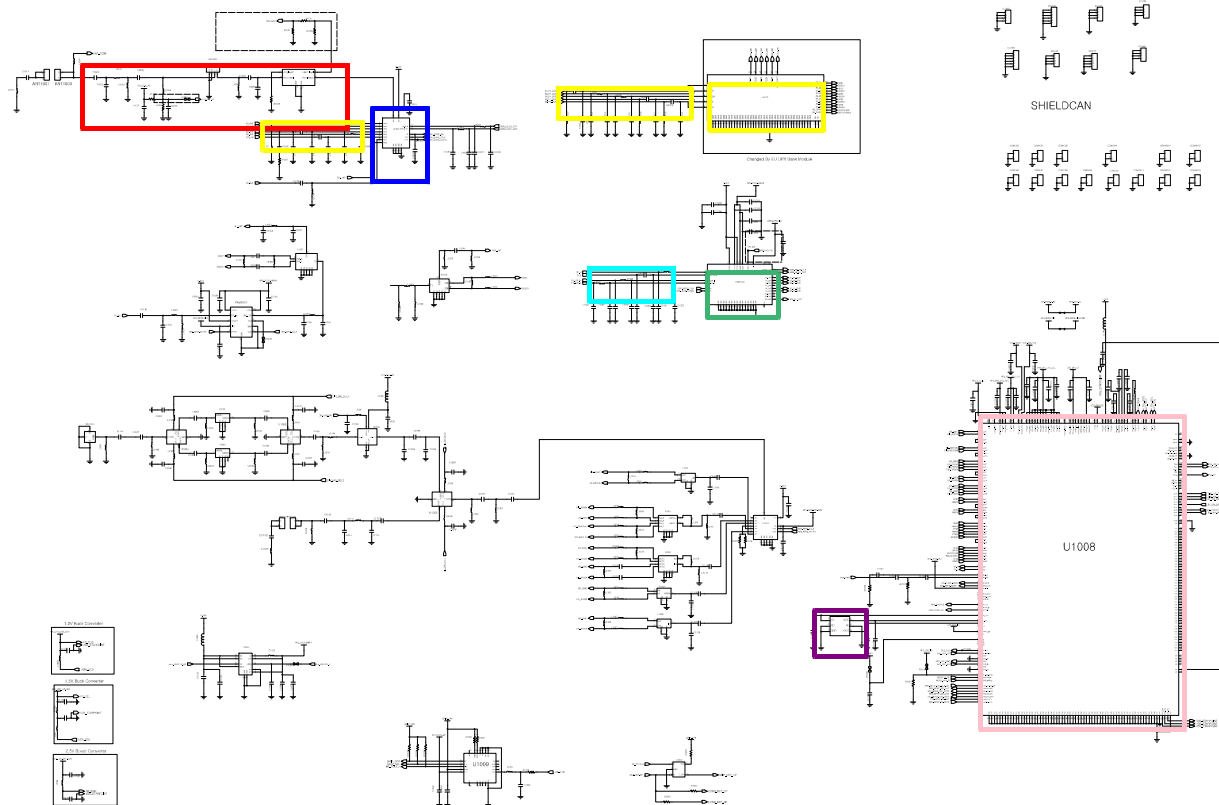


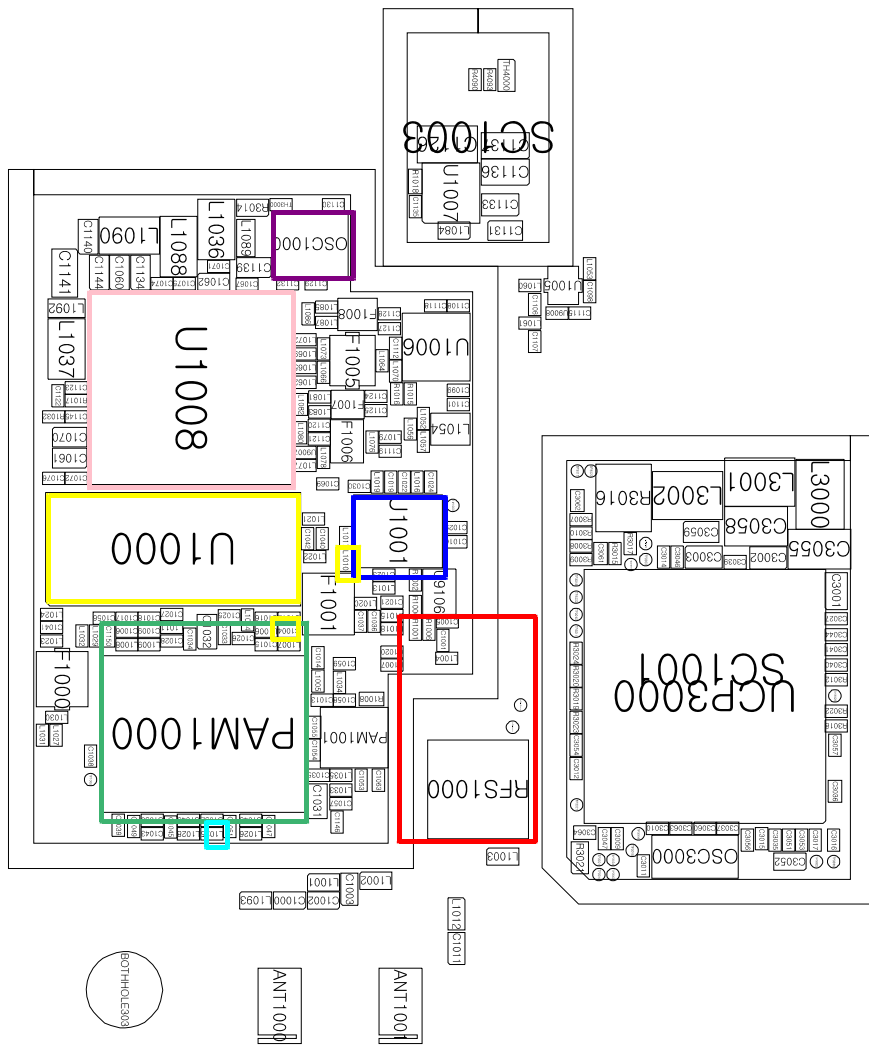


8-3-29. WCDMA BAND1 Tx

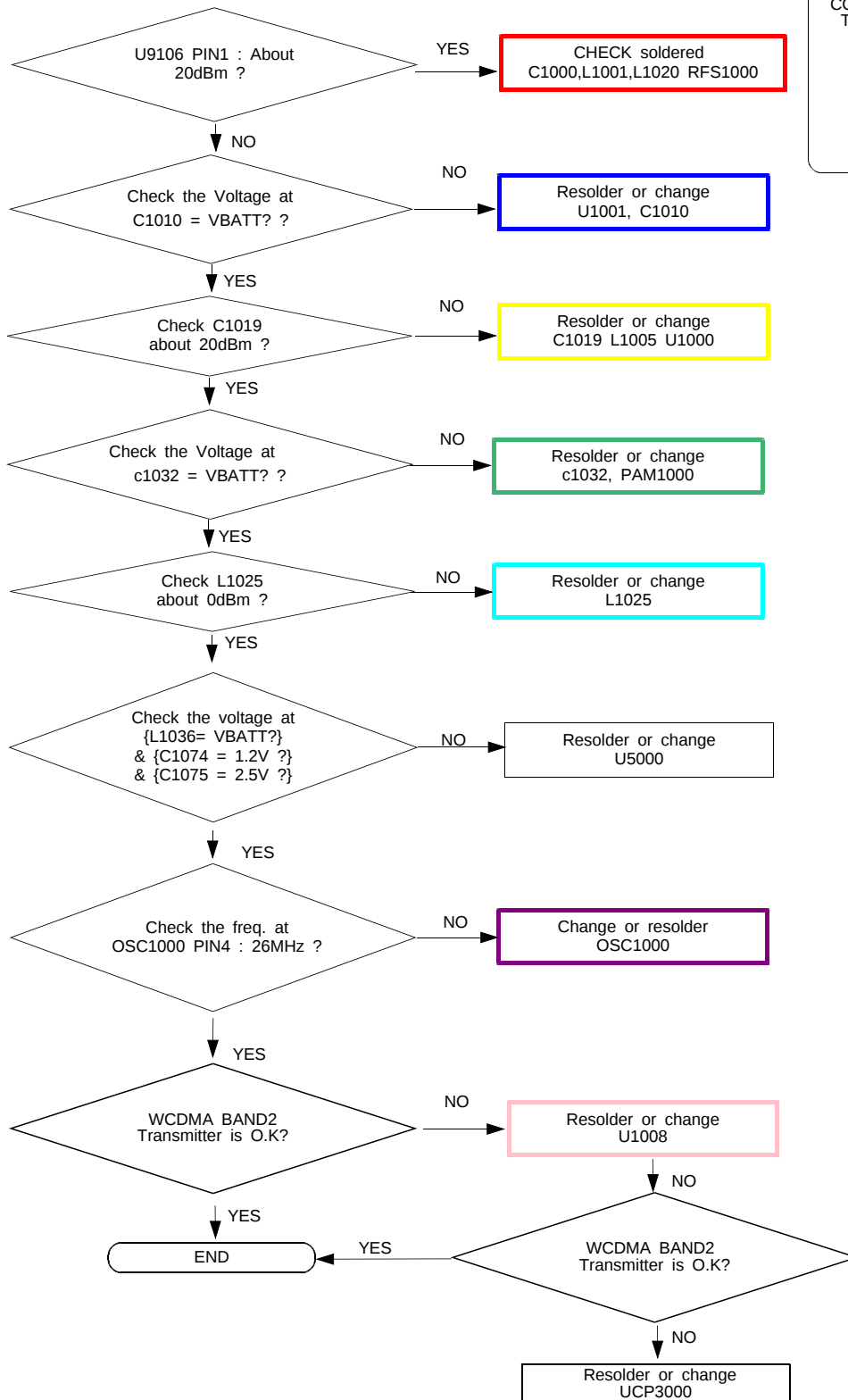


CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band1 CH : 10700
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

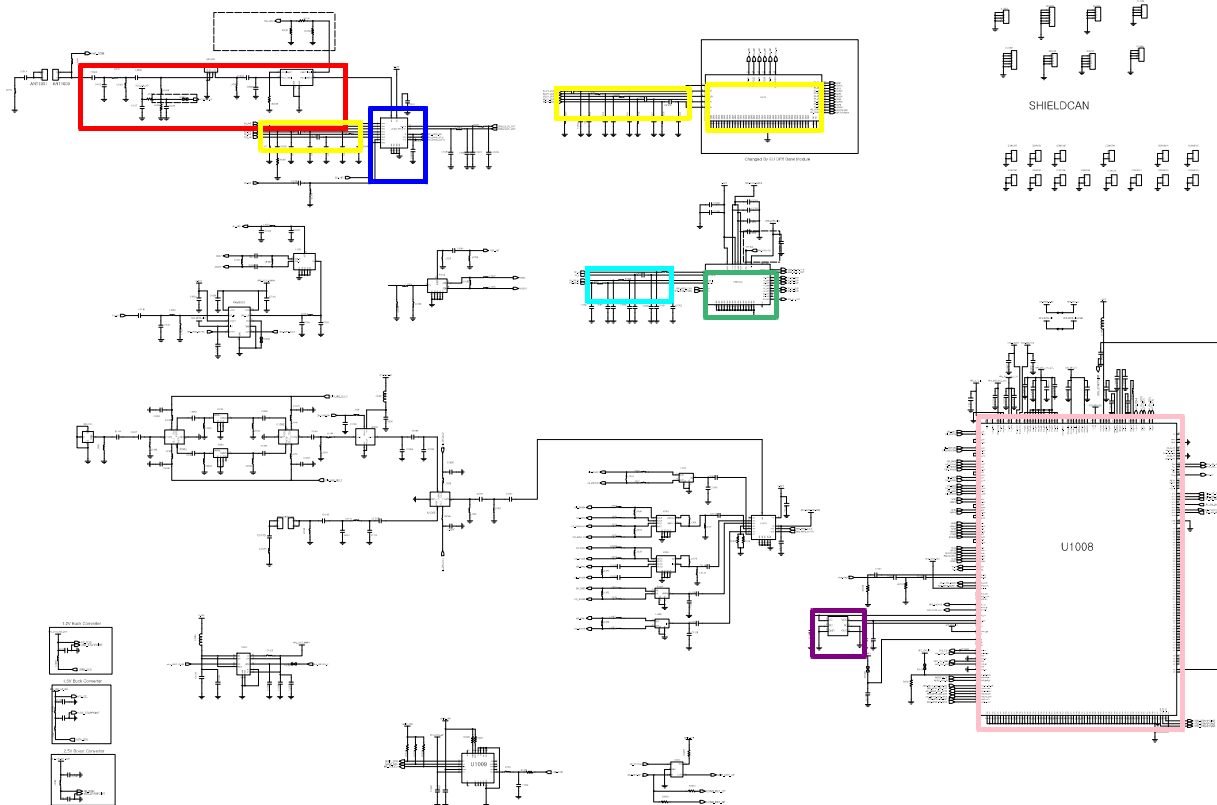




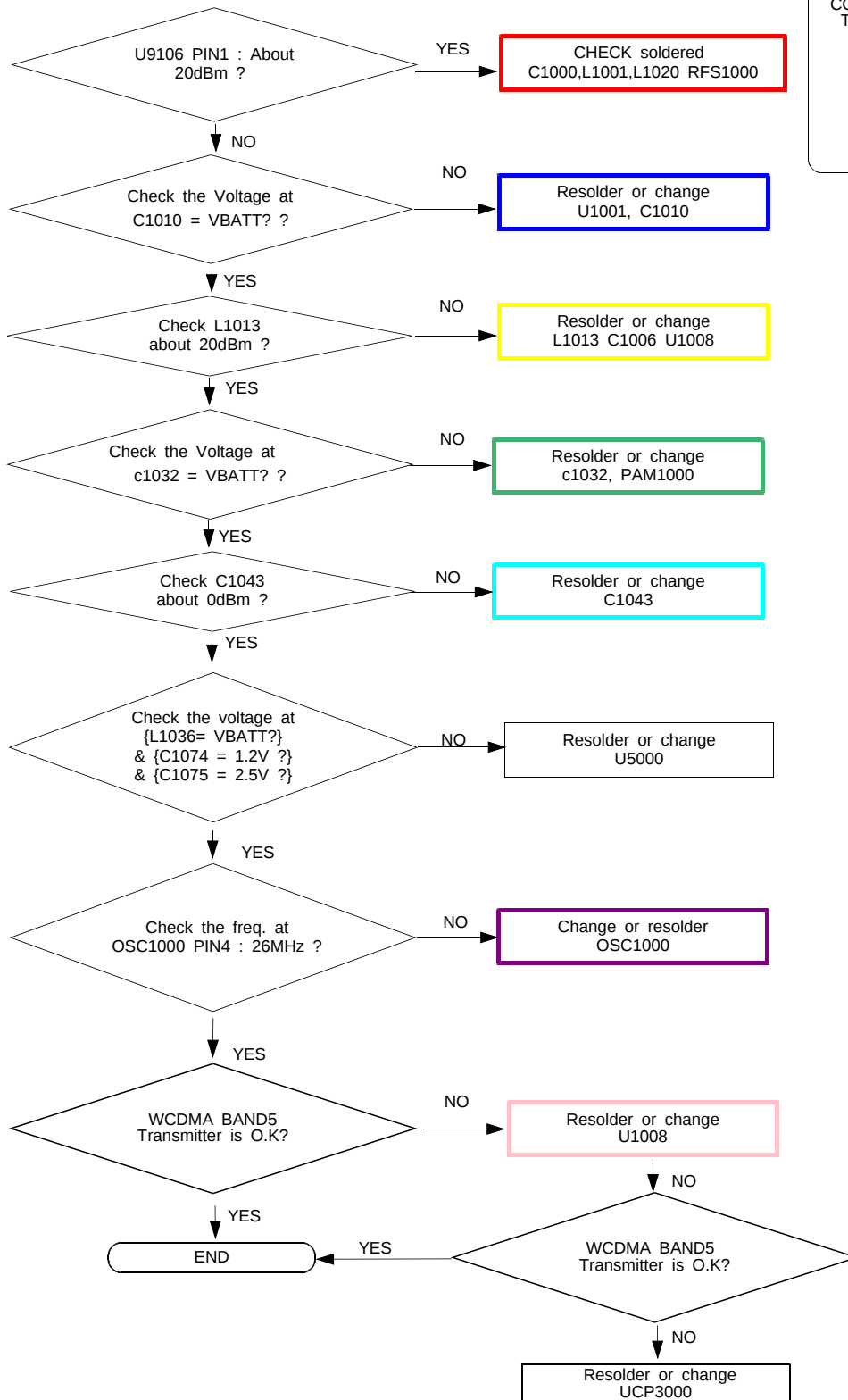
8-3-30. WCDMA BAND2 TX



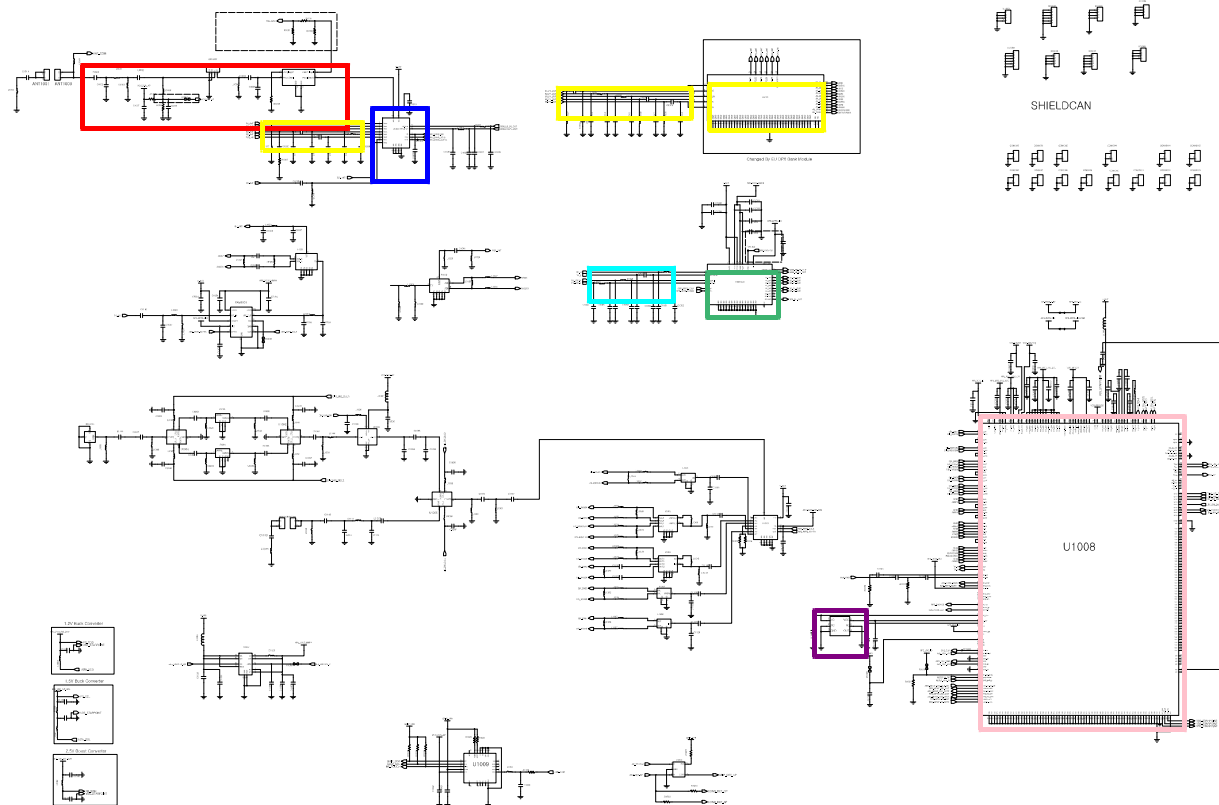
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band2 CH : 9880
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

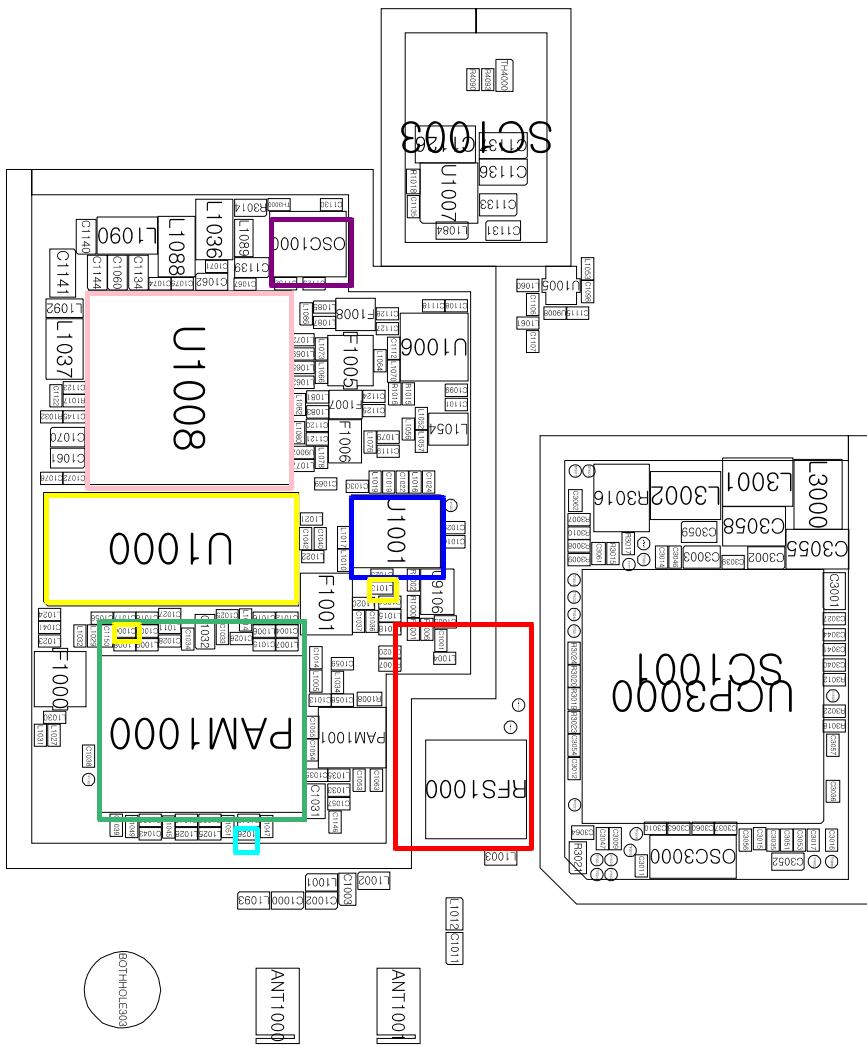


8-3-31. WCDMA BAND5 TX

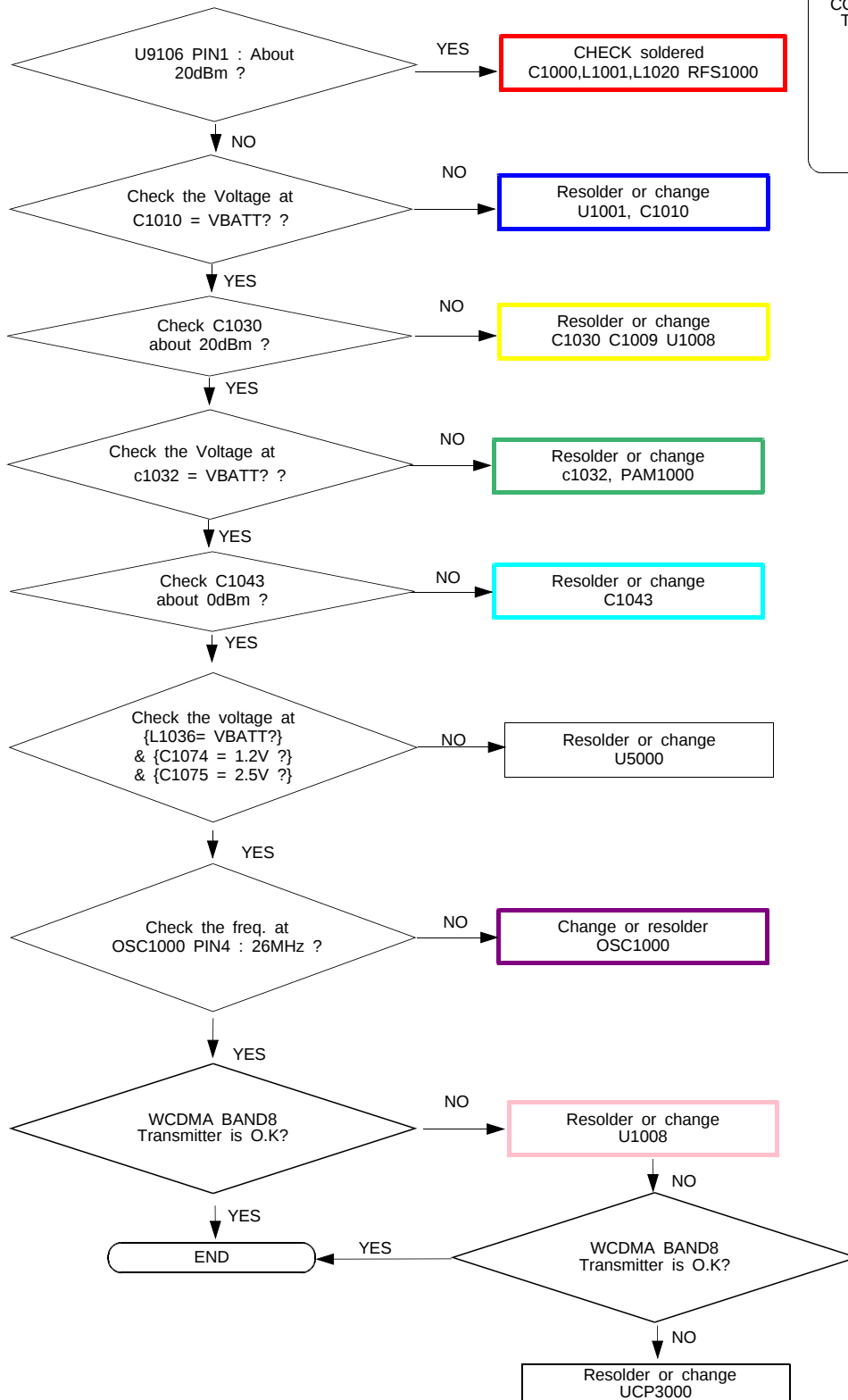


CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band5 CH : 4408
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

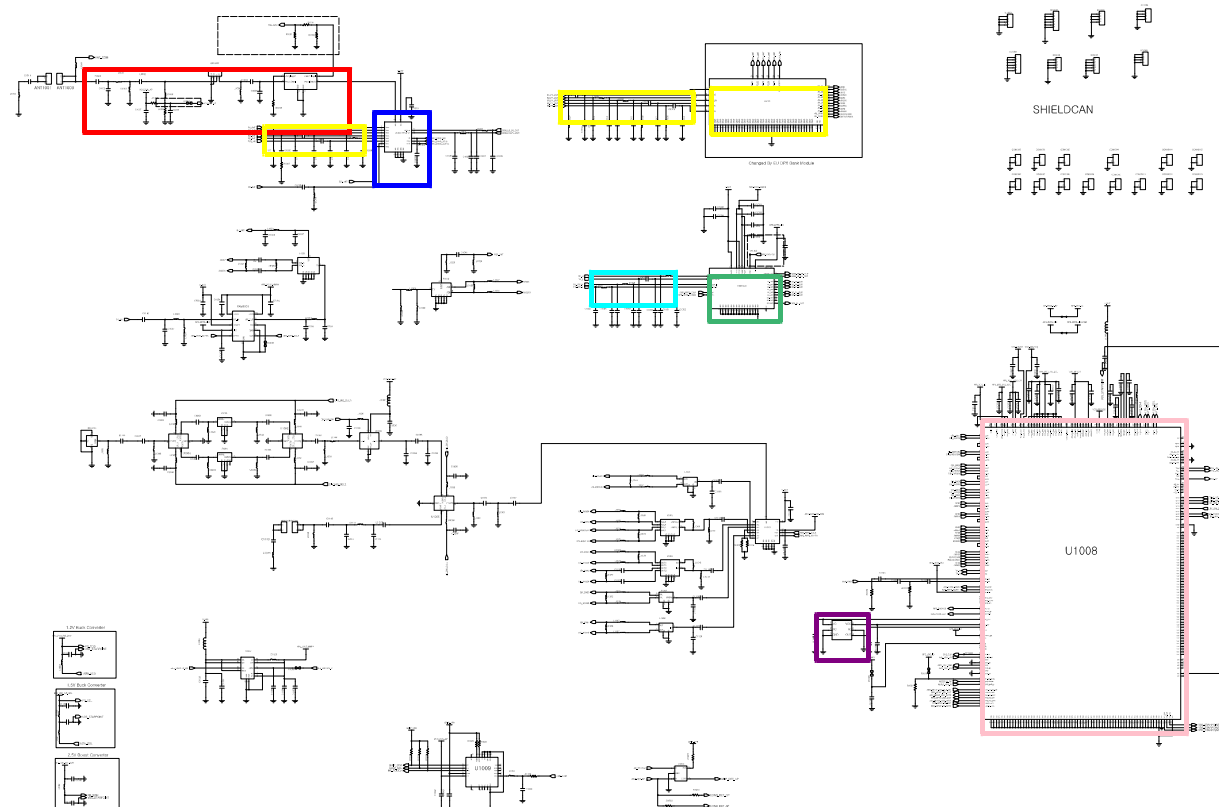


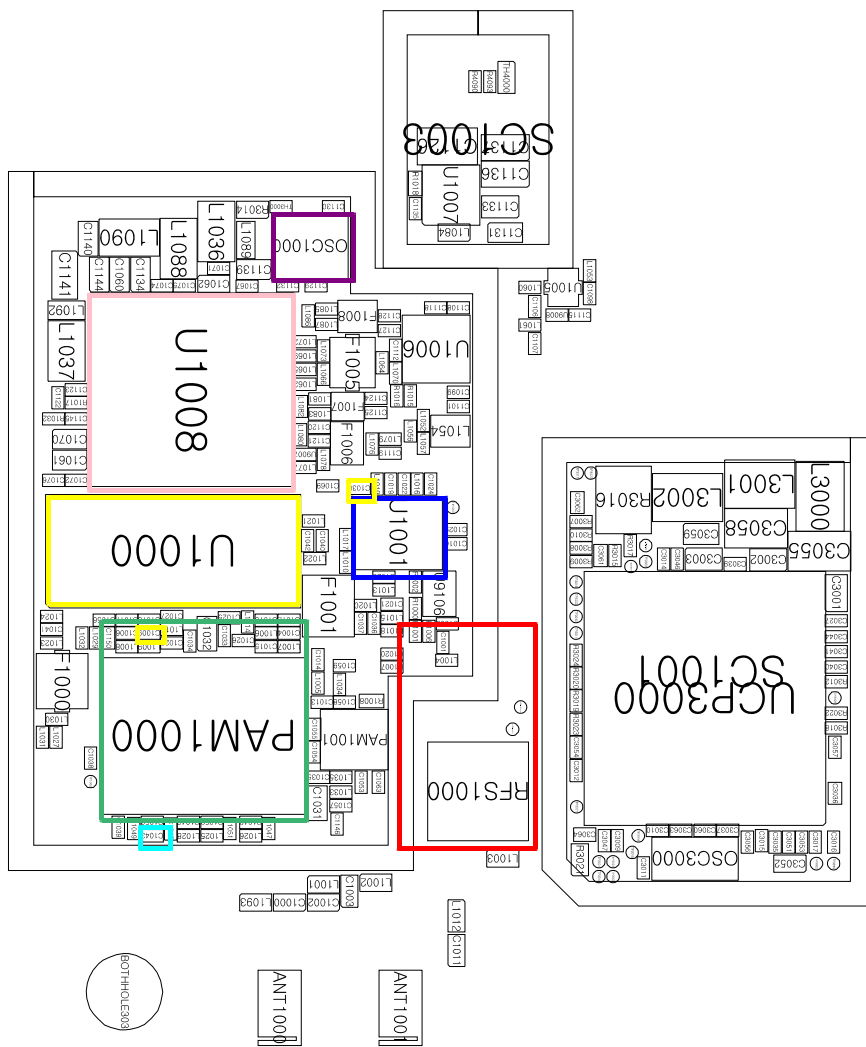


8-3-32. WCDMA BAND8 TX

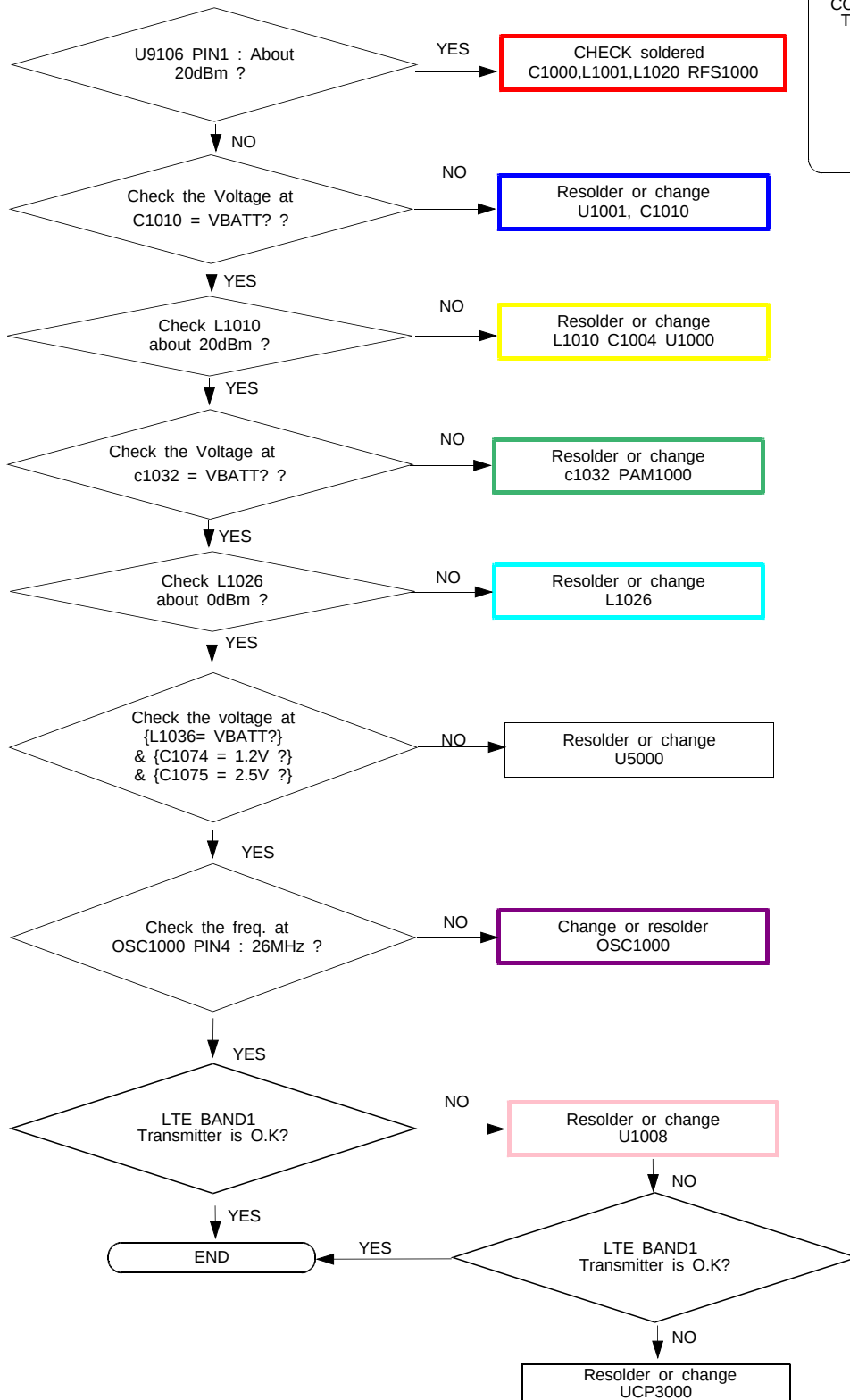


CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band8 CH : 3013
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



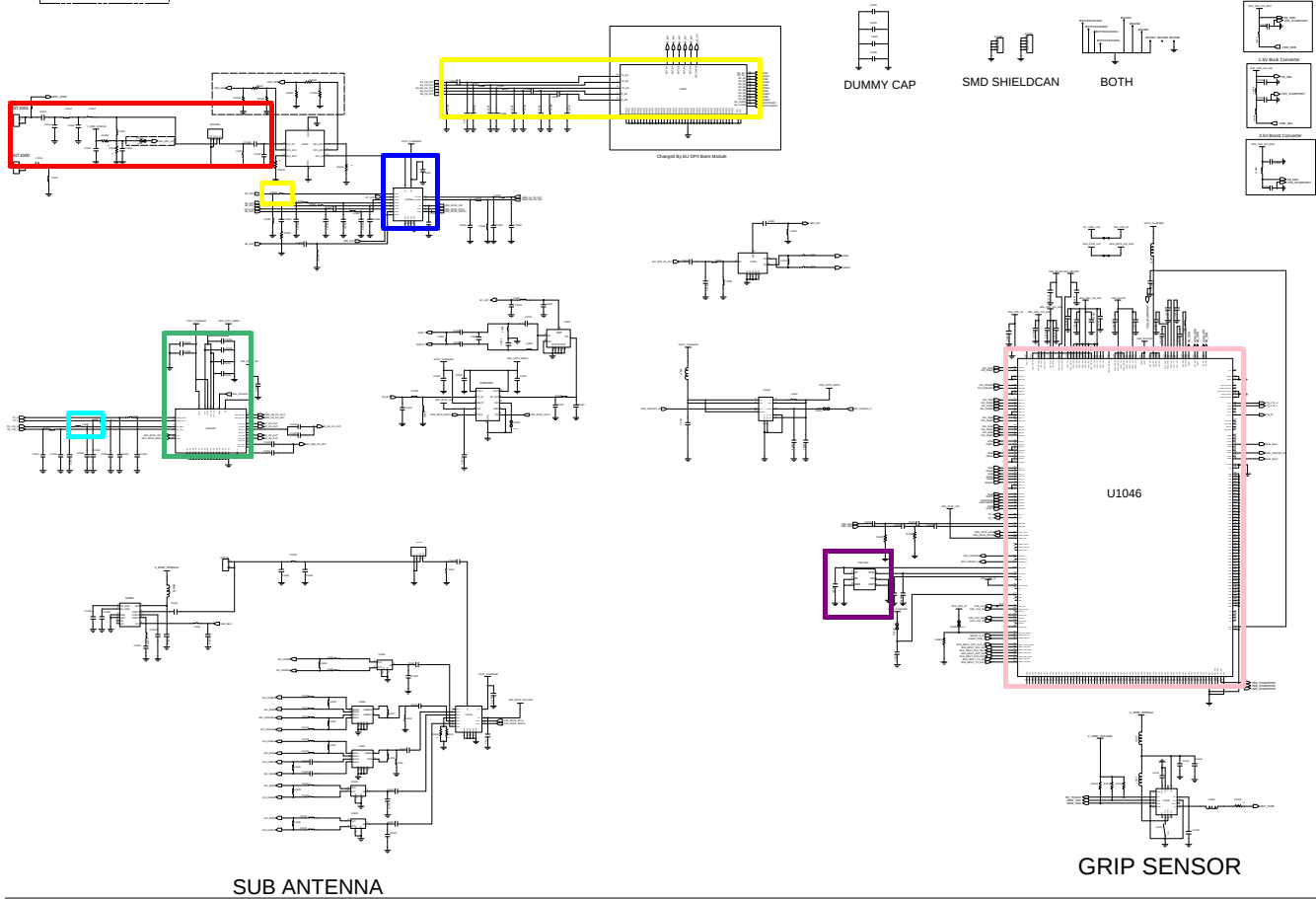


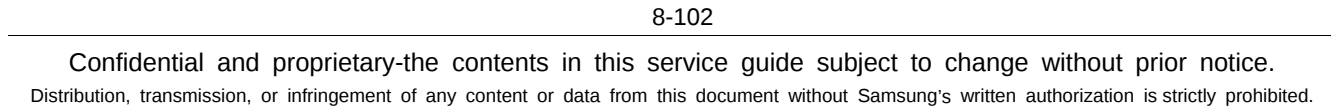
8-3-33. LTE BAND1 TX



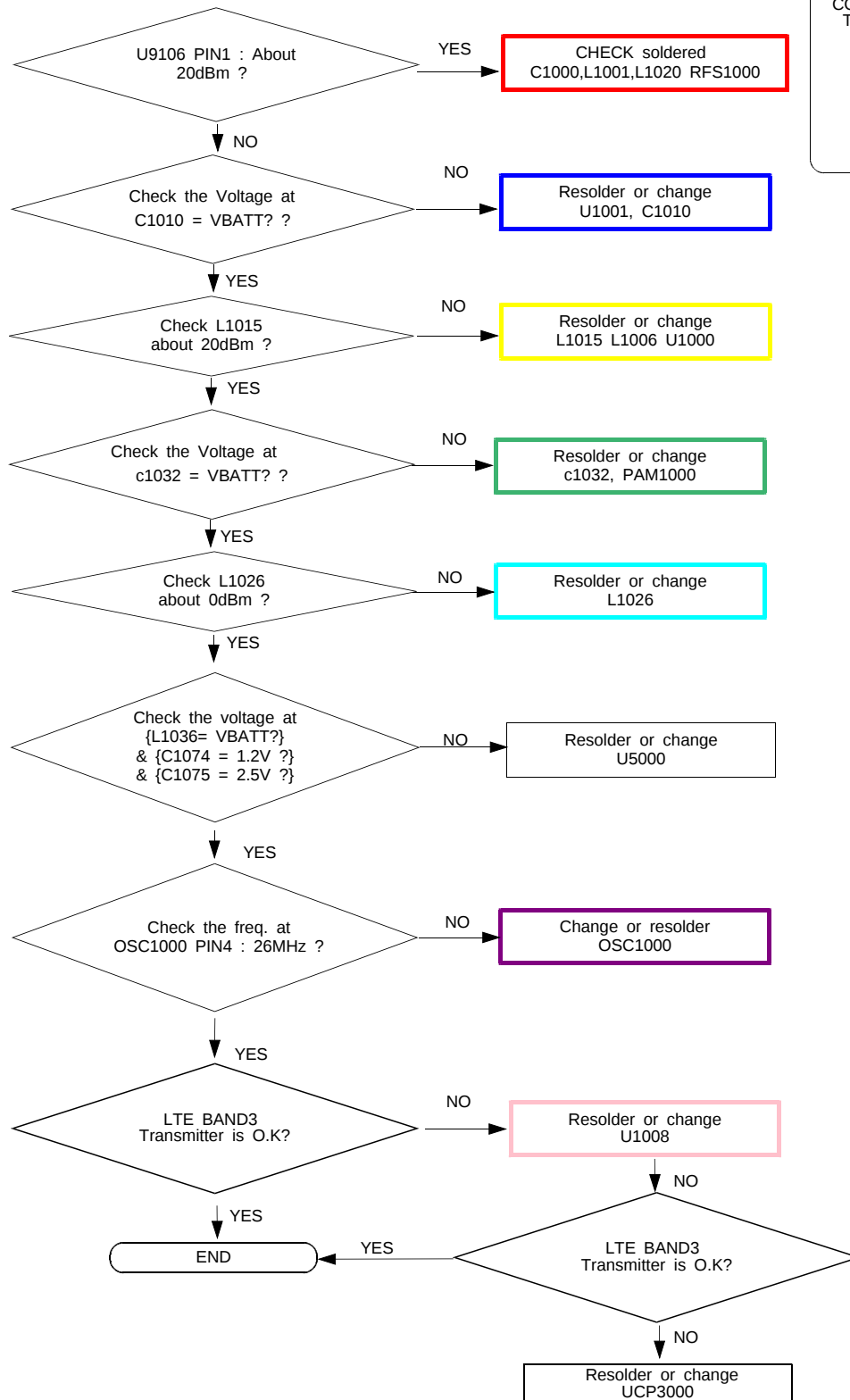
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band1 CH : 18300
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

RF_PART

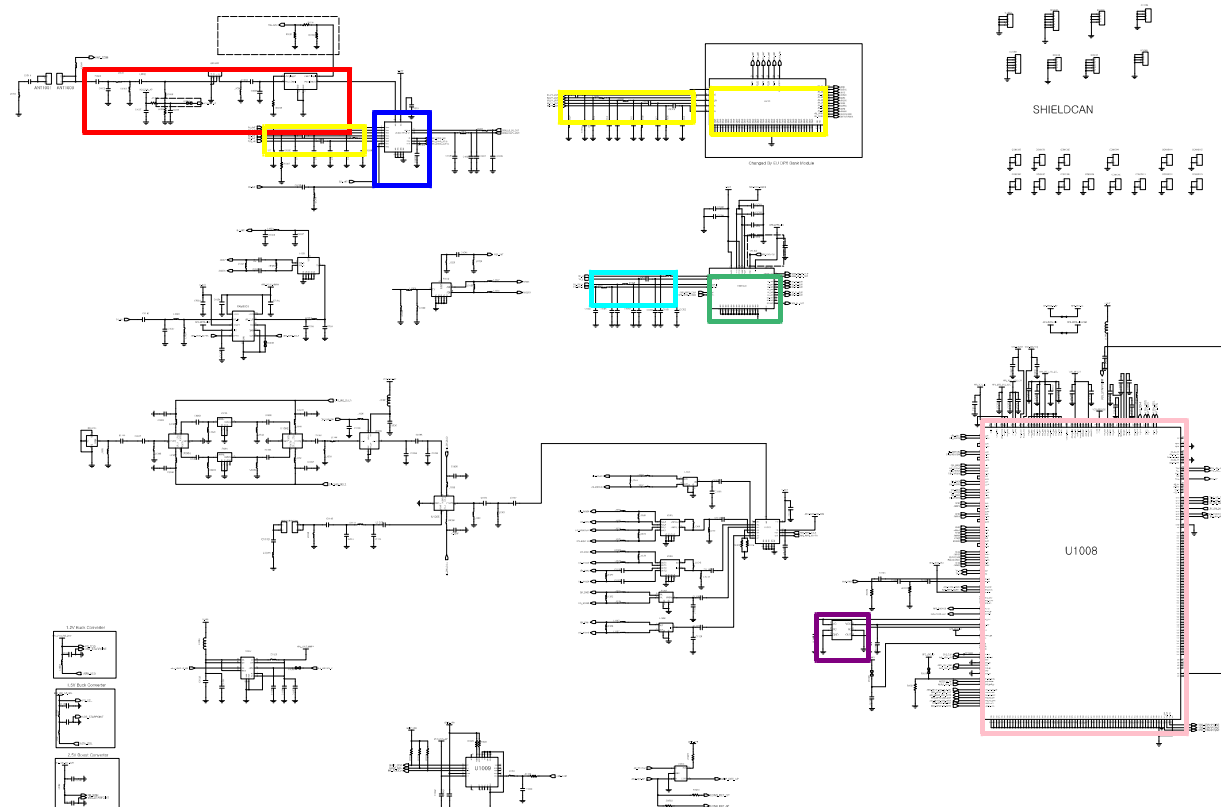




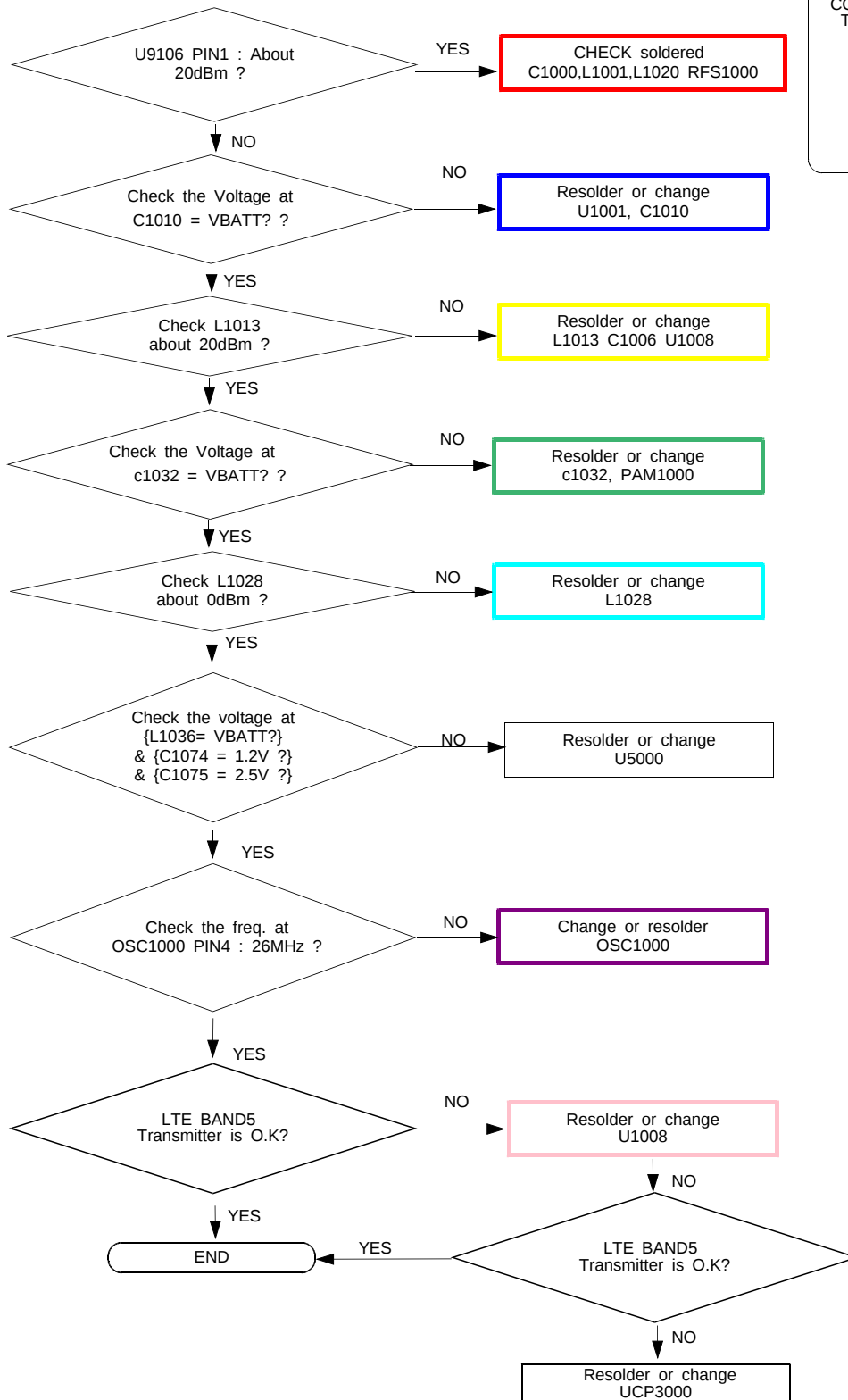
8-3-34. LTE BAND3 TX



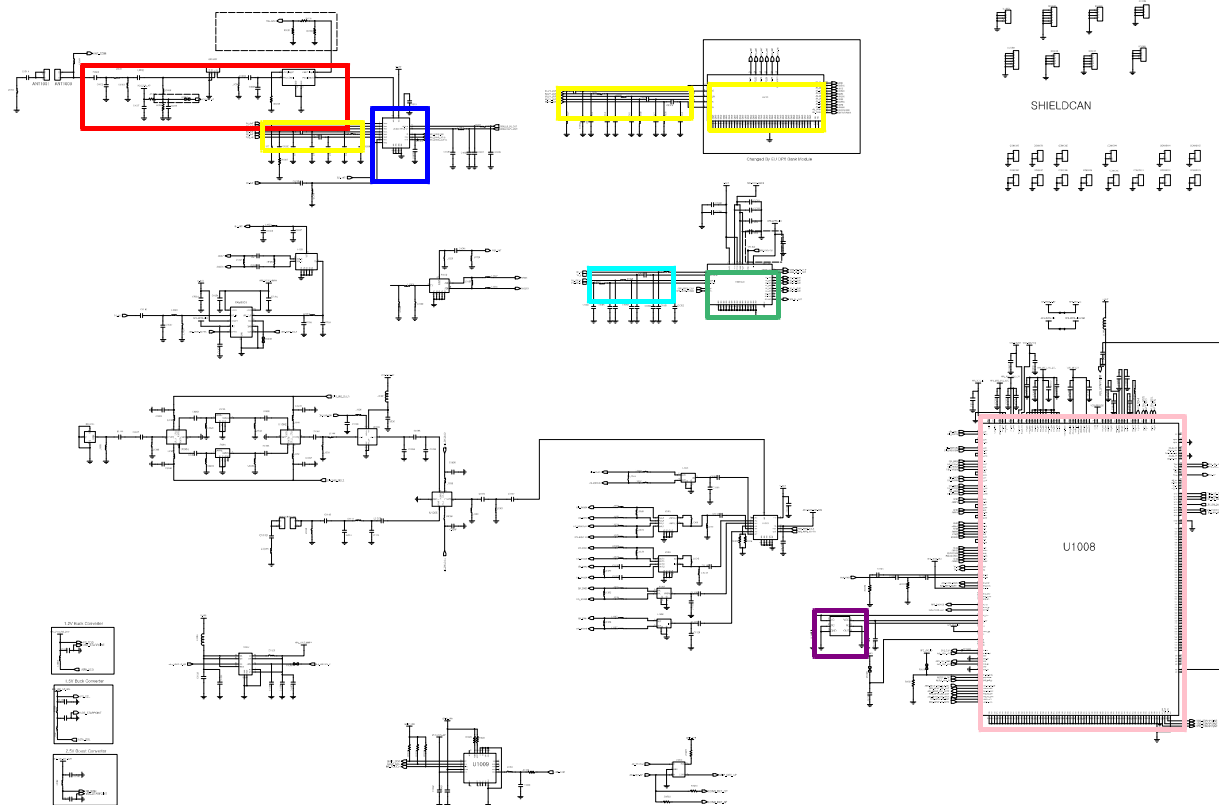
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band3 CH : 19575
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



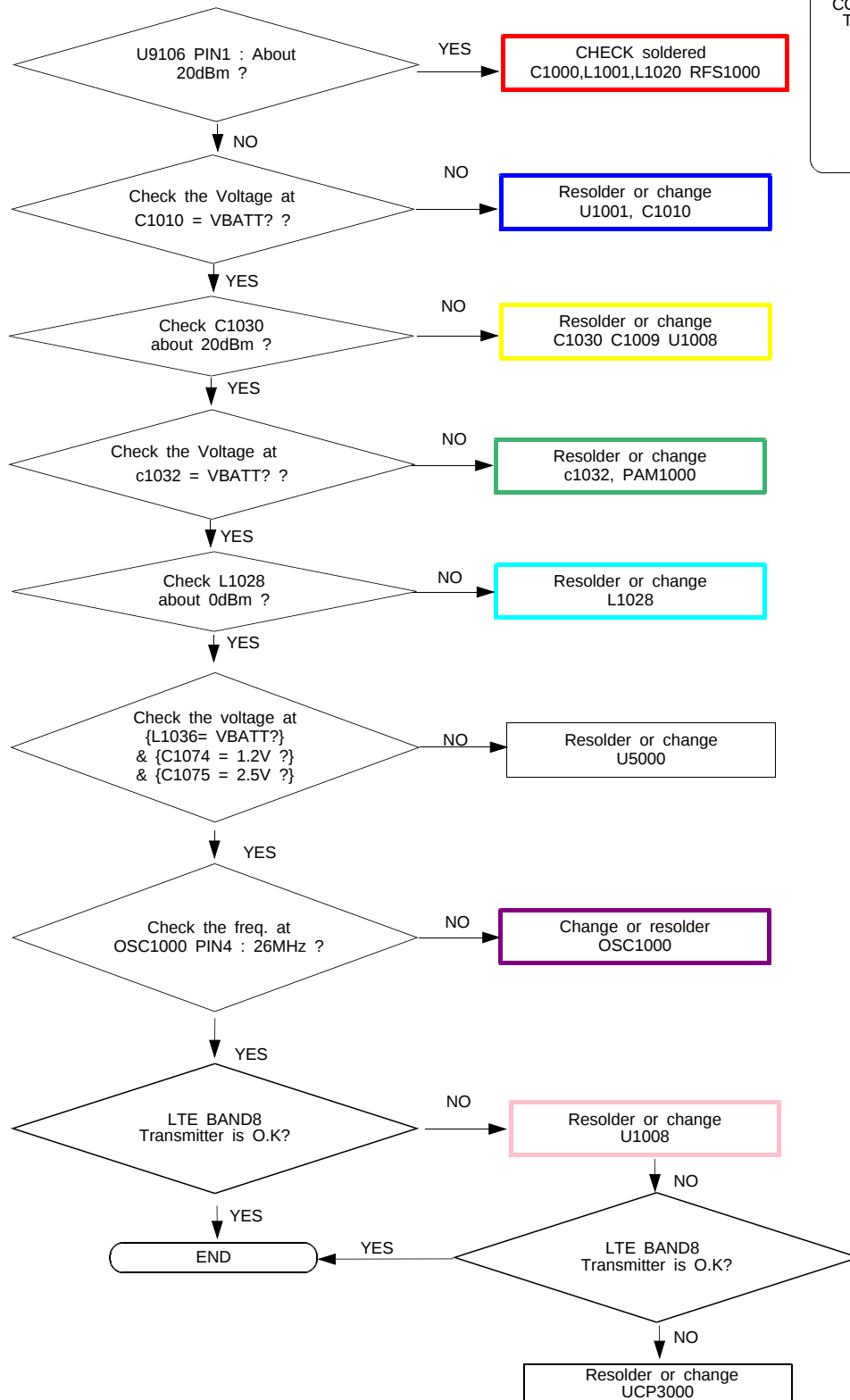
8-3-35. LTE BAND5 TX



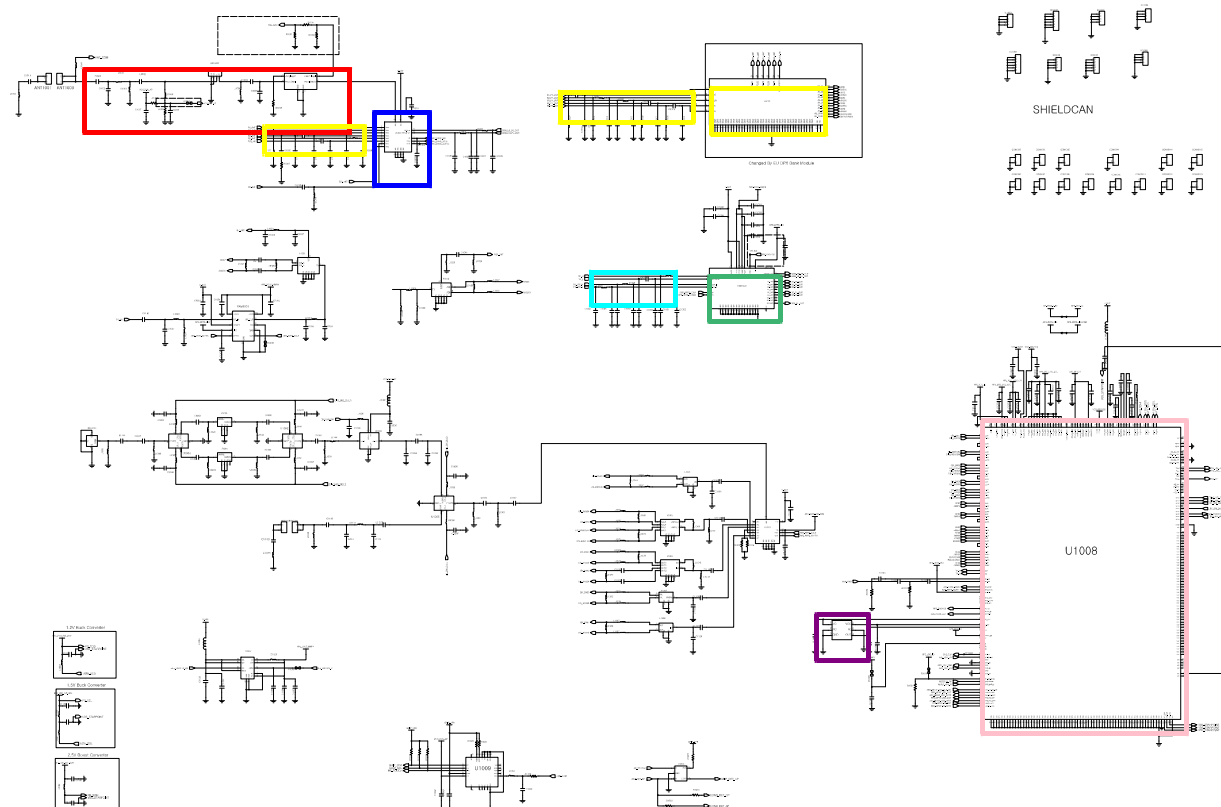
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band5 CH : 20525
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF. LEV. : 10dBm
ATT. : 20dB



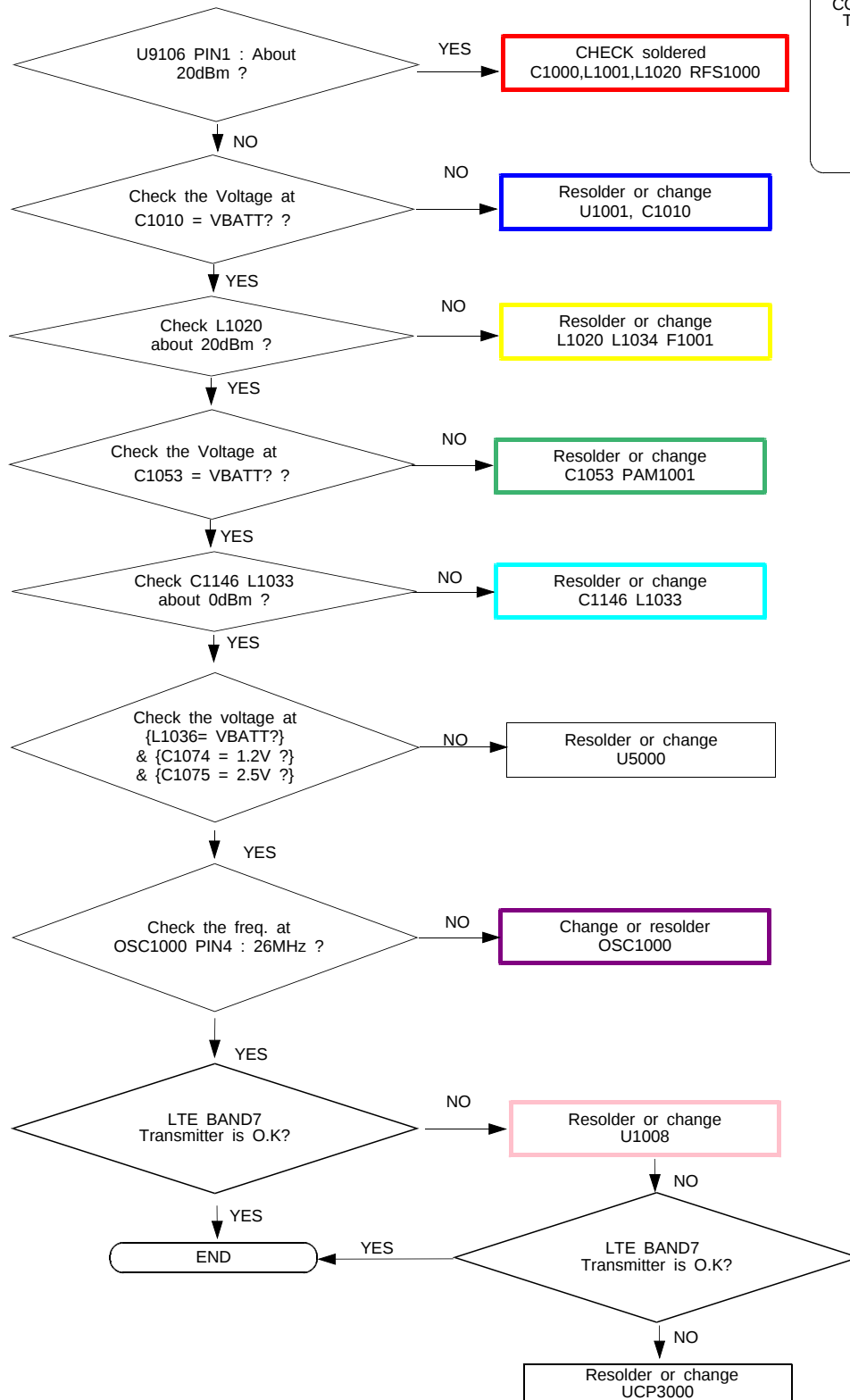
8-3-36. LTE BAND8 TX



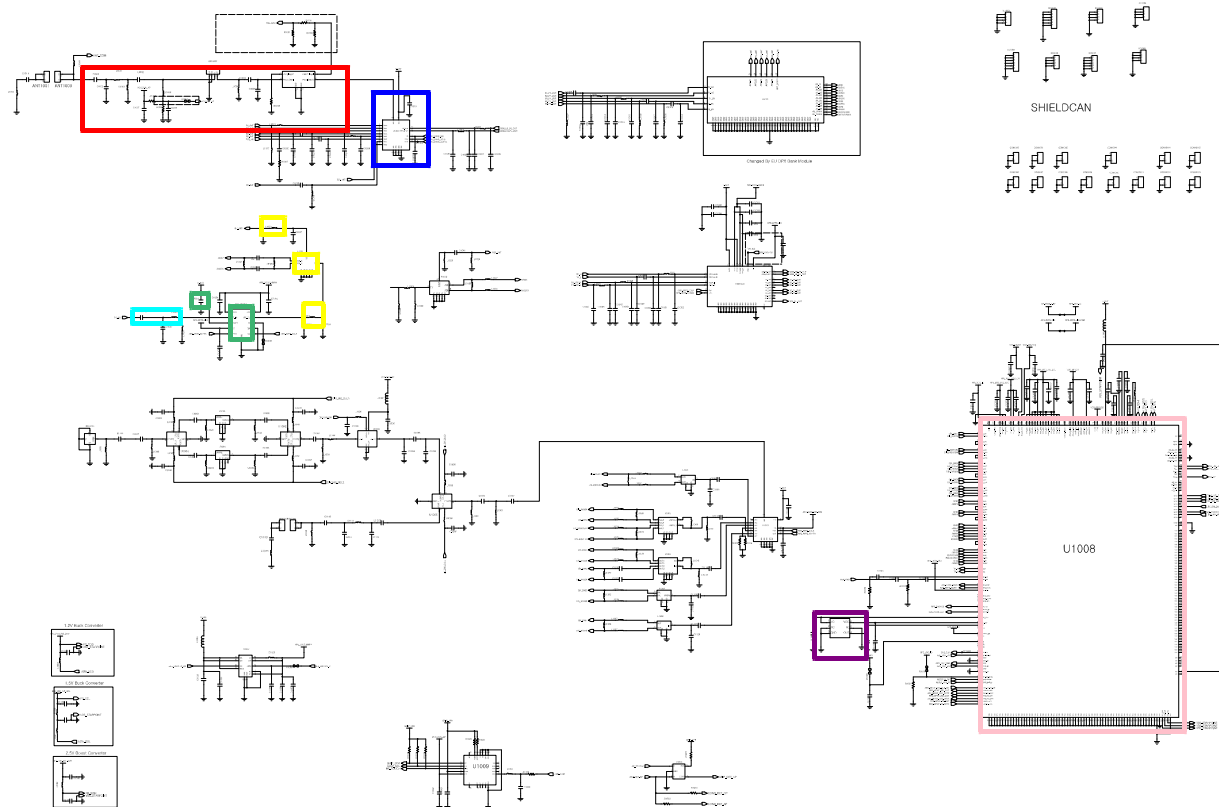
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band8 CH : 21625
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



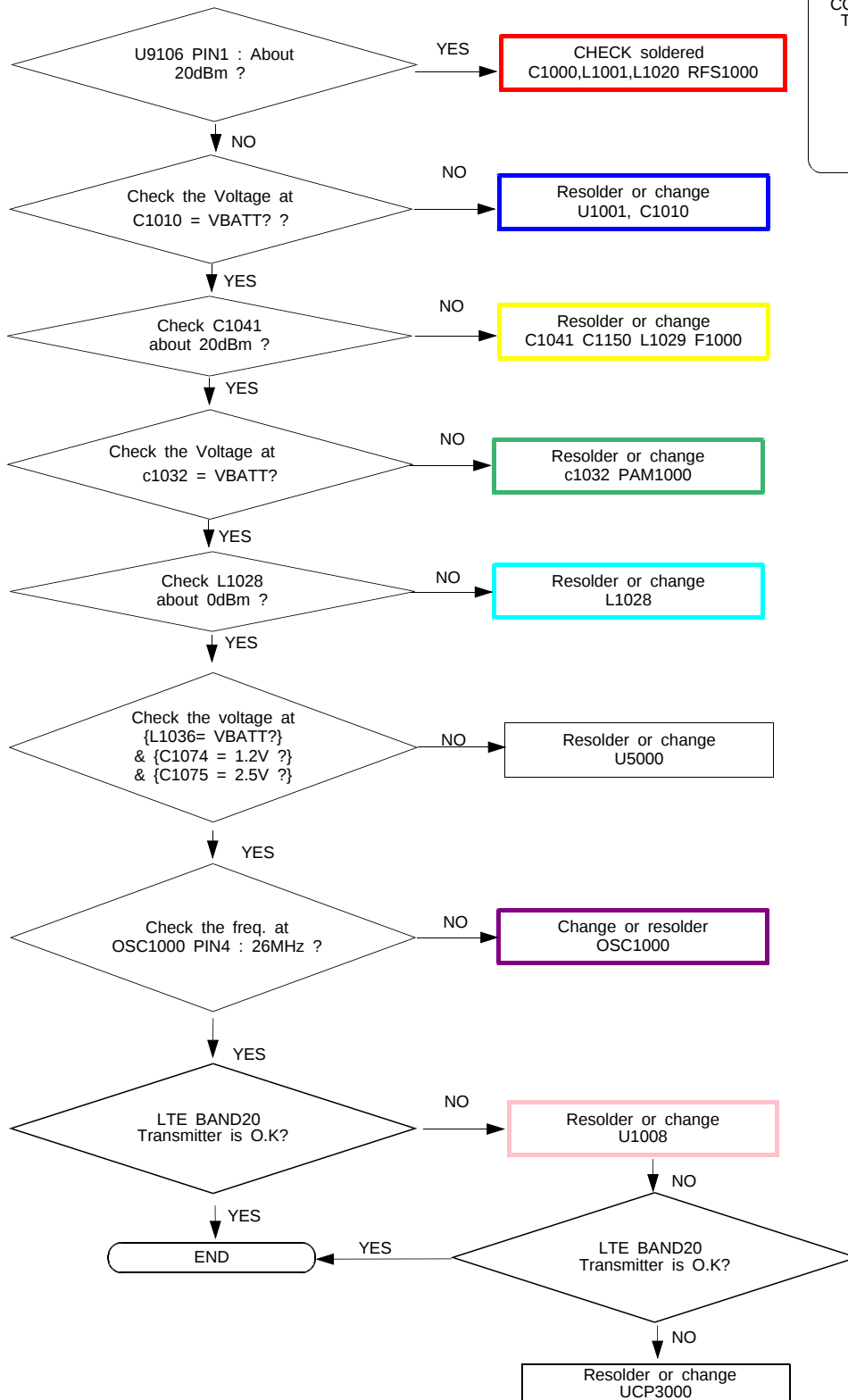
8-3-37. LTE BAND7



CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band7 CH : 21100
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF. LEV. : 10dBm
ATT. : 20dB



8-3-38. LTE BAND20



CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band20 CH : 24300
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

