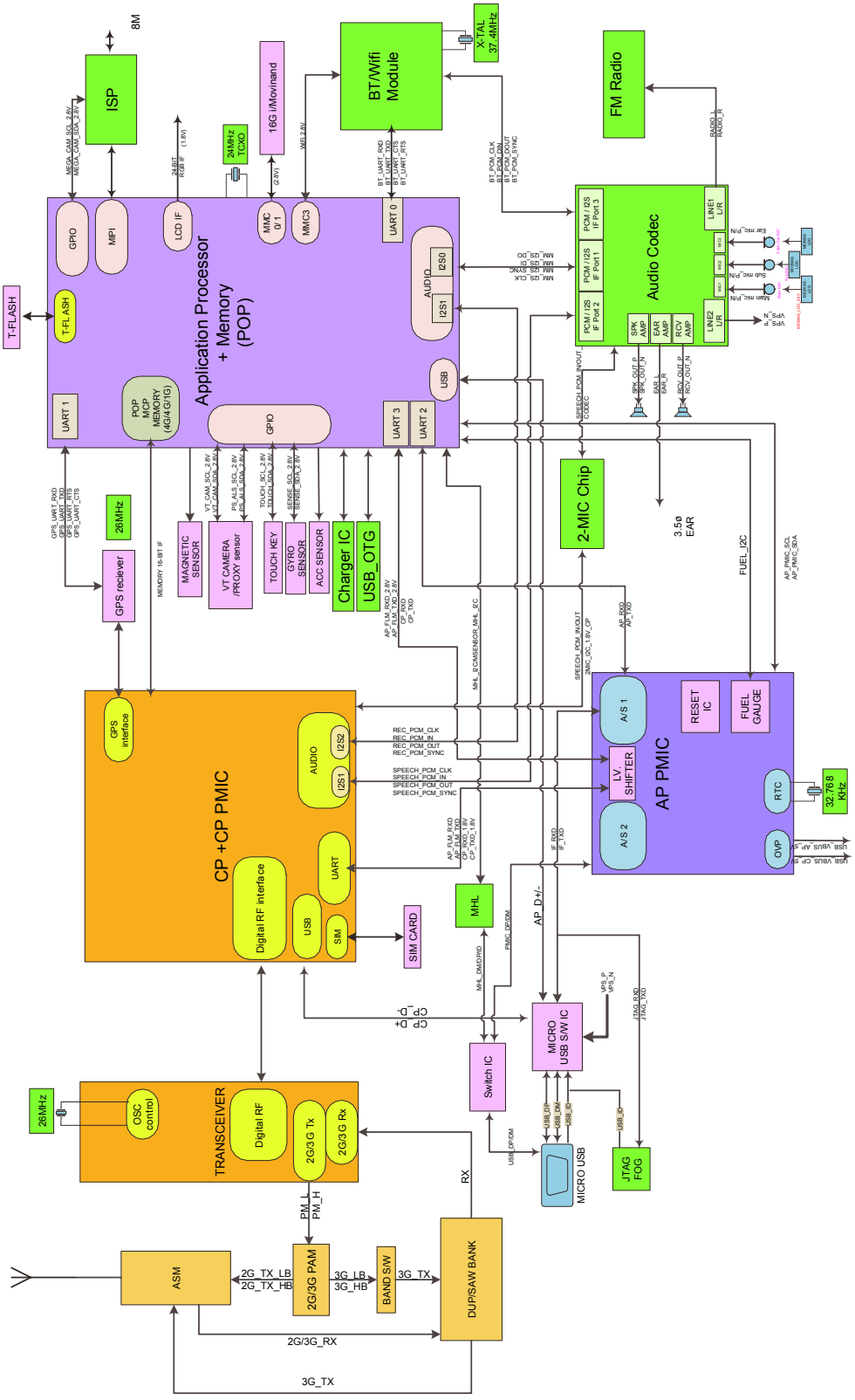
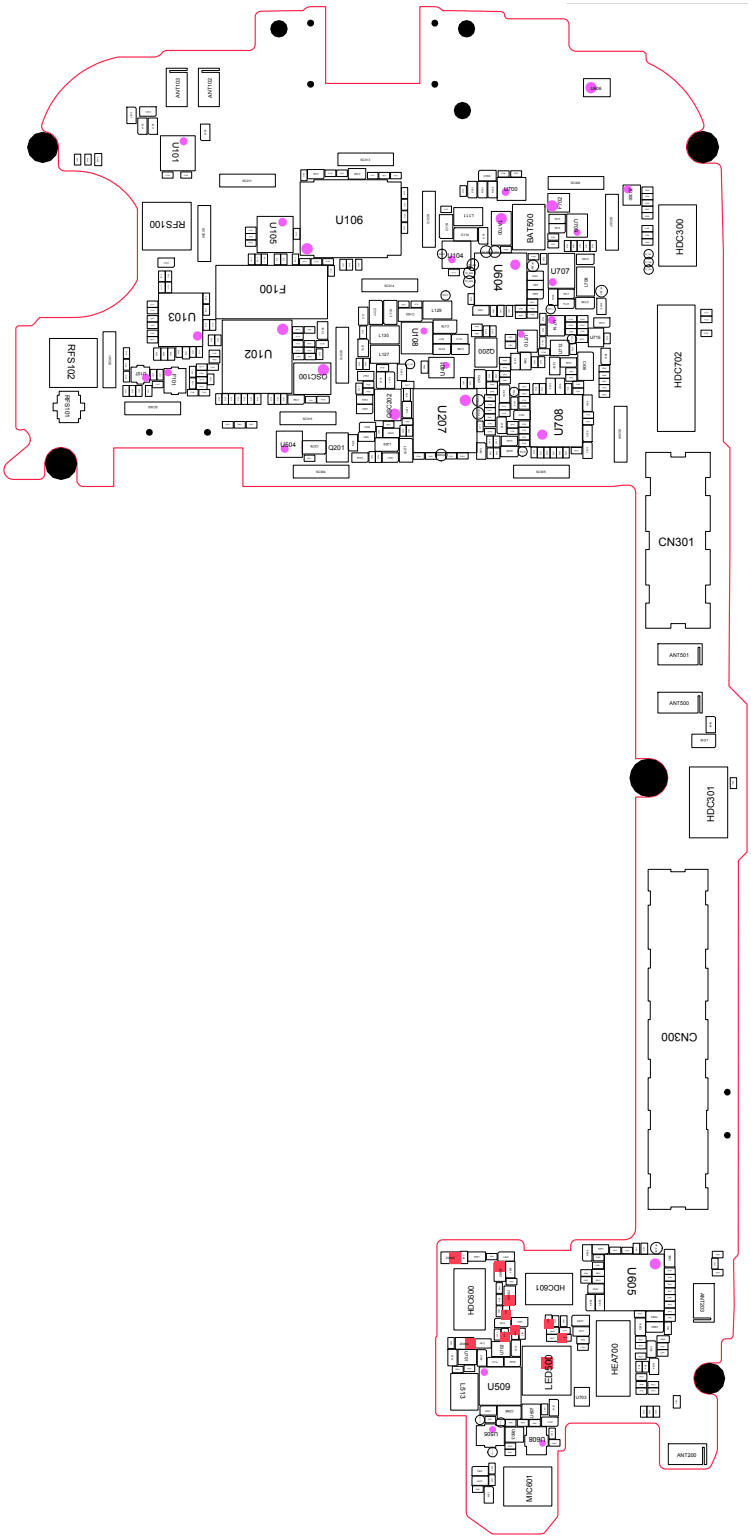
8. Level 3 Repair

8-1. Block Diagram

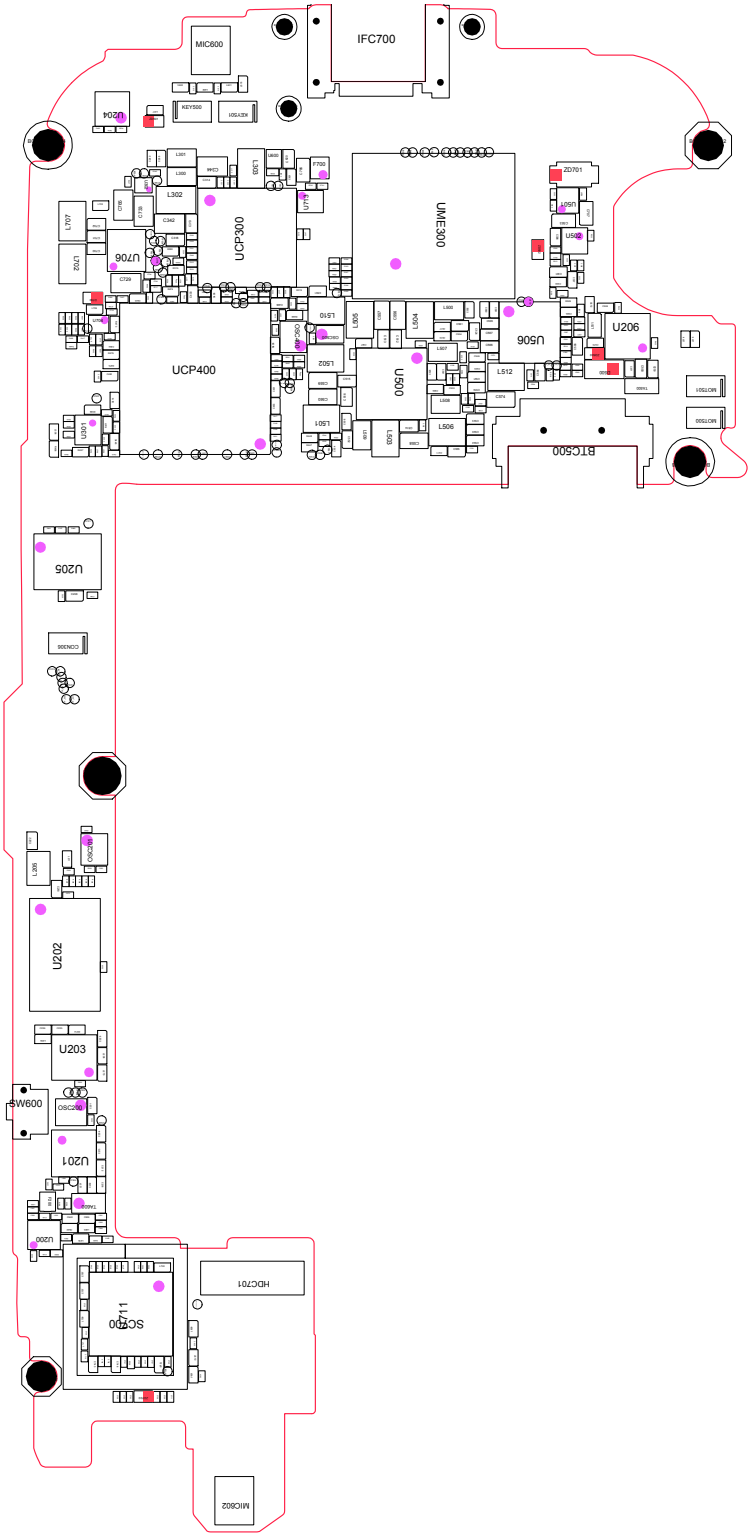


8-2. PCB Diagrams

8-2-1. Top

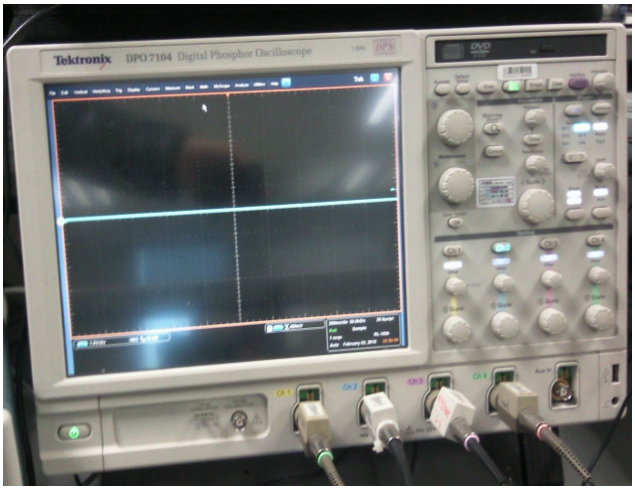


8-2-2. Bottom



8-3. Flow Chart of Troubleshooting

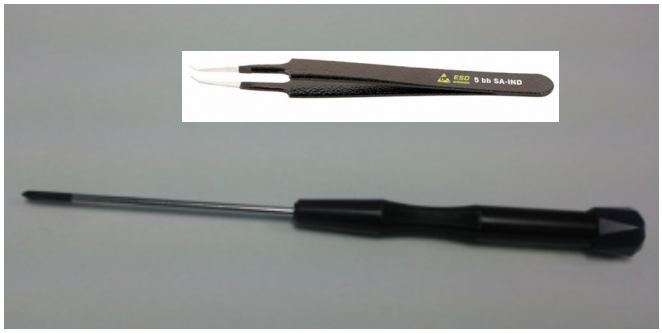
Equipments



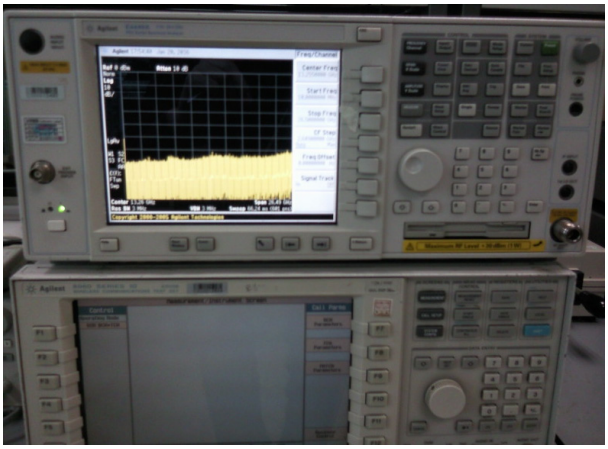
↑ Oscilloscope

↑ Digital Multimeter

↑ Power Supply



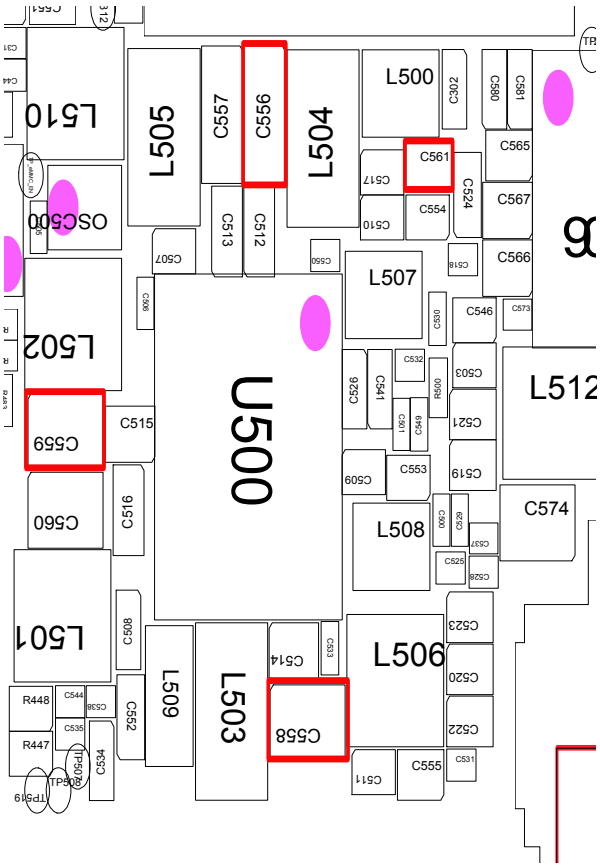
↑ + driver, ESD Safe Tweezer

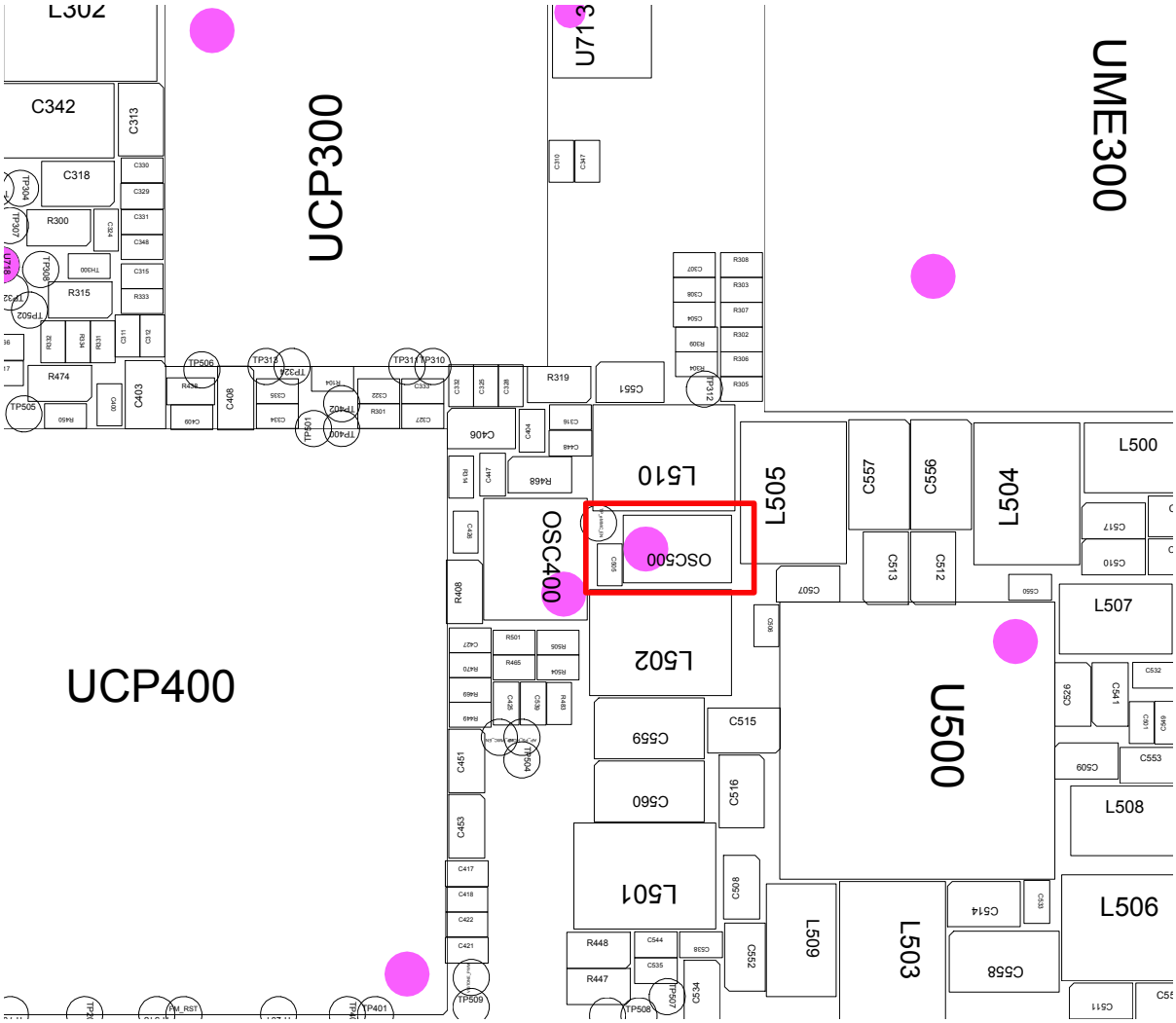


↑ 8960 & Spectrum Analyzer

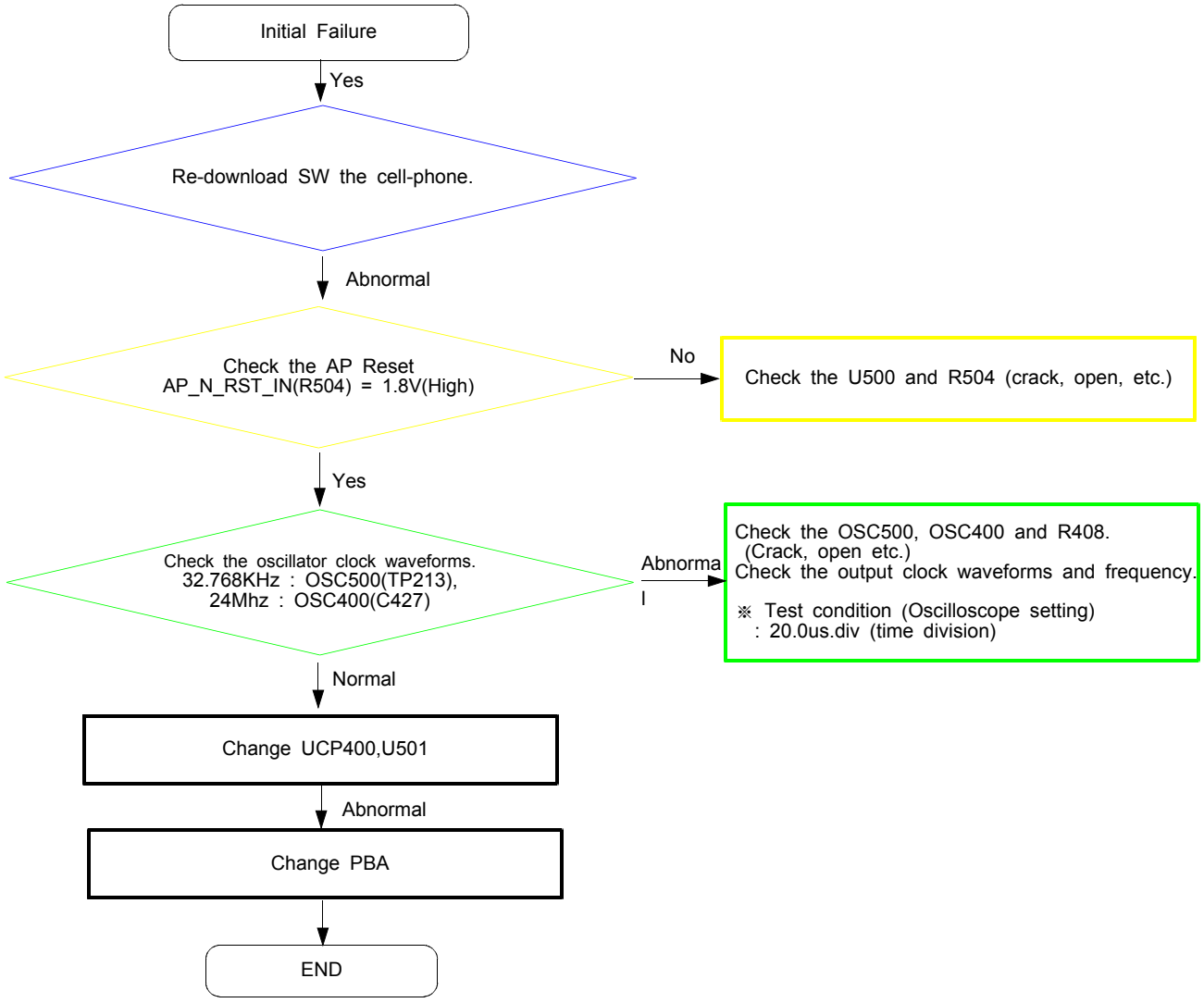
↑ Soldering iron

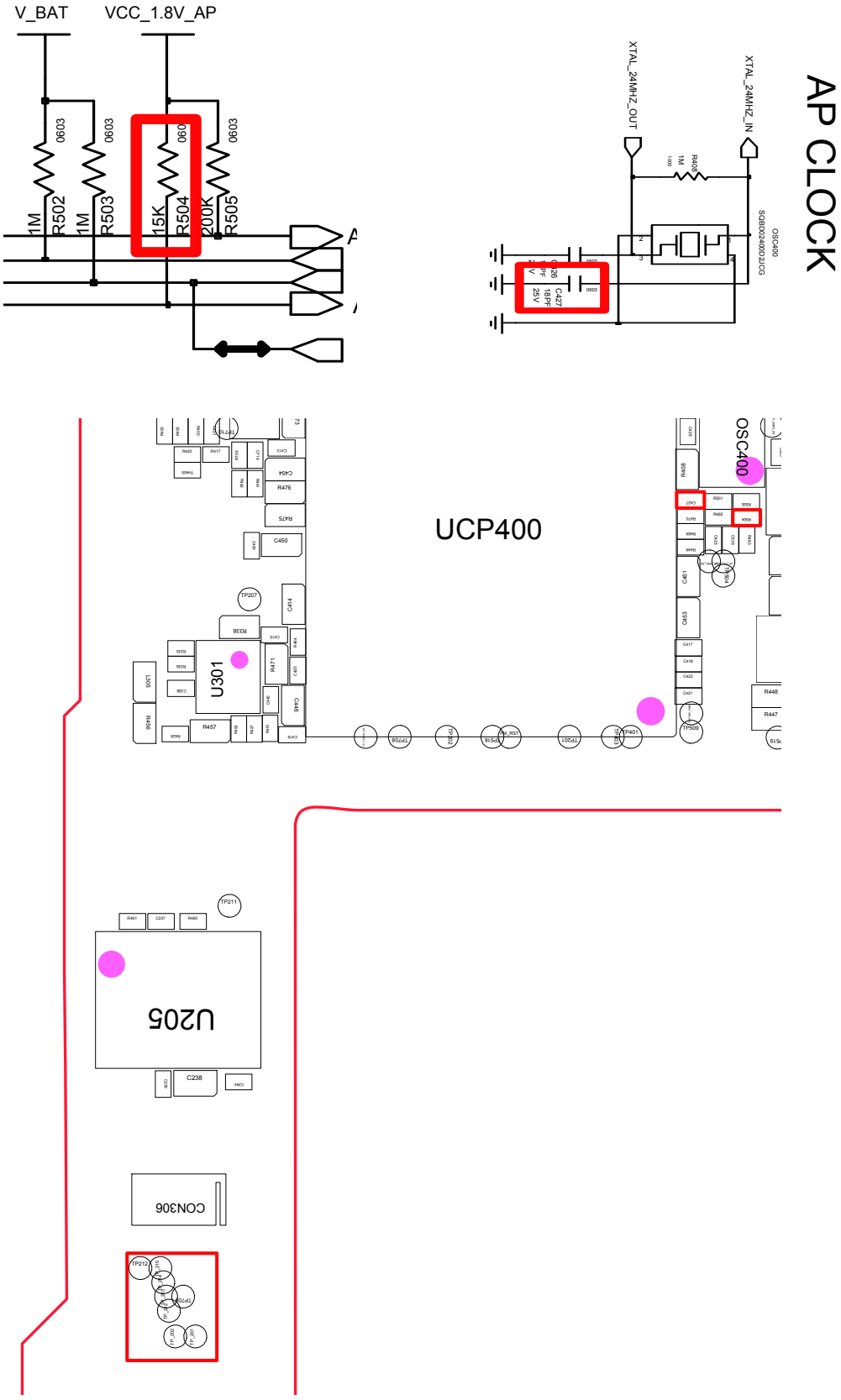
8-3-1. Power On



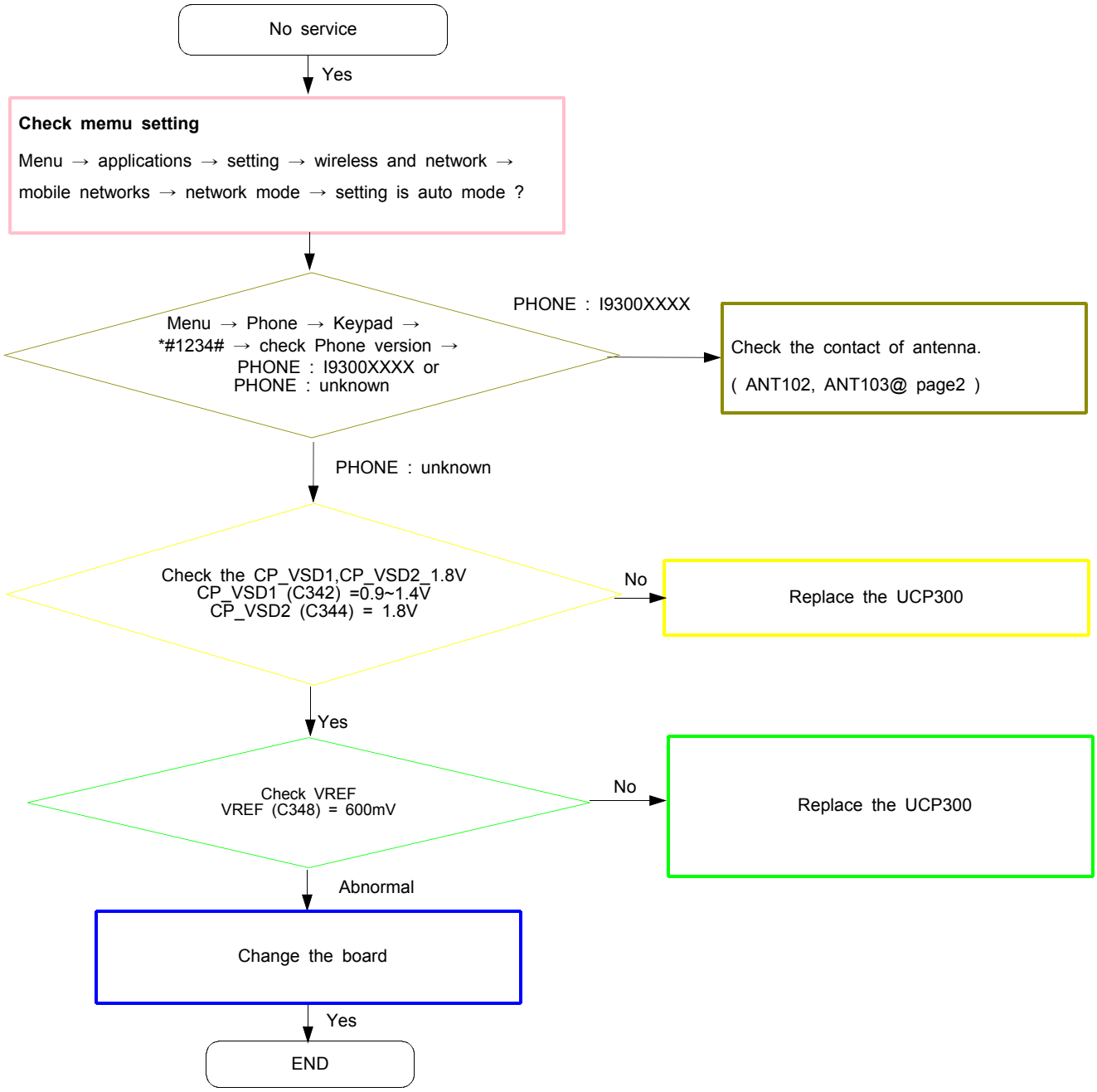


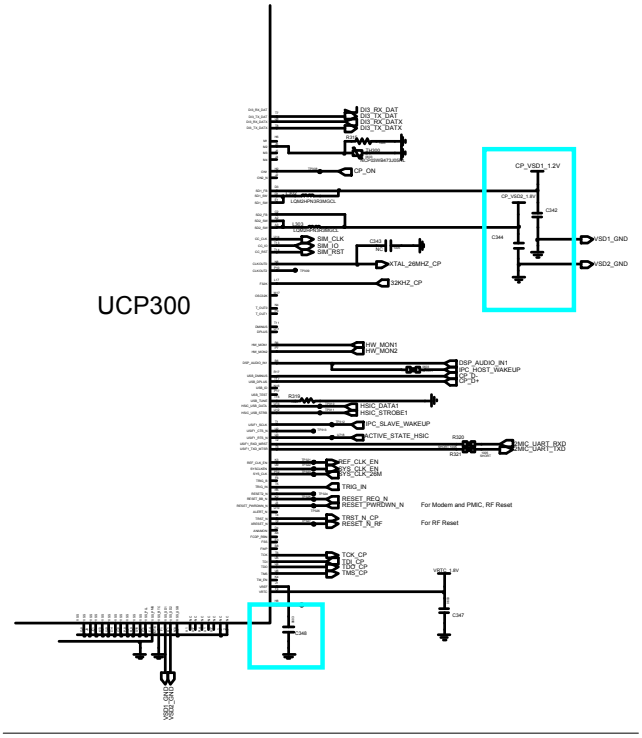
8-3-2. Initial

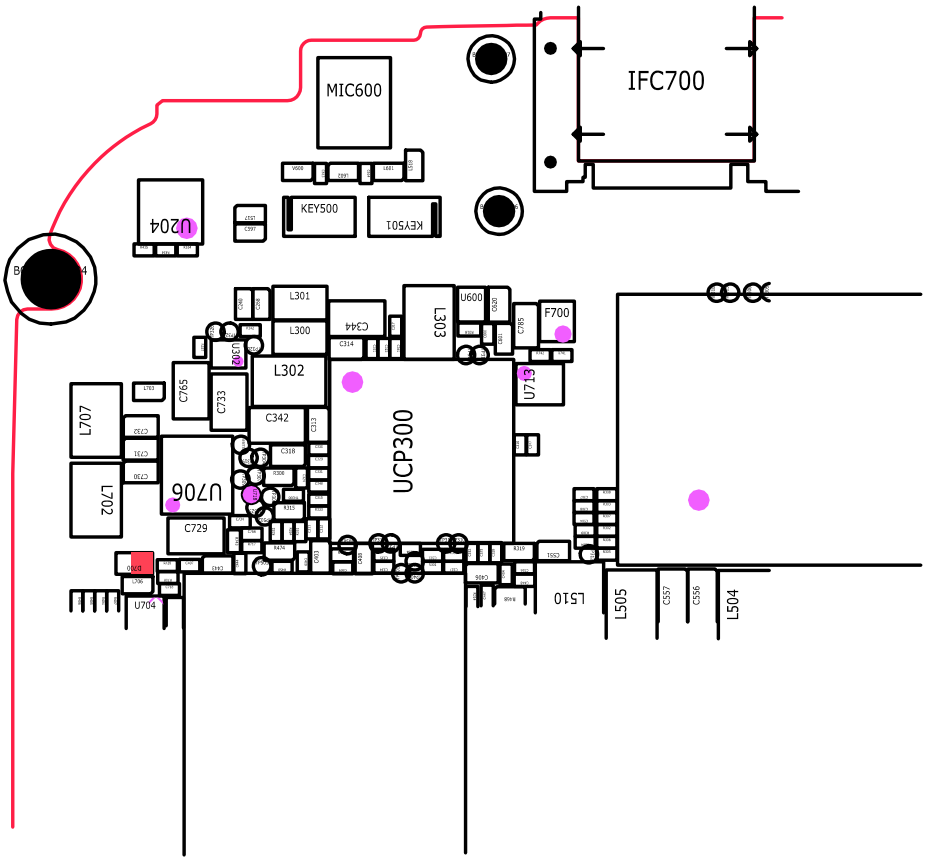




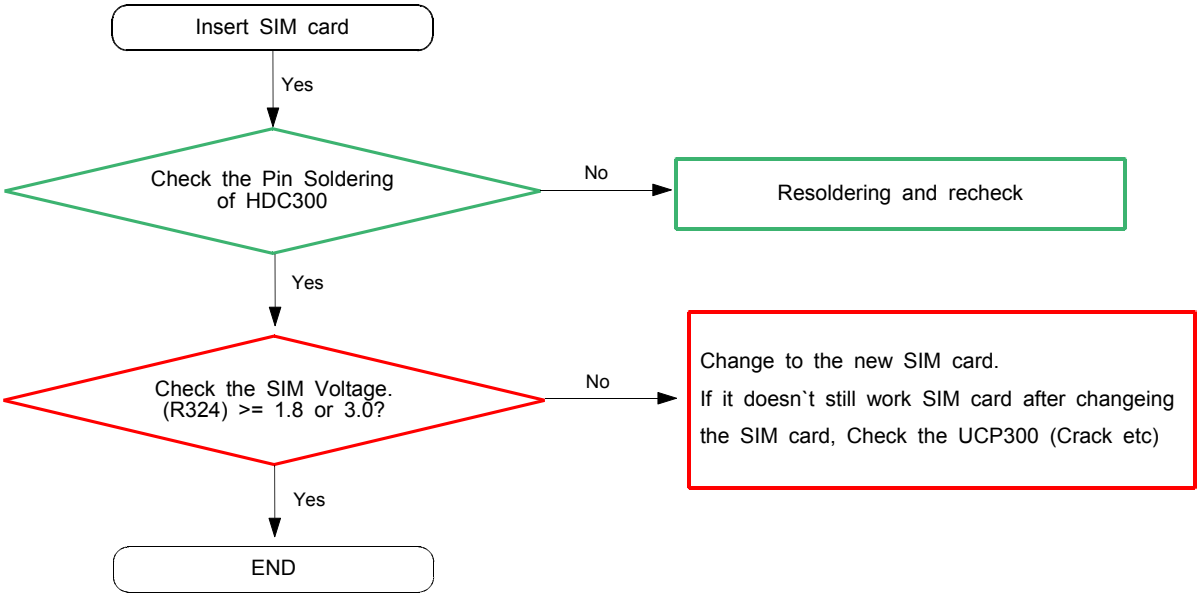
8-3-3. No Service

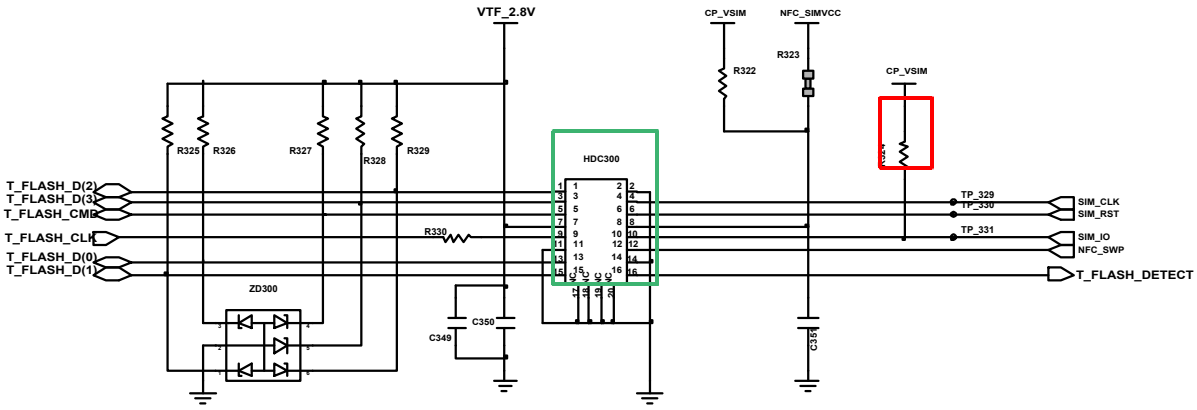


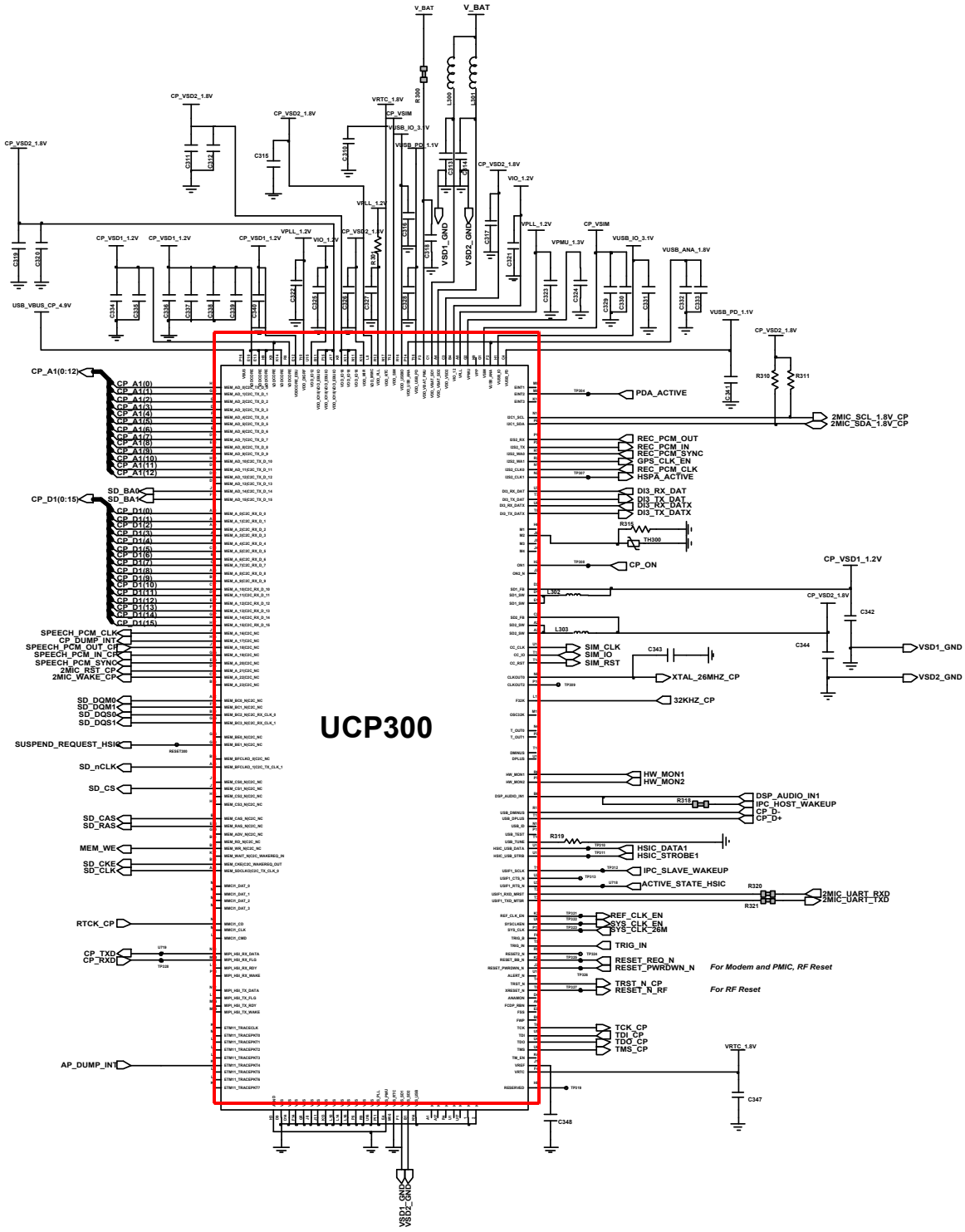


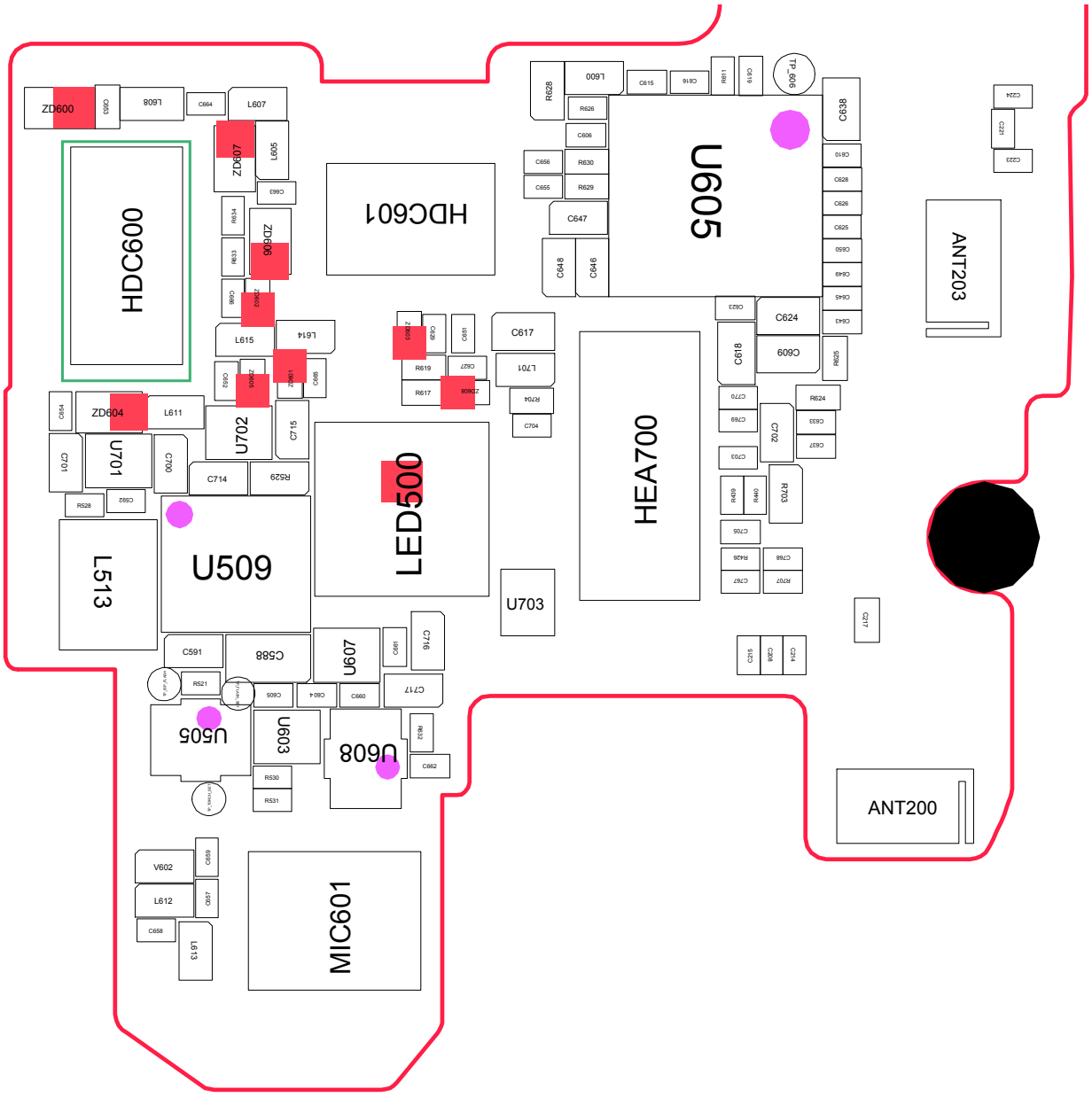


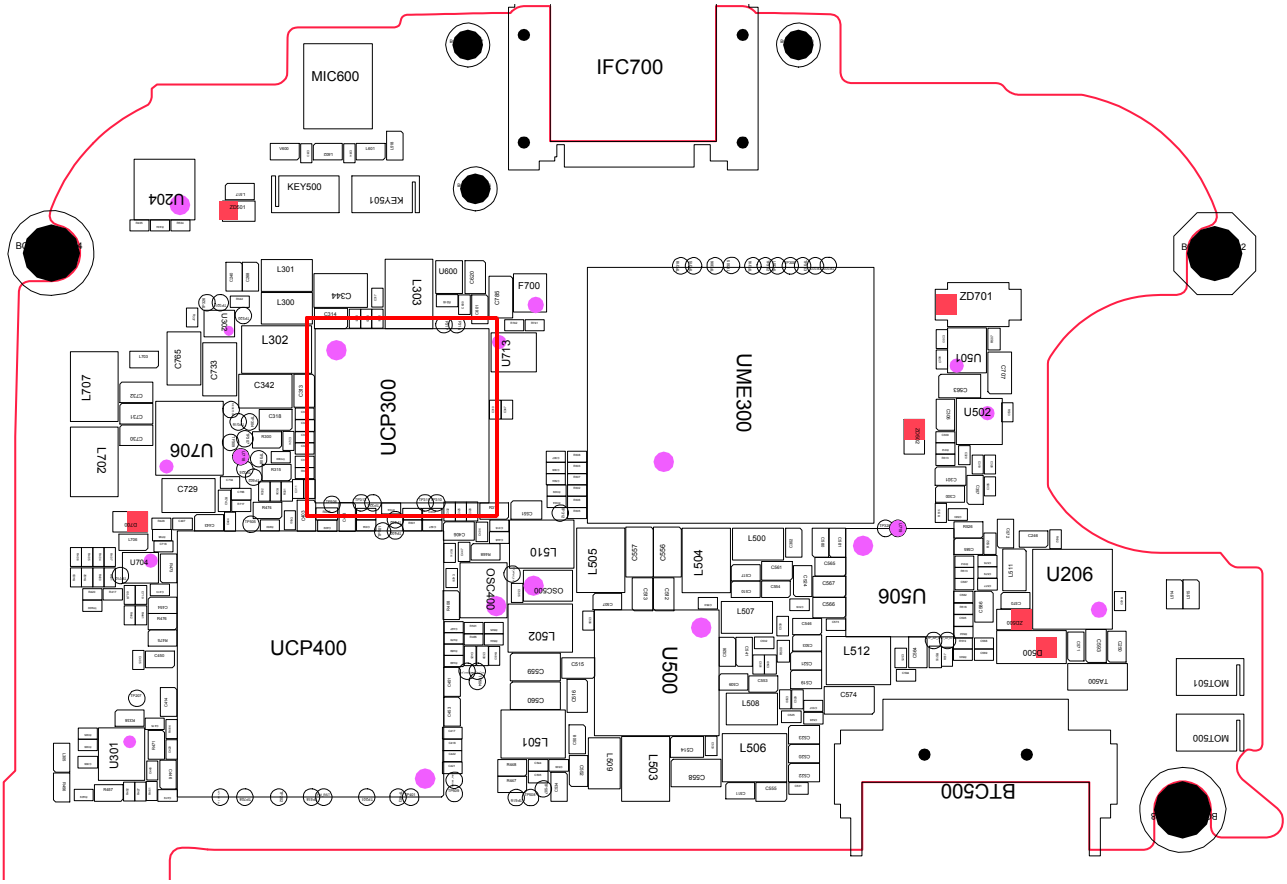
8-3-4. Sim Part



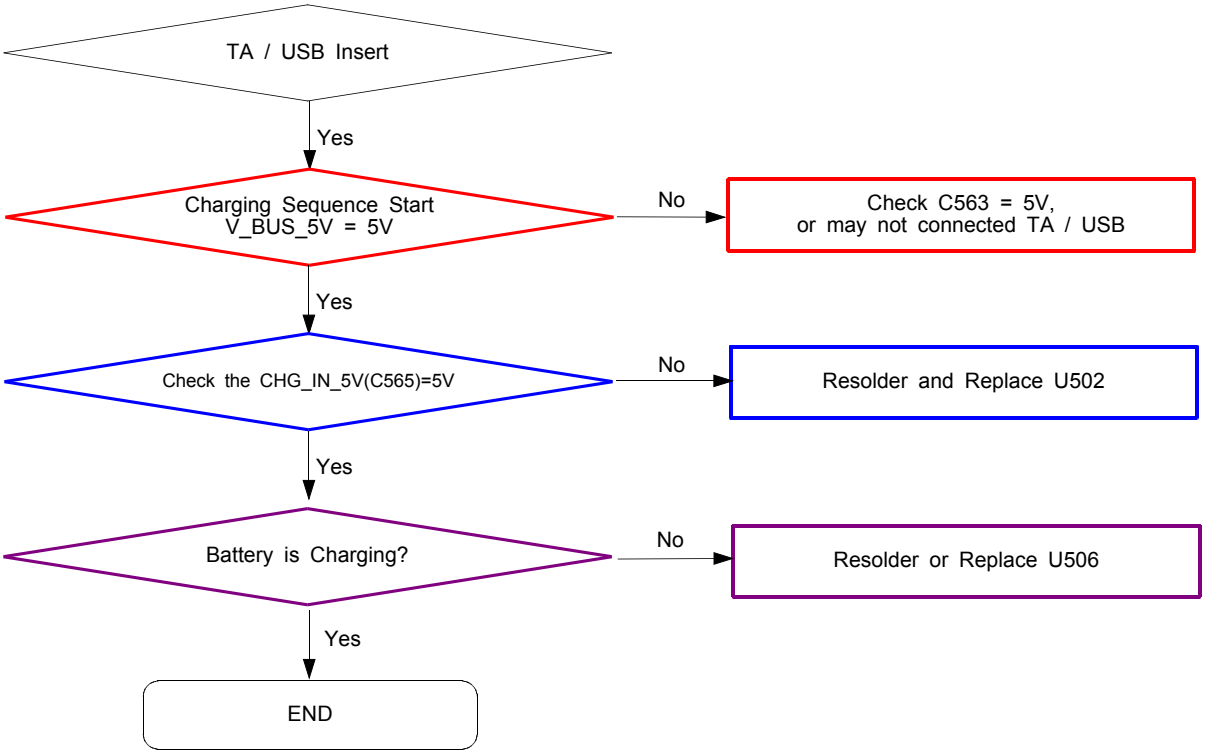


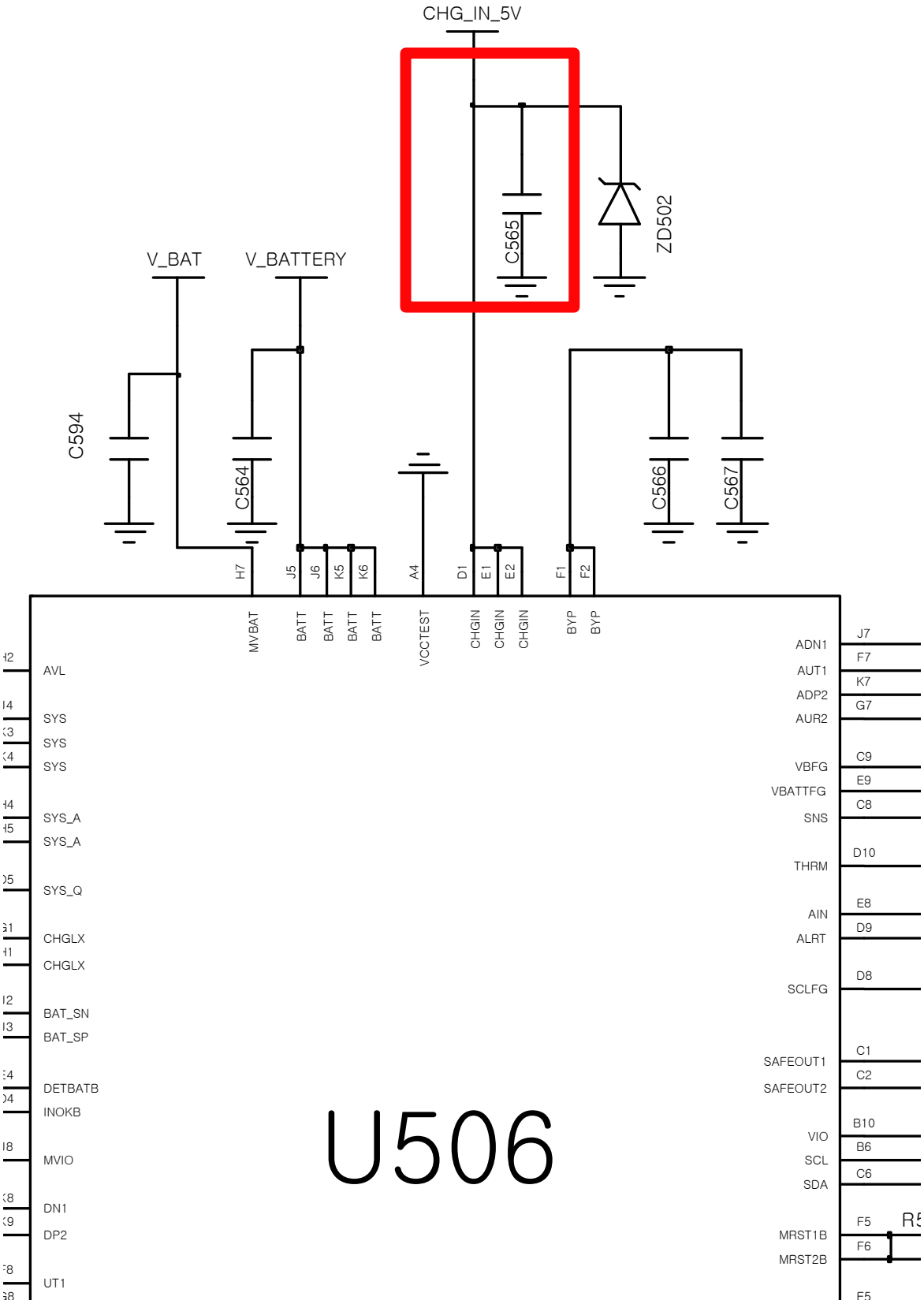


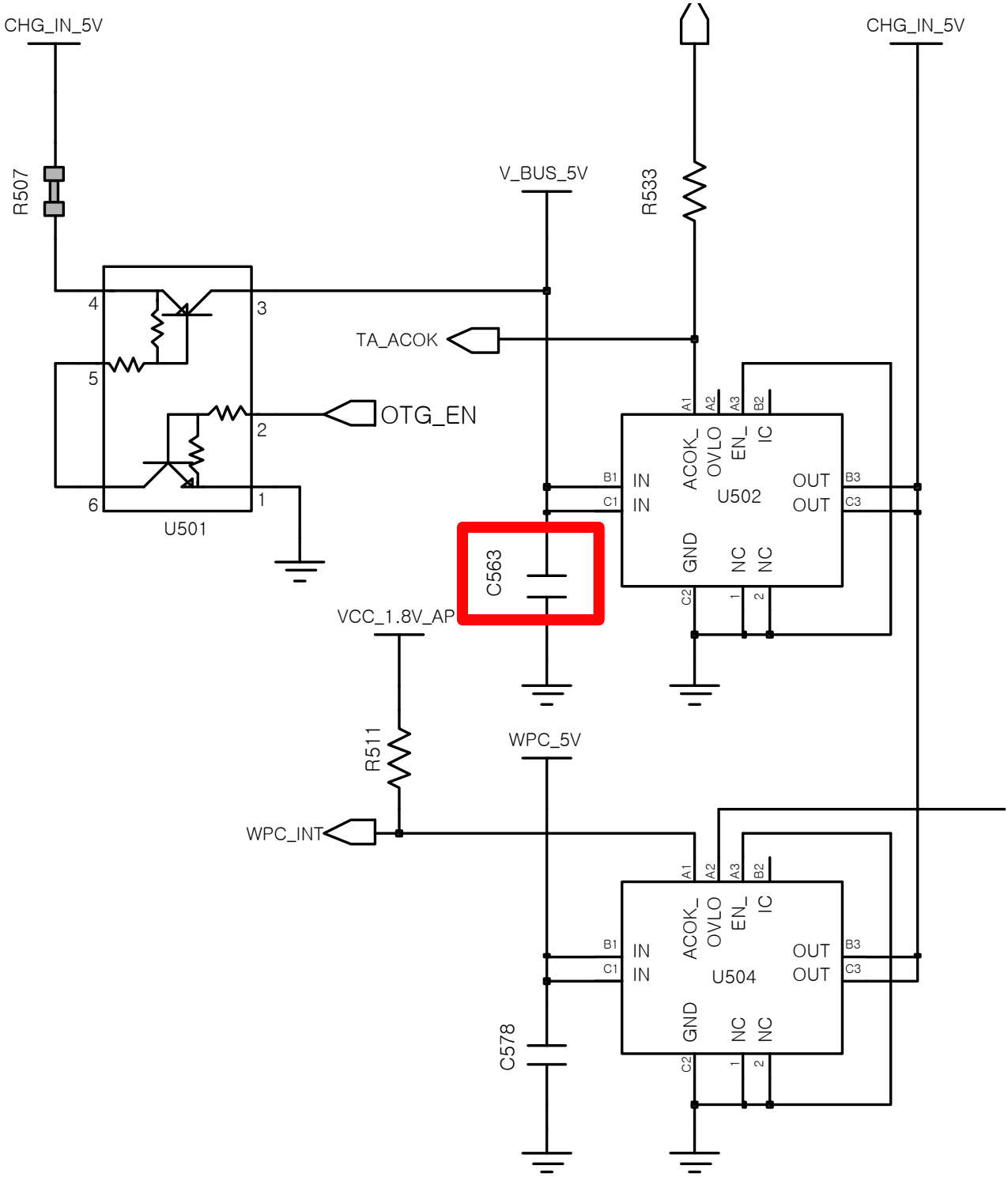


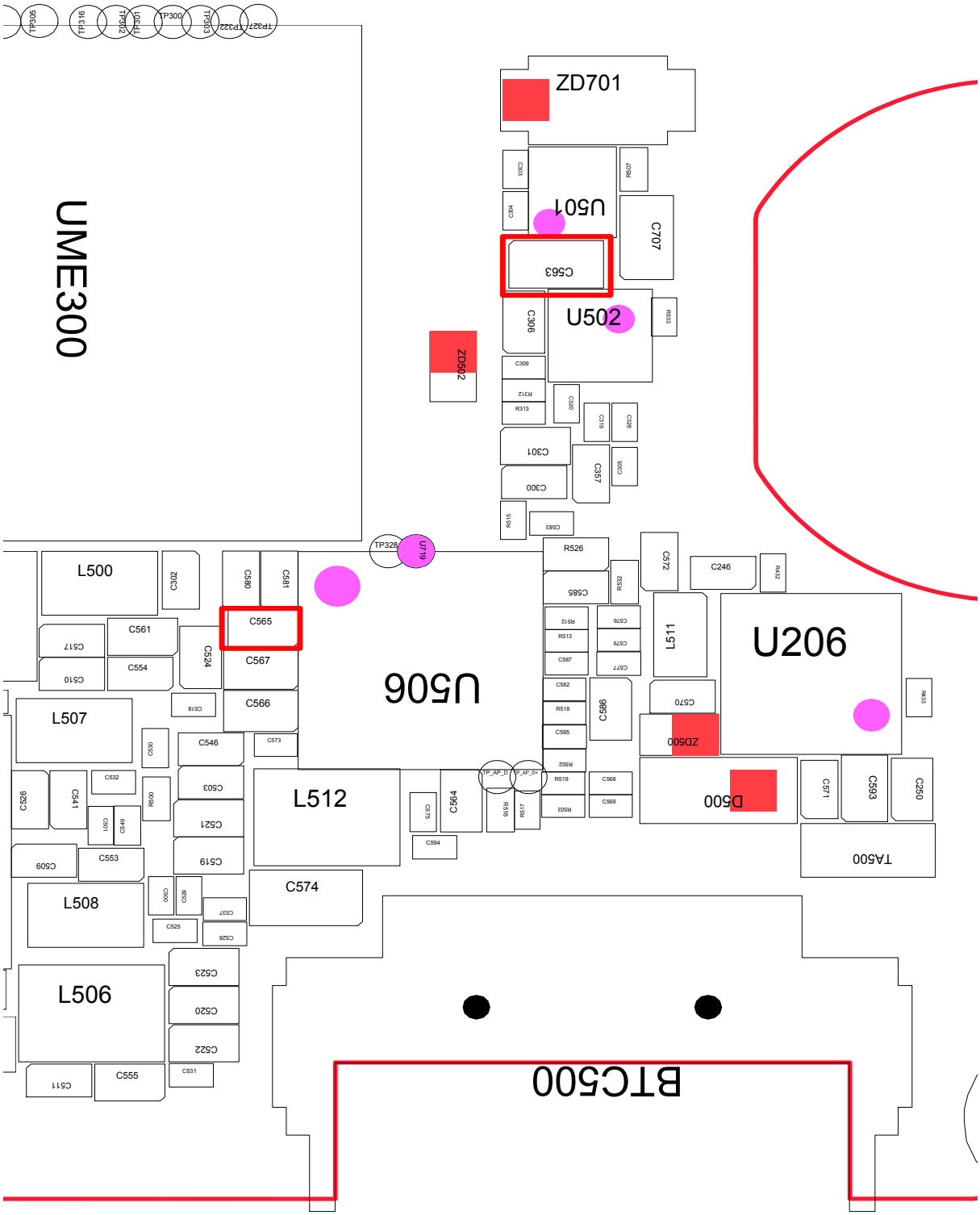


8-3-5. Charging Part

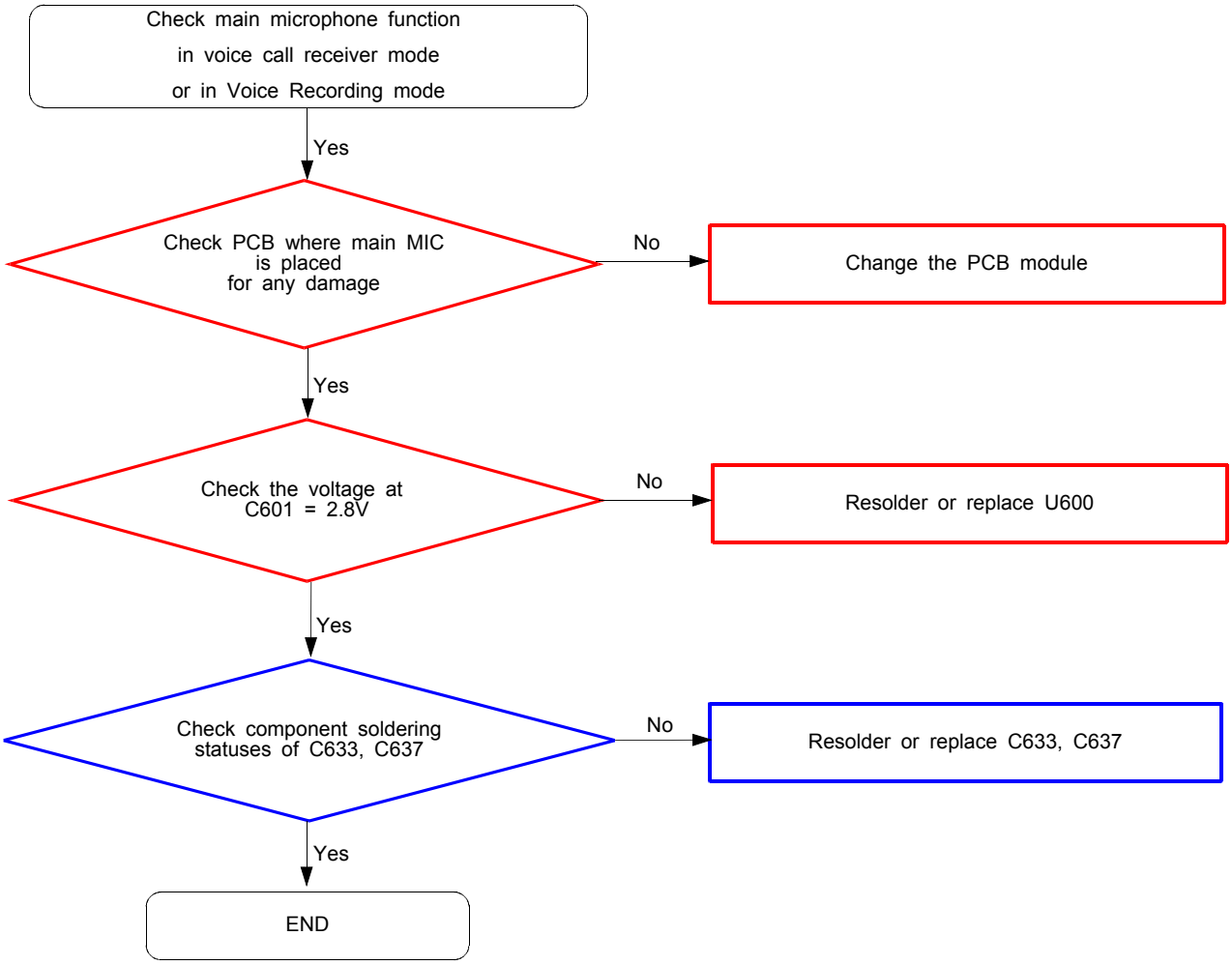


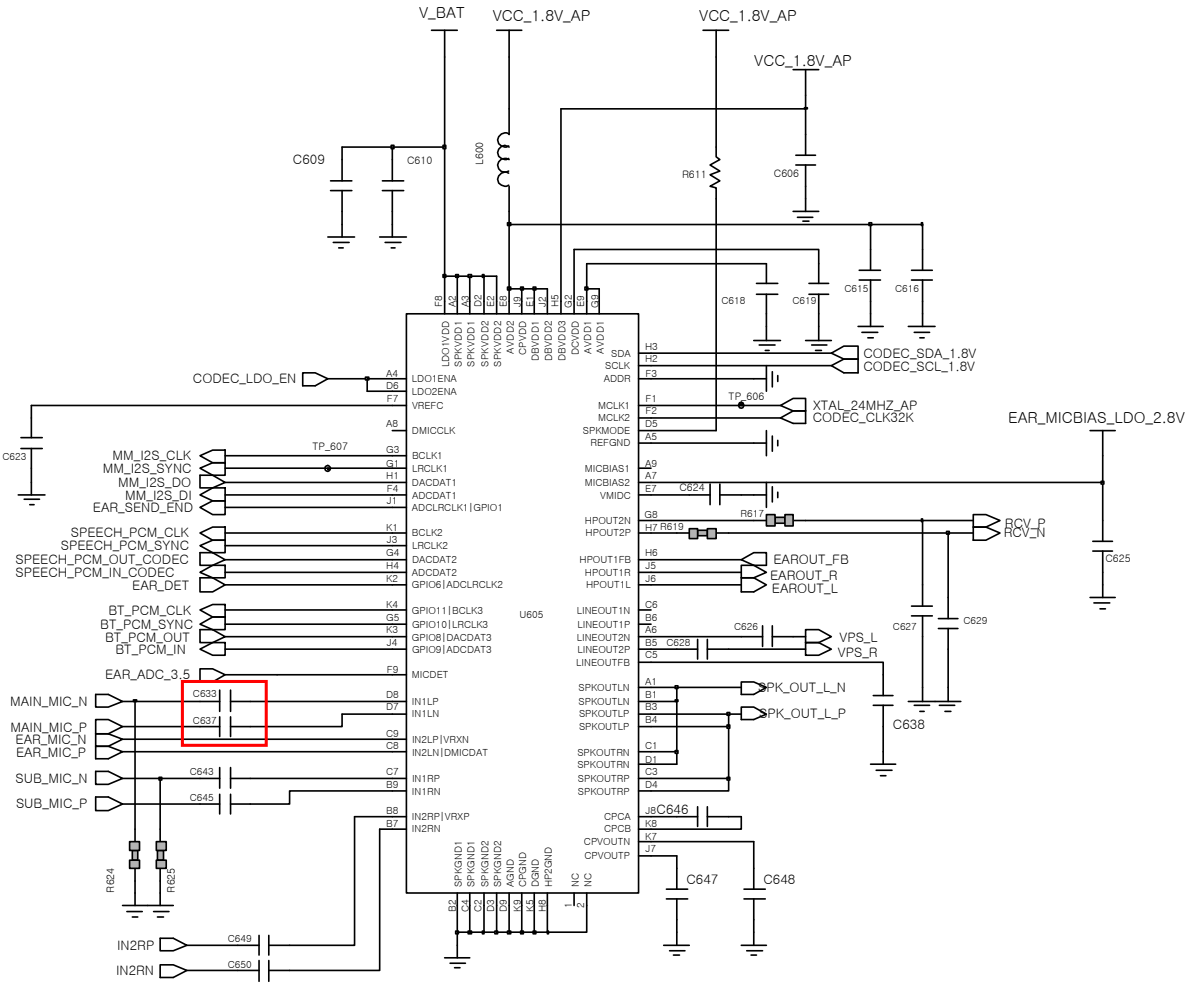


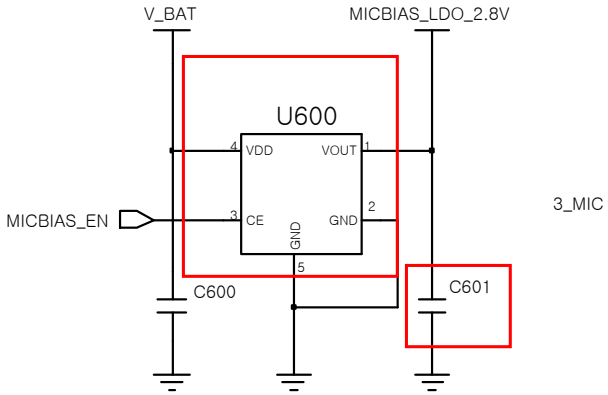


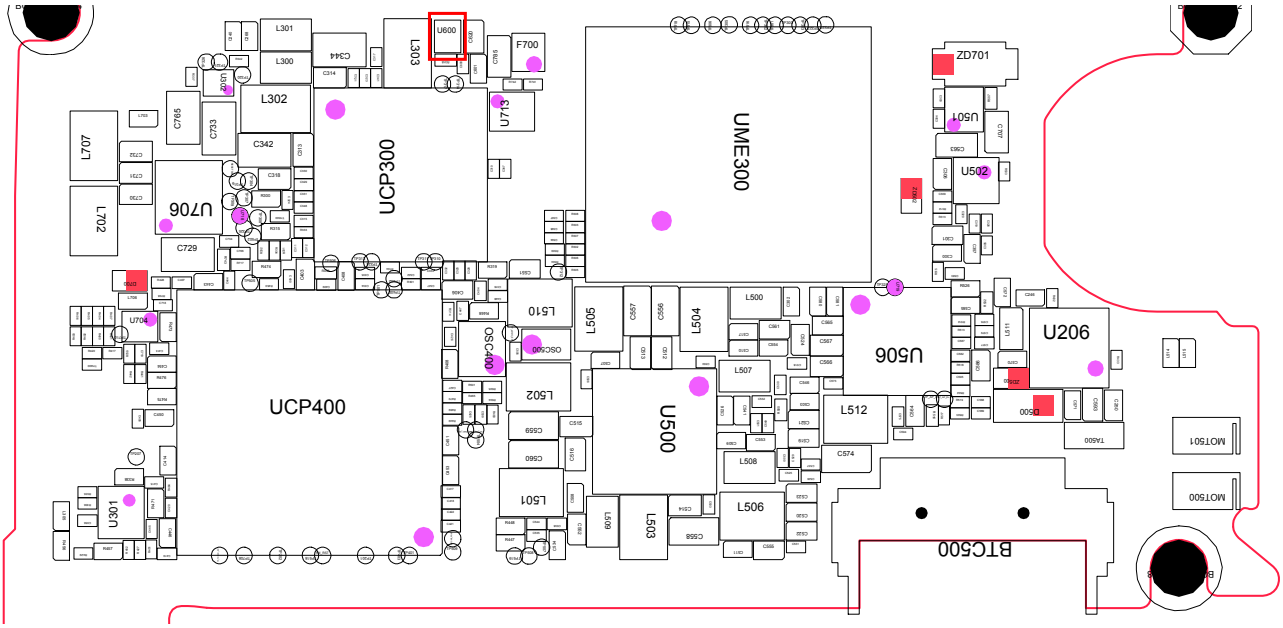


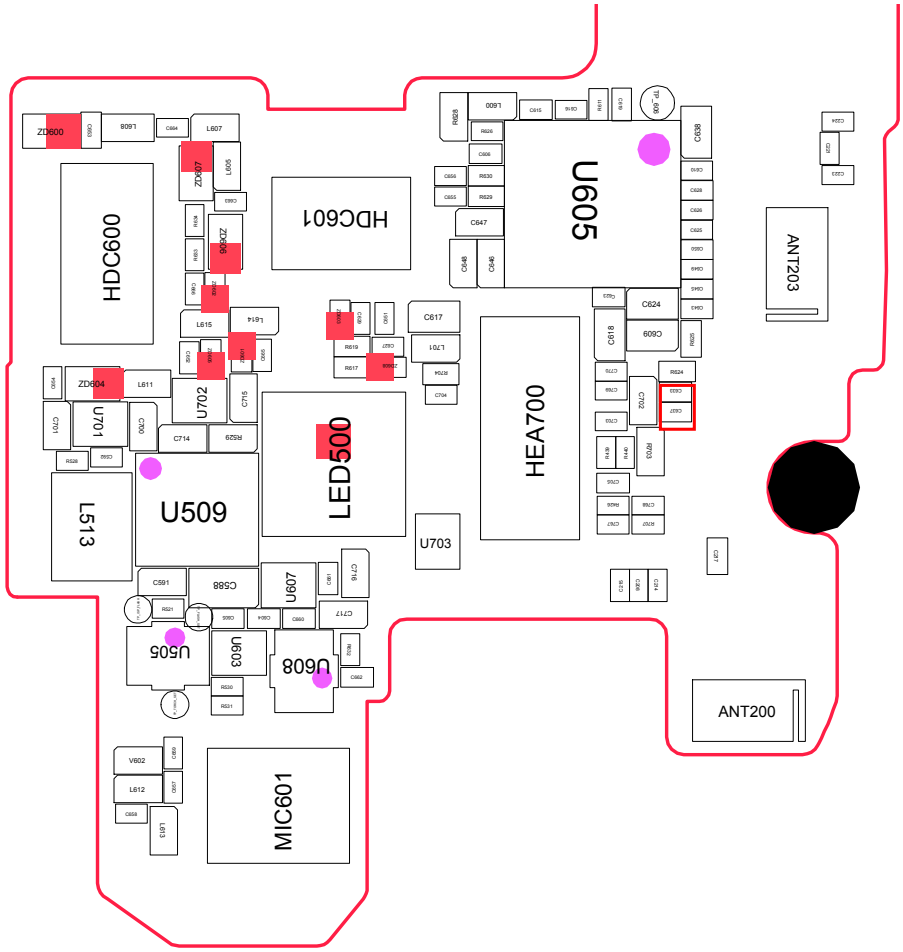
8-3-6. Microphone Part (Main MIC)



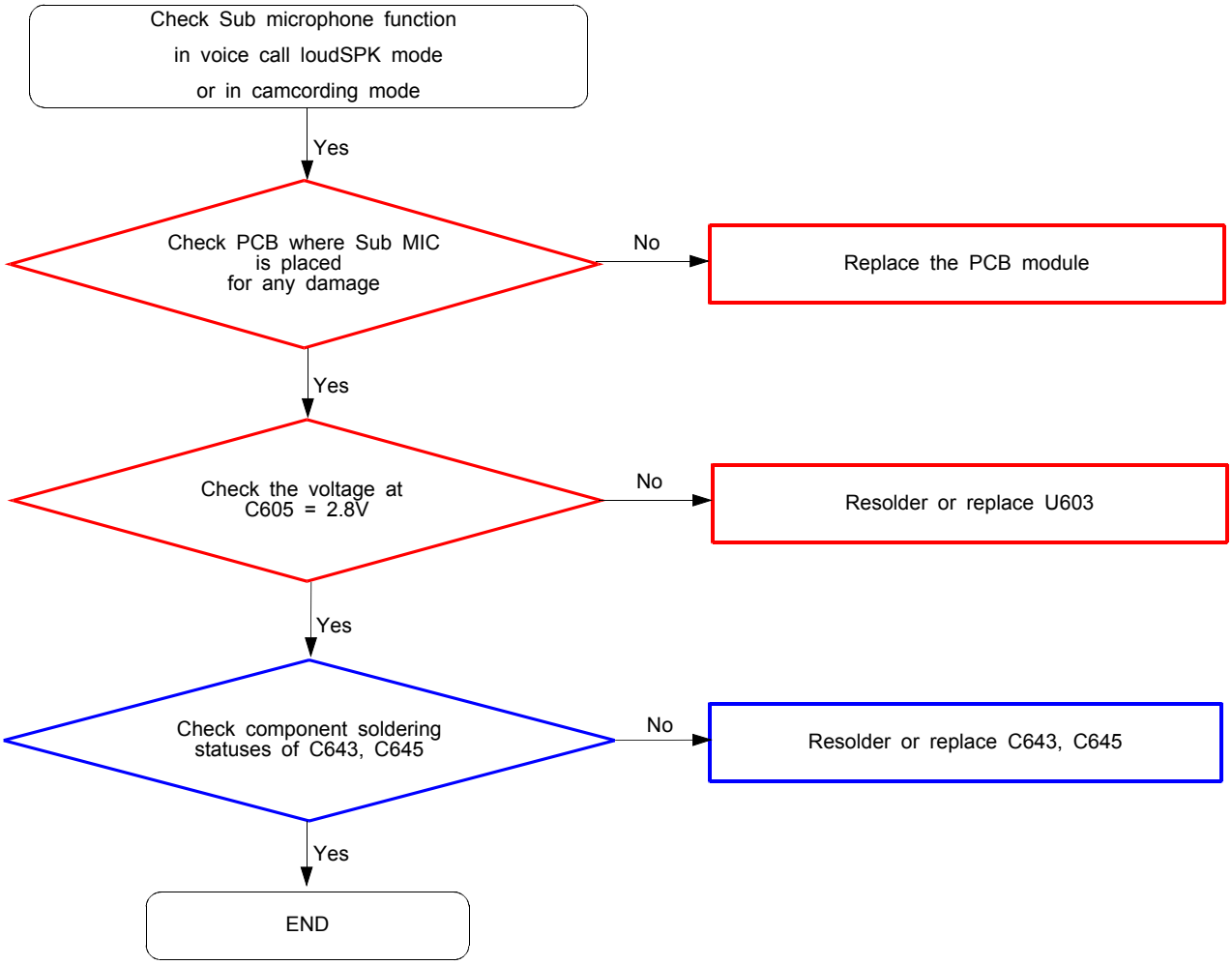


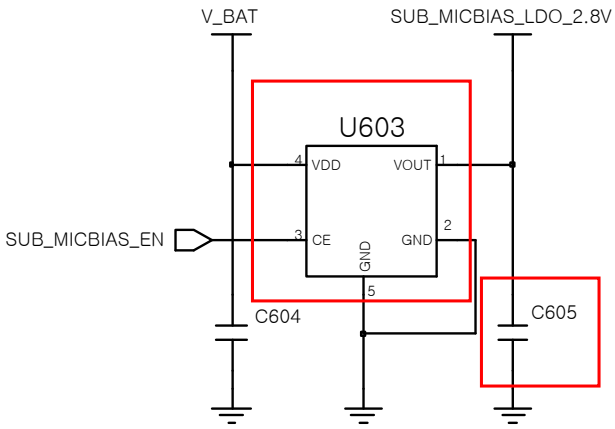


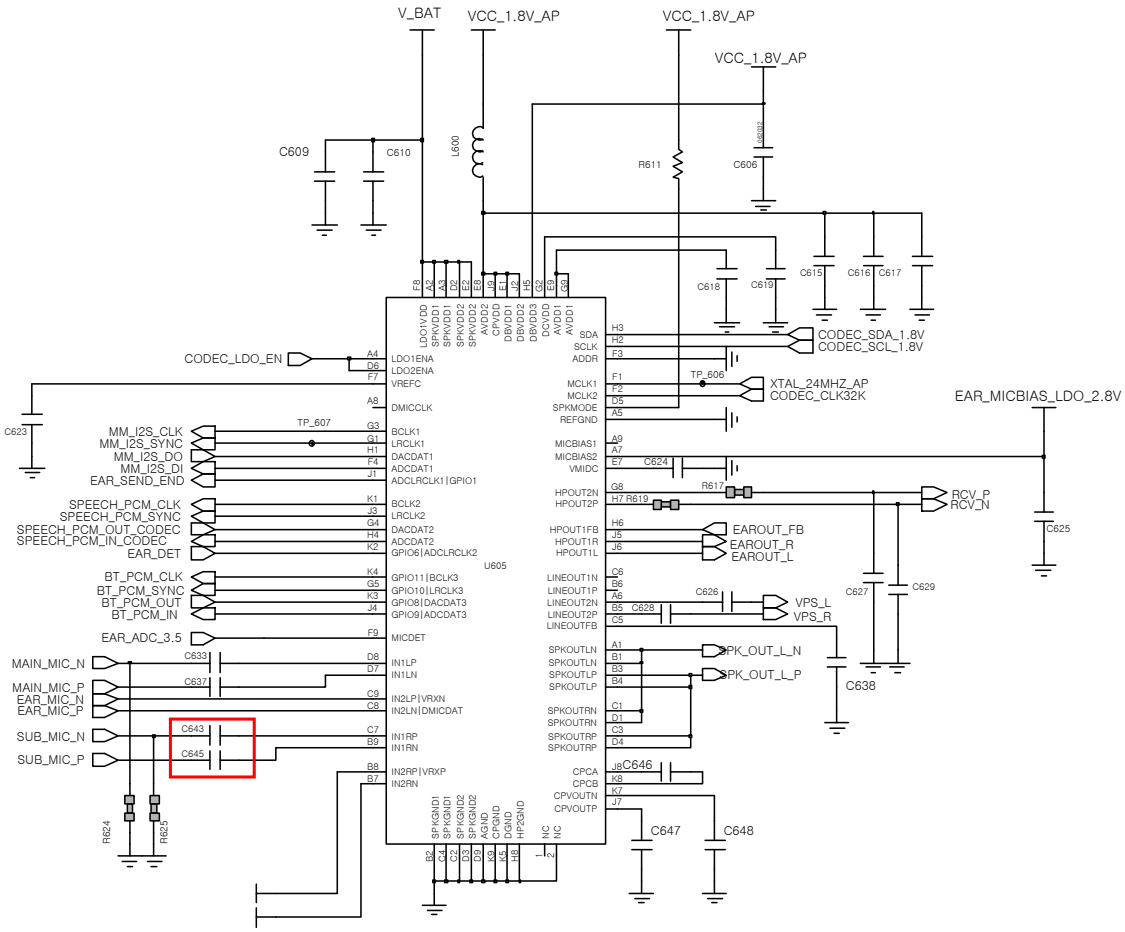


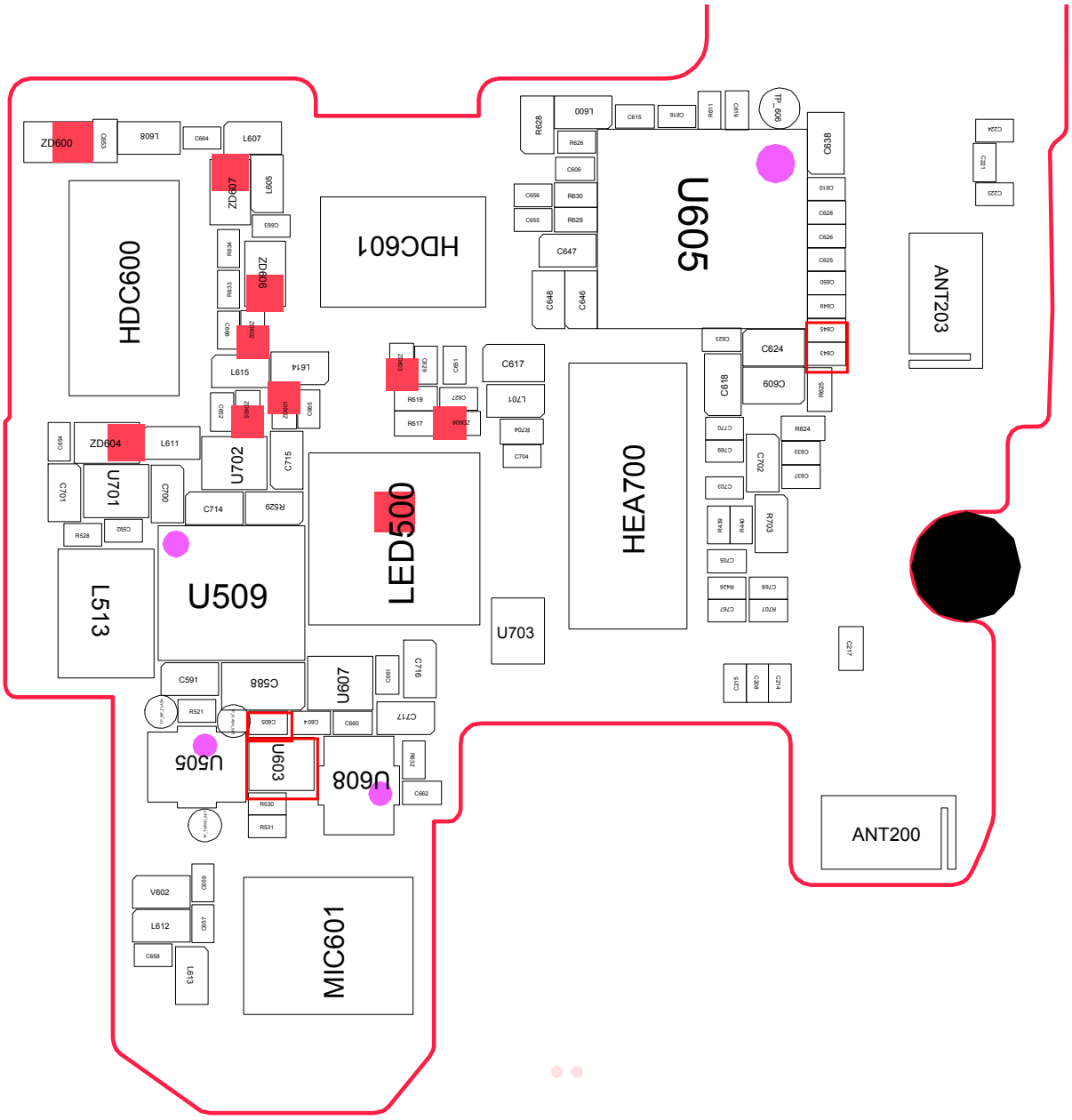


8-3-6-1. Microphone Part (Sub MIC)

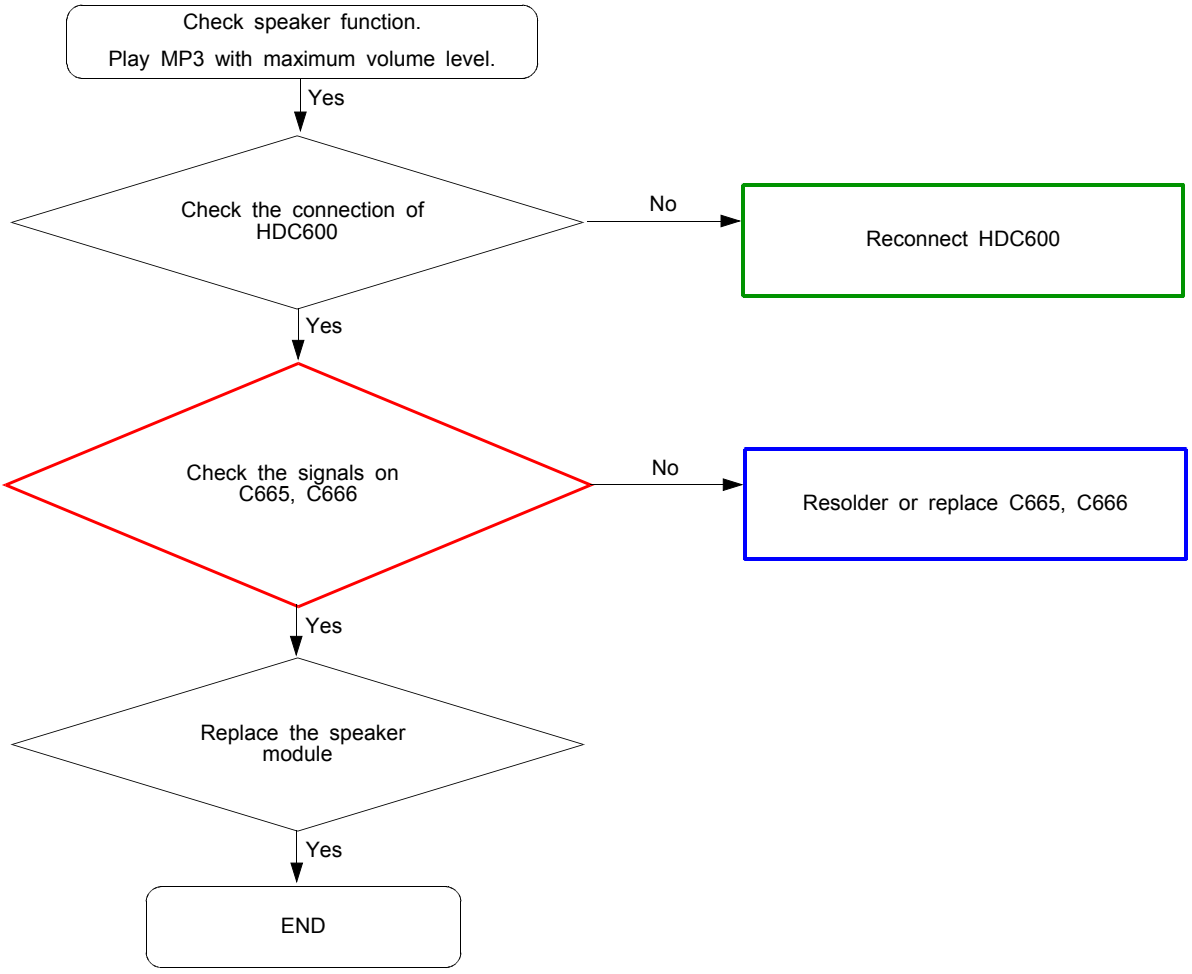


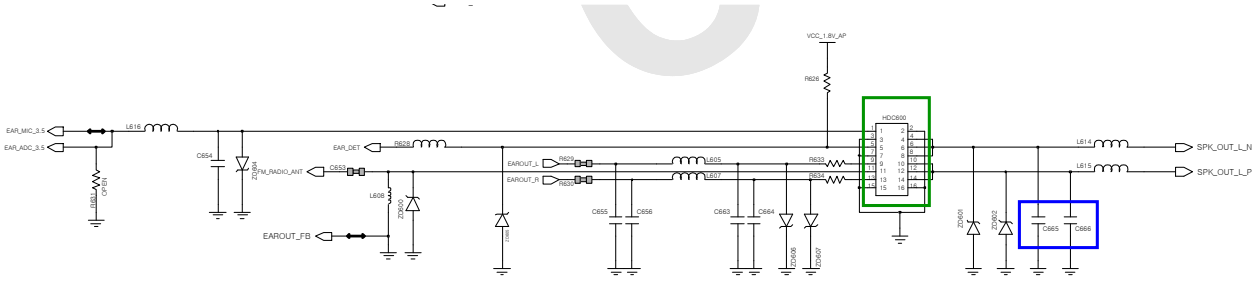


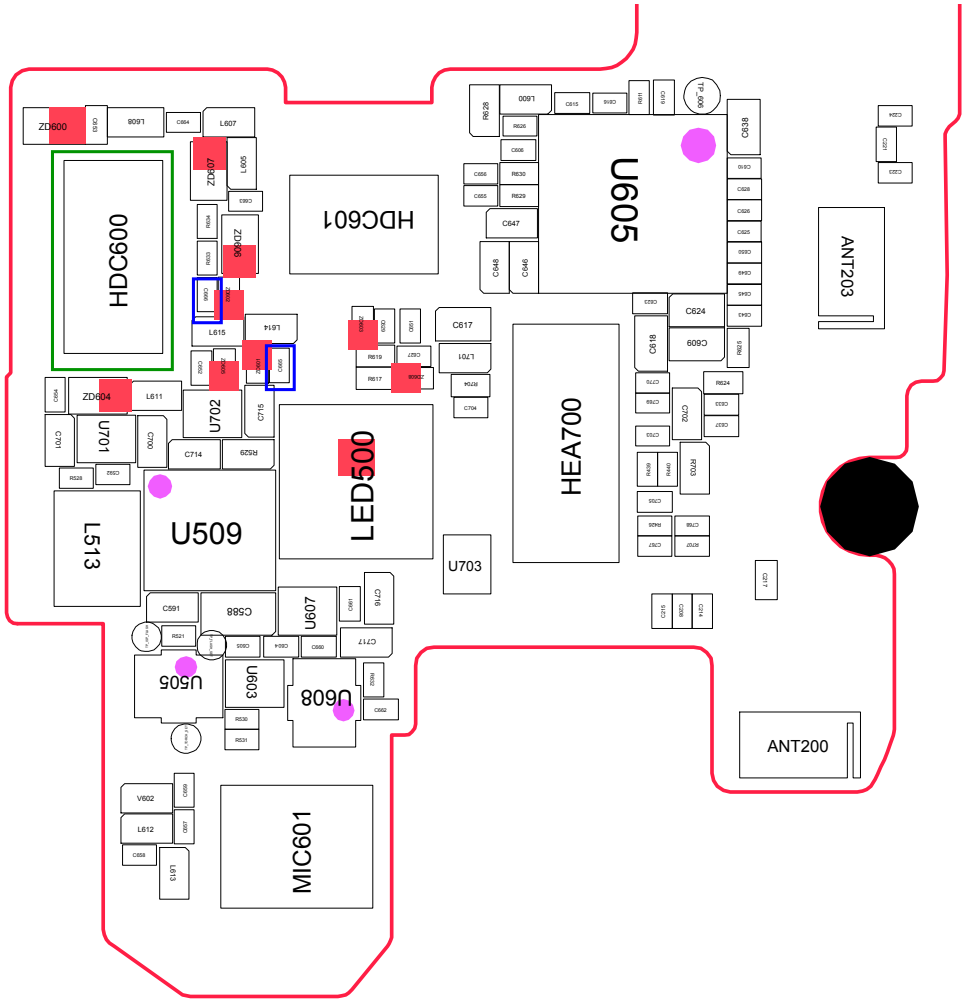




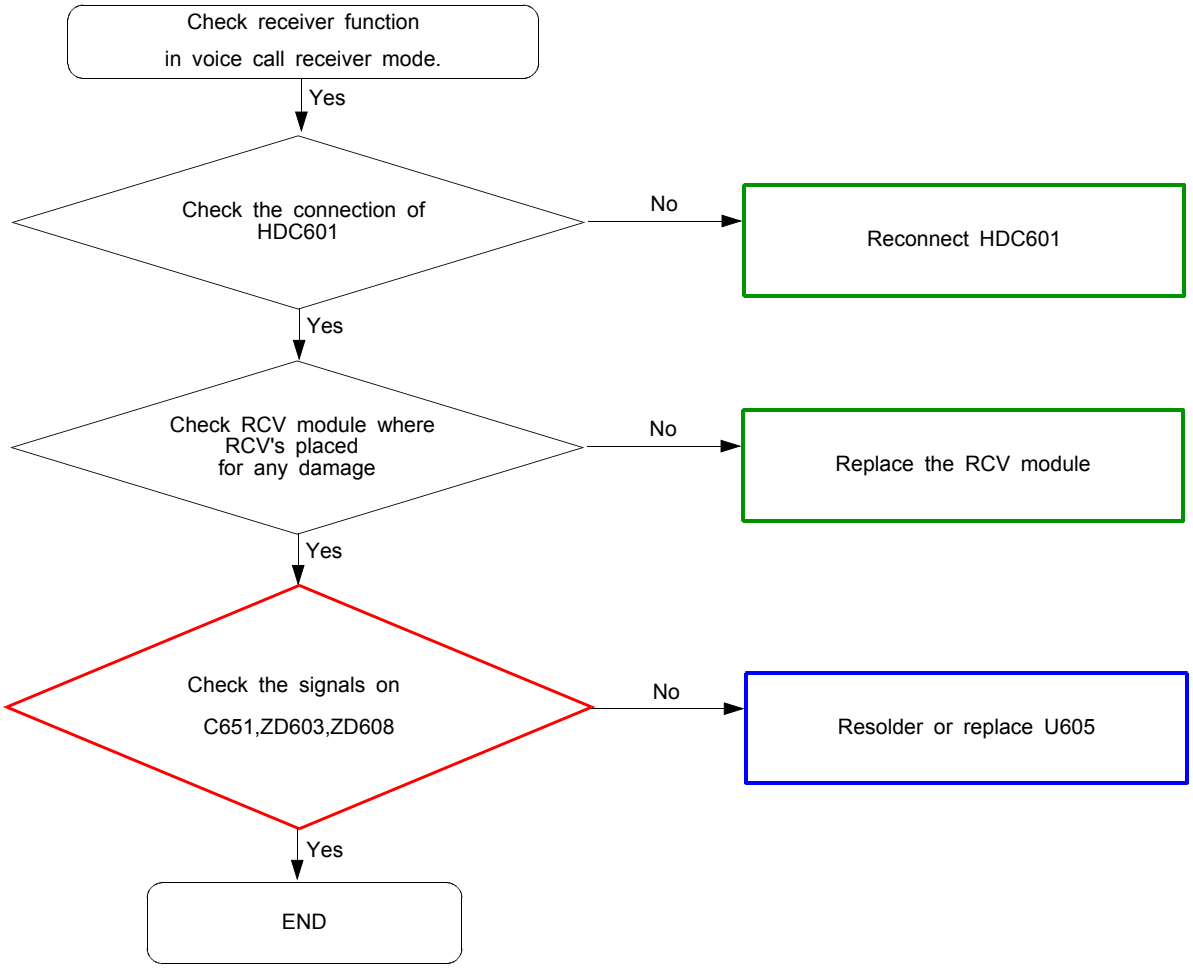
8-3-7. Speaker Part

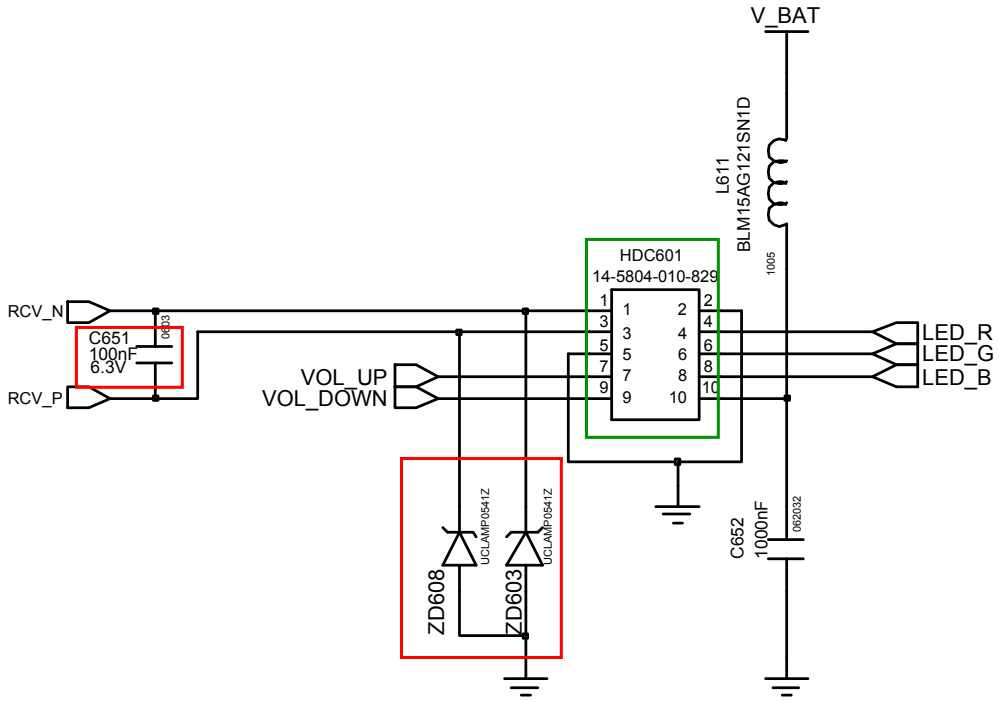


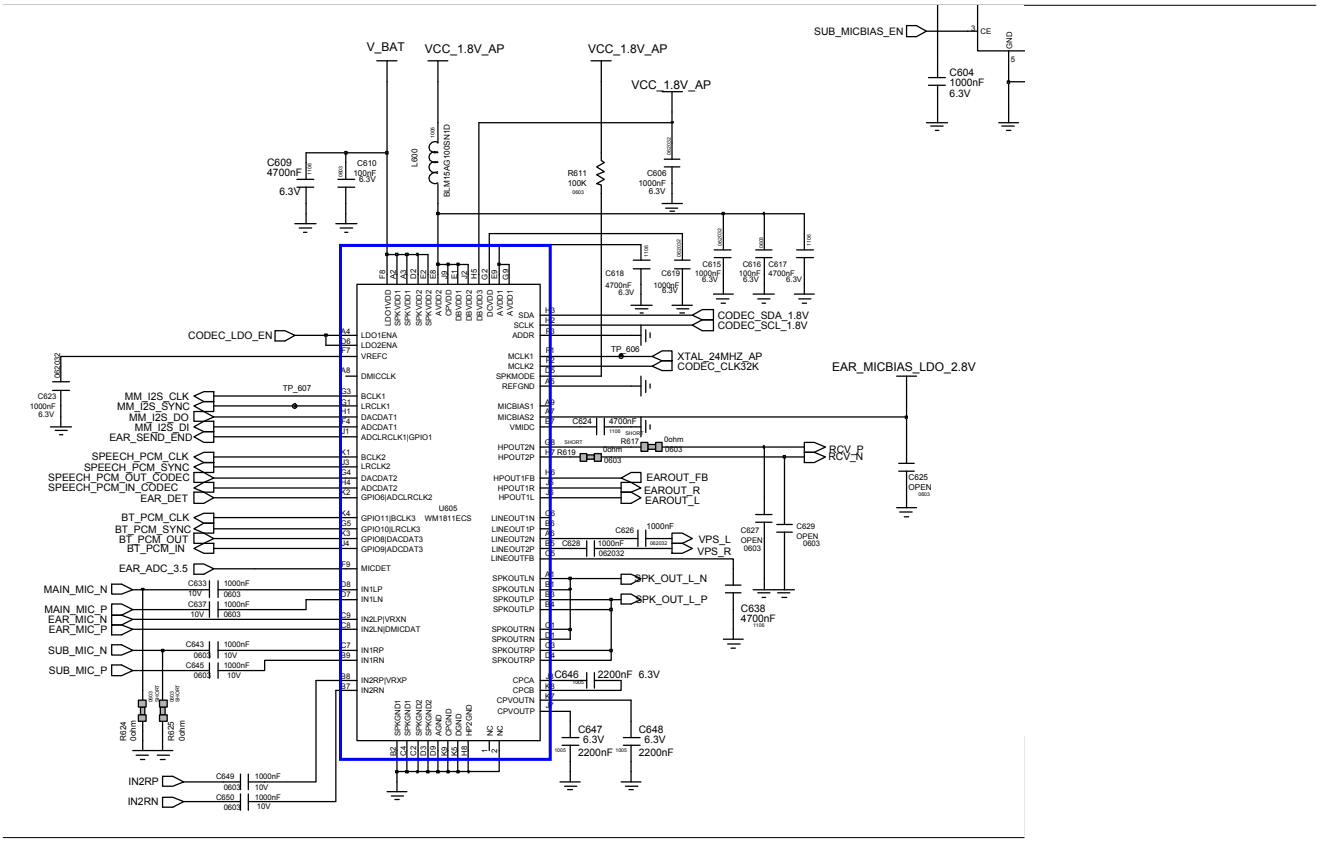




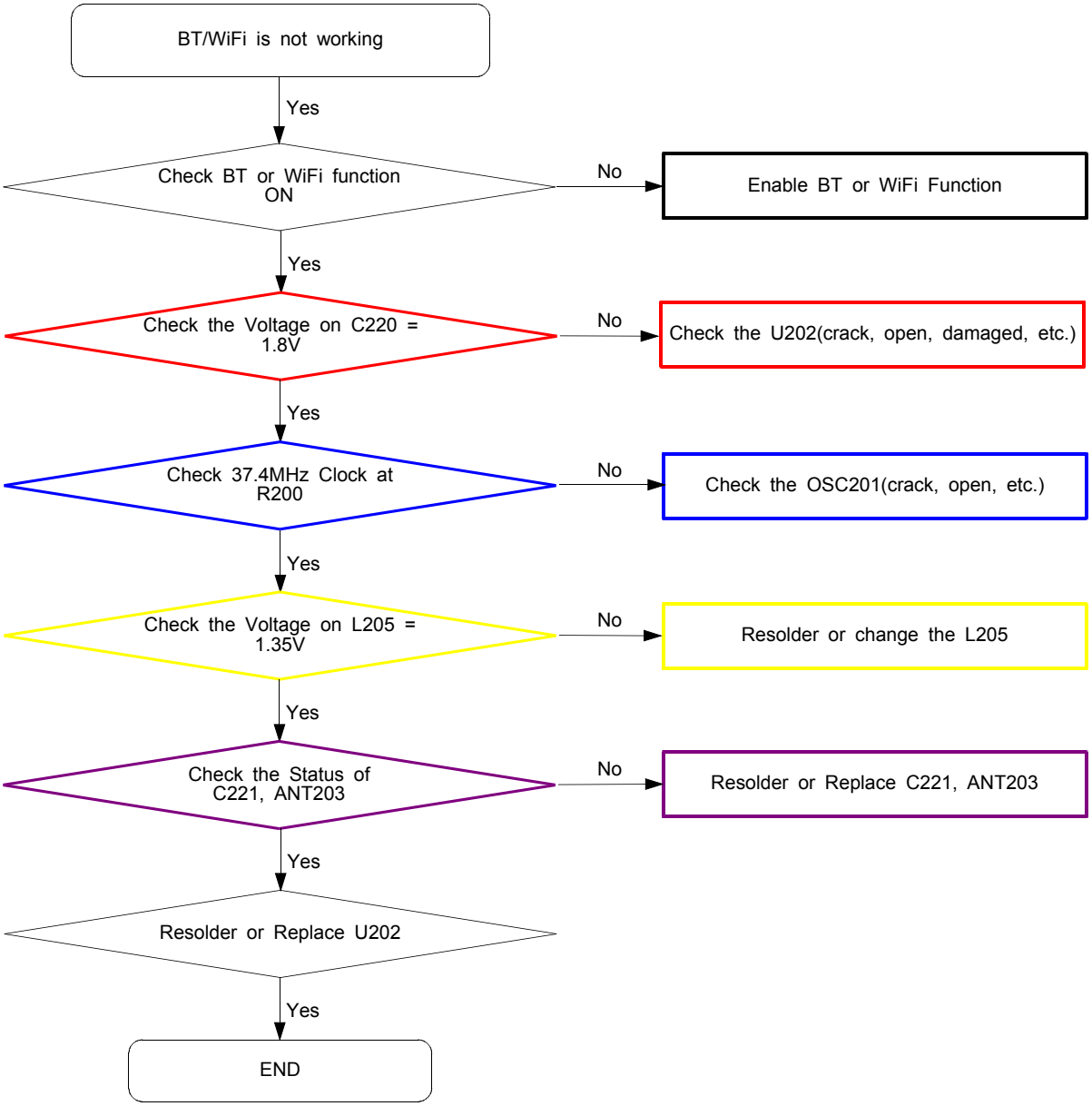
8-3-8. Receiver Part

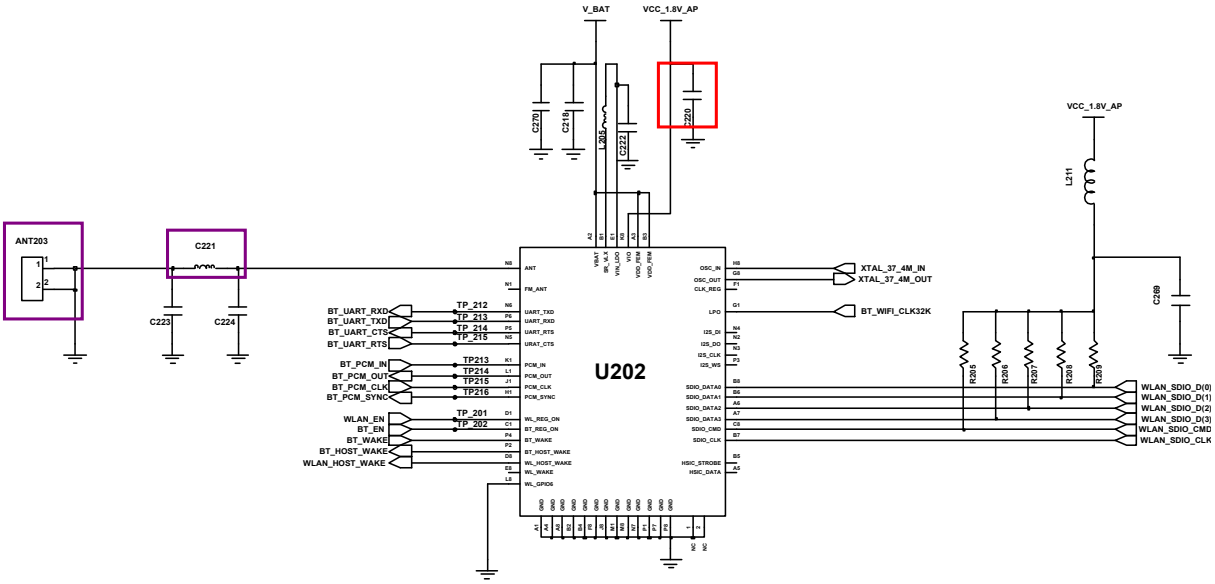


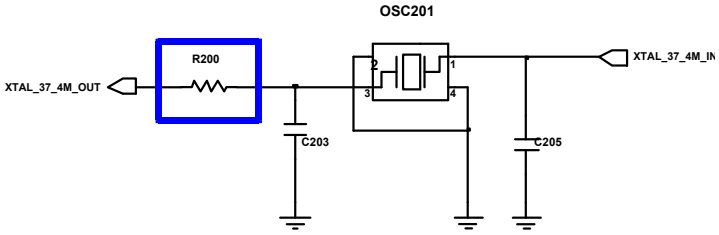


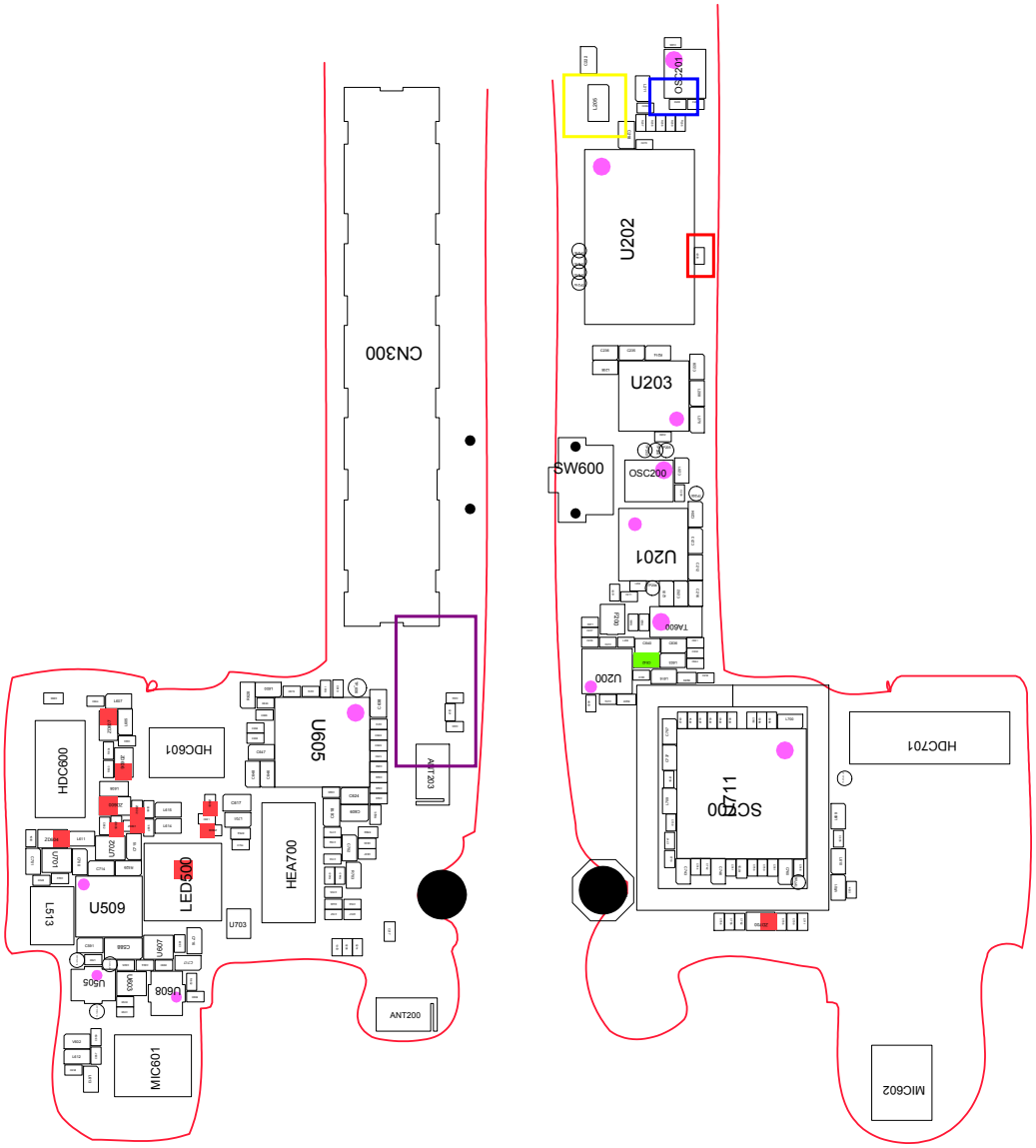


8-3-9. BT/WIFI

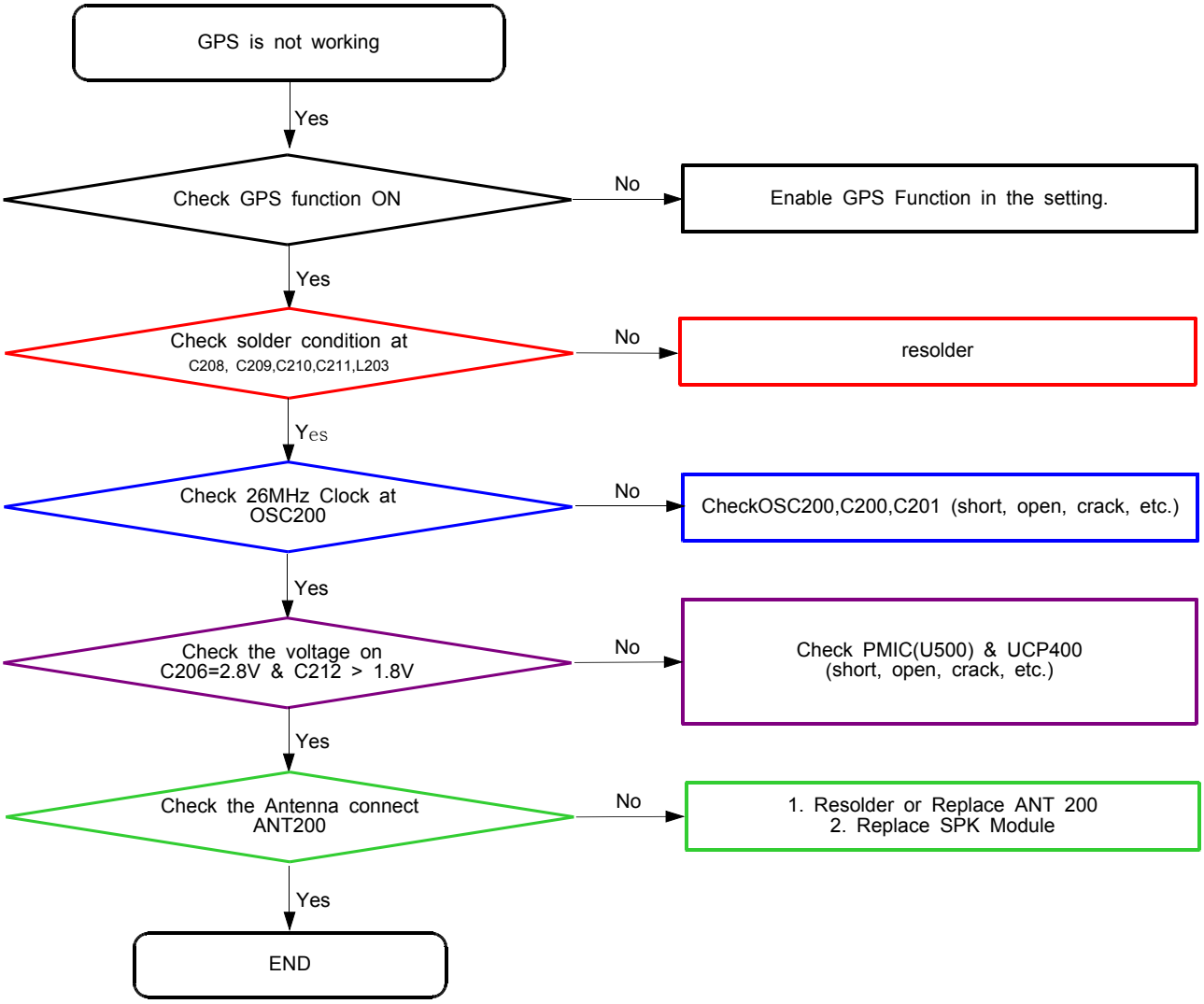


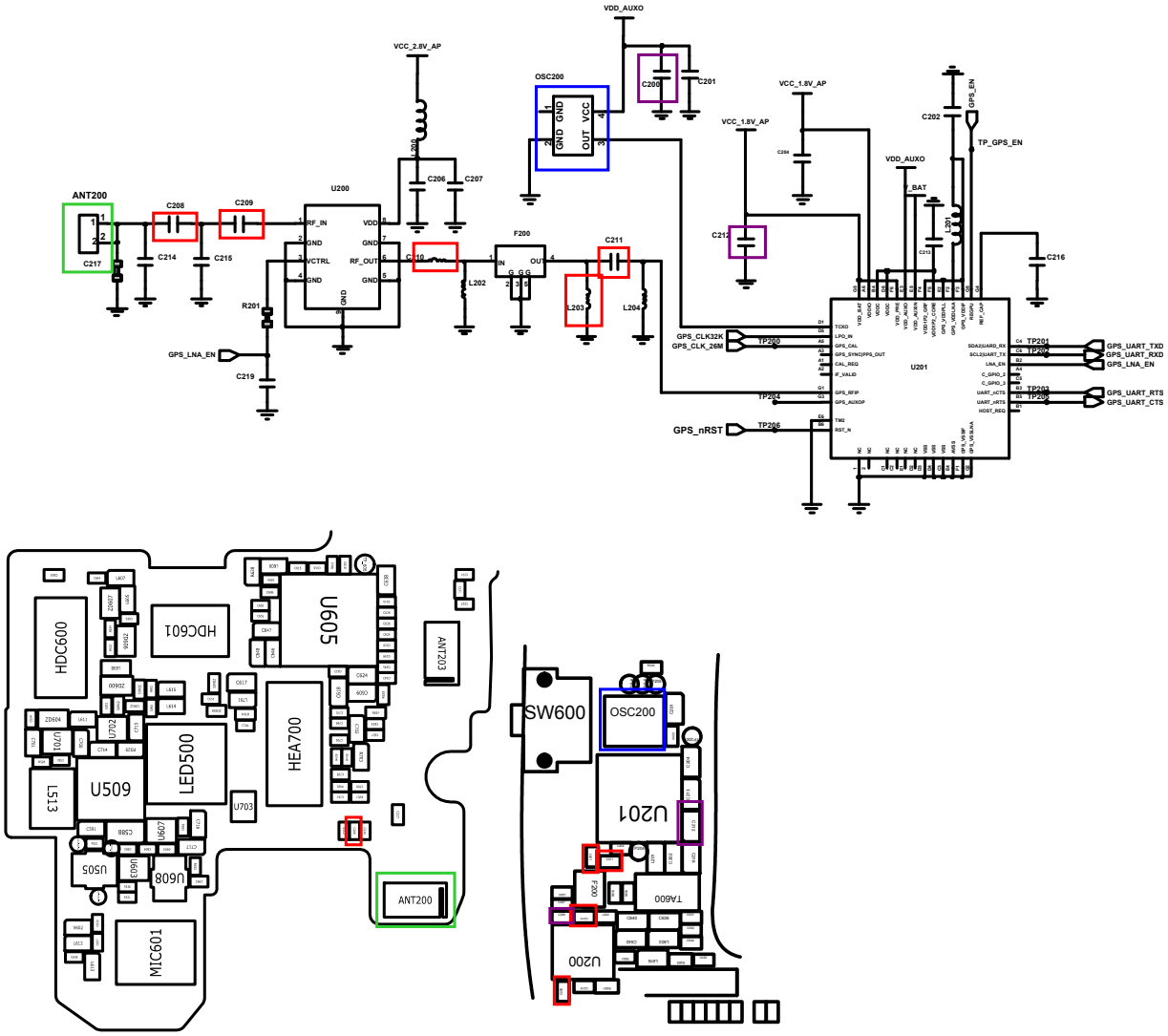




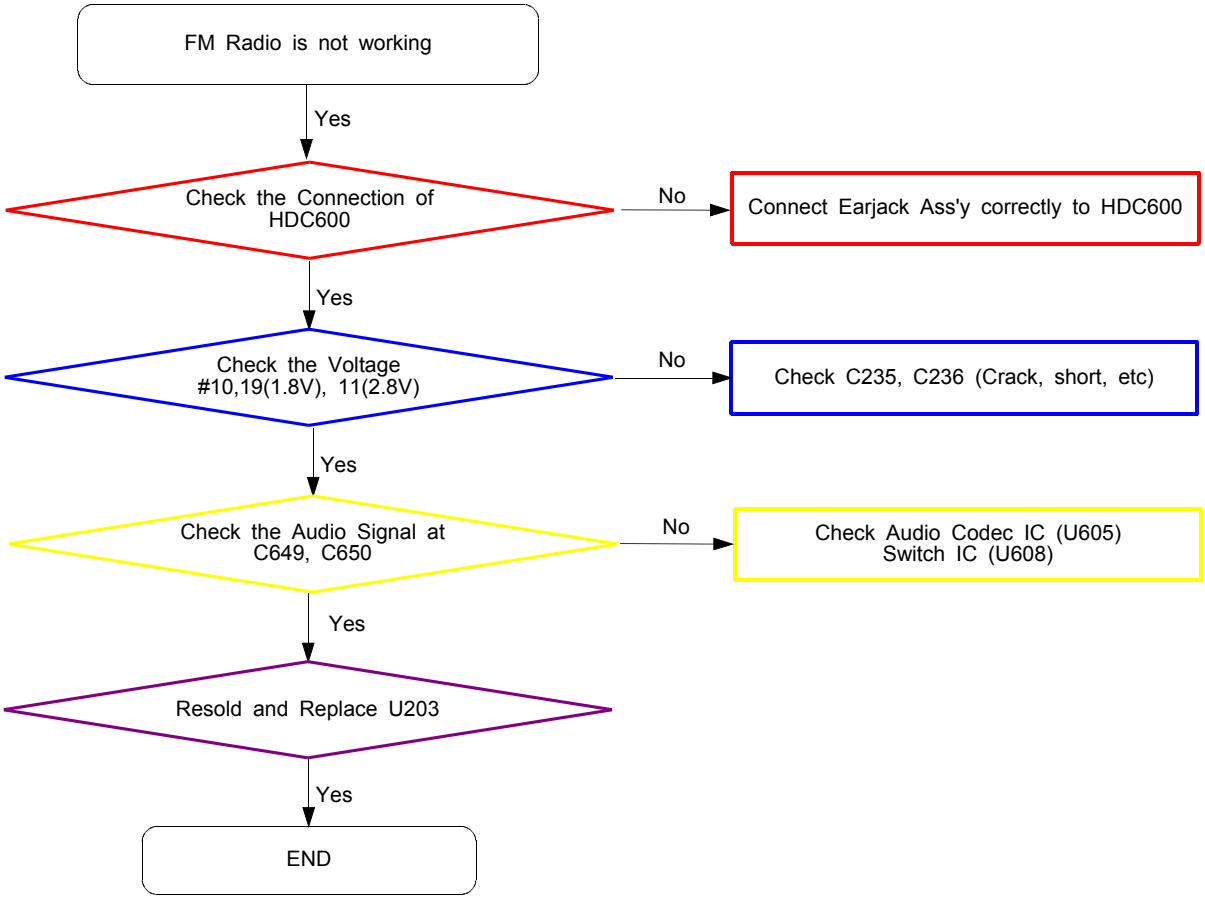


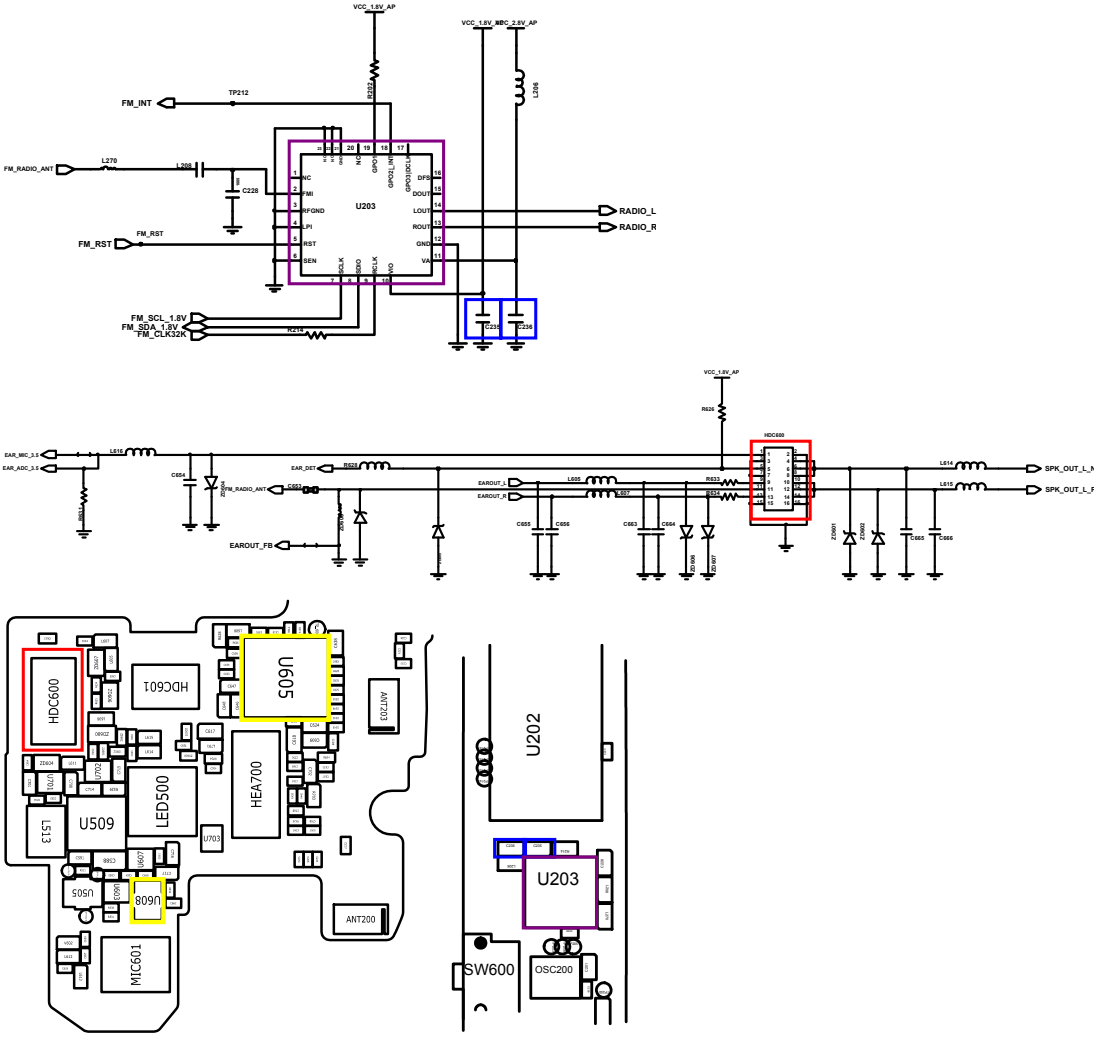
8-3-10. GPS





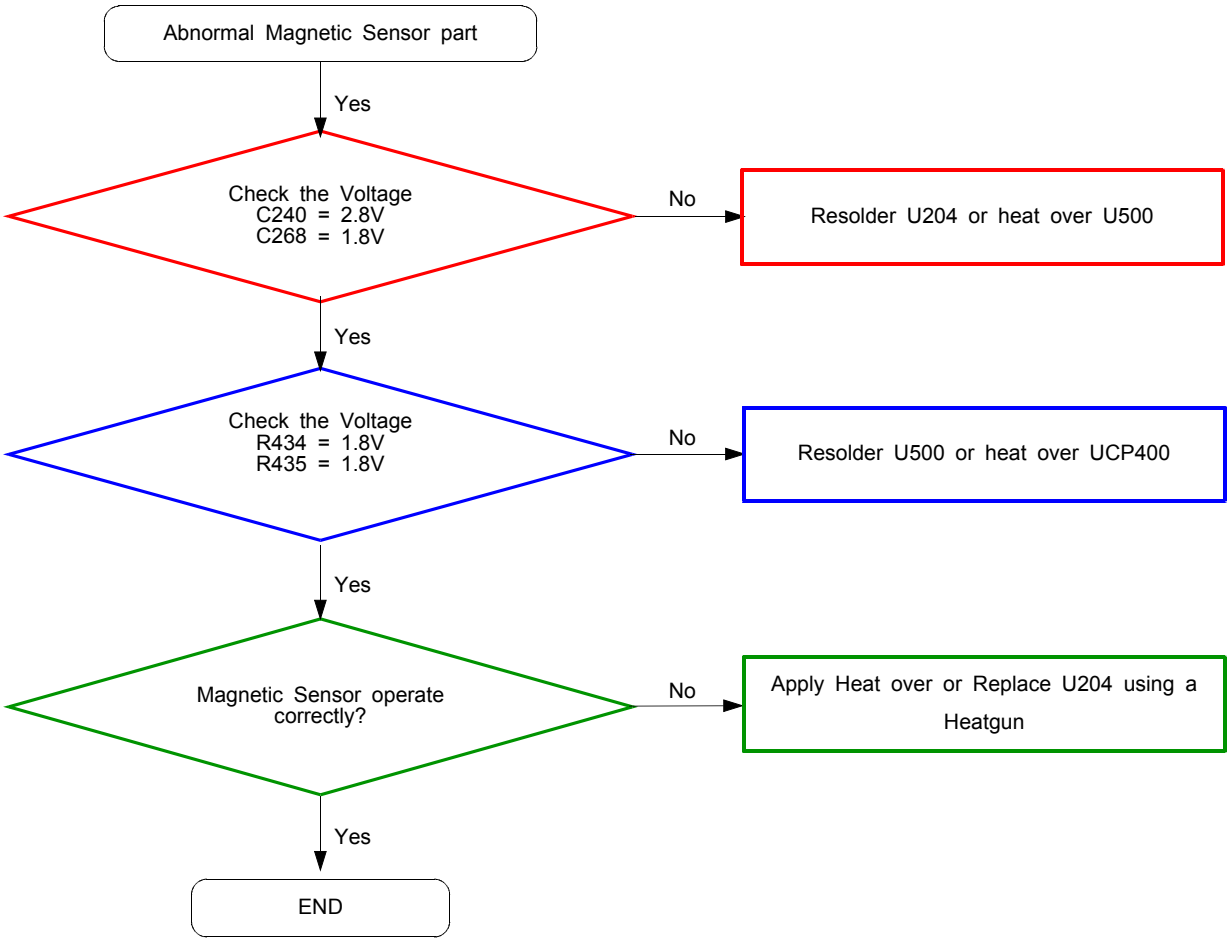
8-3-11. FM RADIO

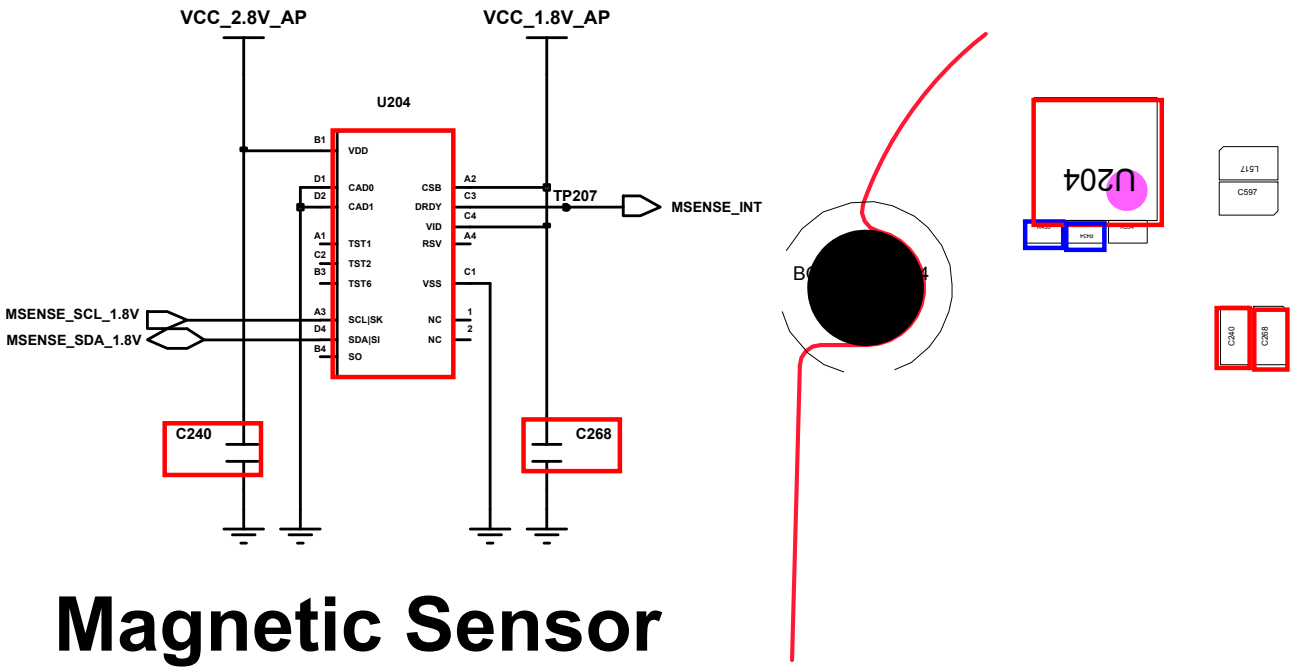




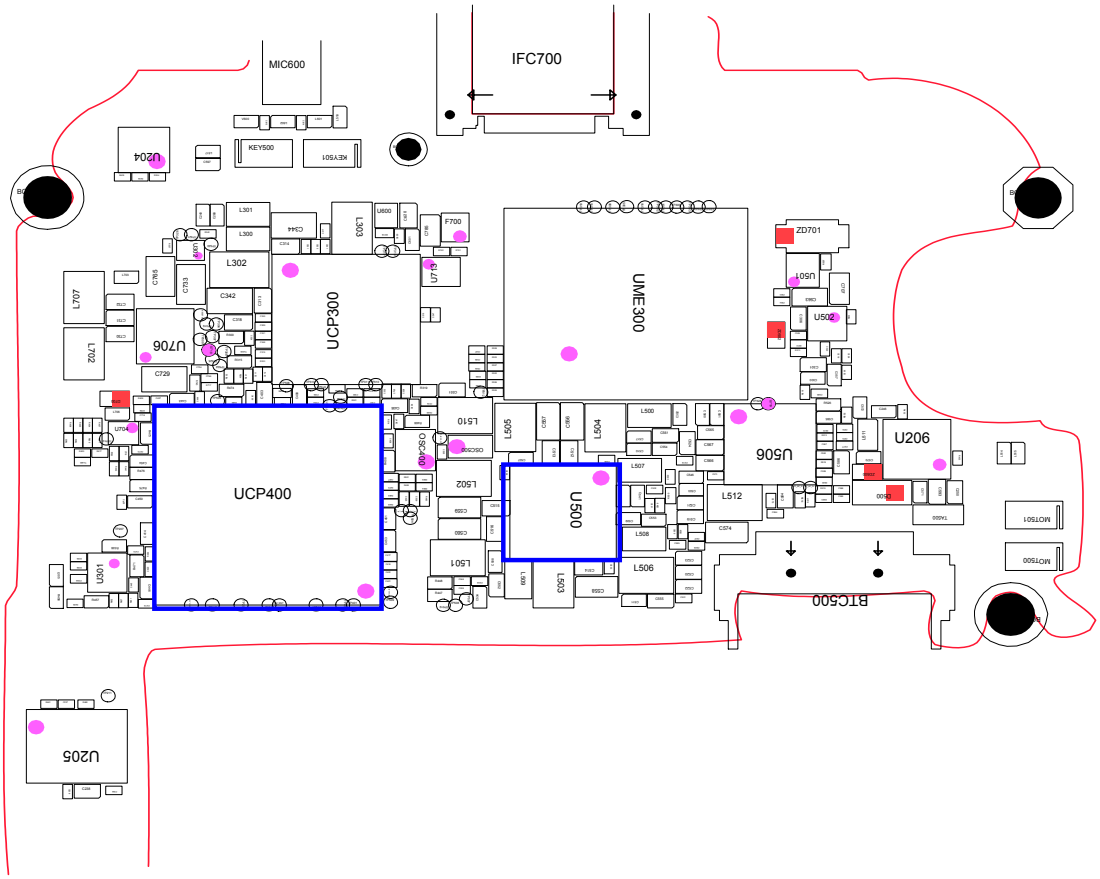
8-3-12.Sensor Part

1. Magnetic Sensor

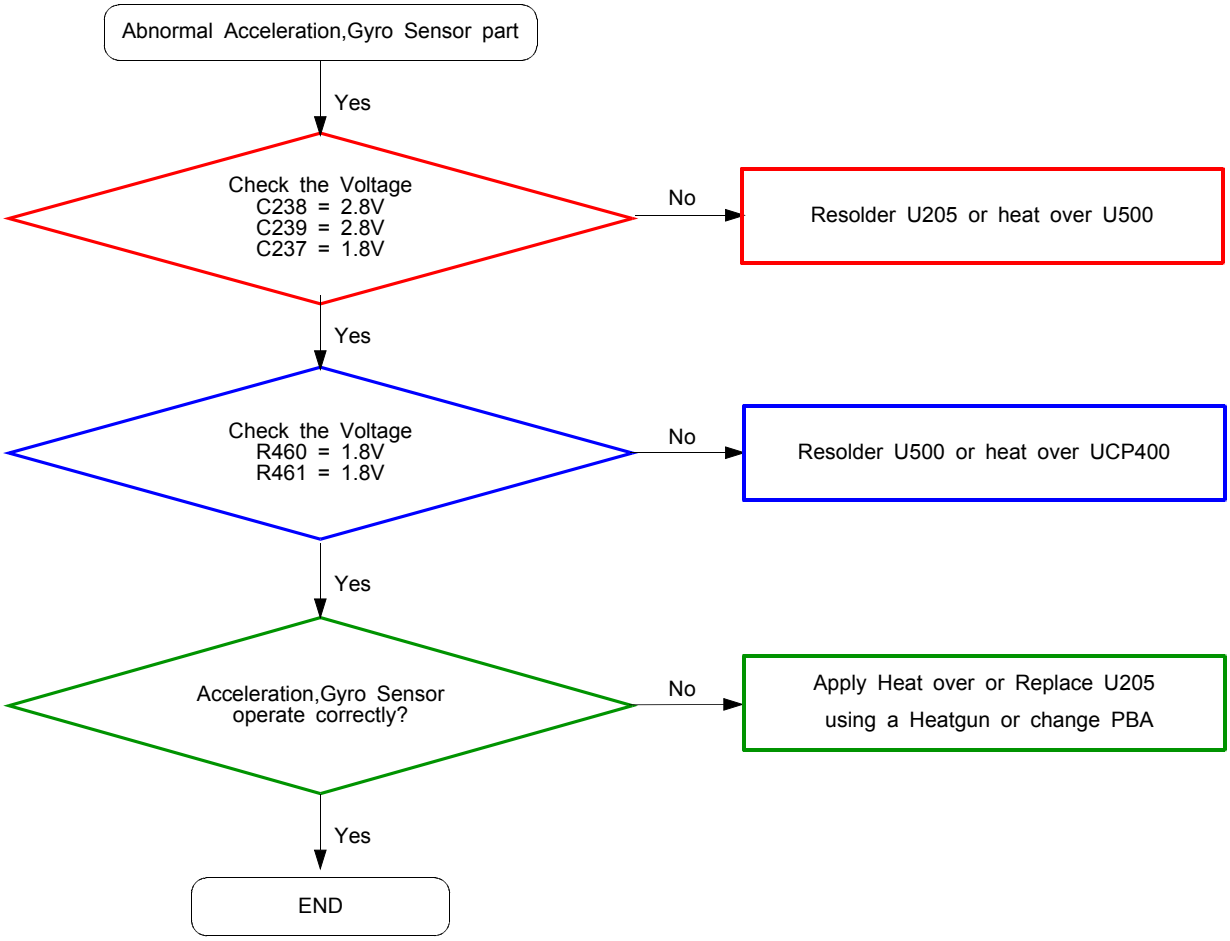


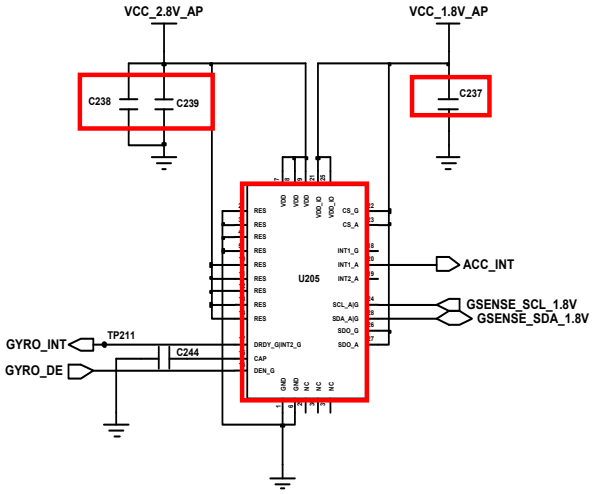


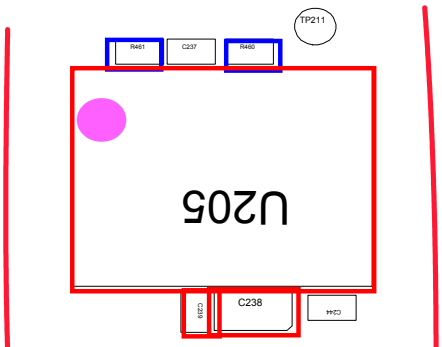
Magnetic Sensor



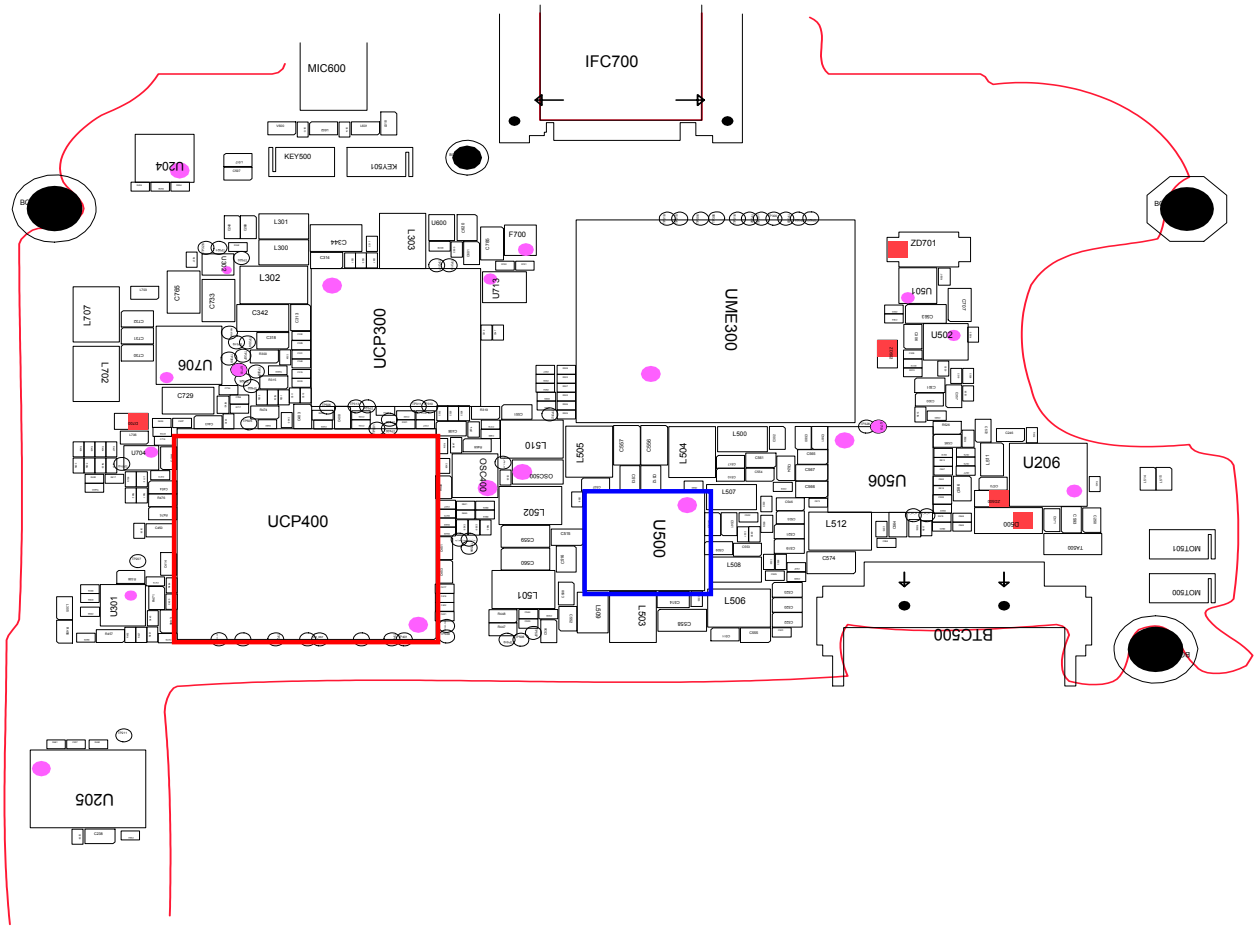
2. Acceleration , Gyro Sensor



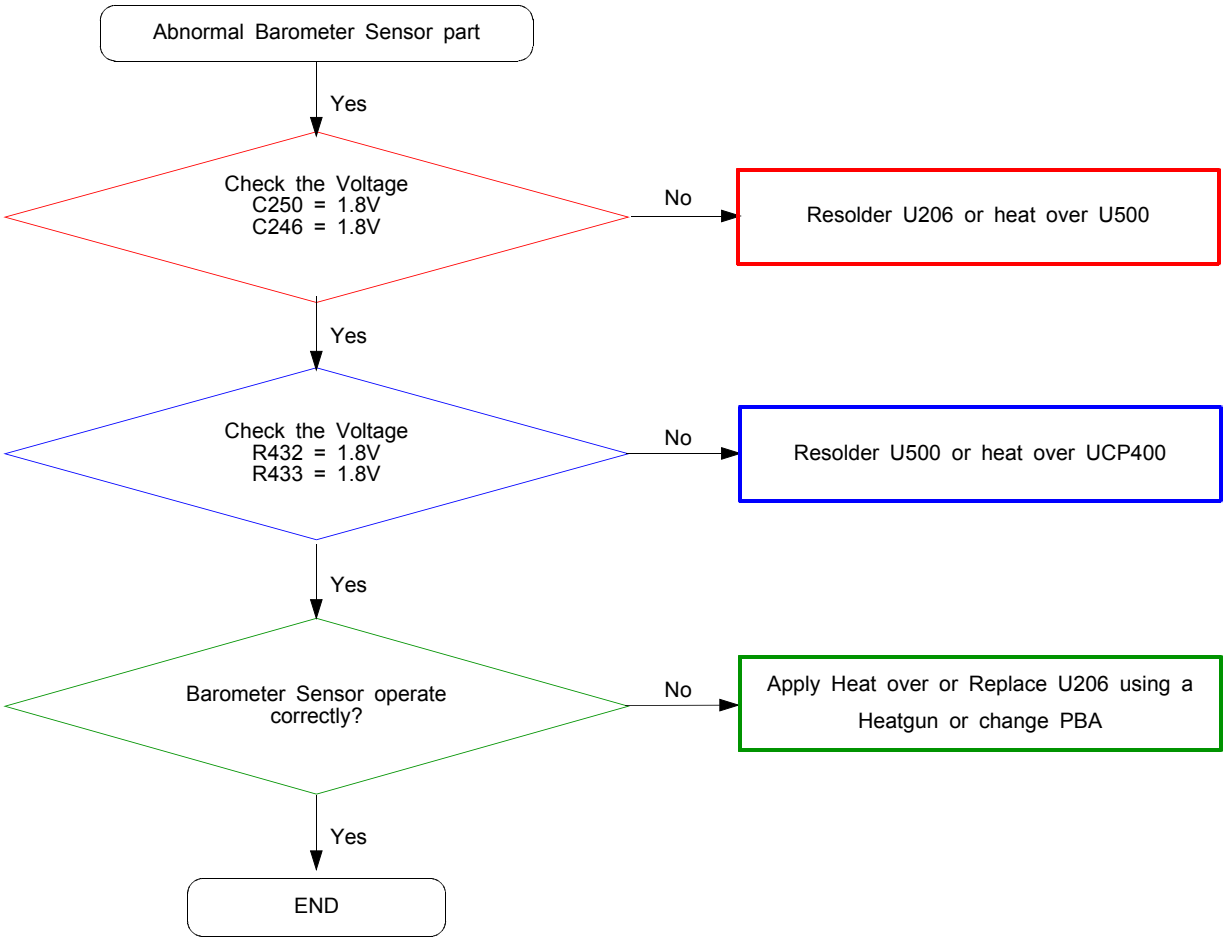


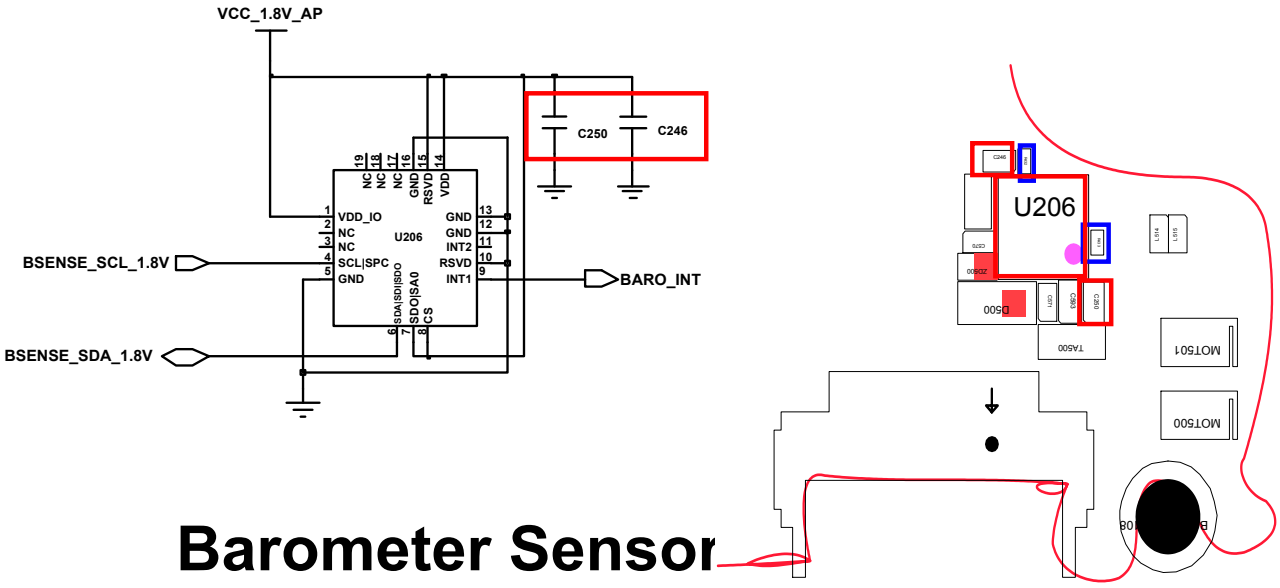


6 Axics Sensor (GYRO,ACCEL)

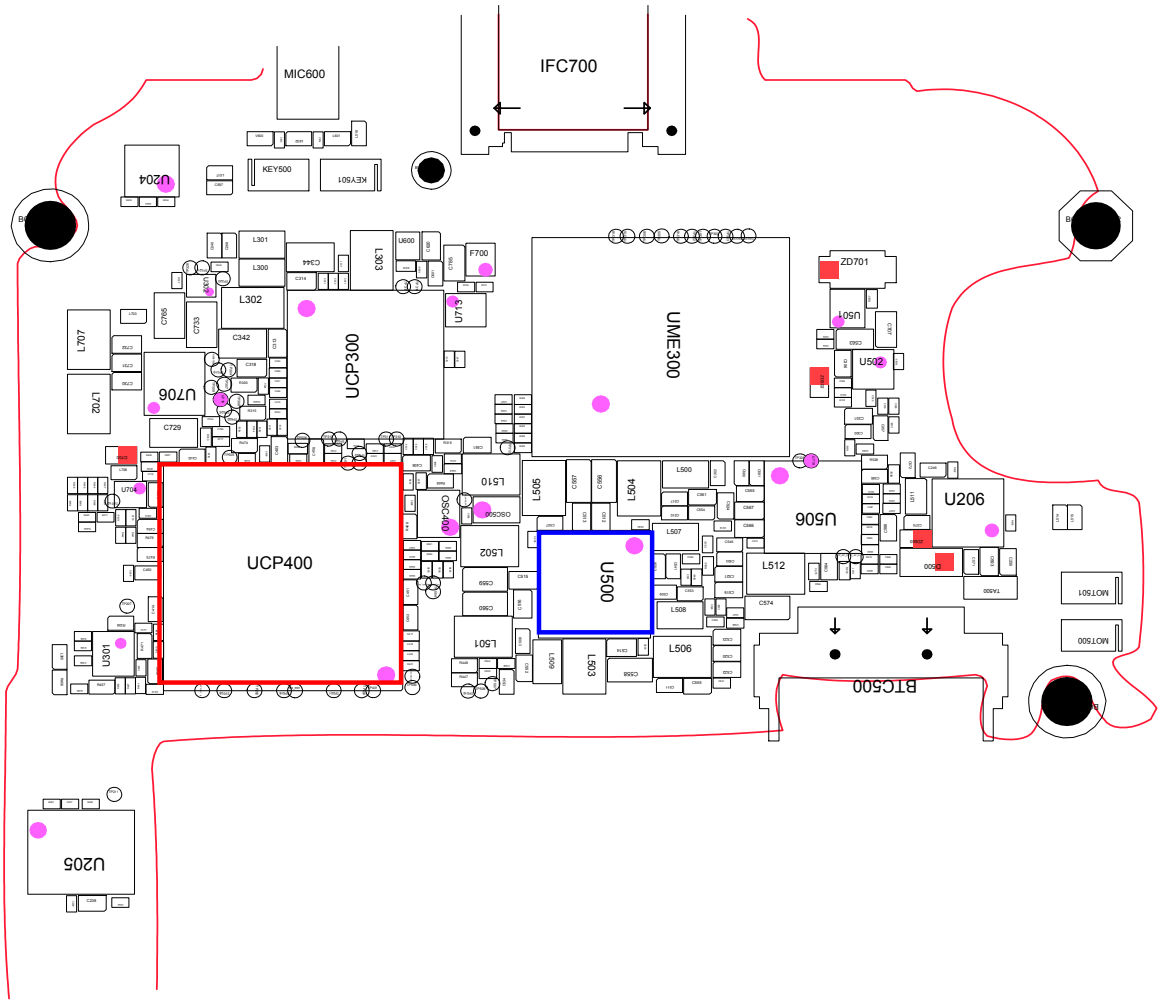


3. Barometer Sensor

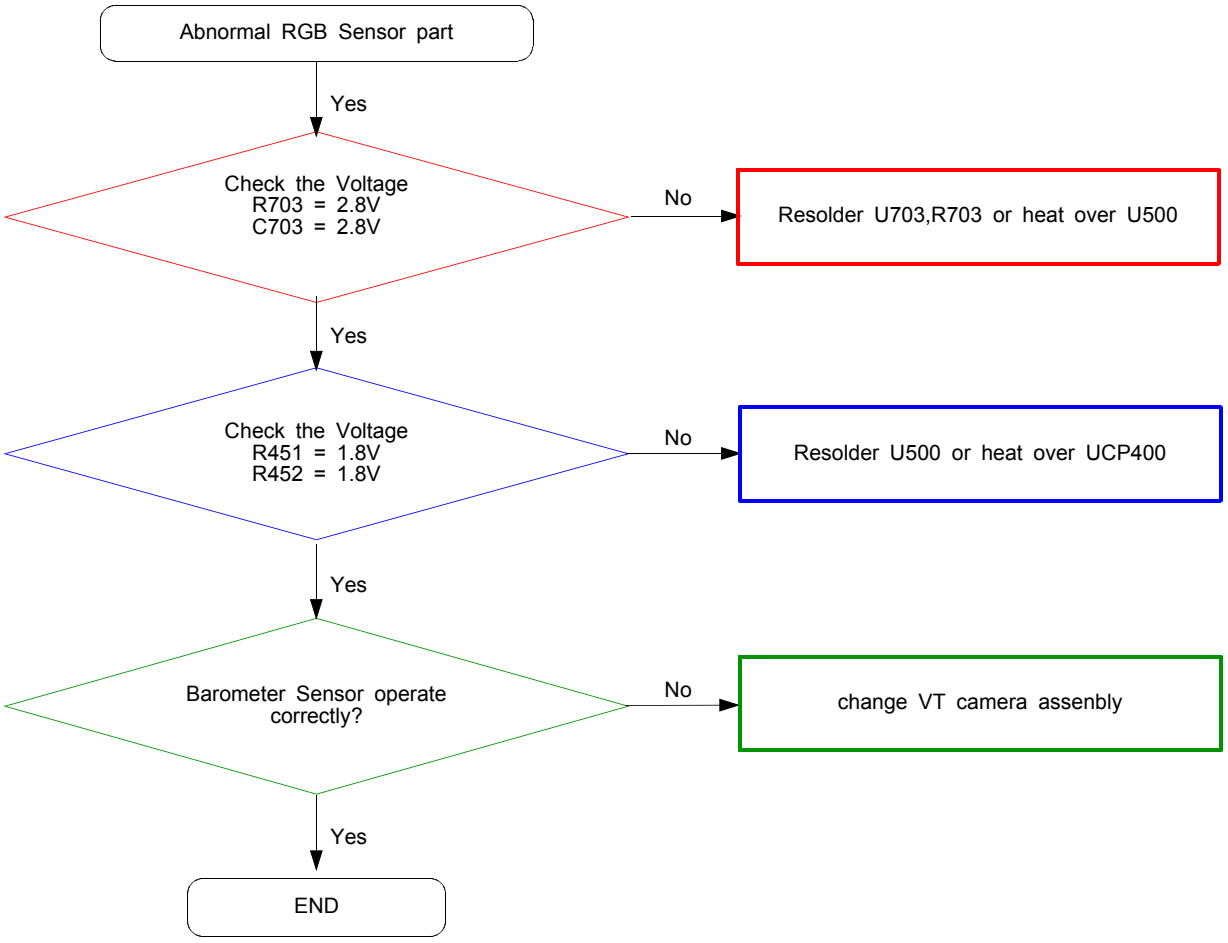


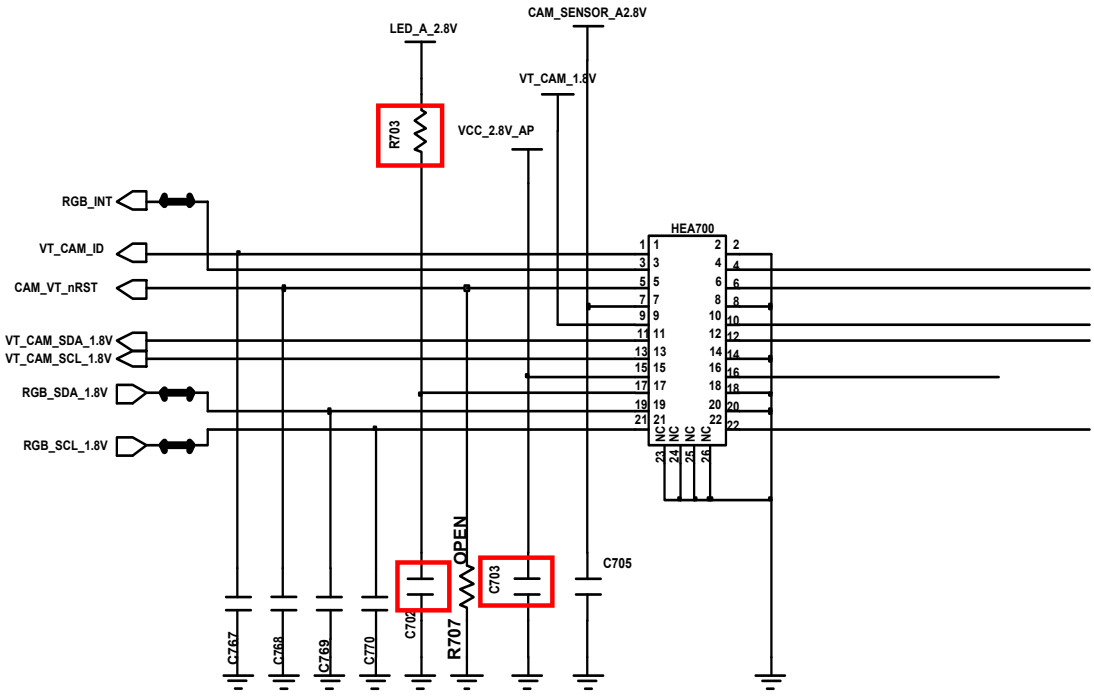


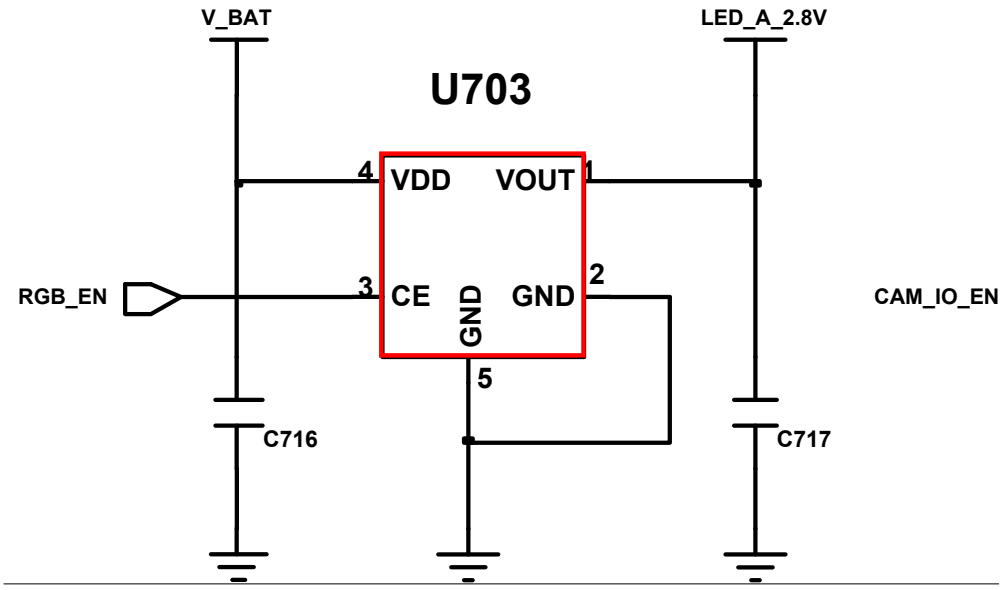
Barometer Sensor



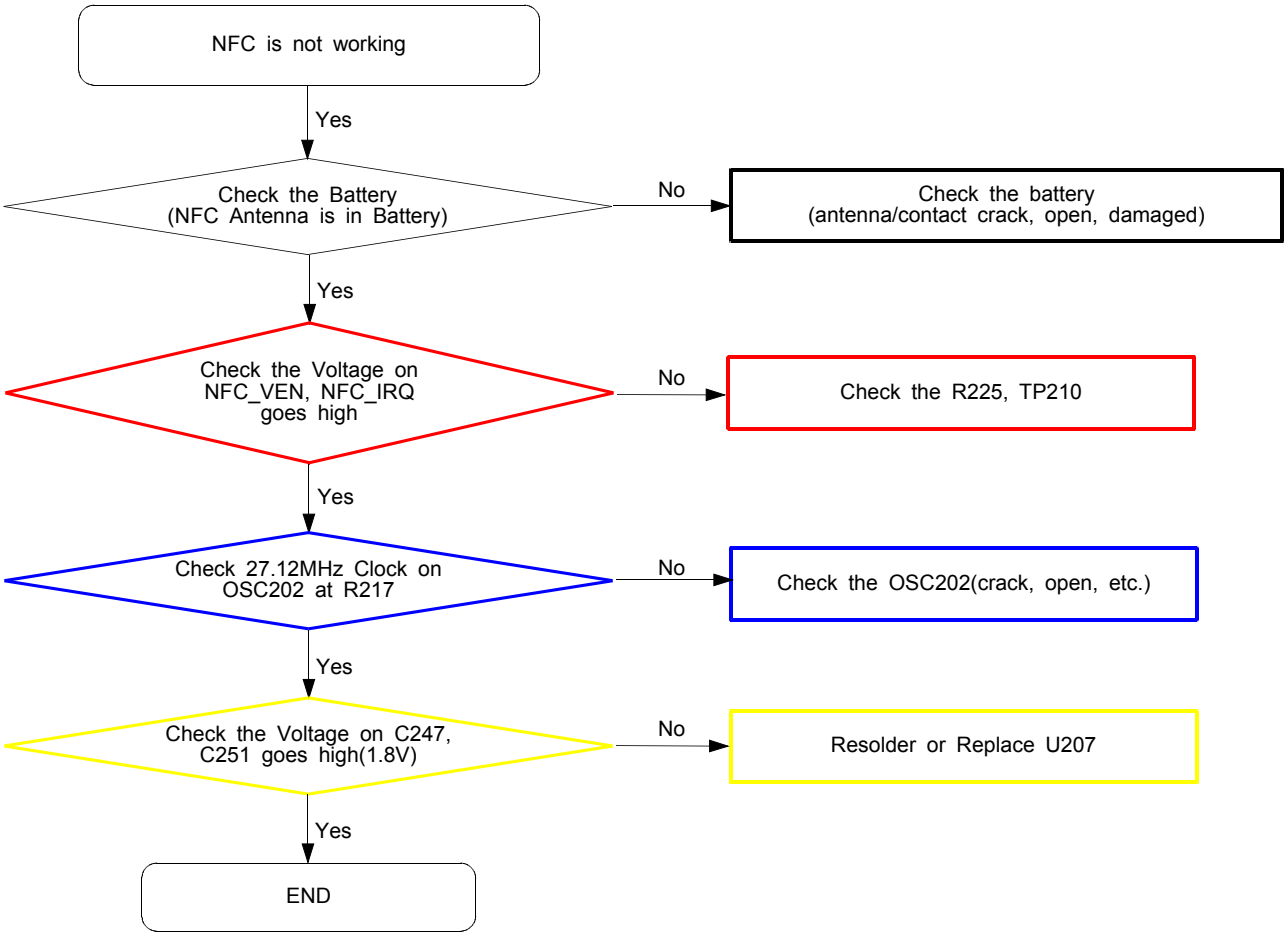
4. RGB Sensor

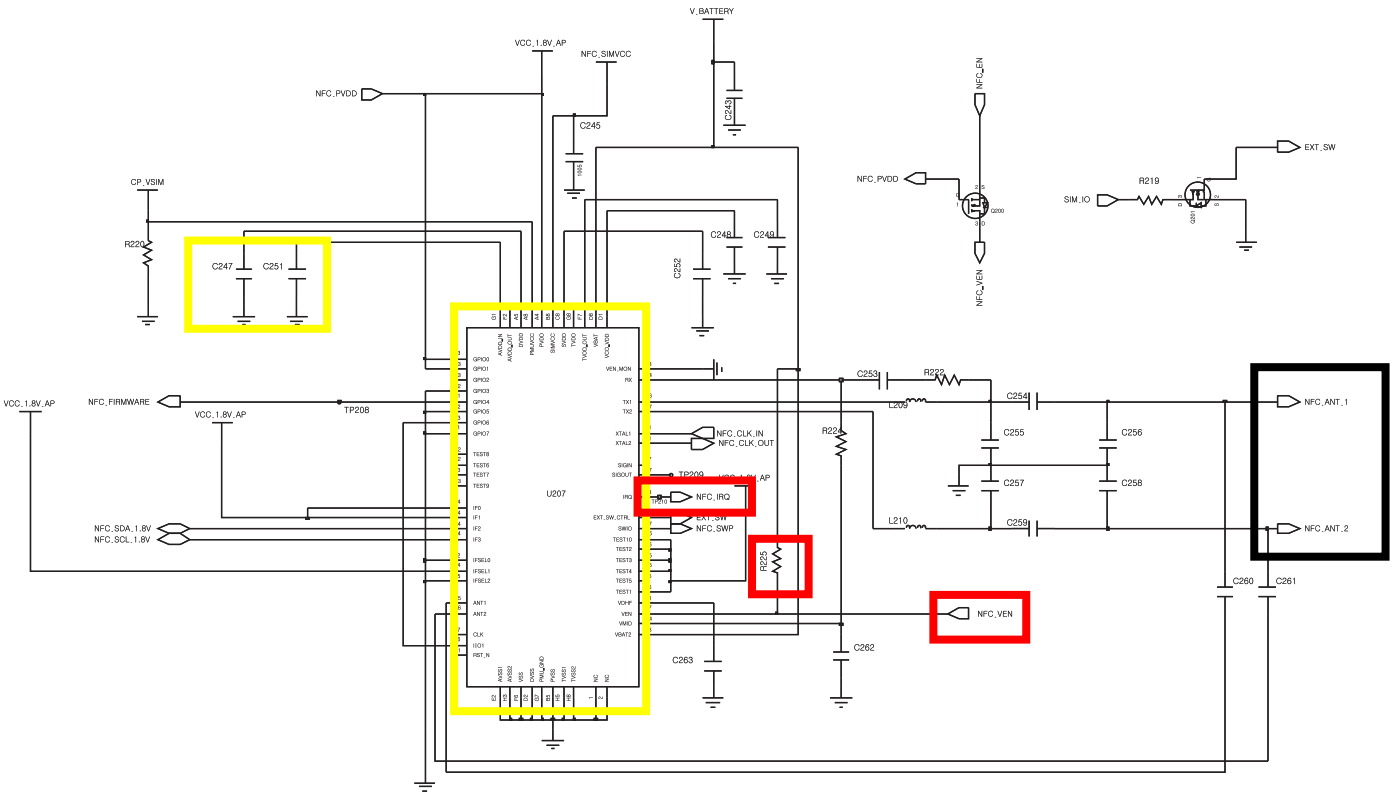


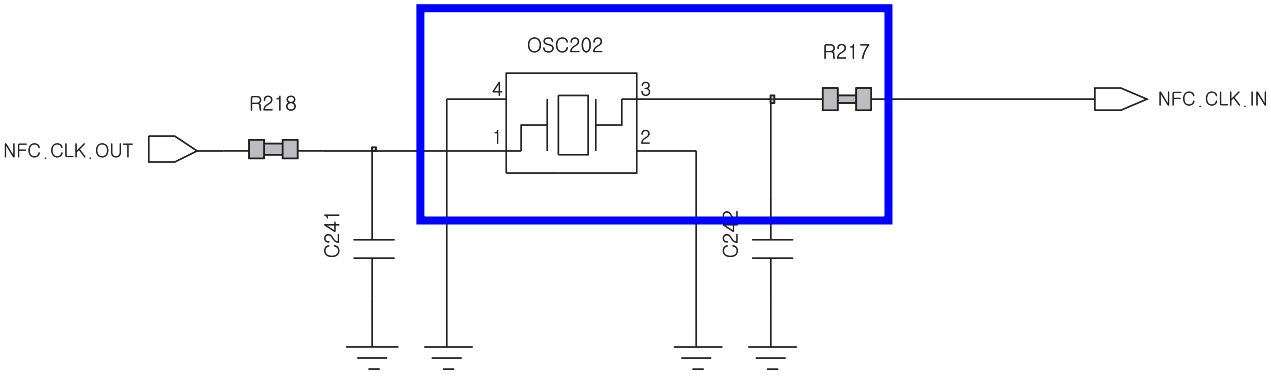




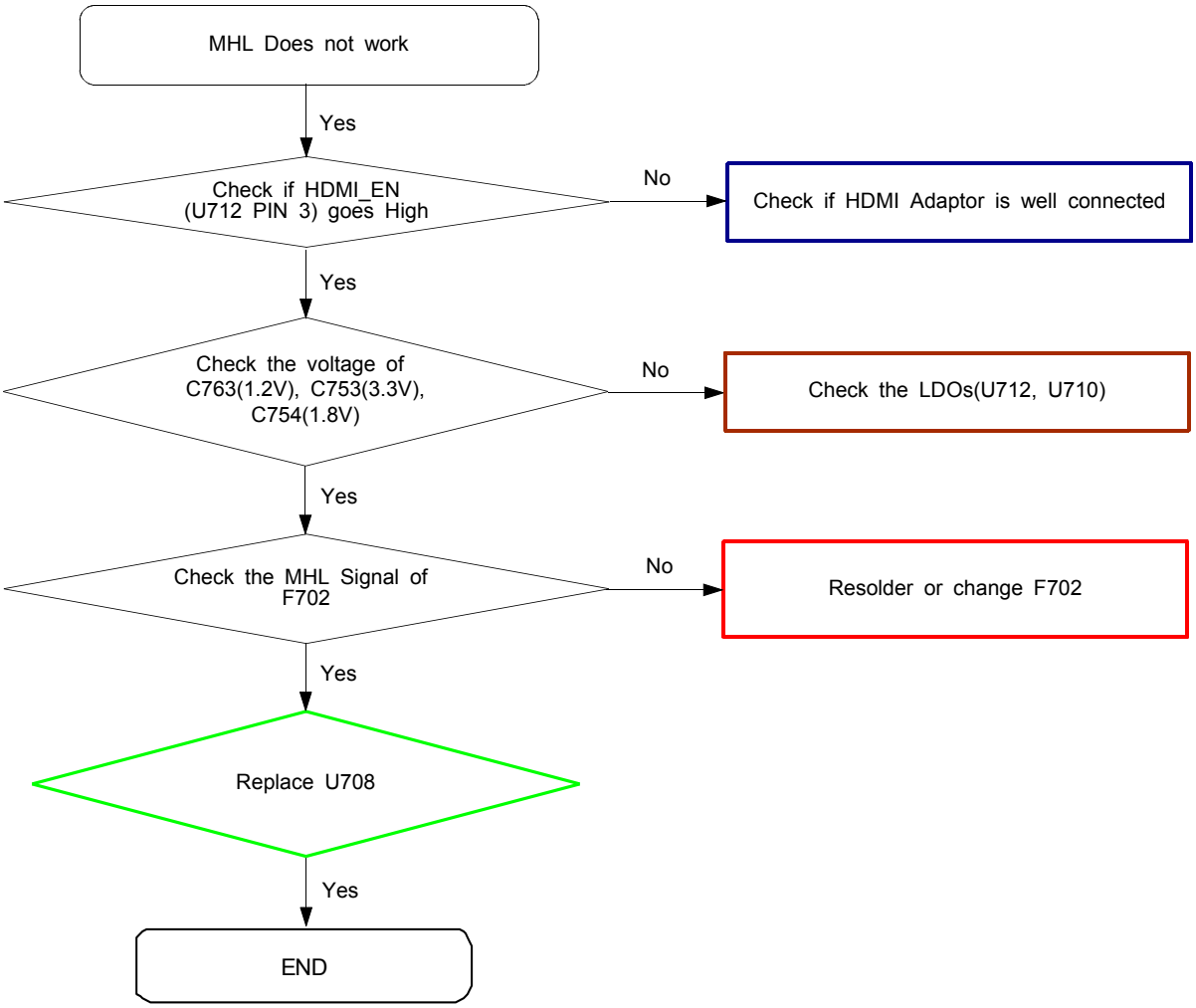
8-3-13. NFC

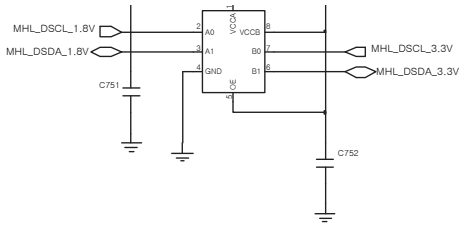






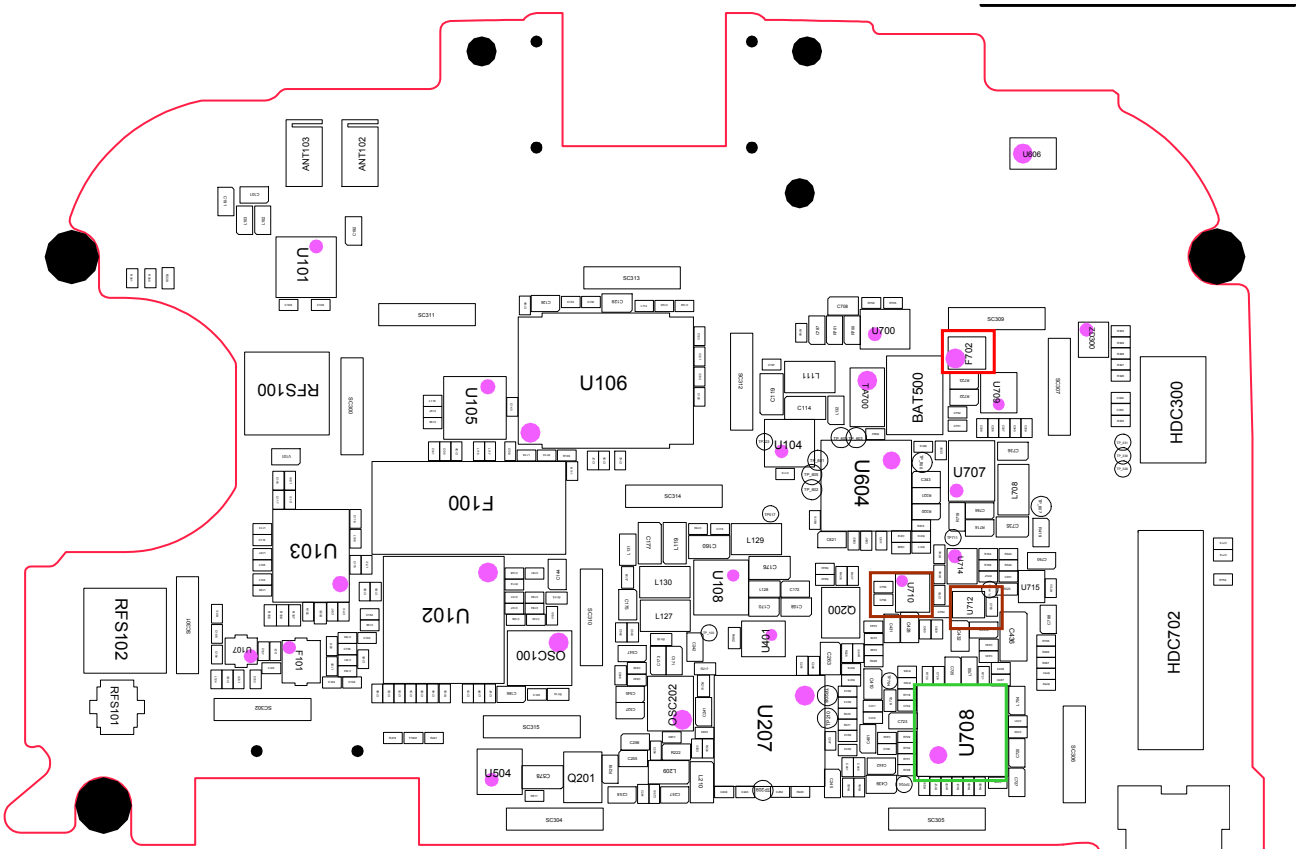
8-3-14. MHL



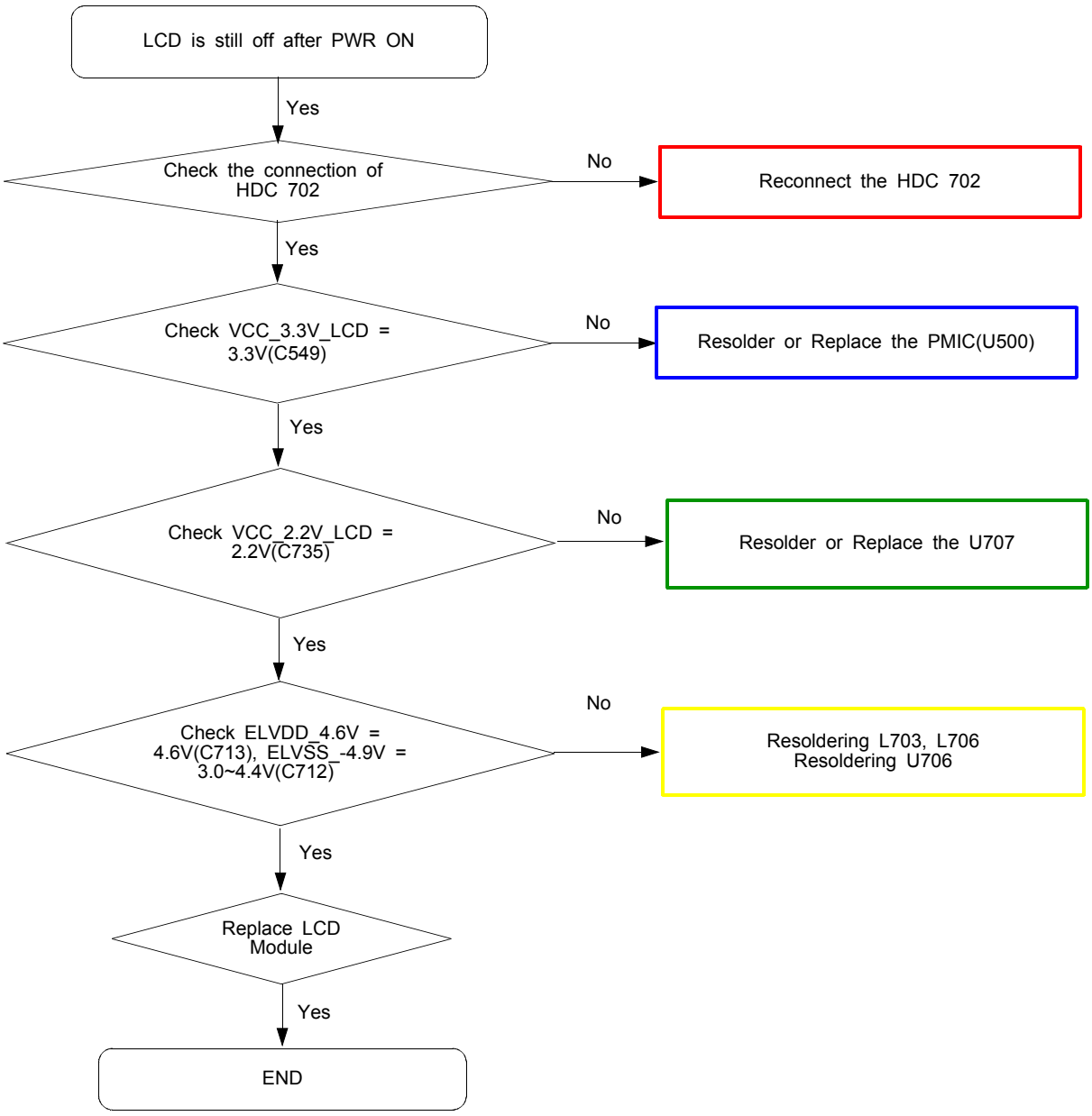


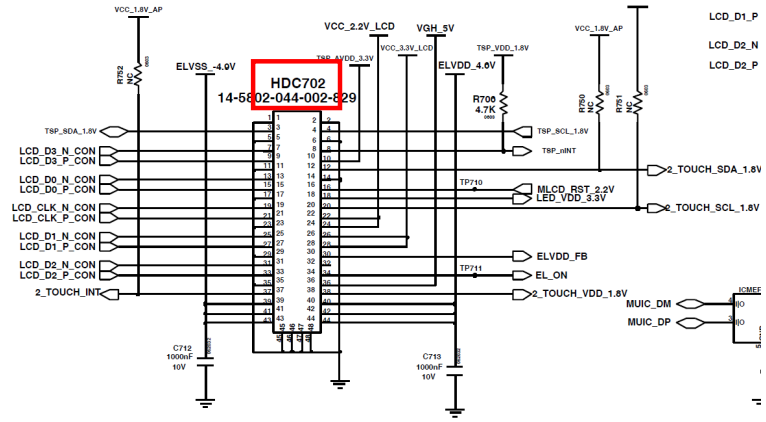
)MMON_FILTER
(Near I/F CON.)

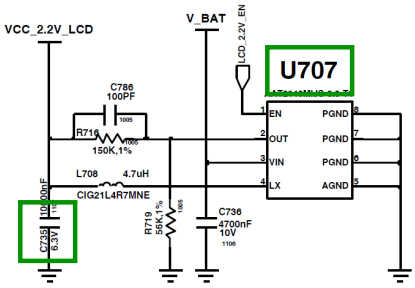
MHL PART

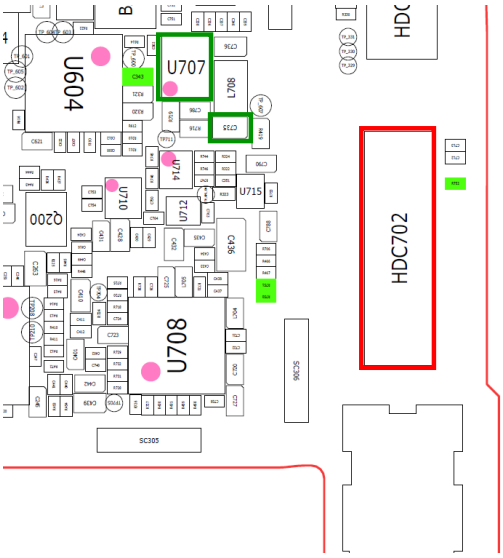


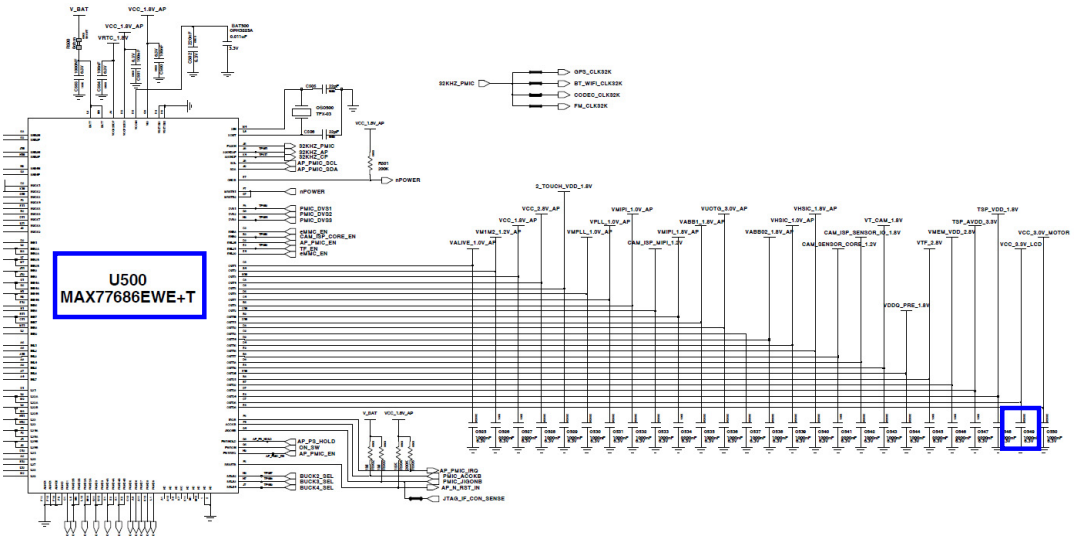
8-3-15. LCD

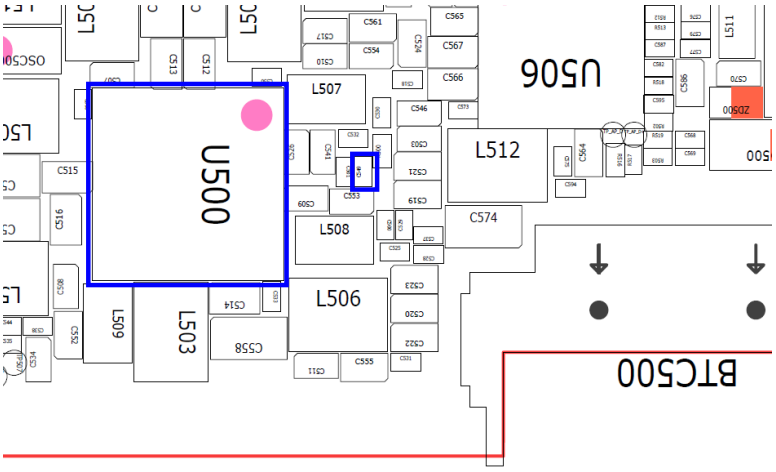


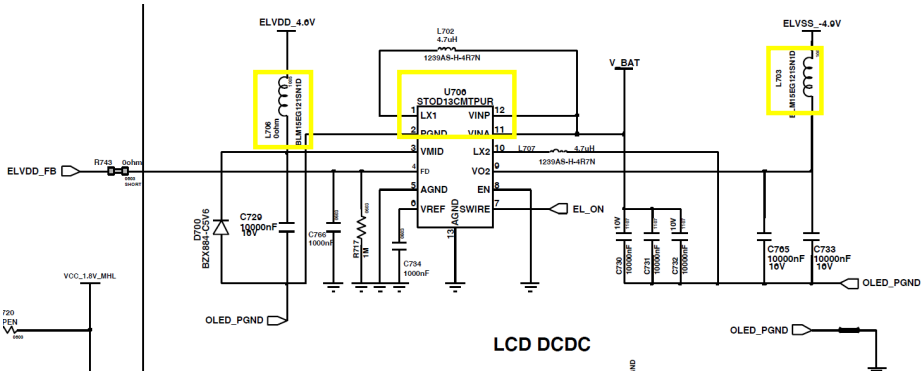


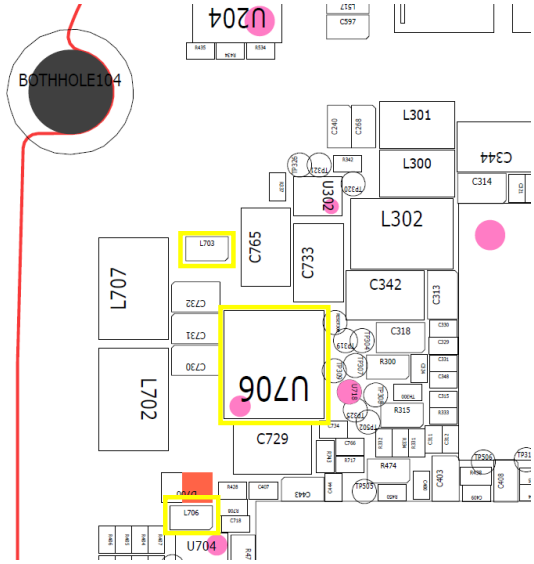




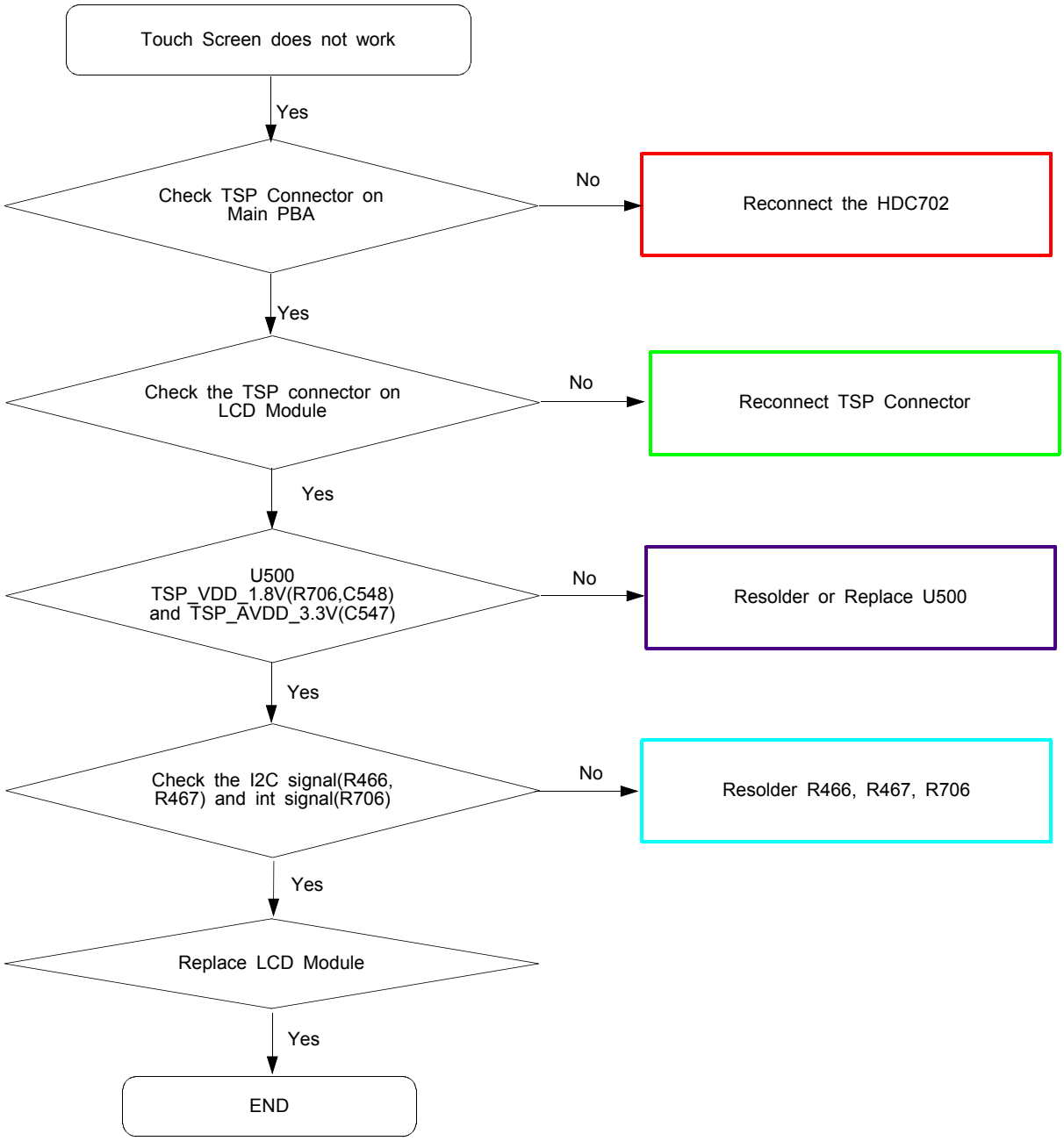


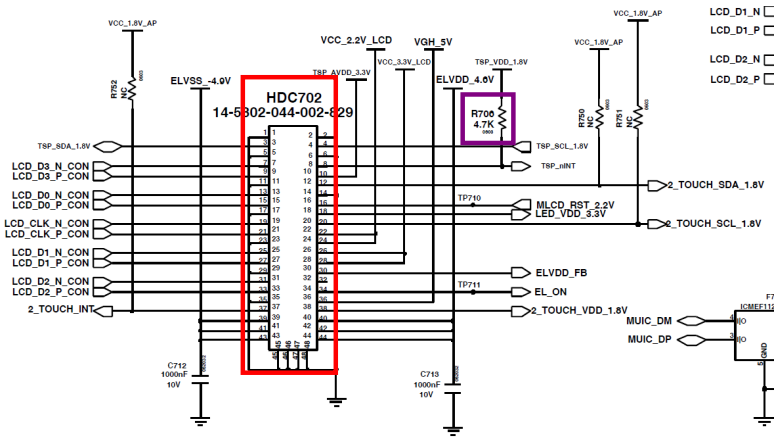


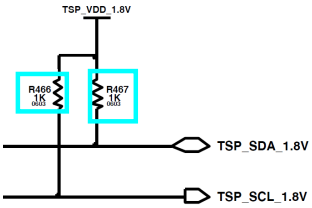


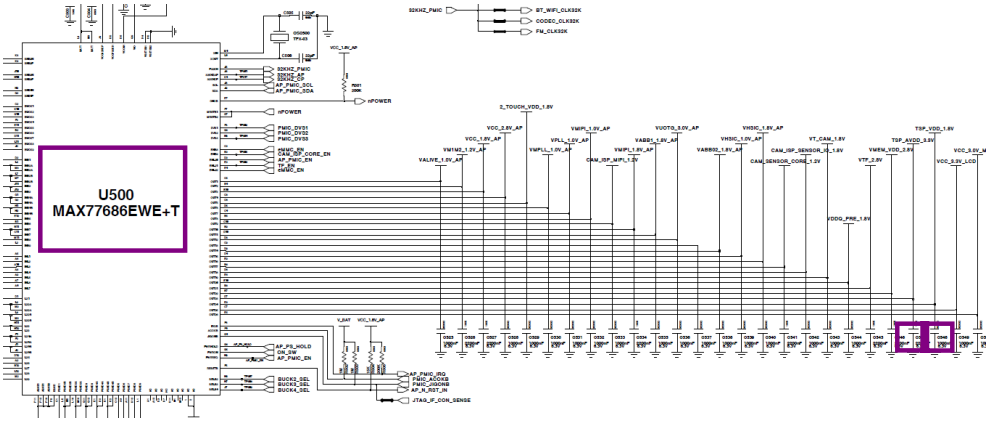


8-3-16. TSP

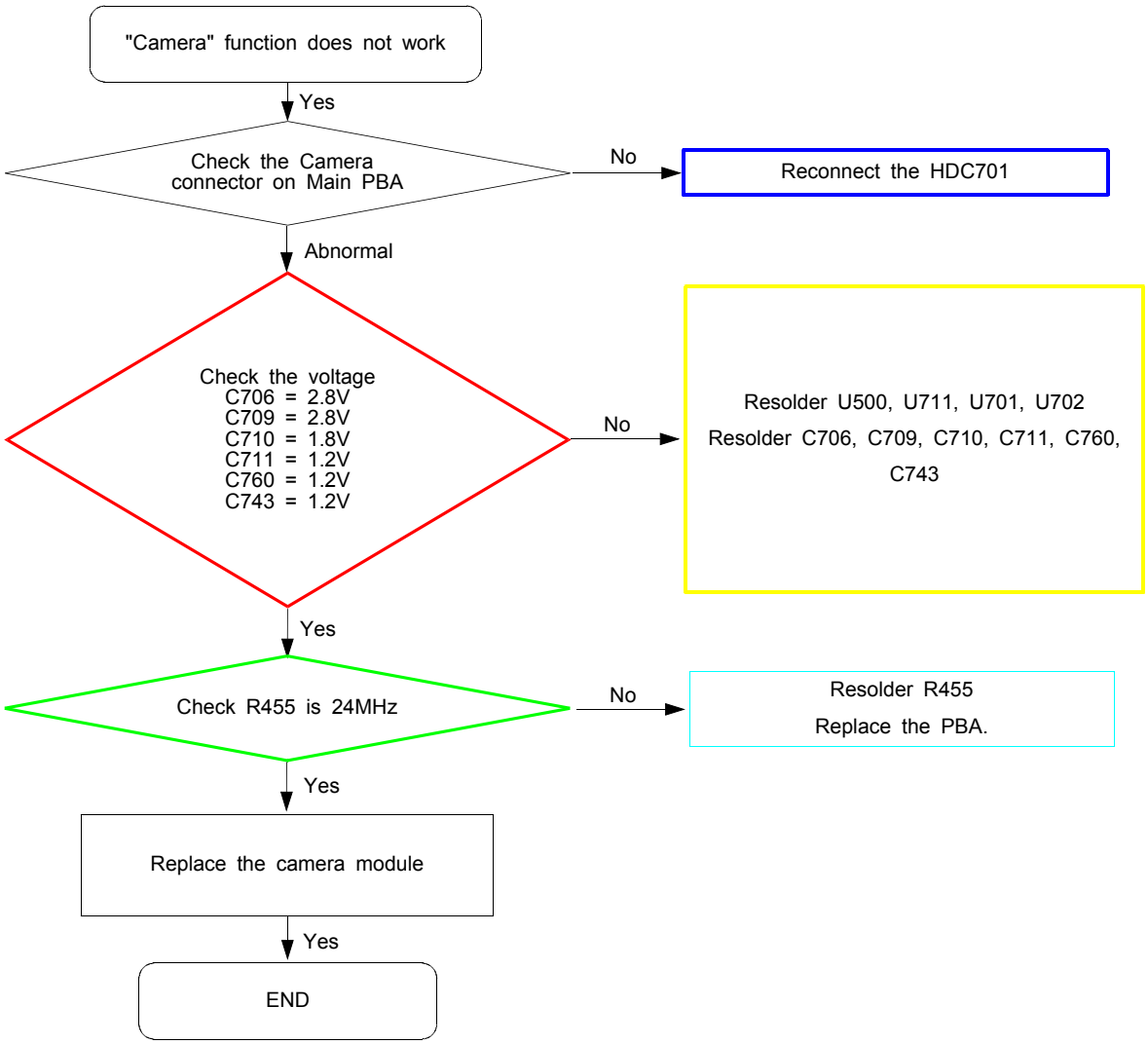


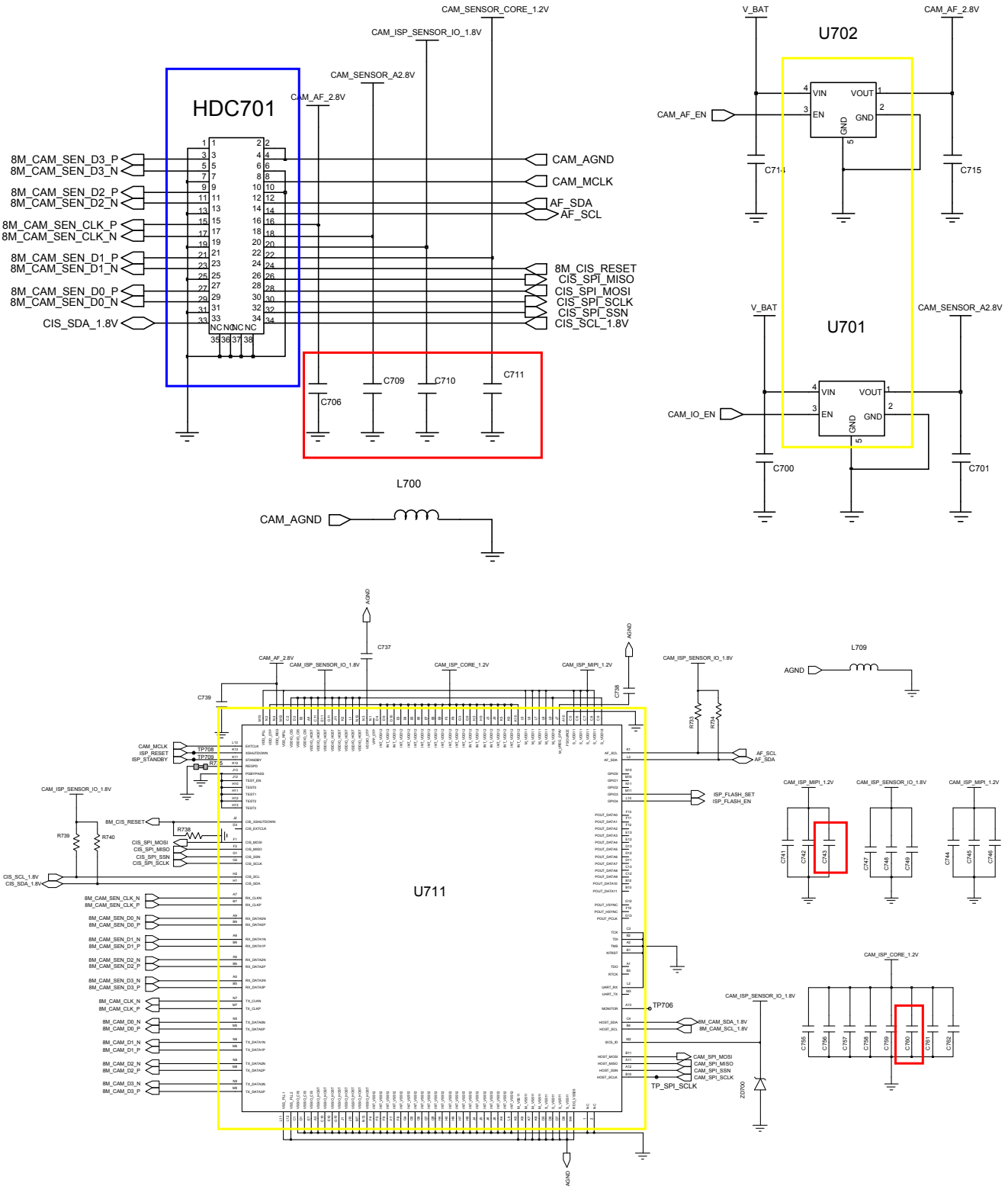


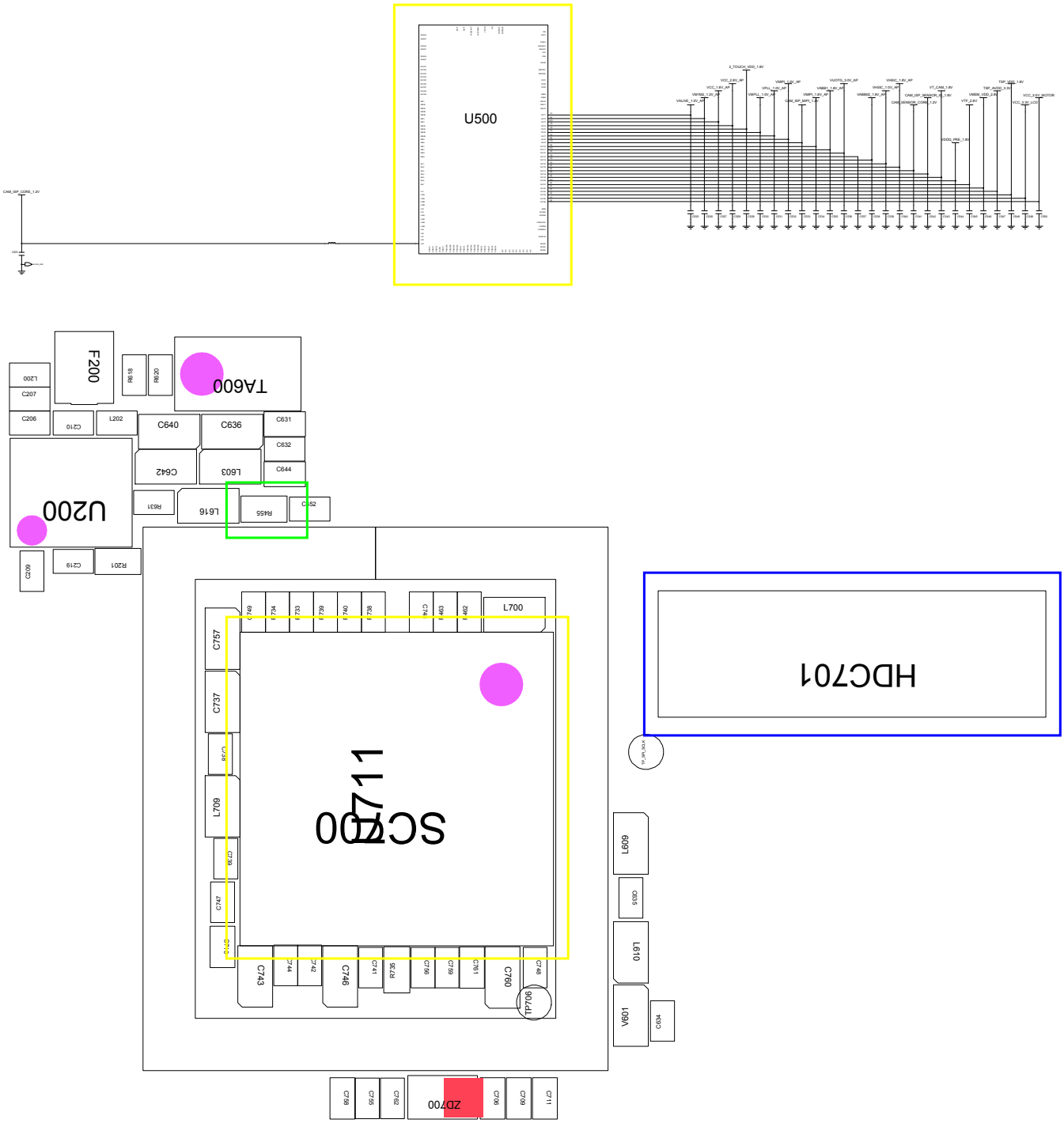


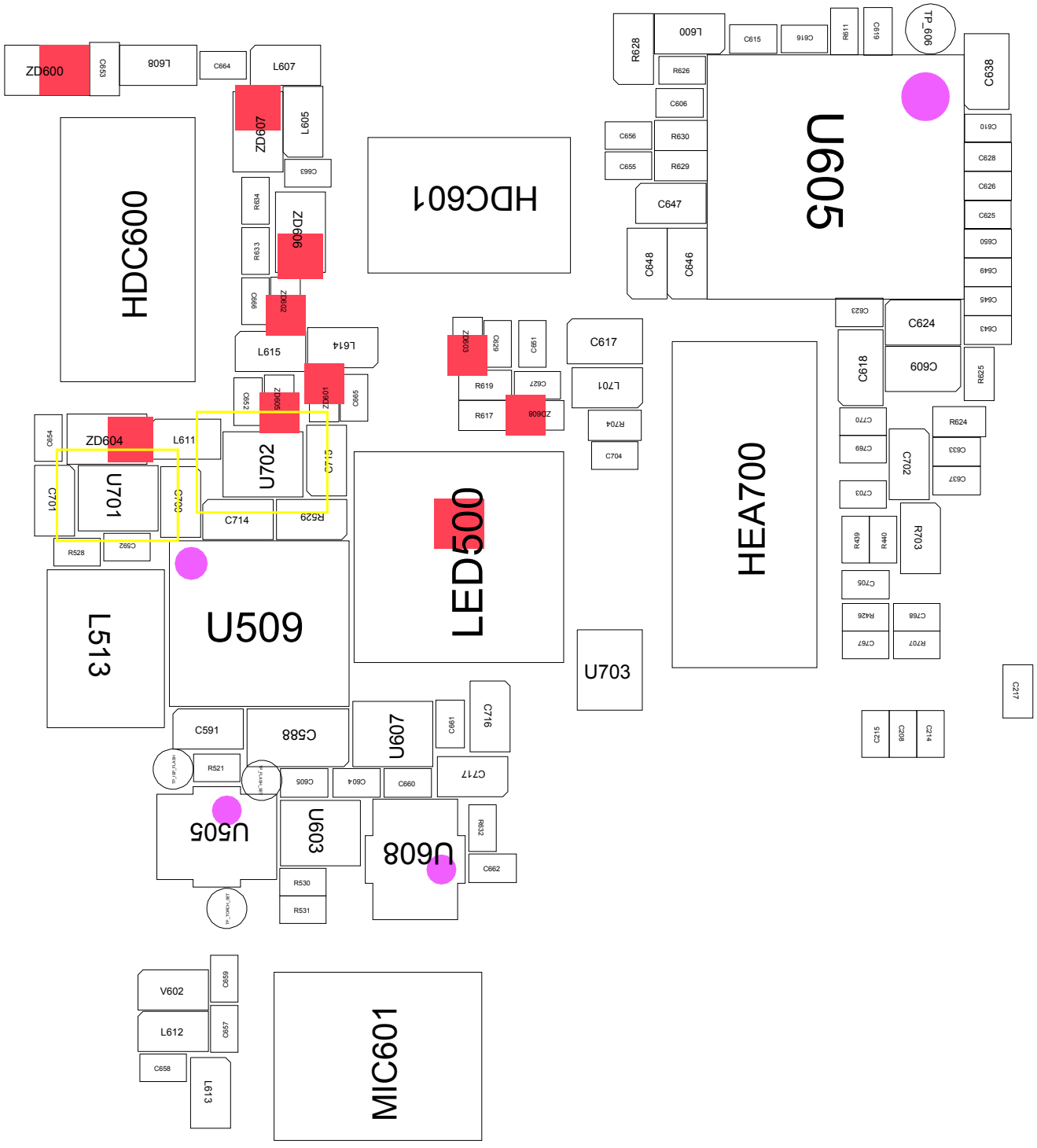


8-3-17. 8M CAM

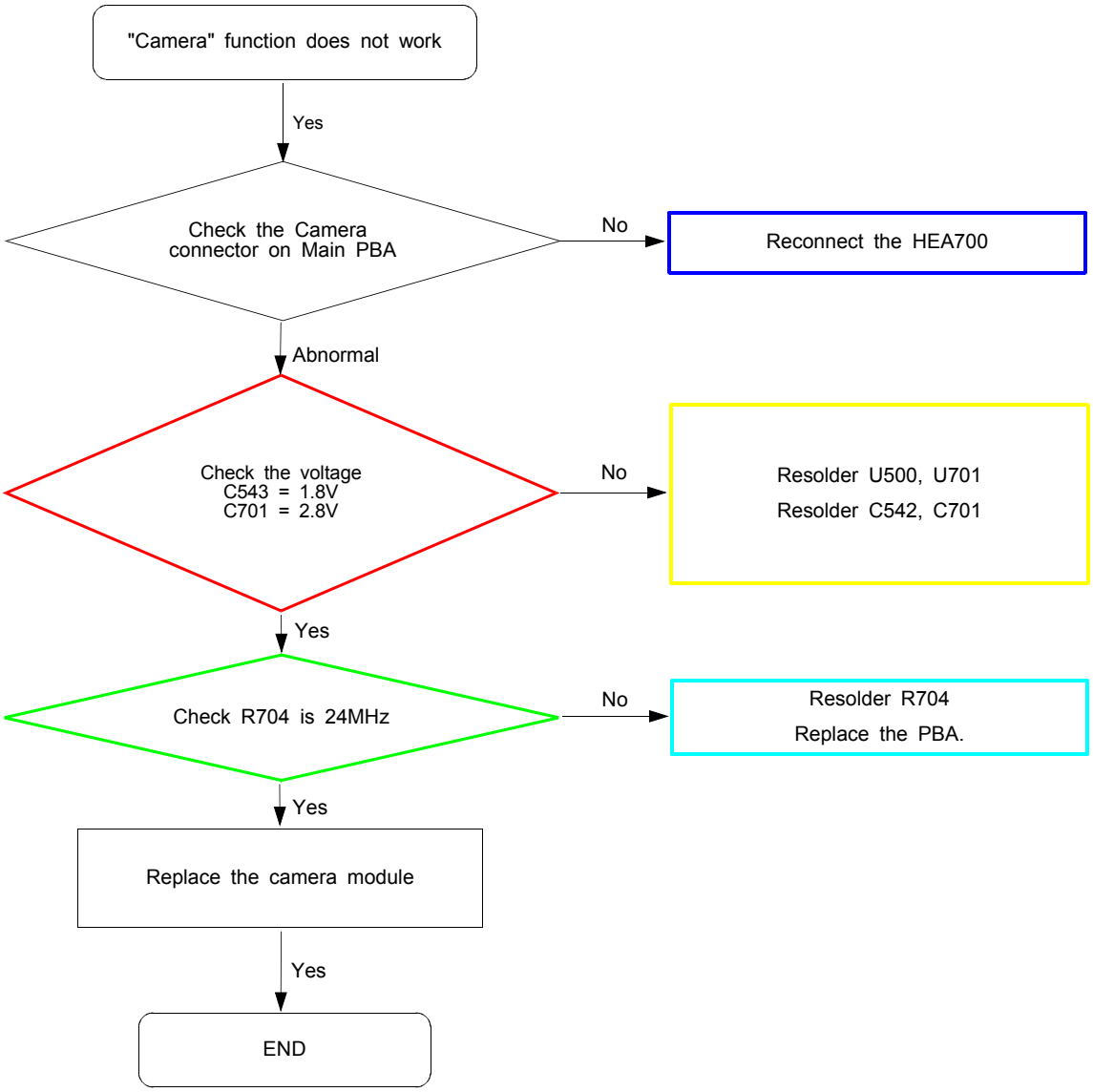


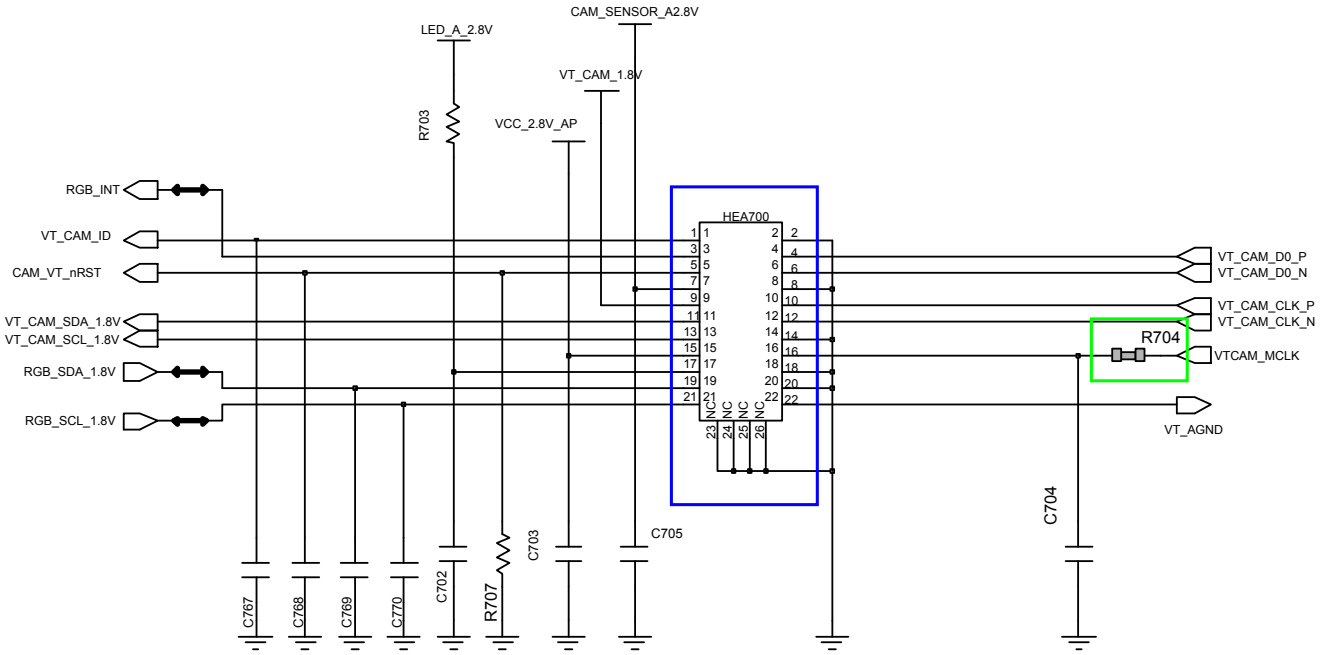


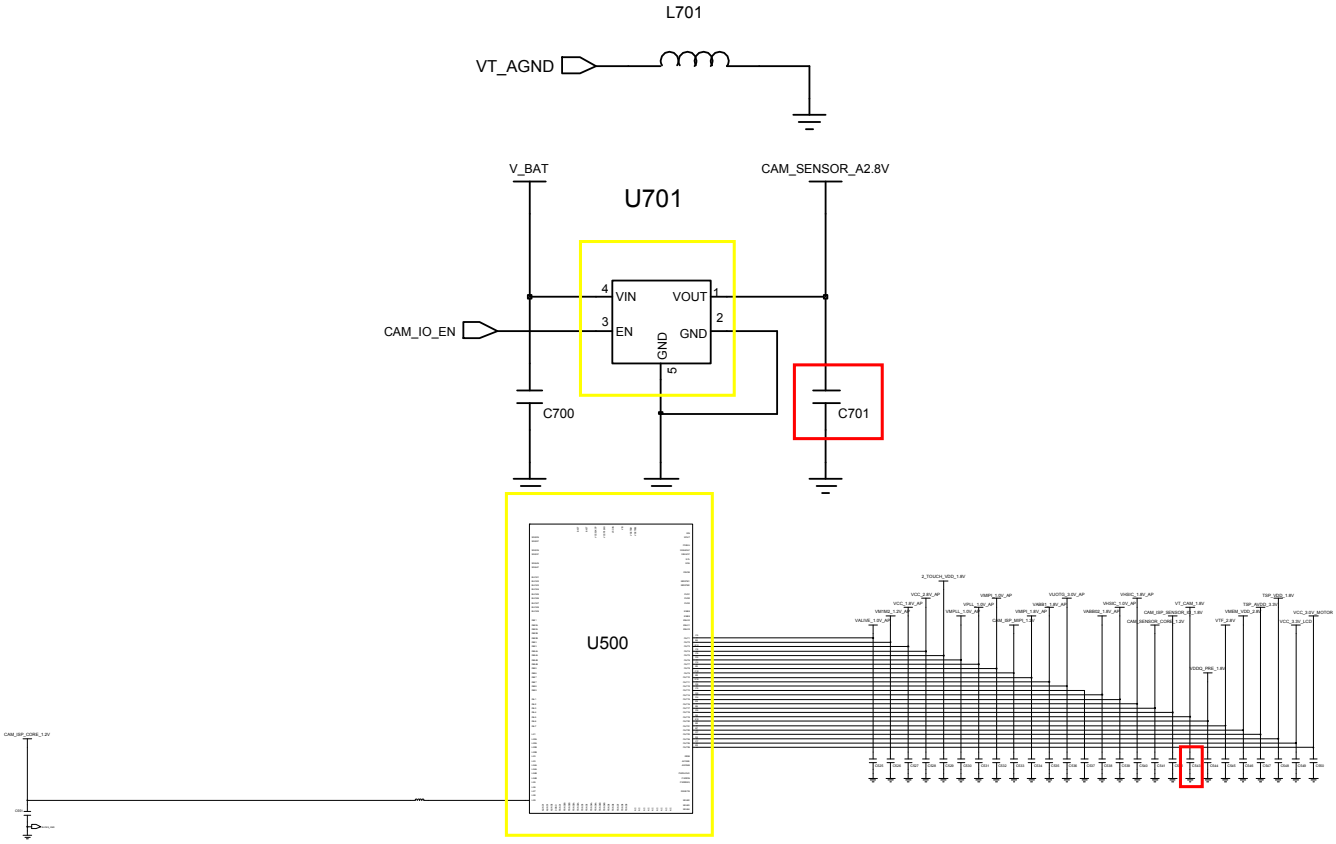


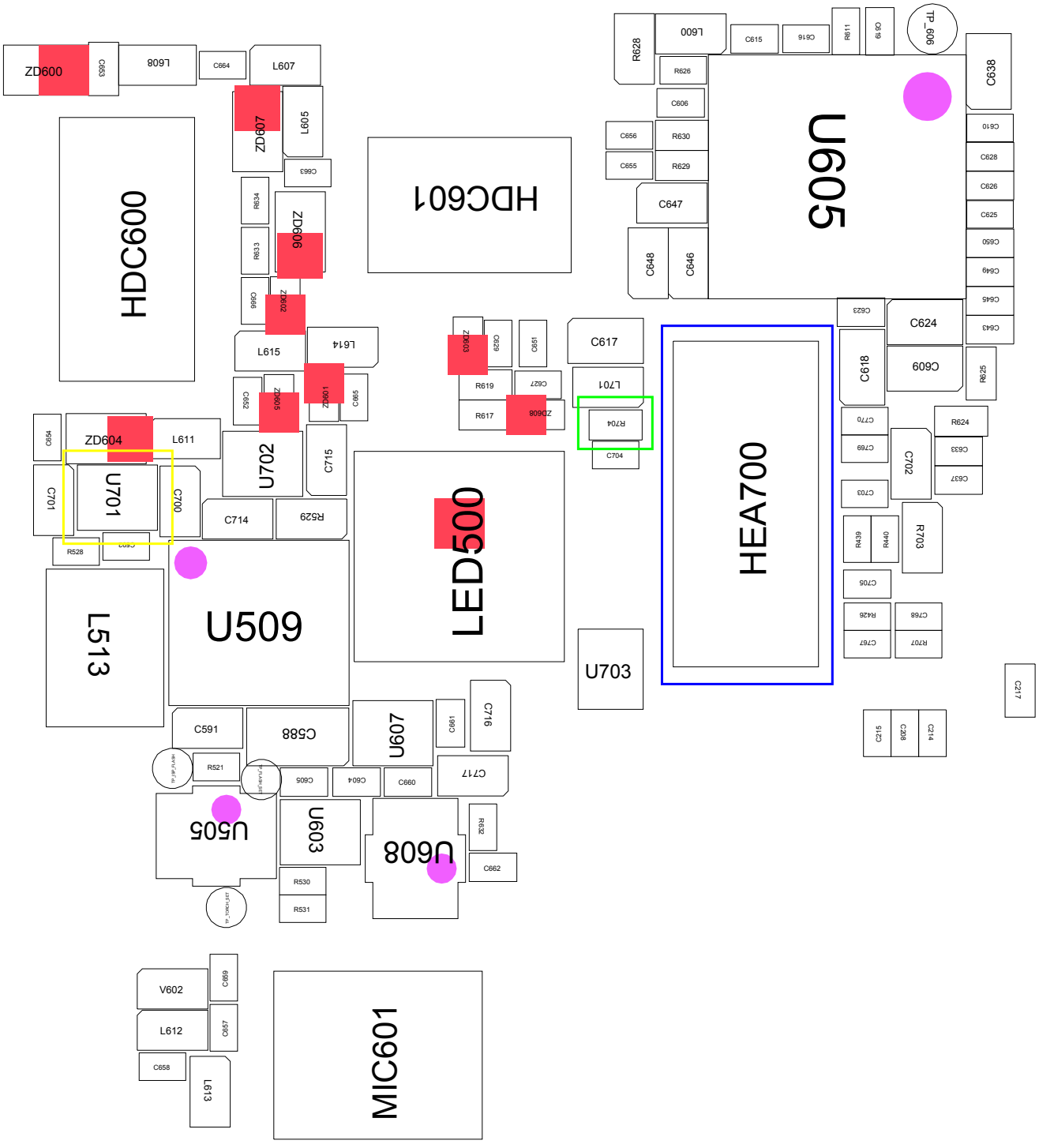


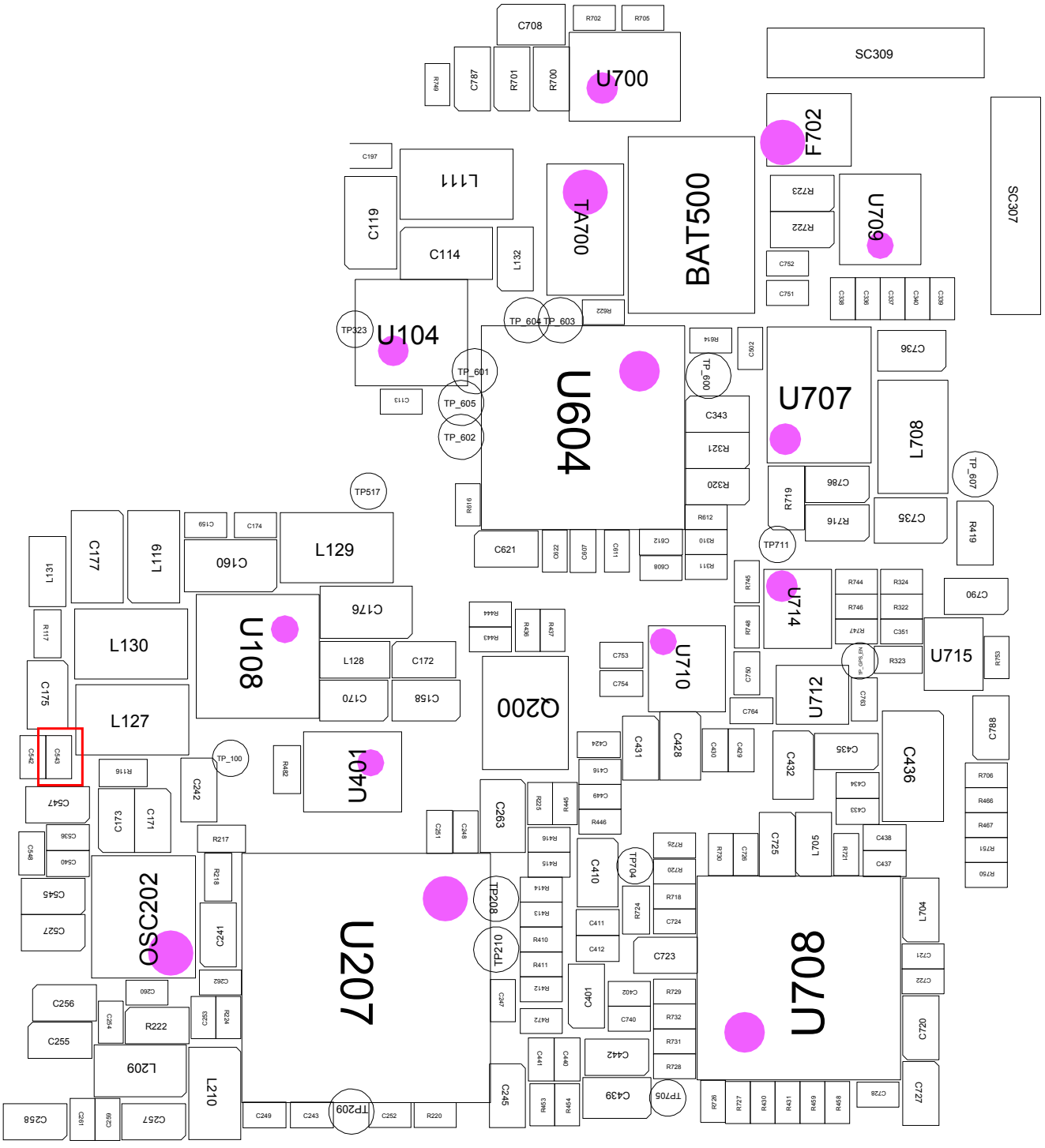
8-3-18. 1.9M CAM



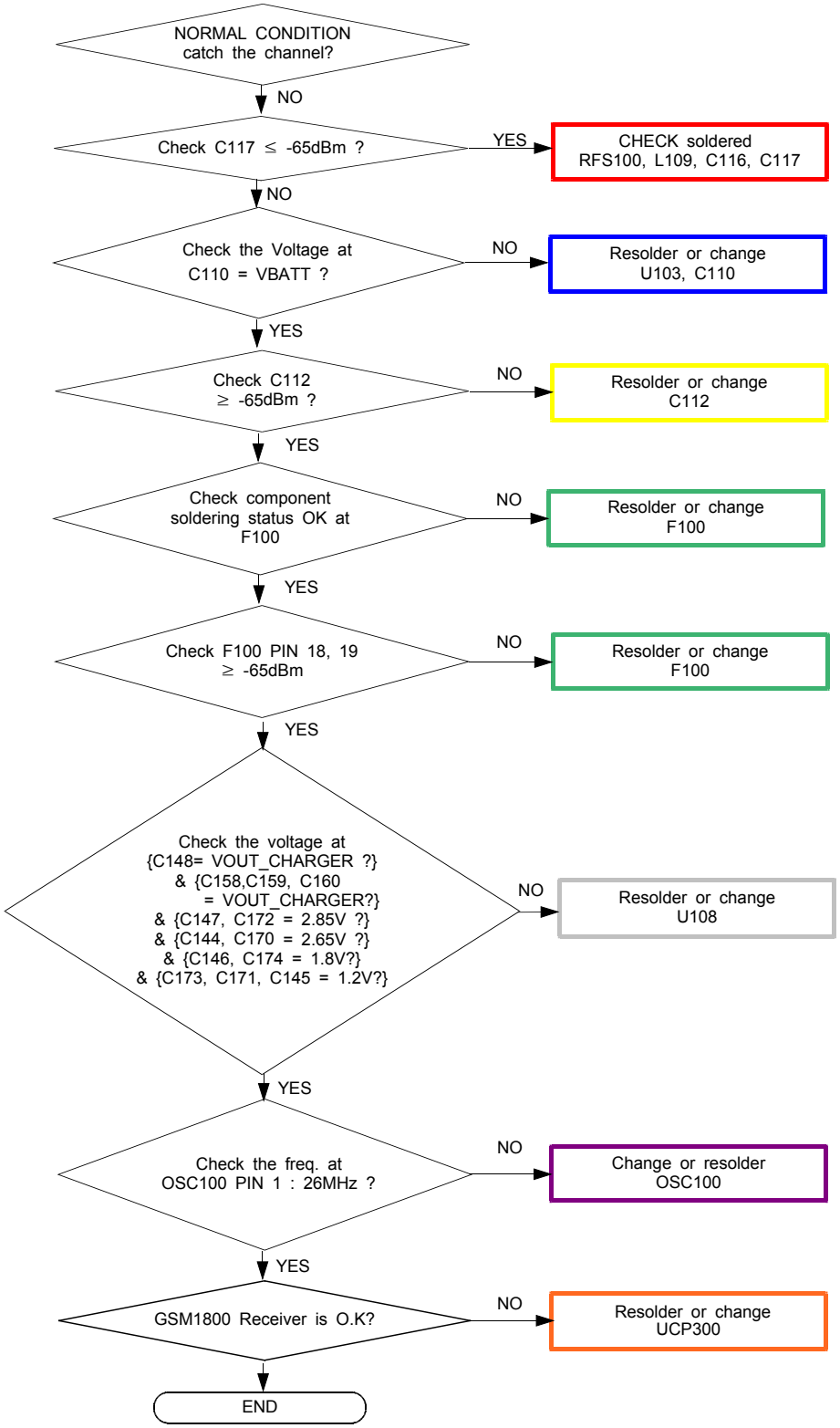


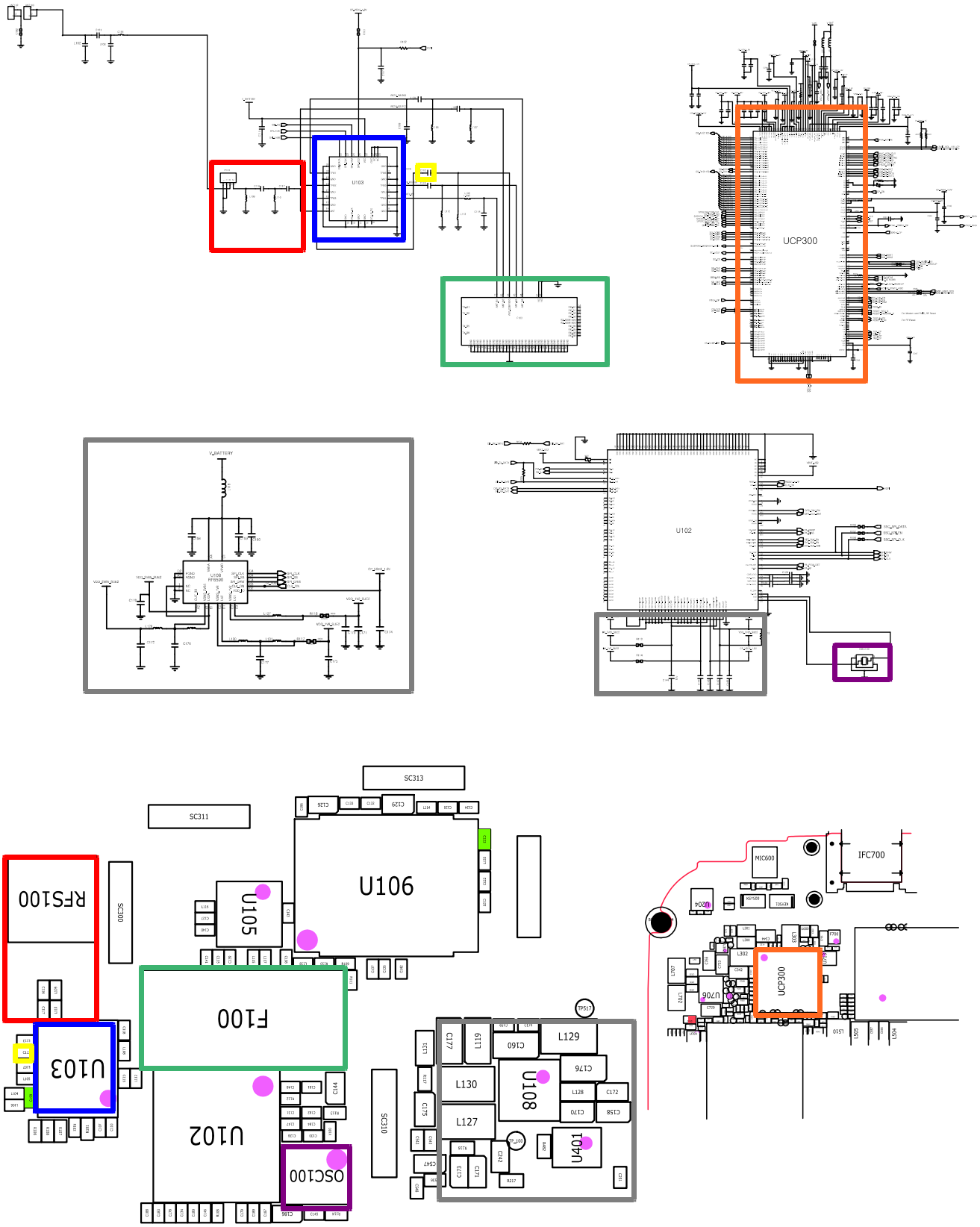




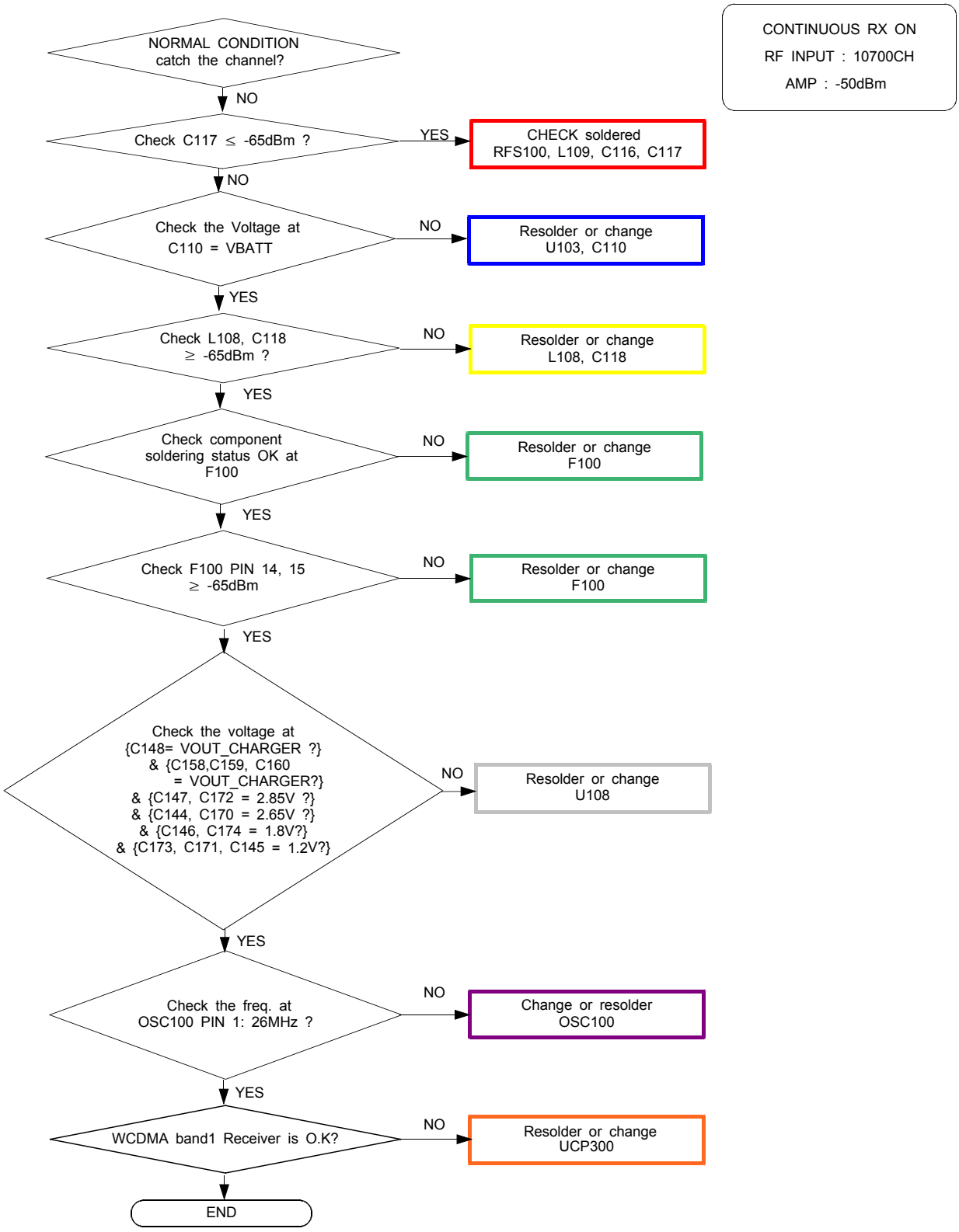


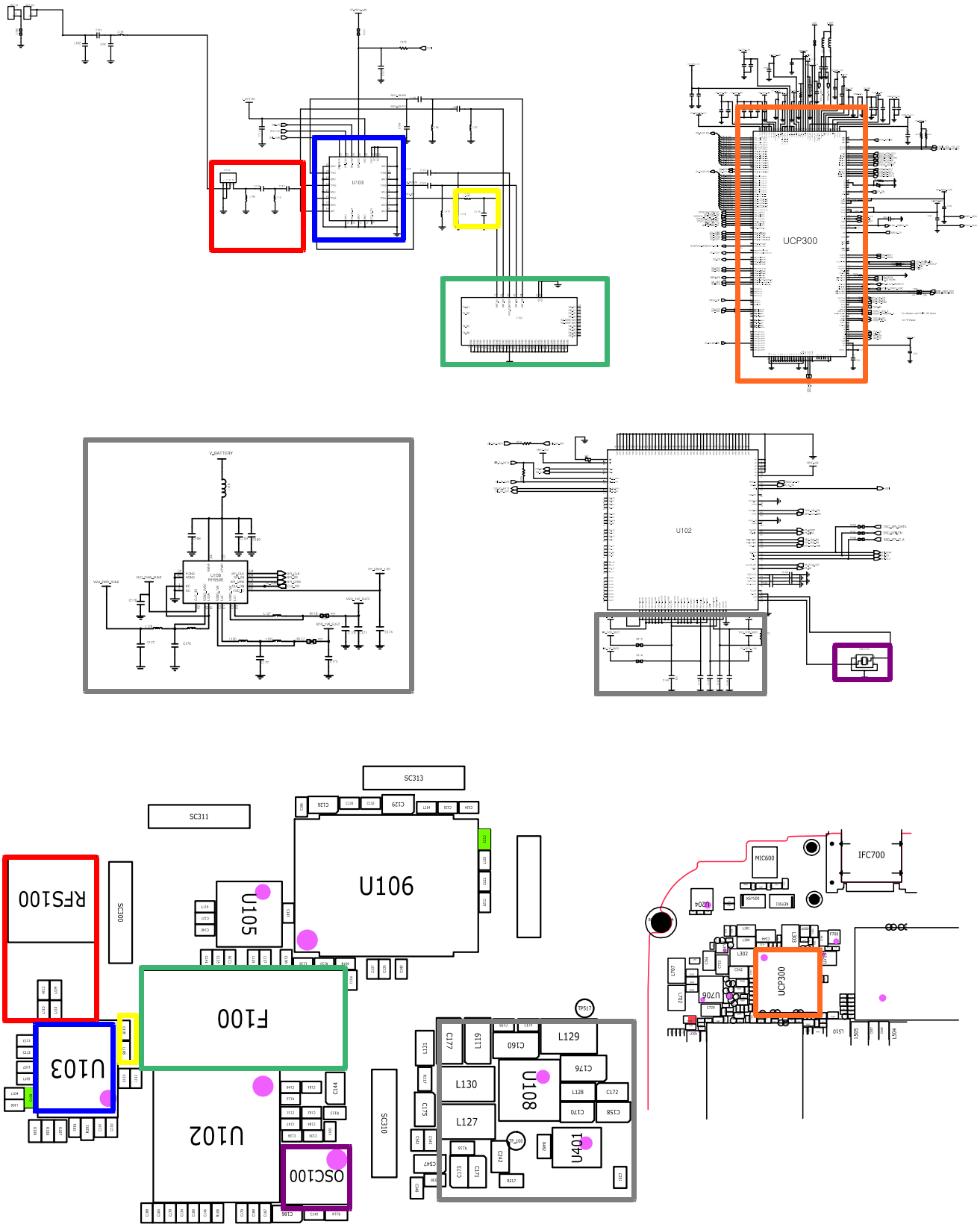
8-3-19. GSM1800 RX



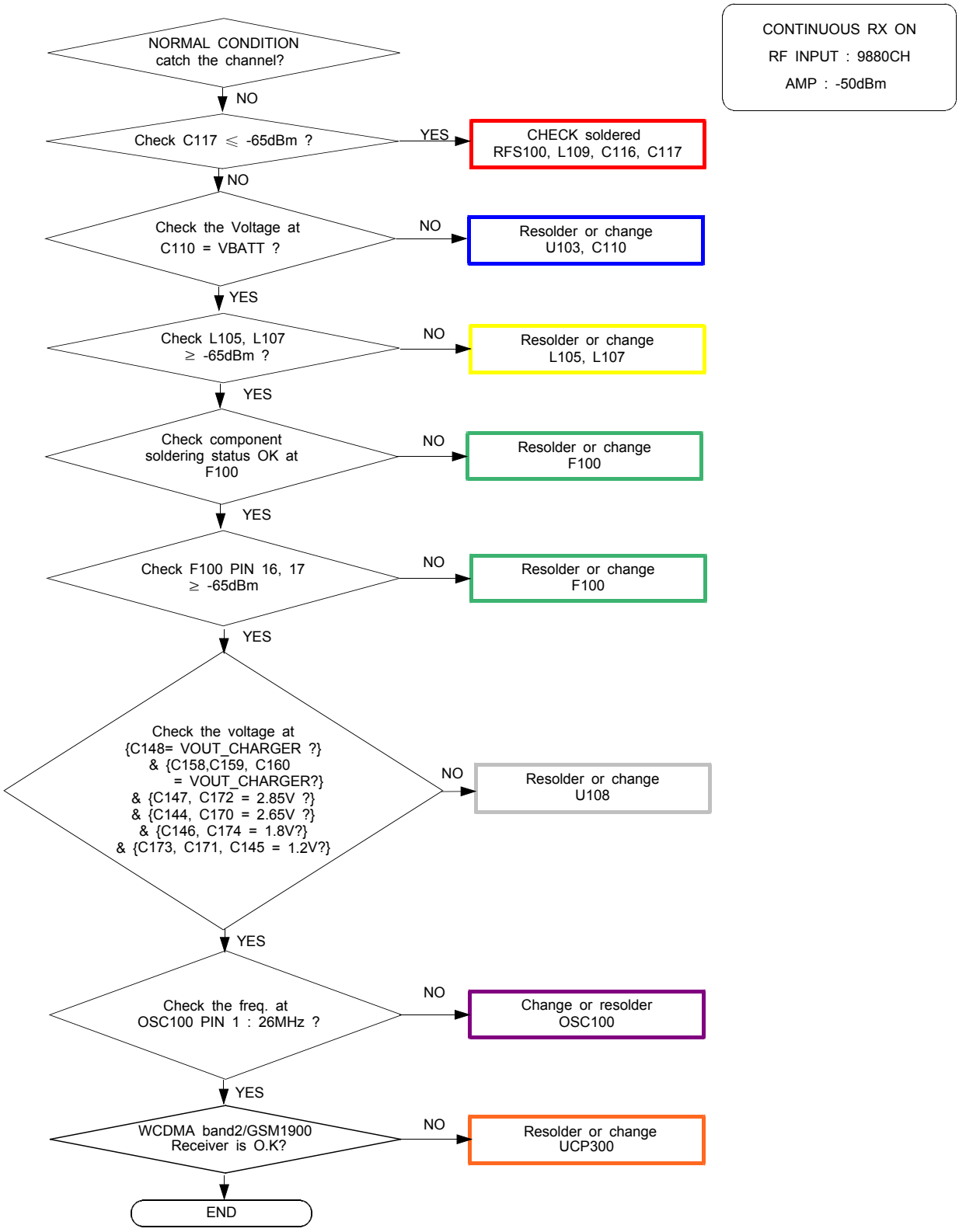


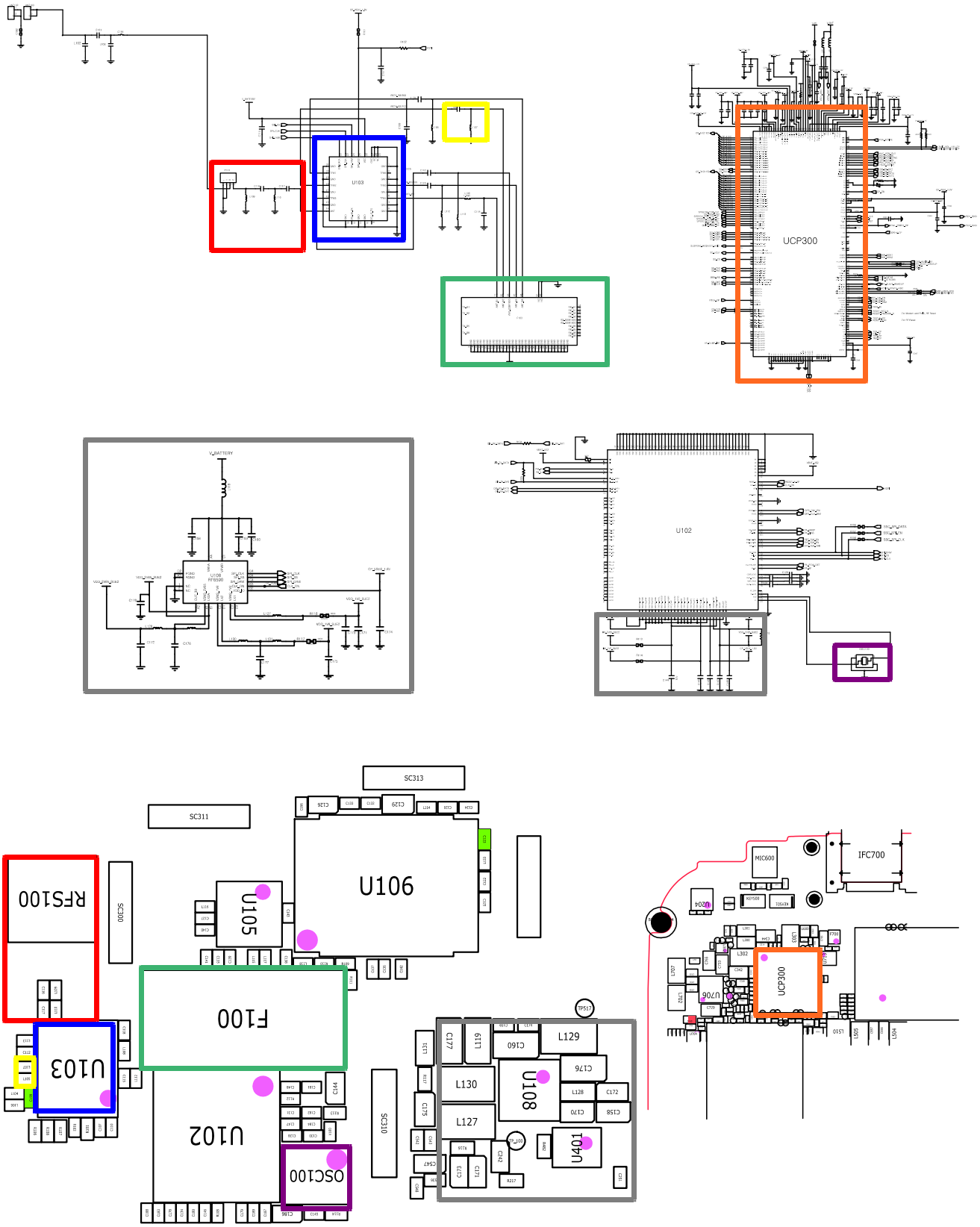
8-3-20. WCDMA Band1 RX



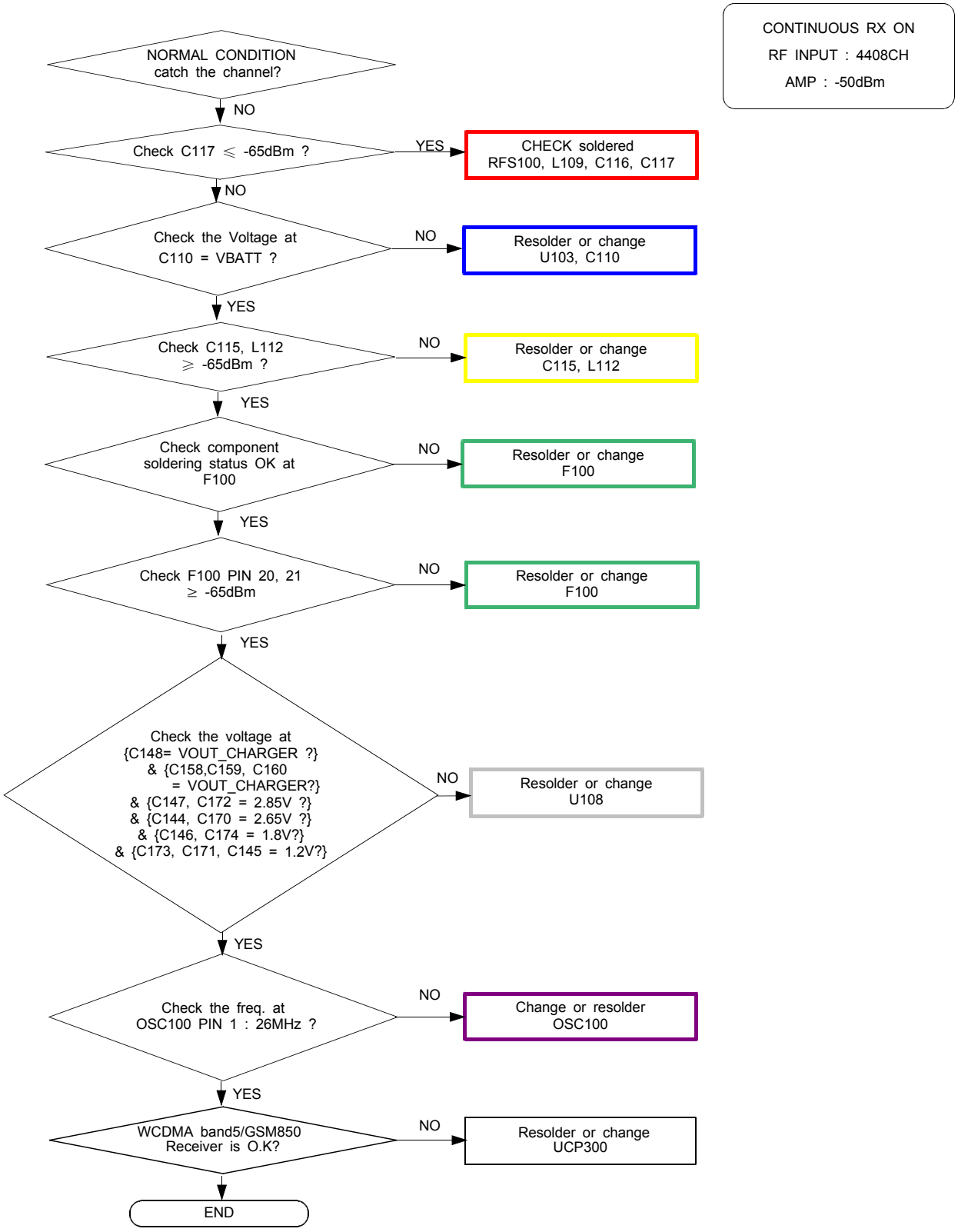


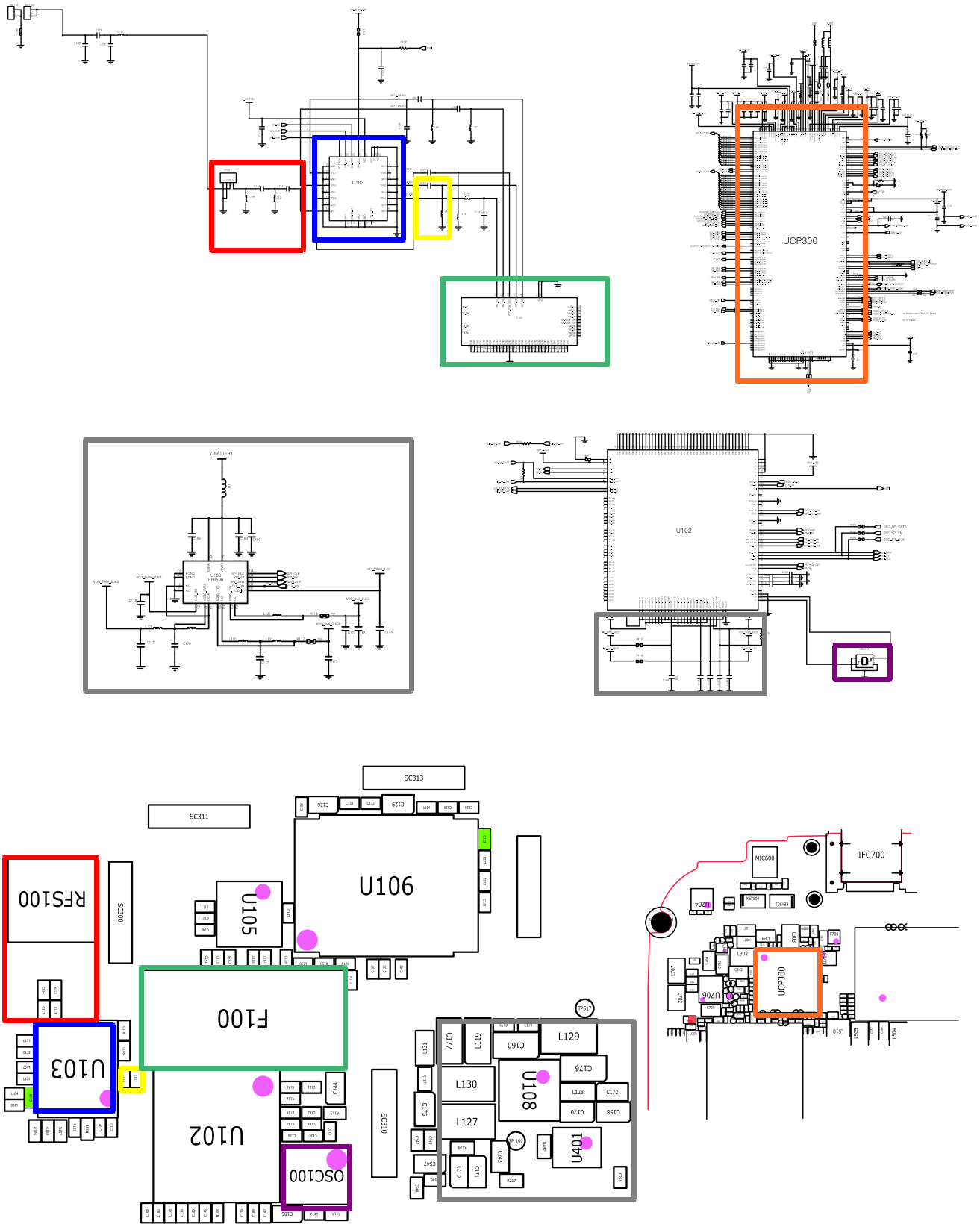
8-3-21. WCDMA Band2 / GSM1900 RX



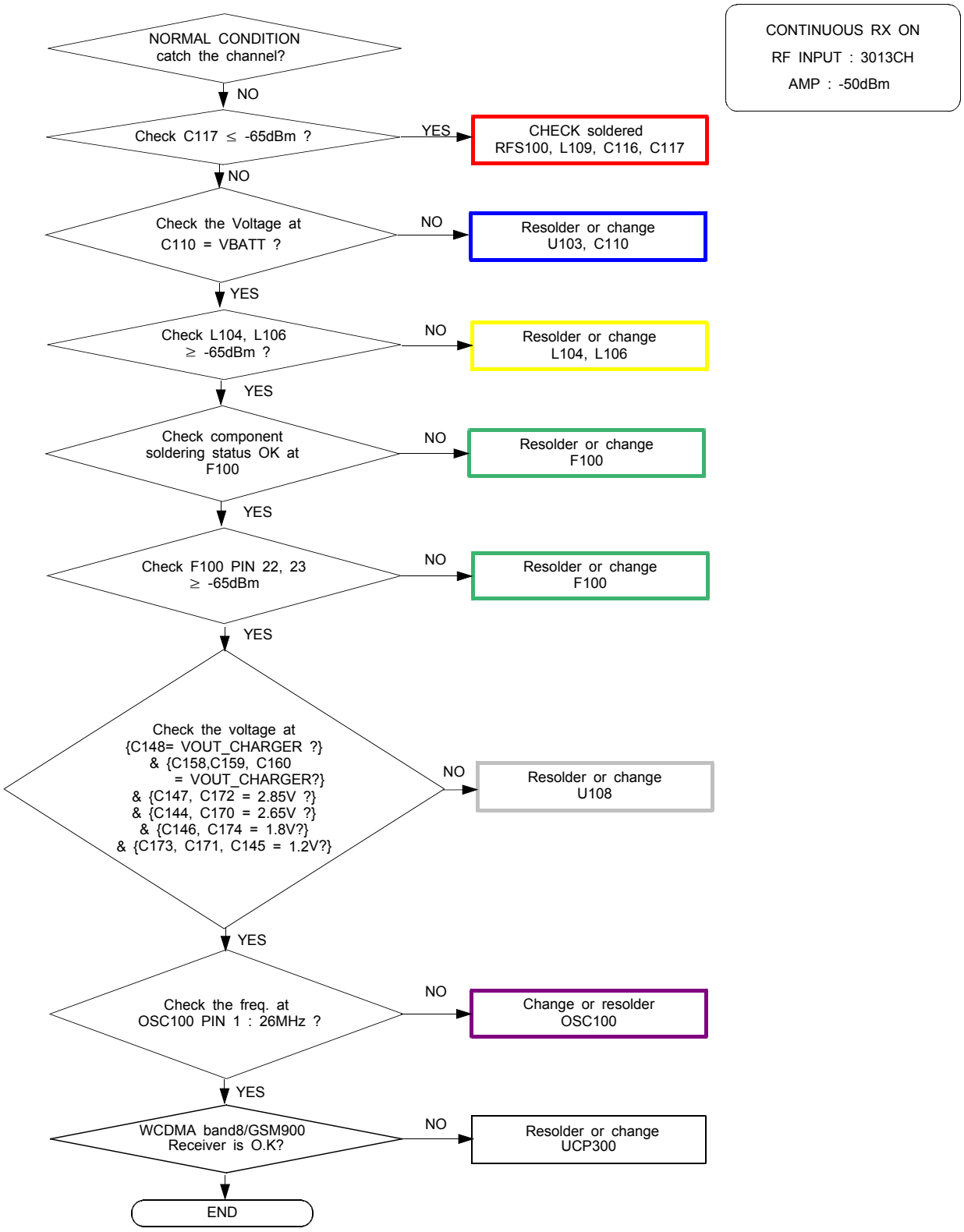


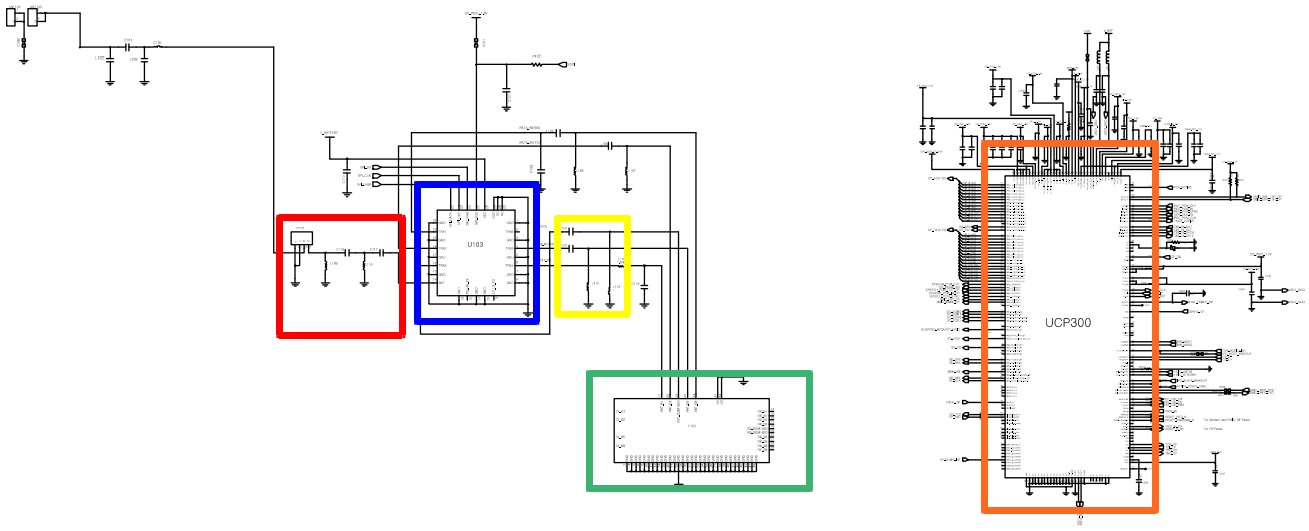
8-3-22. WCDMA Band5 / GSM 850 RX

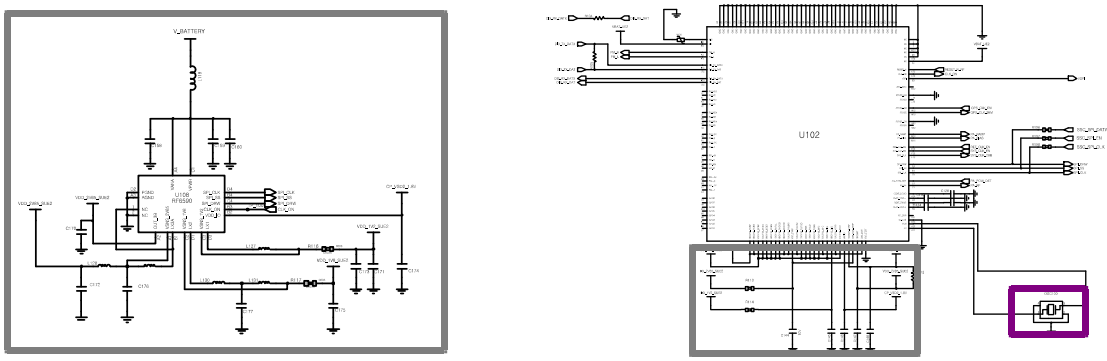


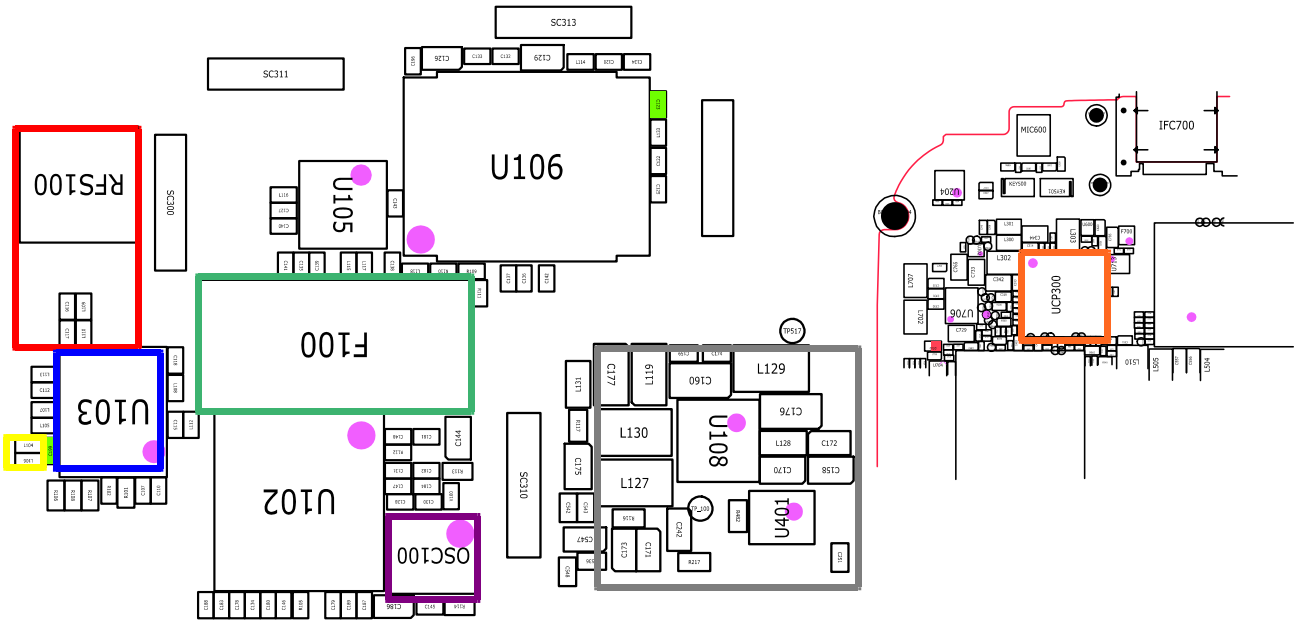


8-3-23. WCDMA Band8 / GSM900 RX



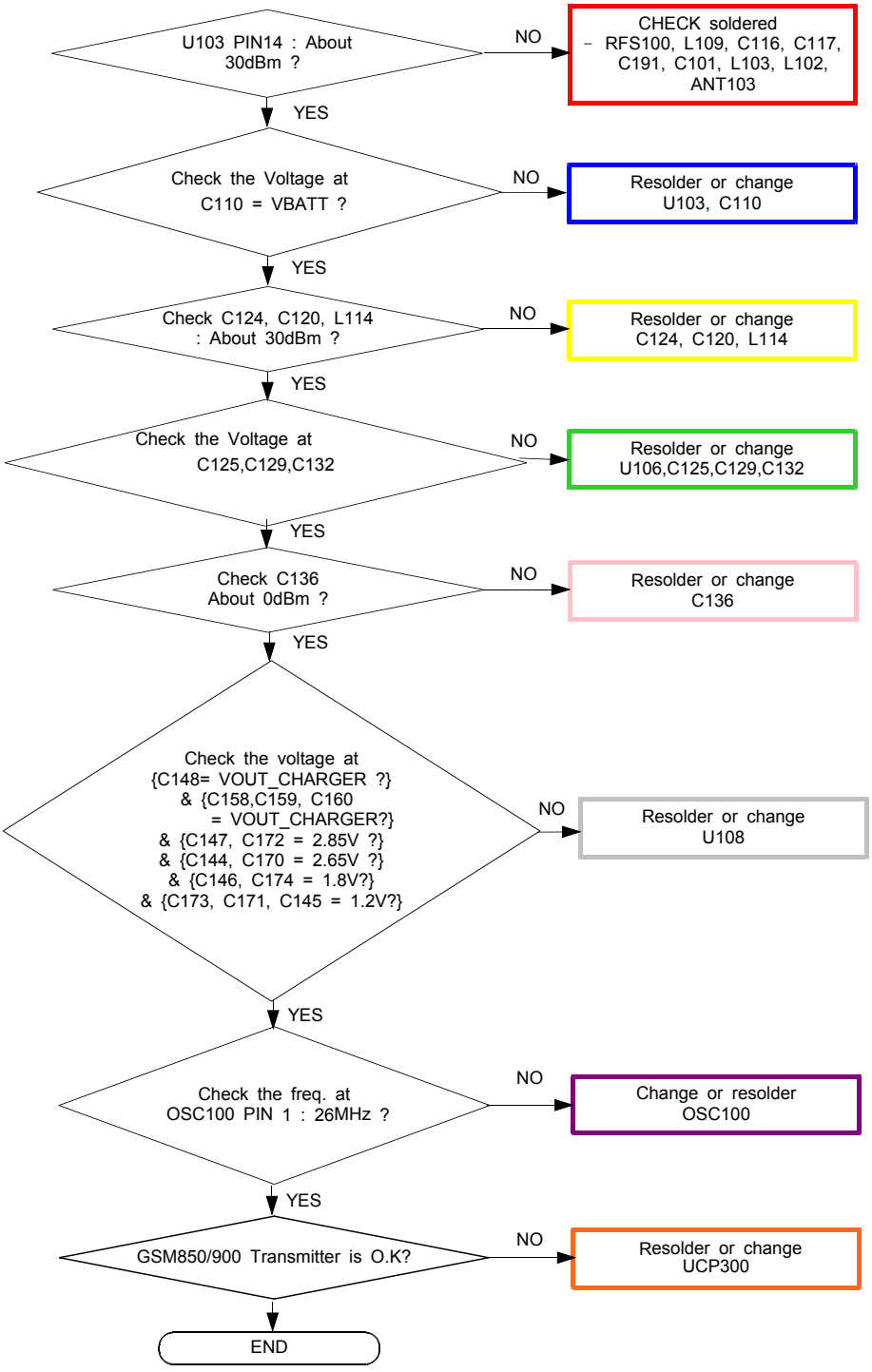


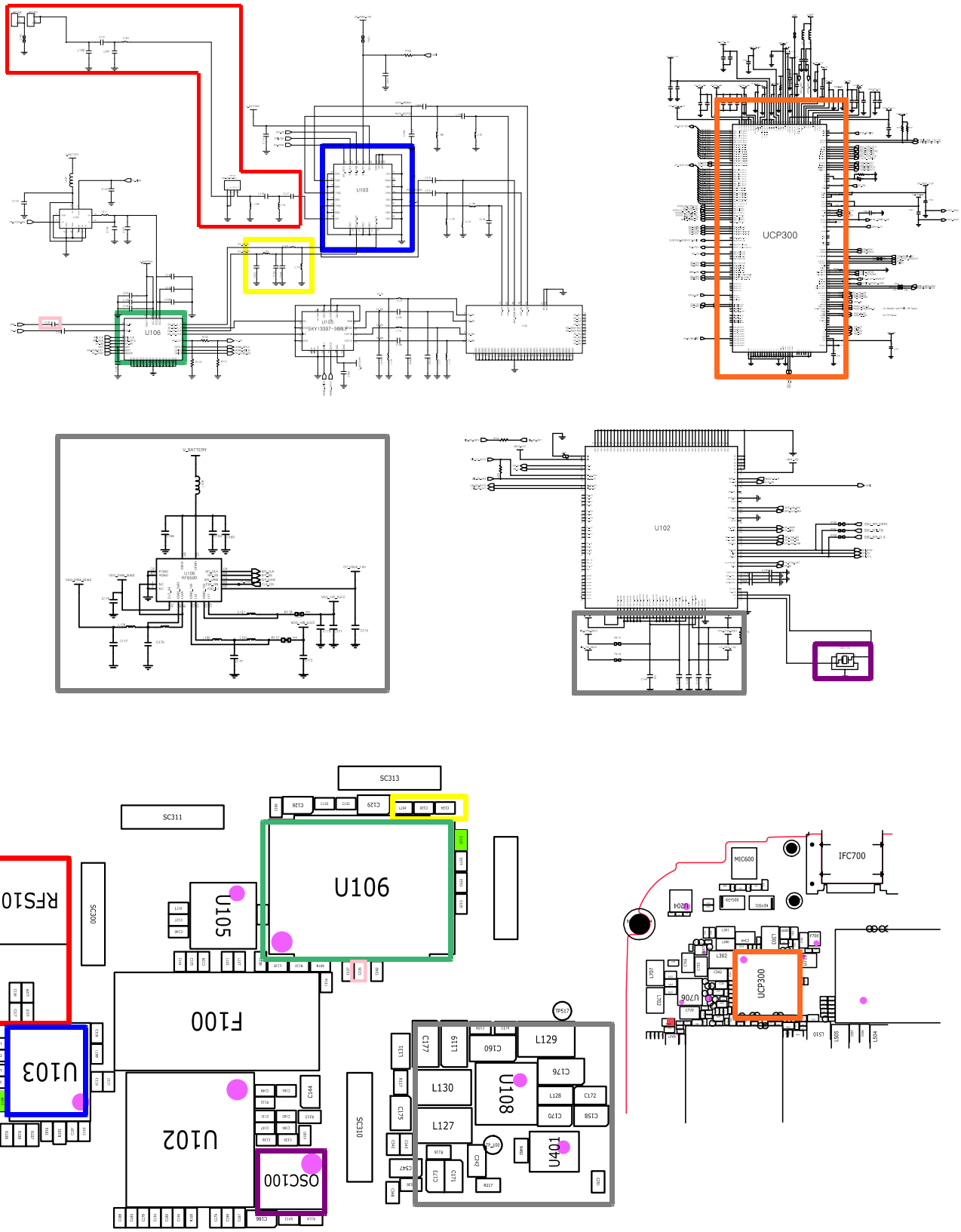




8-3-24. GSM850/GSM900 TX

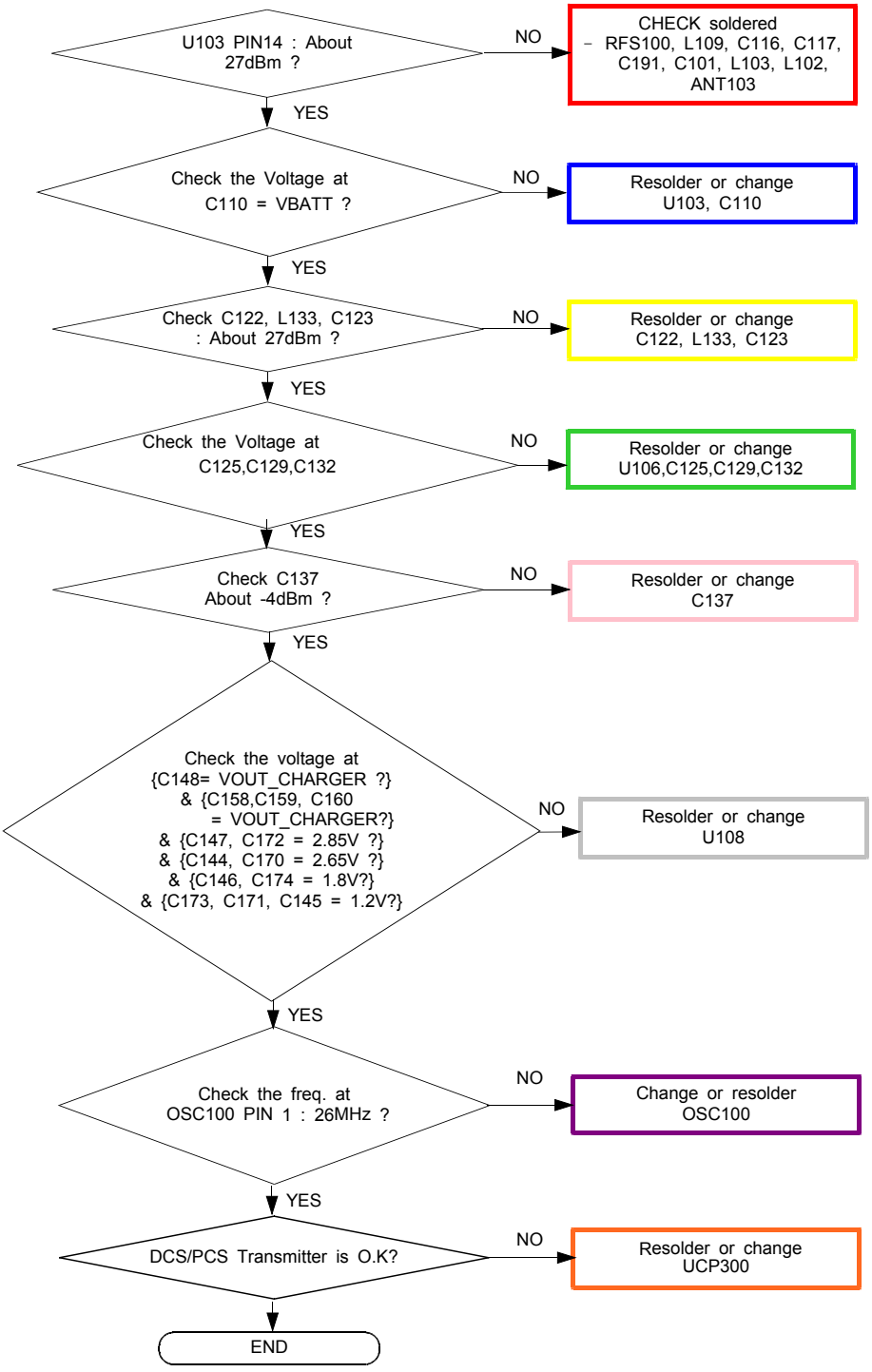
CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

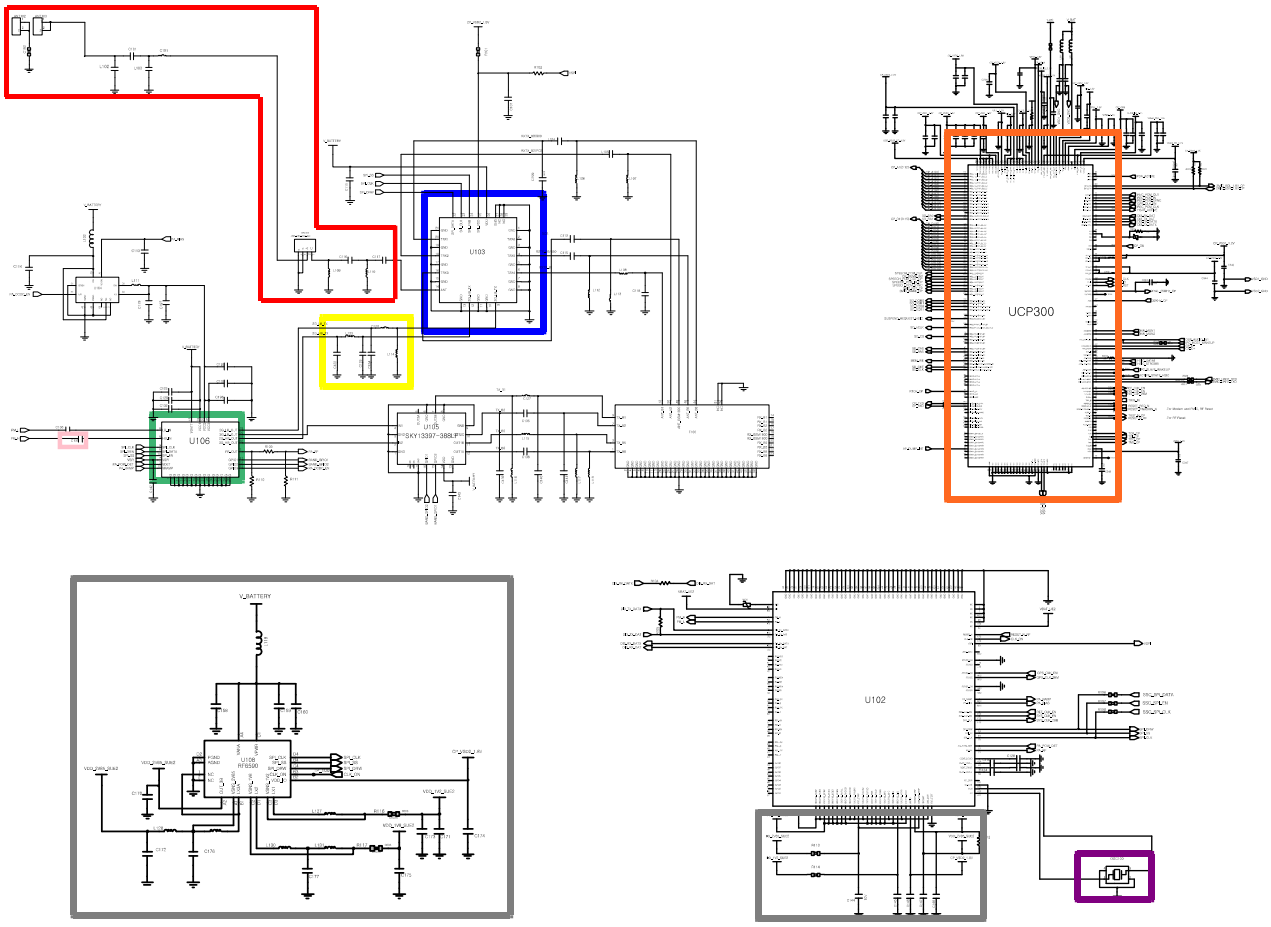


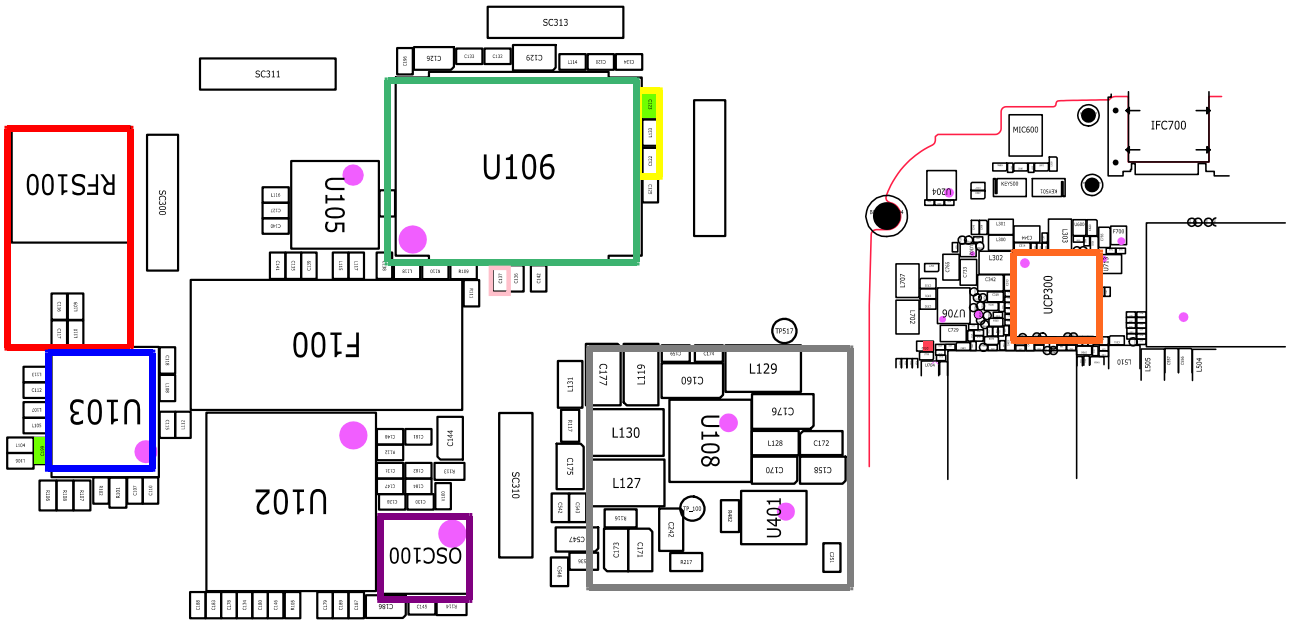


8-3-25. DCS/PCS TX

CONTINUOUS TX ON CONDITION
TX POWER IDX1 APPLIED
DCS CH : 685
PCS CH : 661
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

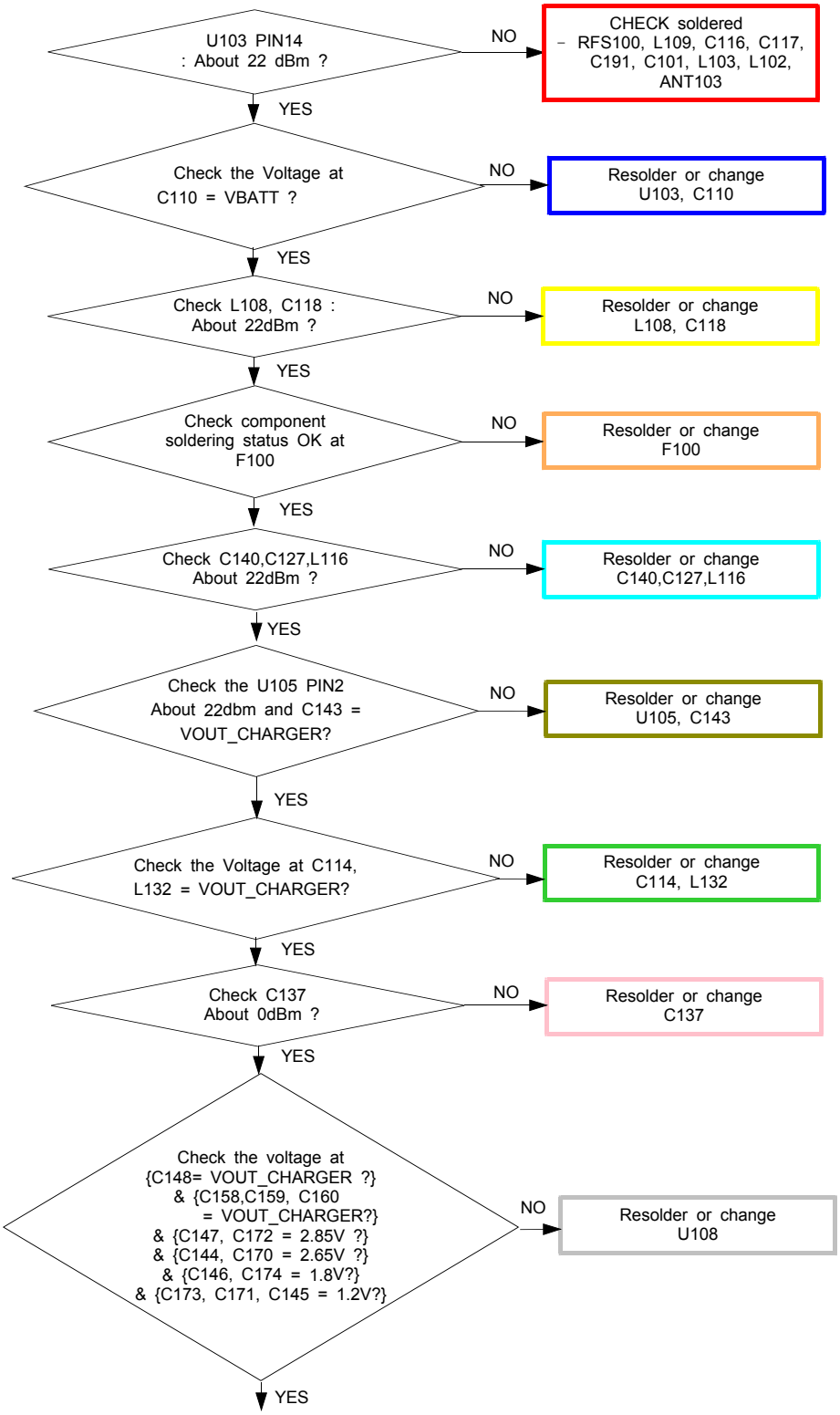


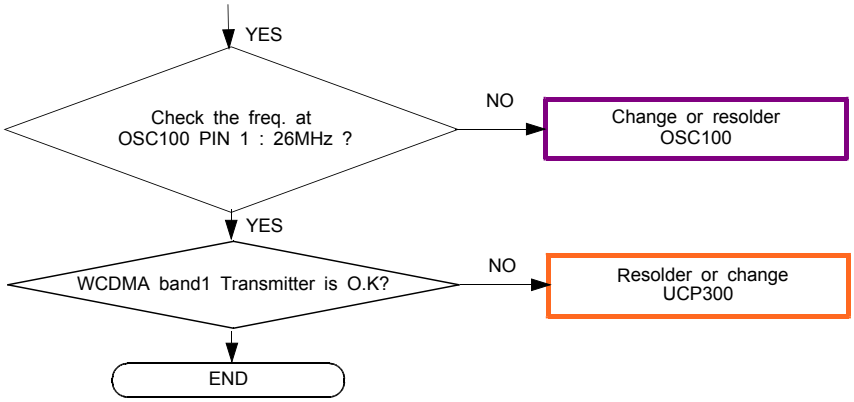


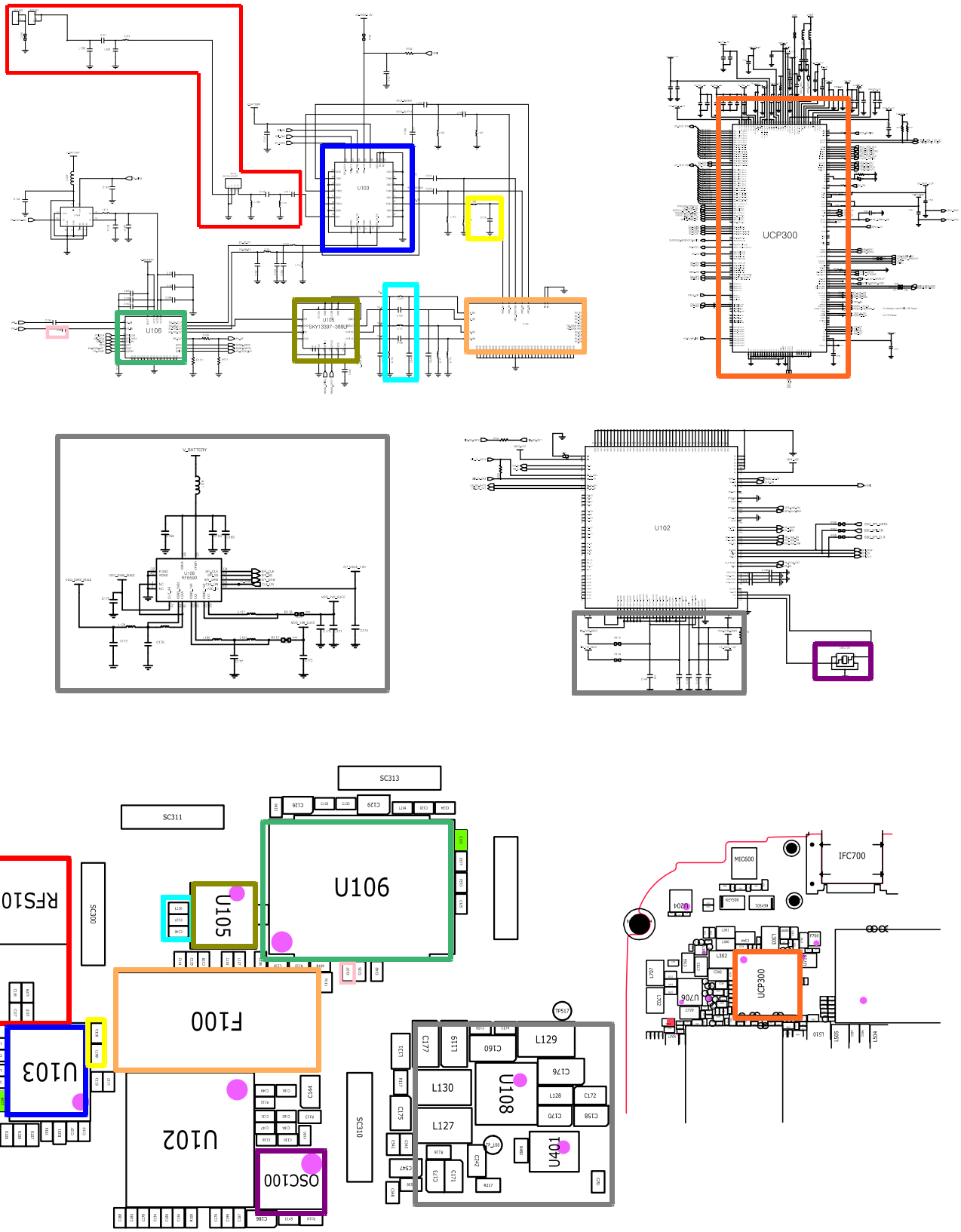


8-3-26. WCDMA BAND1 TX

CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE APPLIED
WCDMA Band1 CH : 20000
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

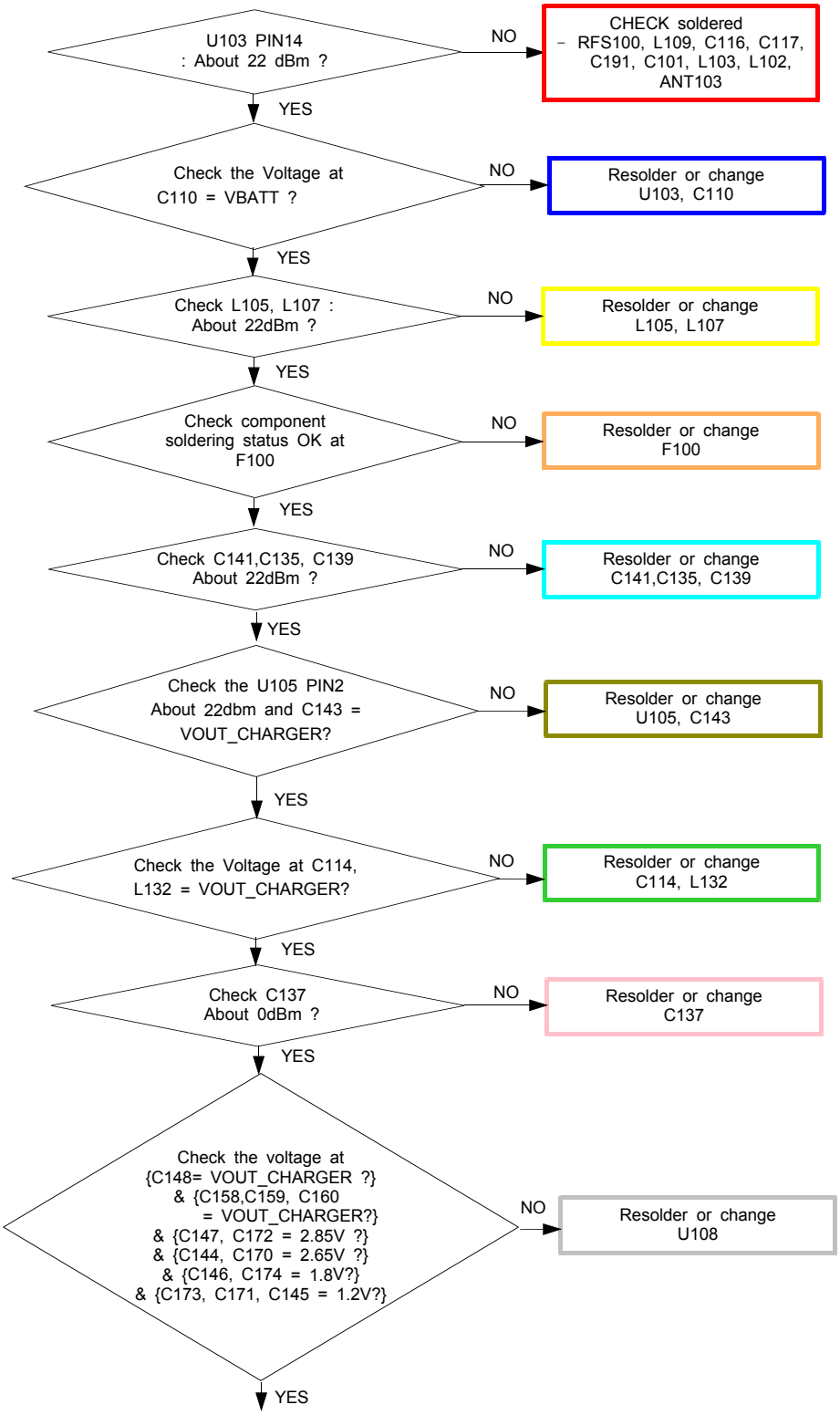


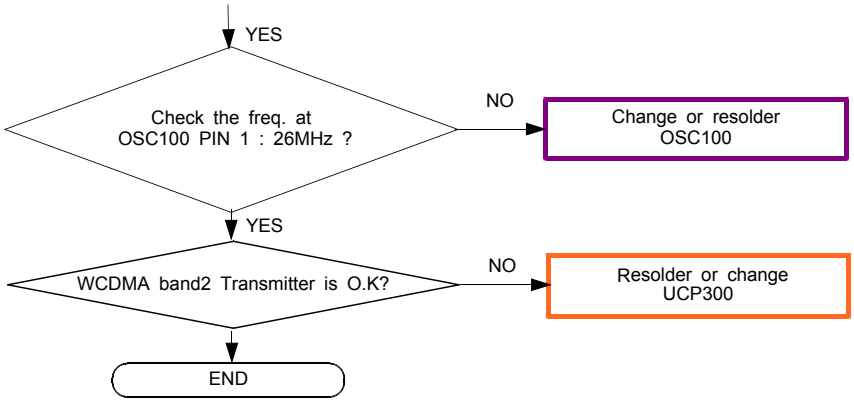


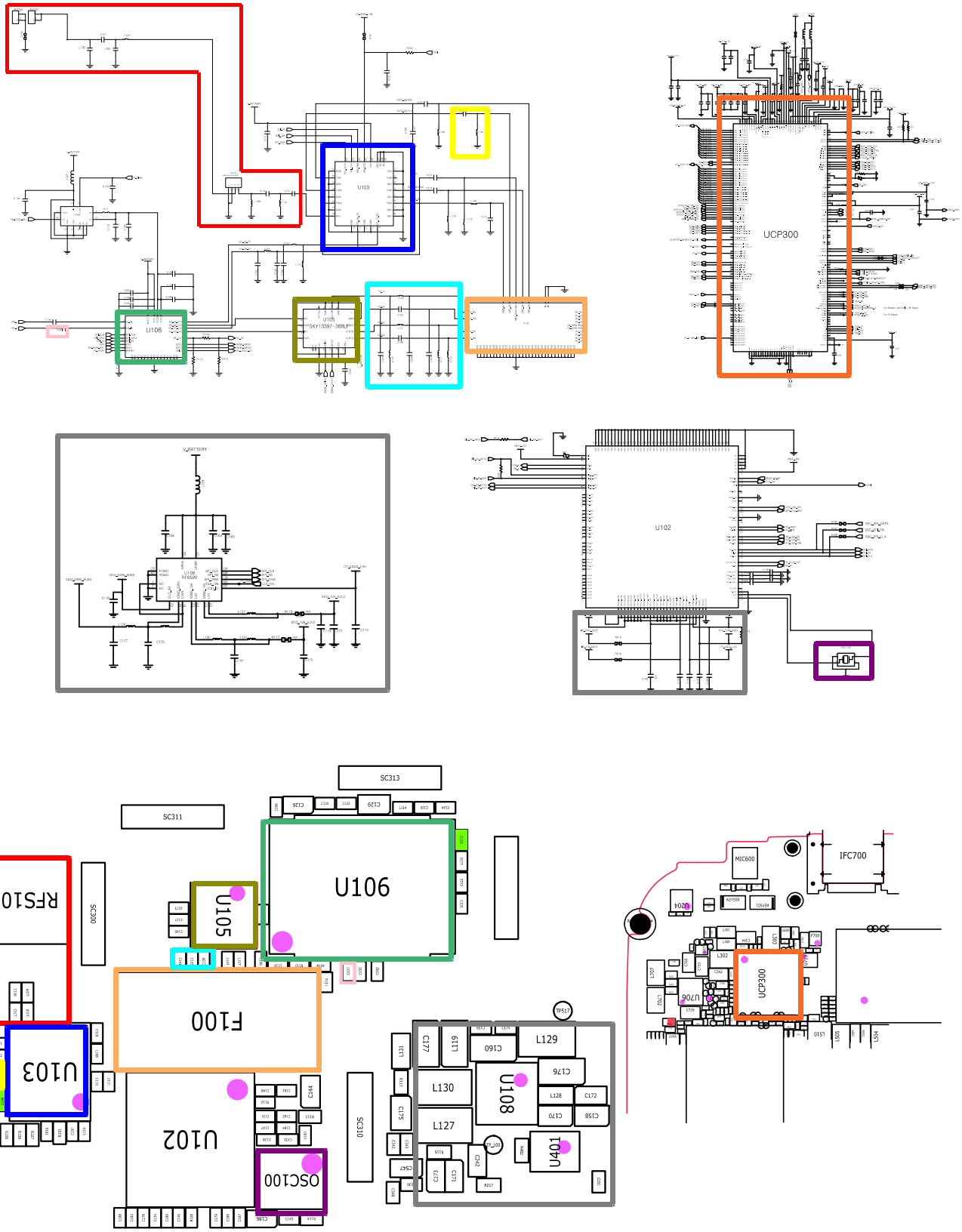


8-3-27. WCDMA BAND2 TX

CONTINUOUS TX ON CONDITION
TX POWER DAC:23000 CODE APPLIED
WCDMA Band2 CH : 9880
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

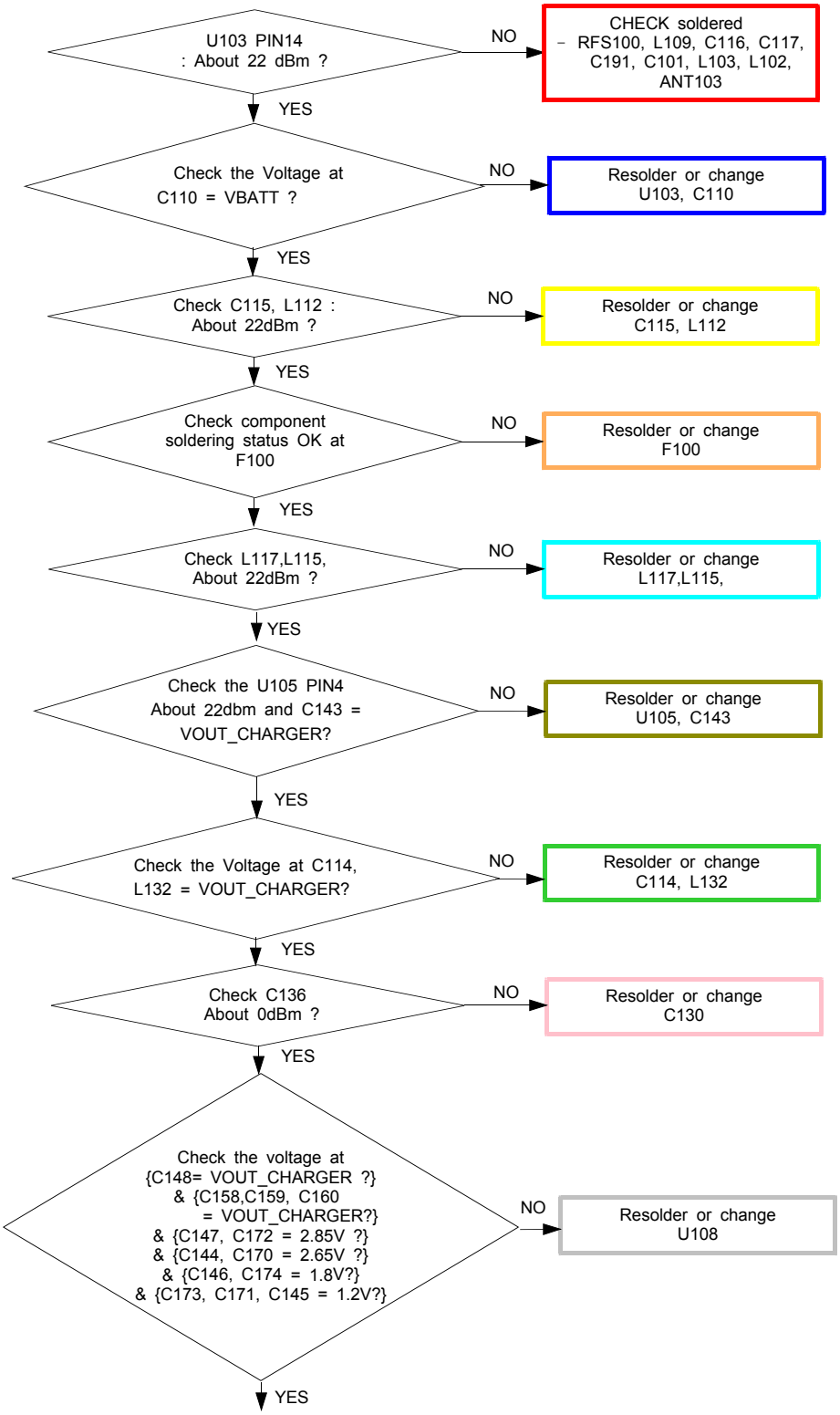


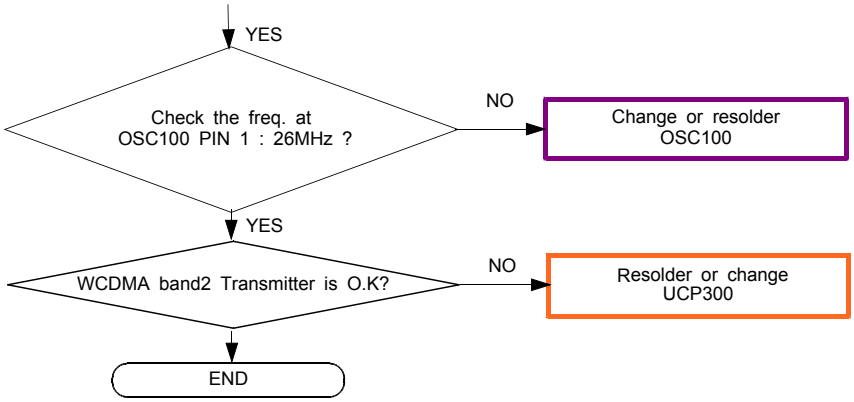


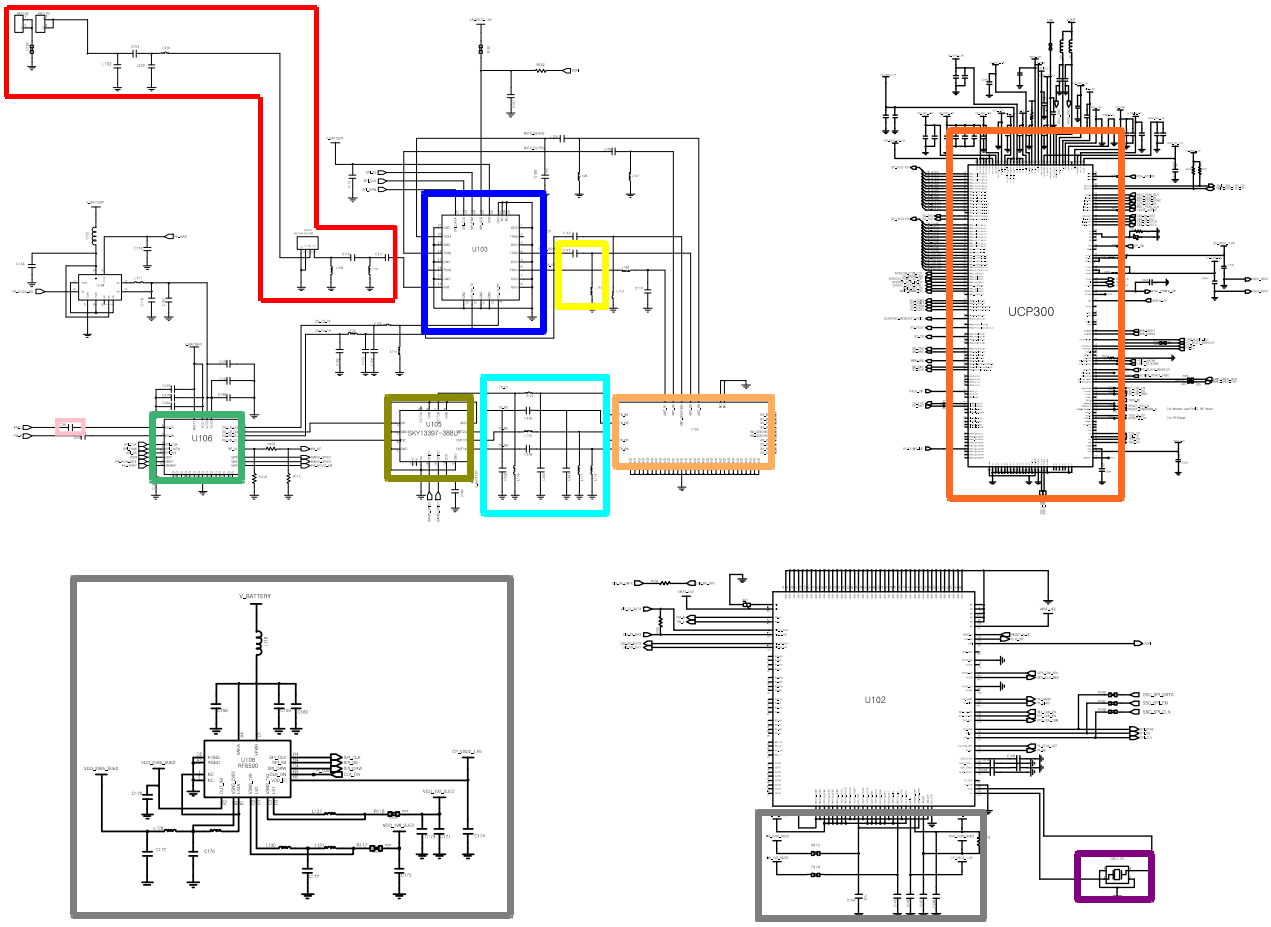


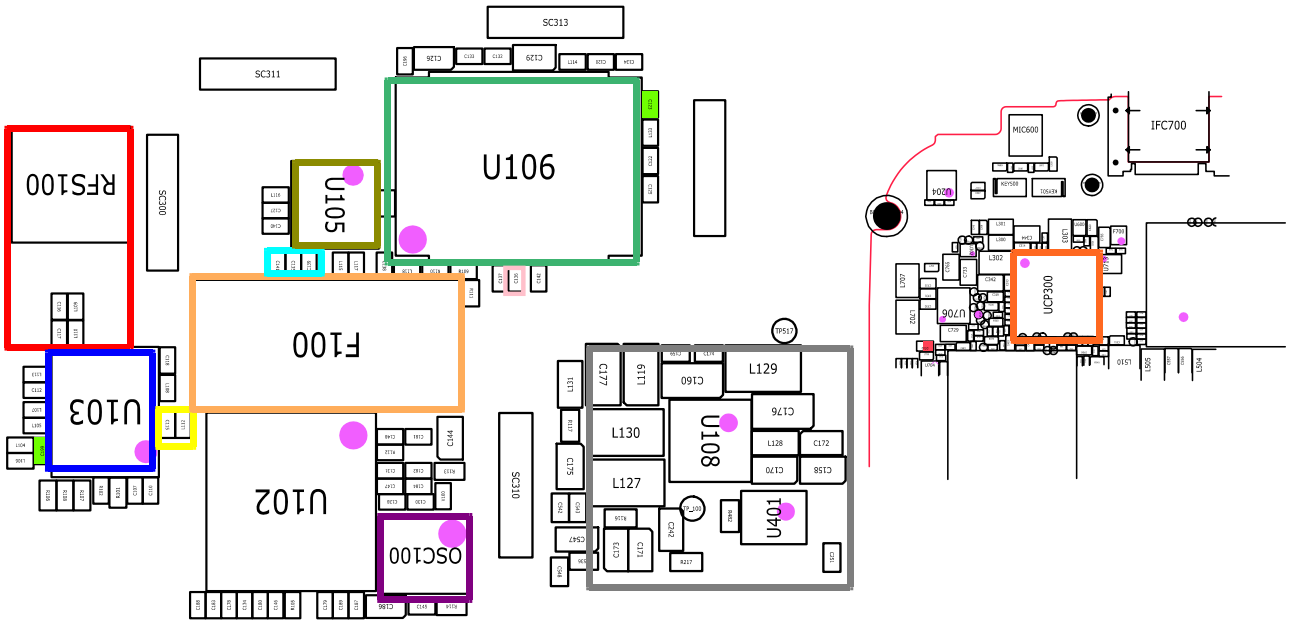
8-3-28. WCDMA BAND5 TX

CONTINUOUS TX ON CONDITION
TX POWER DAC: 23000 CODE APPLIED
WCDMA Band5 CH : 4408
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



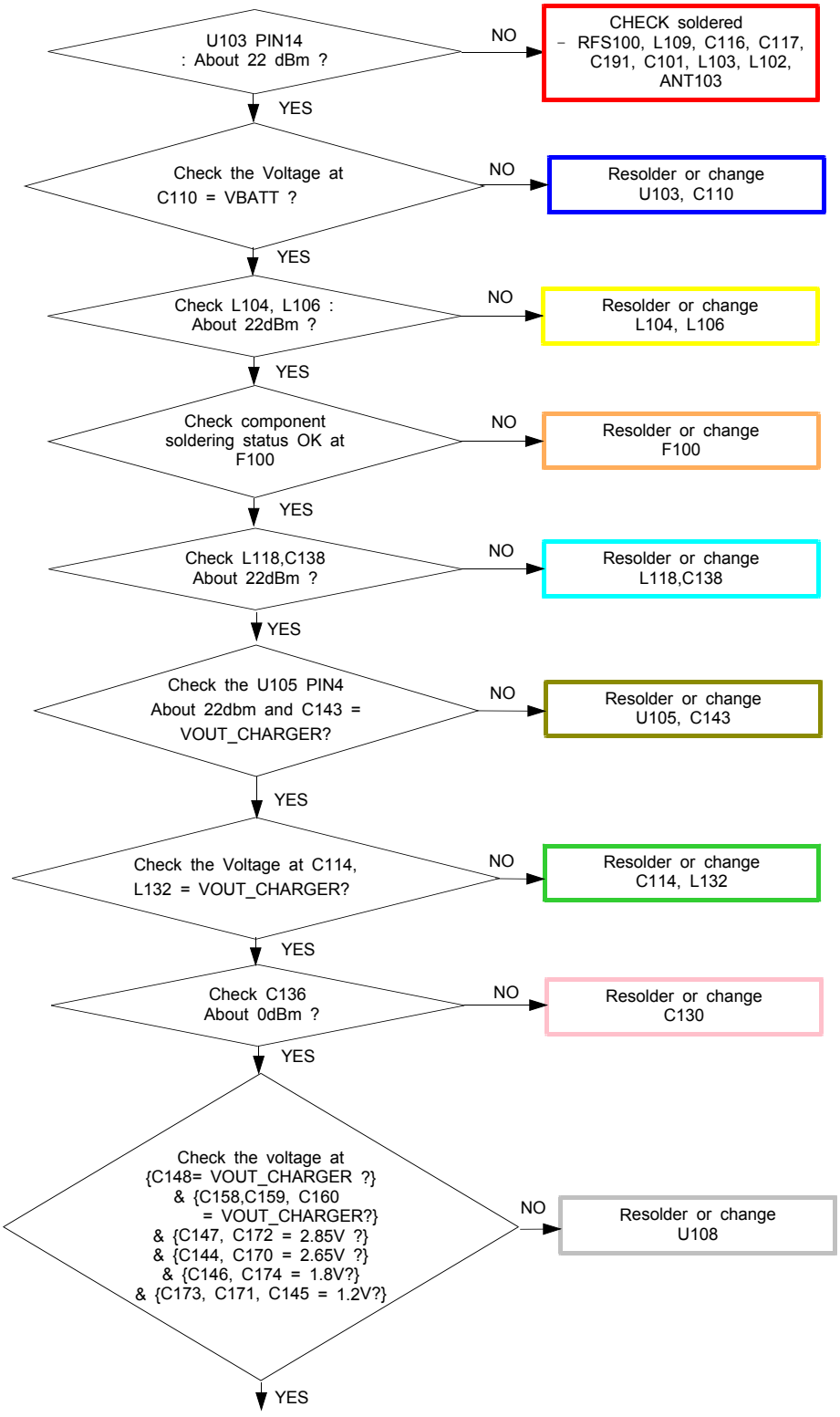


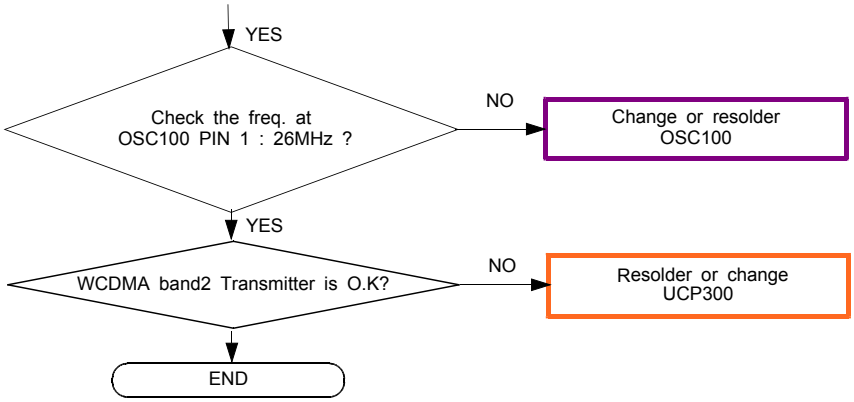


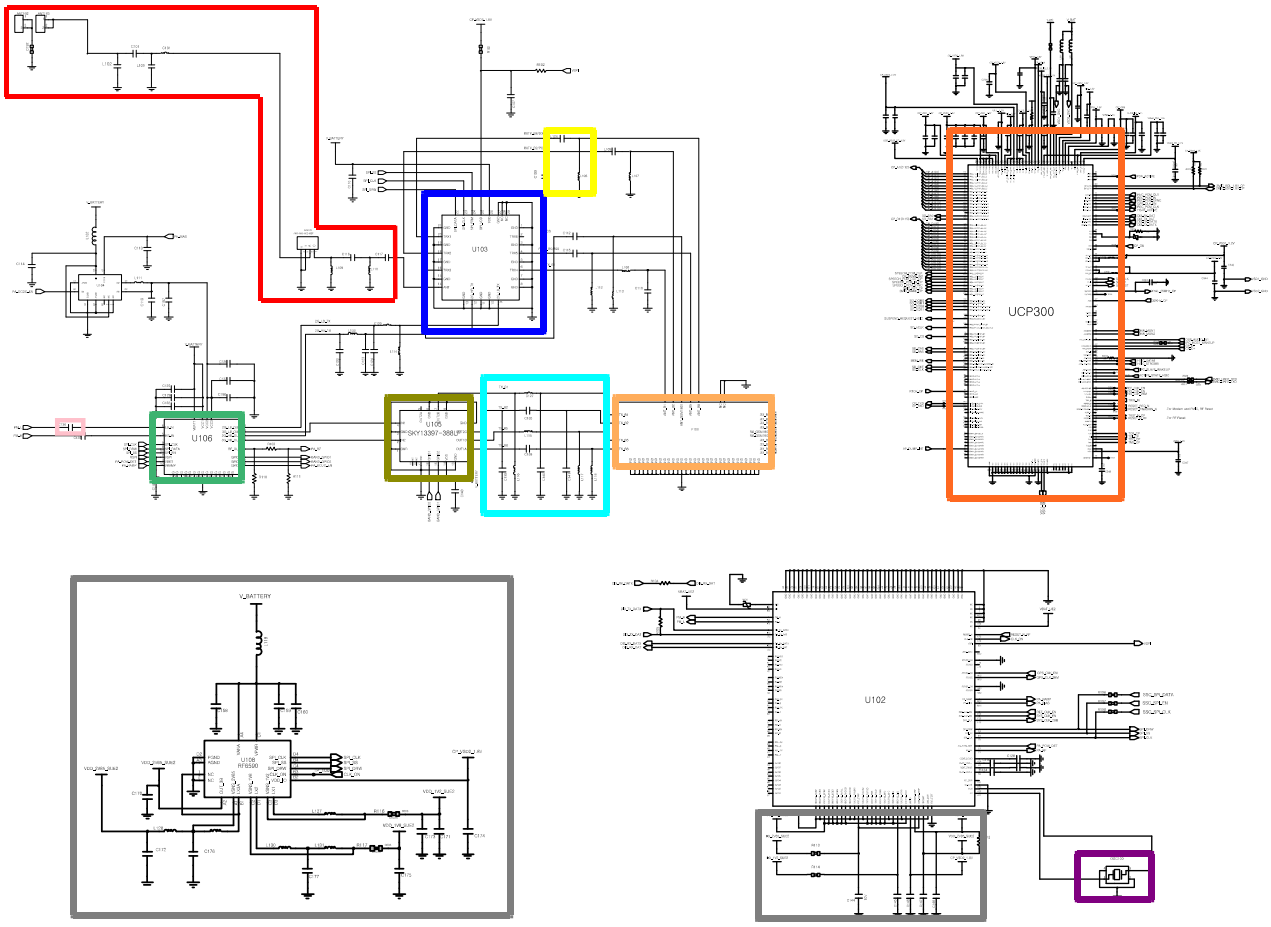


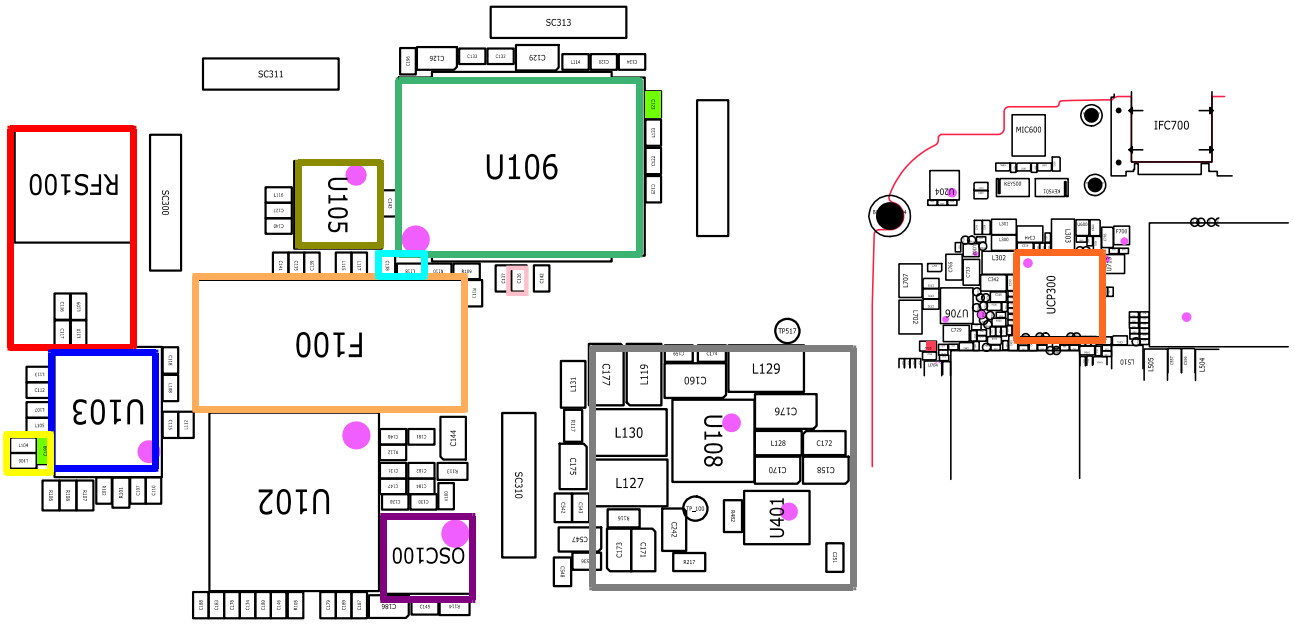
8-3-29. WCDMA BAND8 TX

CONTINUOUS TX ON CONDITION
TX POWER DAC: 23000 CODE APPLIED
WCDMA Band8 CH : 3013
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB









8-3-30. OTG