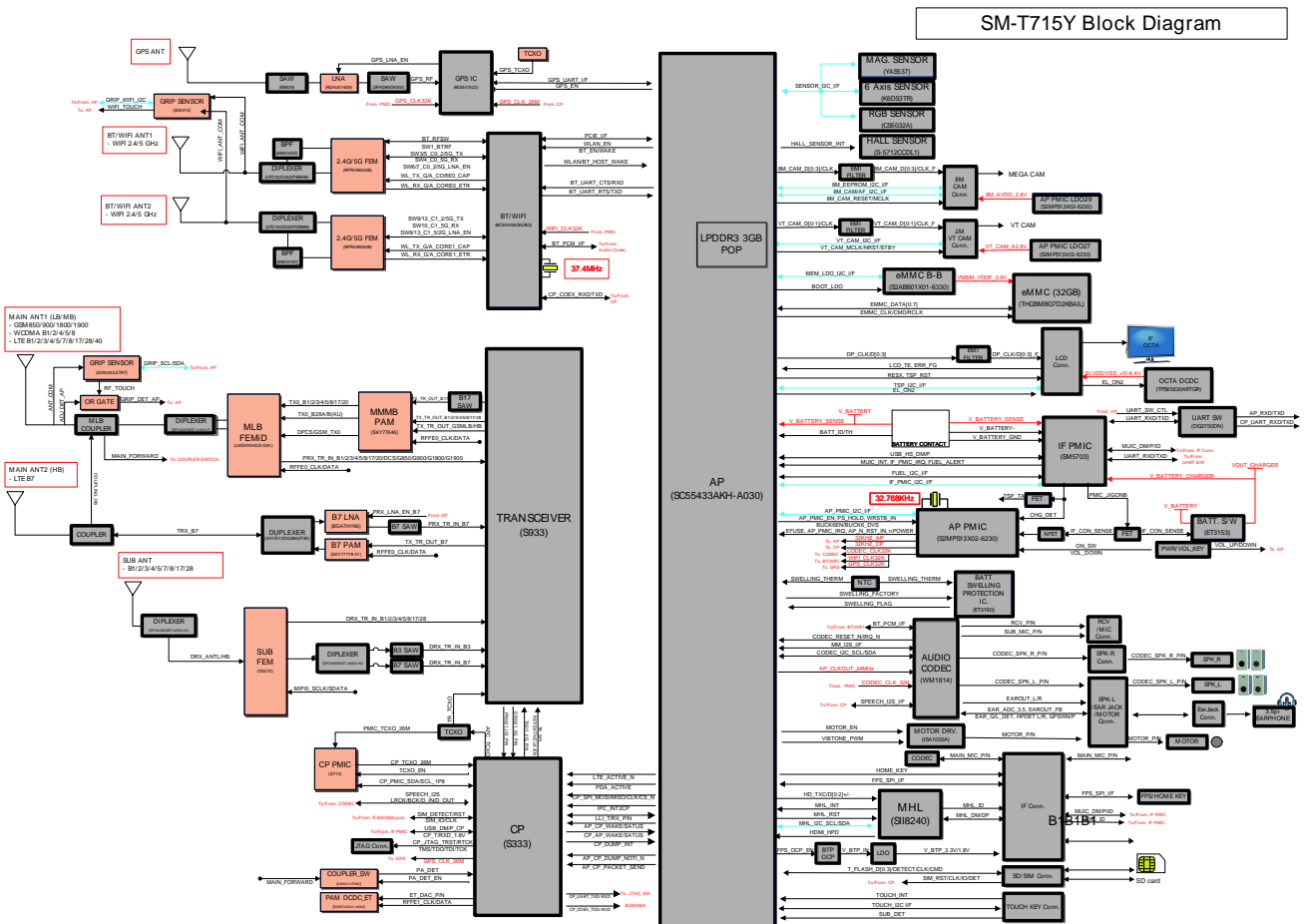


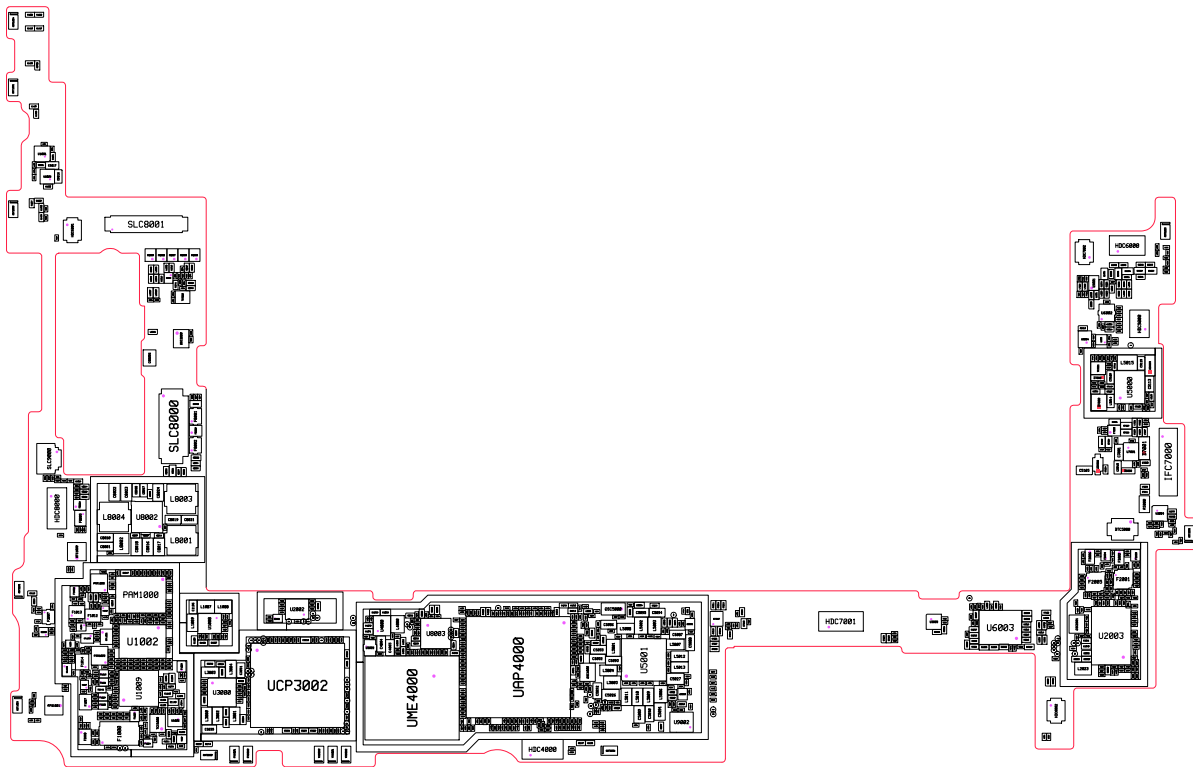
8. Level 3 Repair (VIETMOBILE.VN)

8-1. Block Diagram

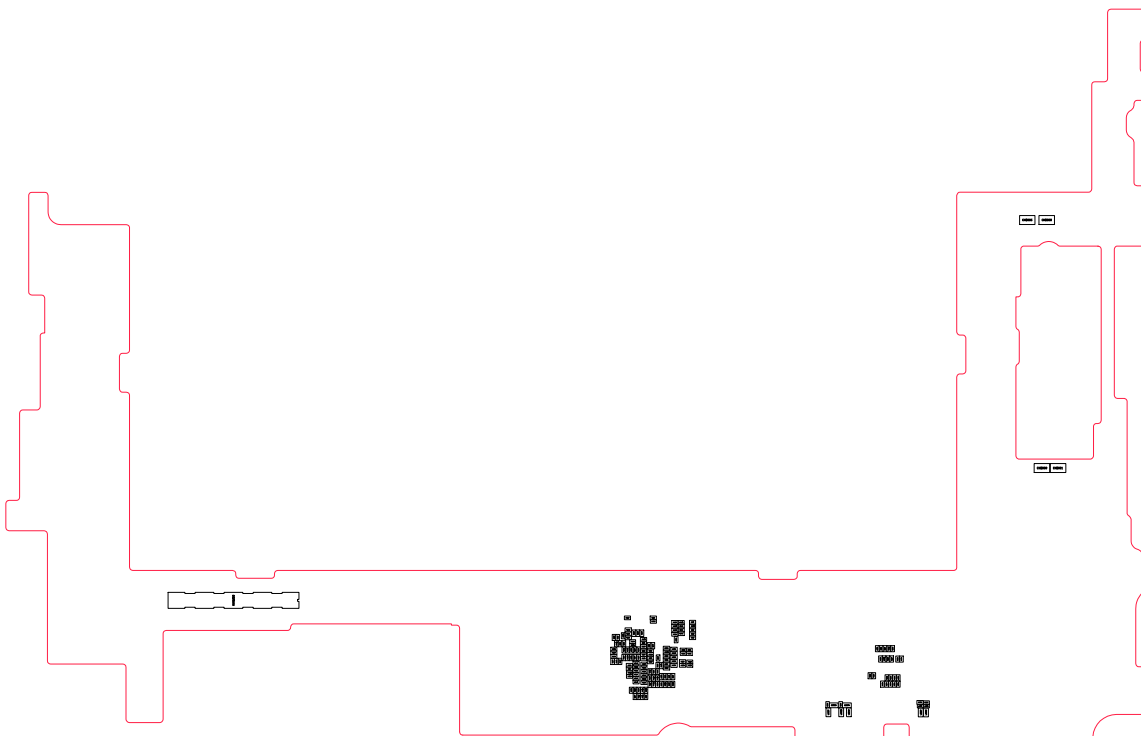


8-2. PCB Diagrams

8-2-1. Main PCB Top

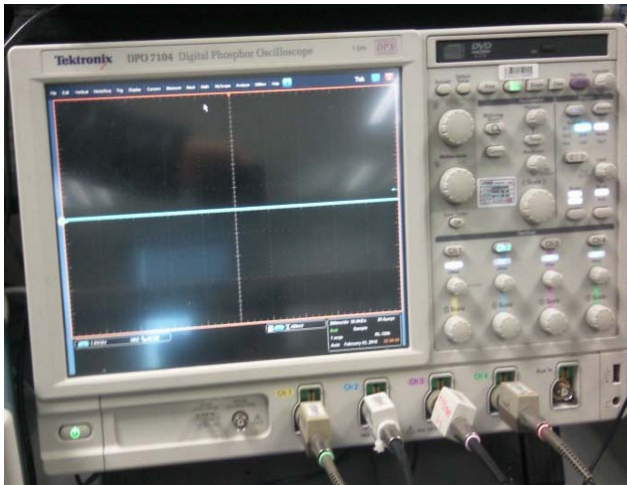


8-2-2. Bottom



8-3. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



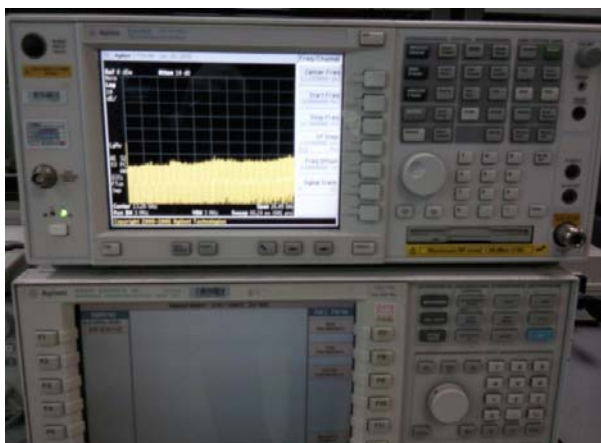
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer

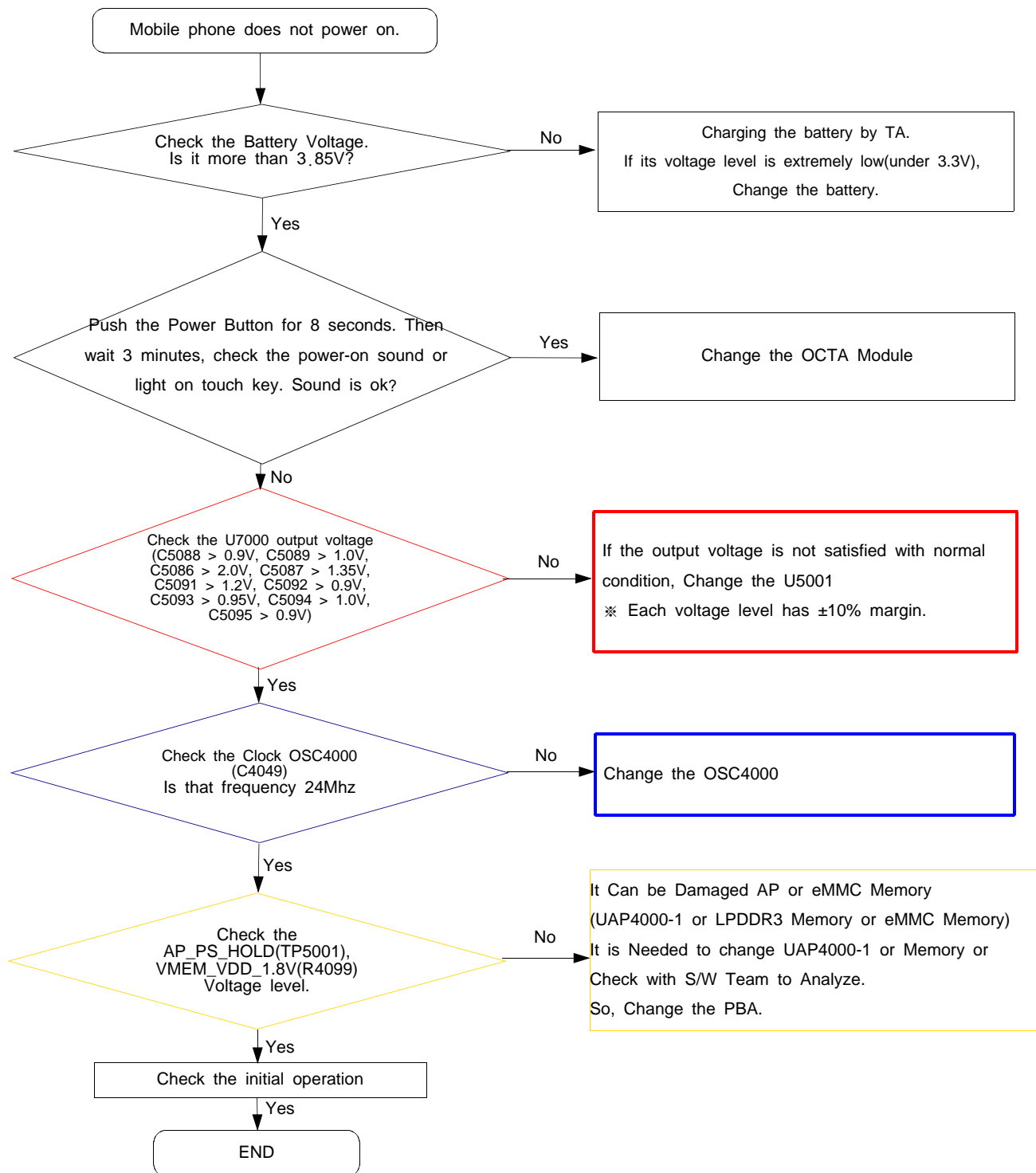


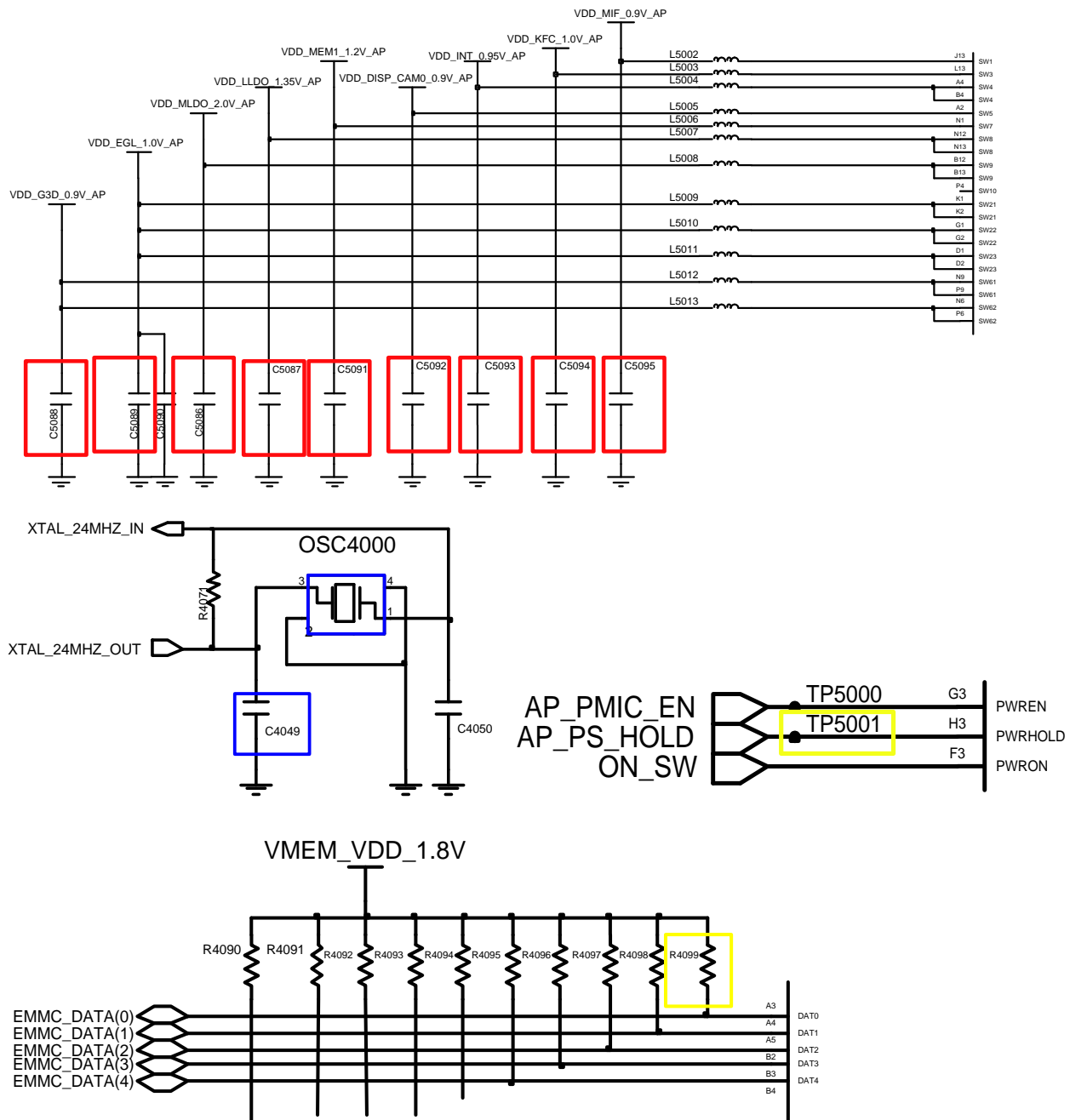
↑ 8960 & Spectrum Analyzer

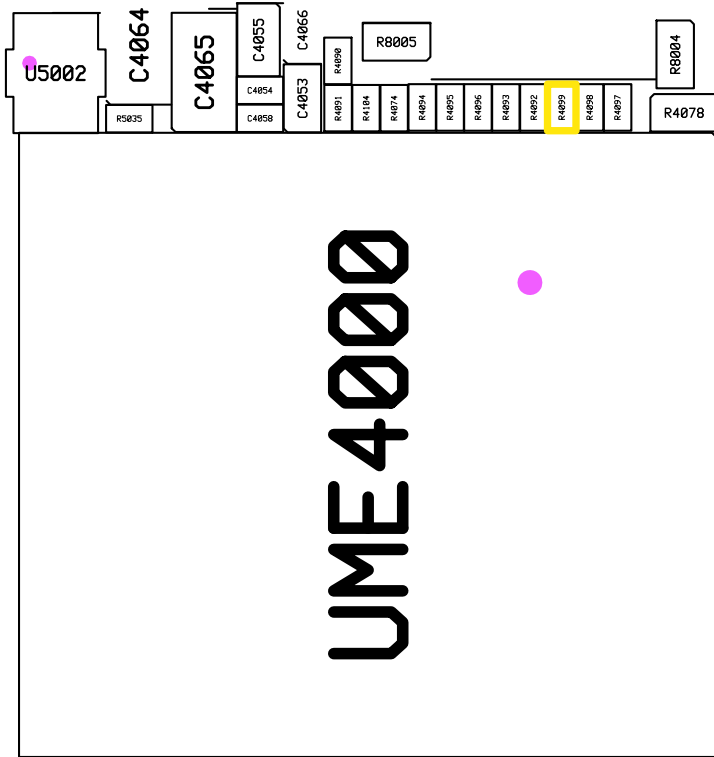


↑ Soldering iron

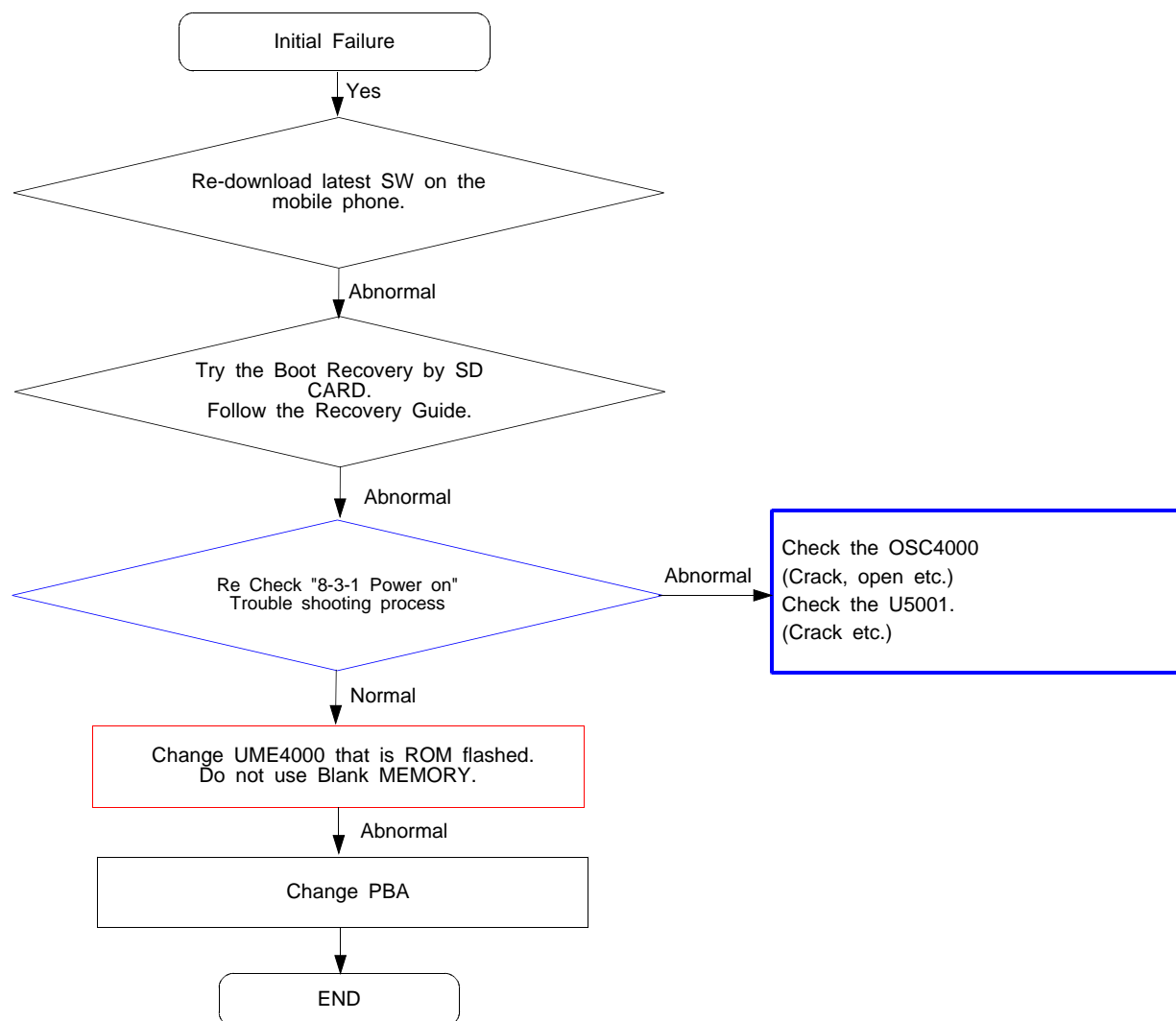
8-4-1. Power On

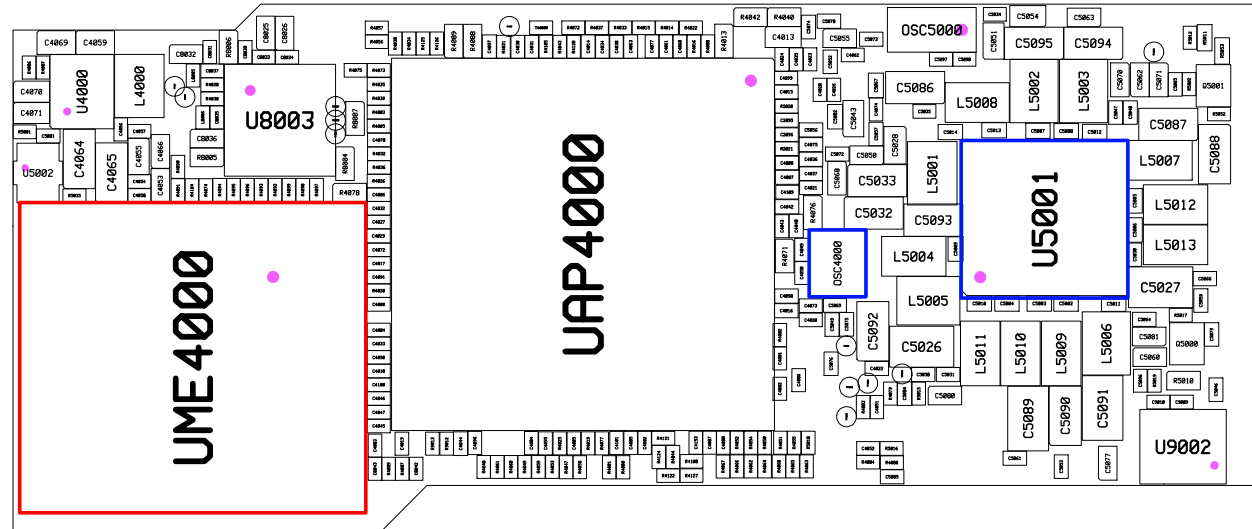




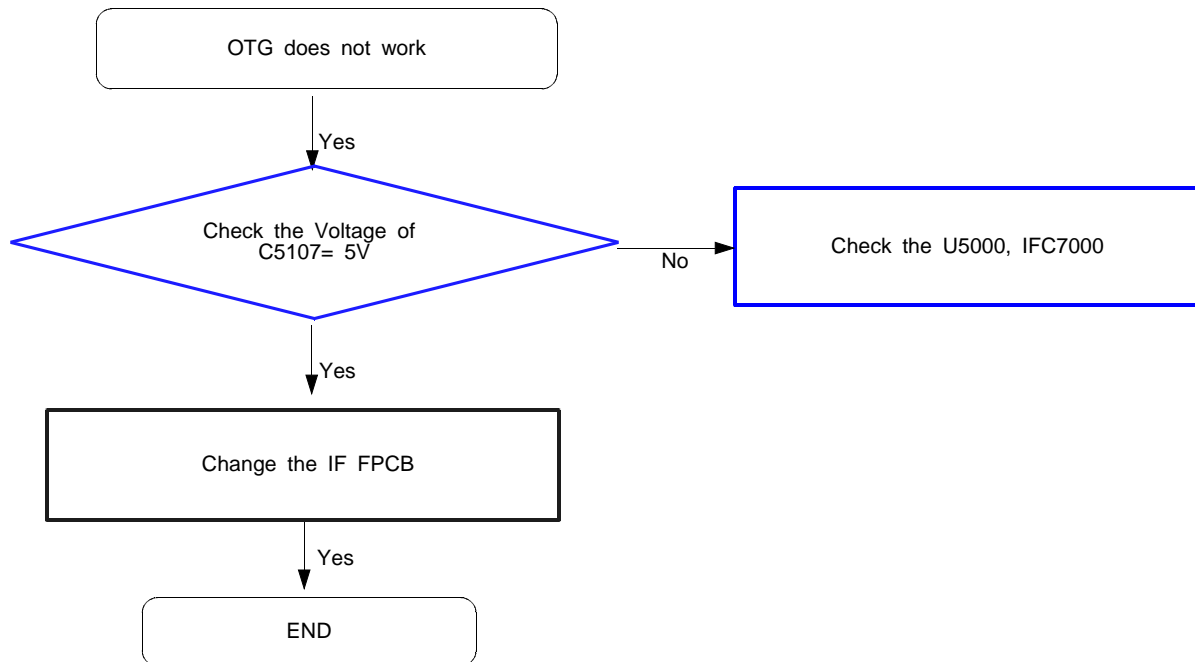


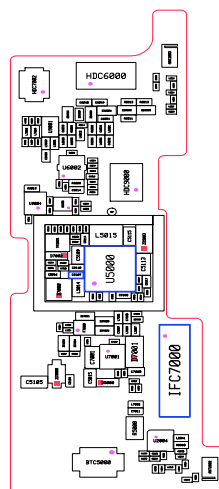
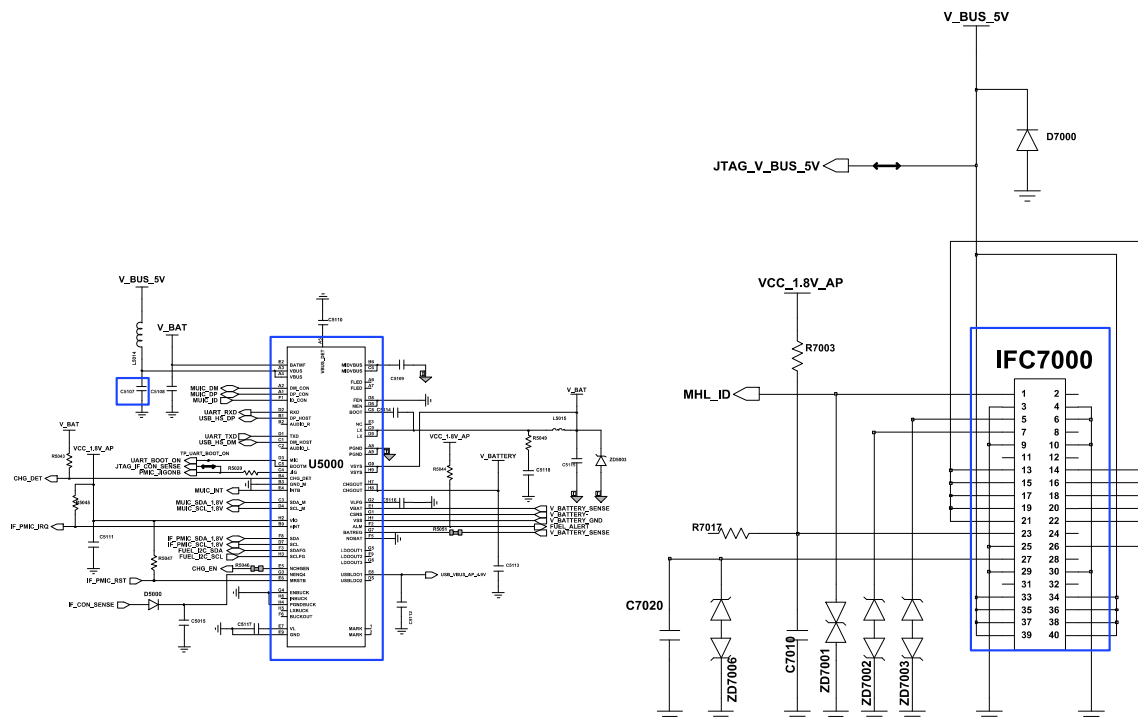
8-4-2. Initial



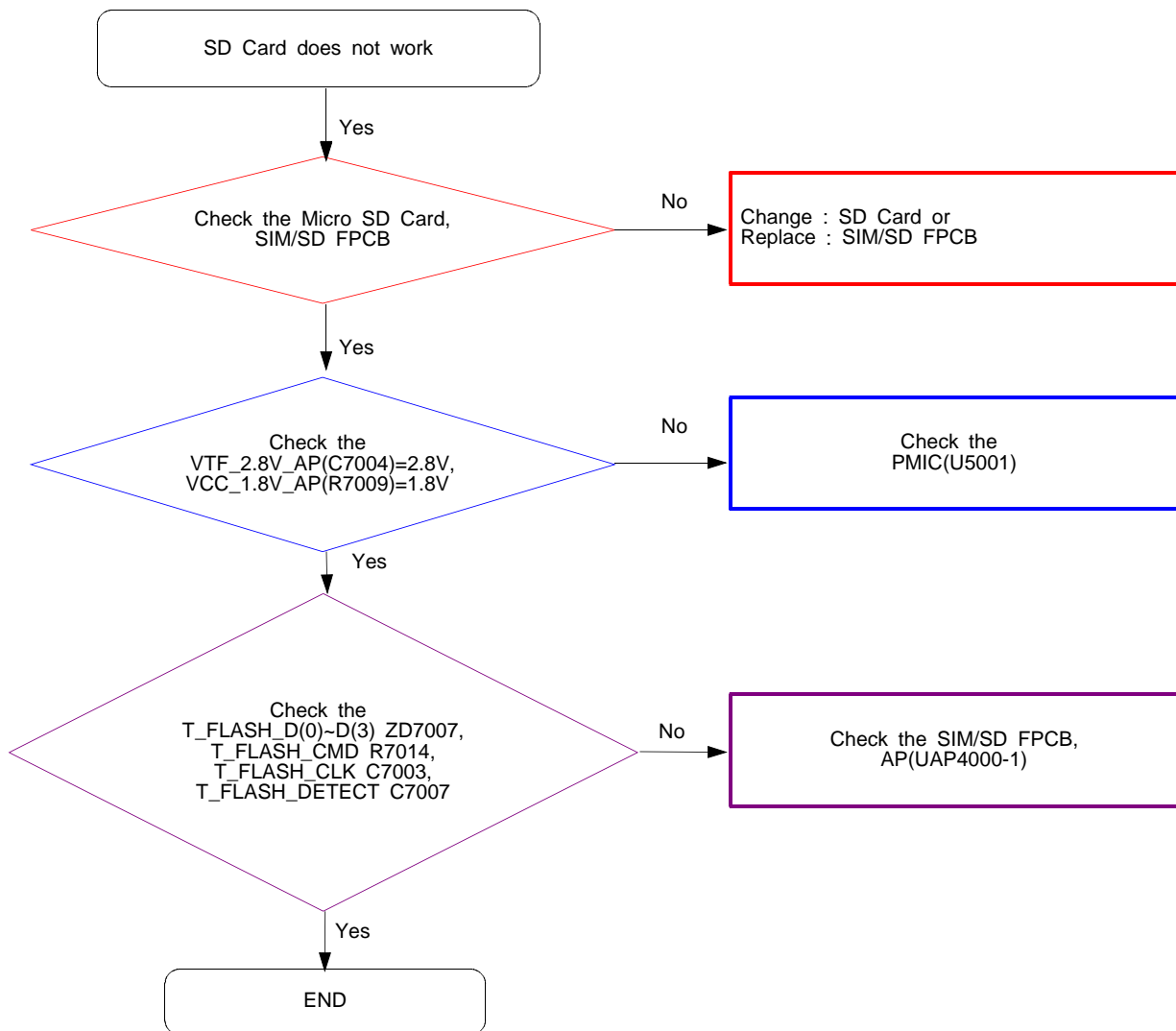


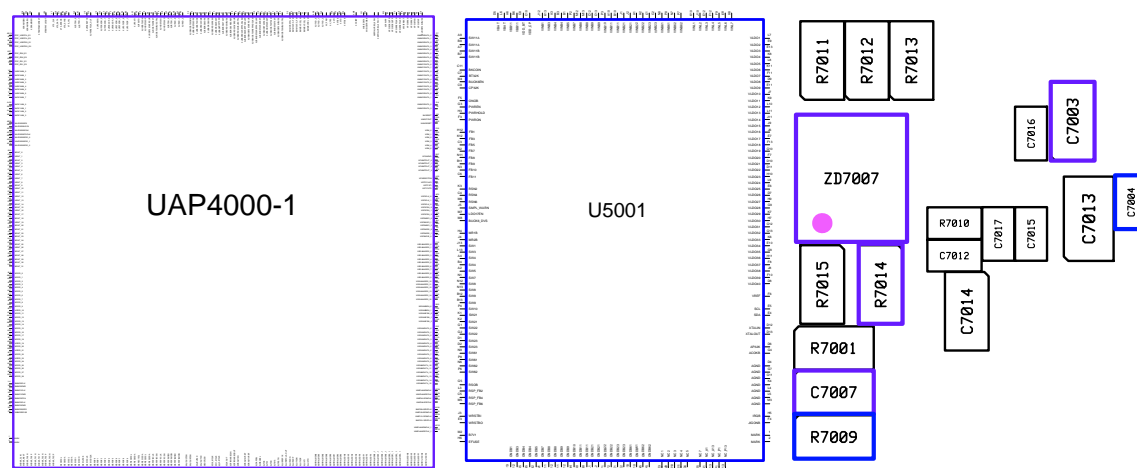
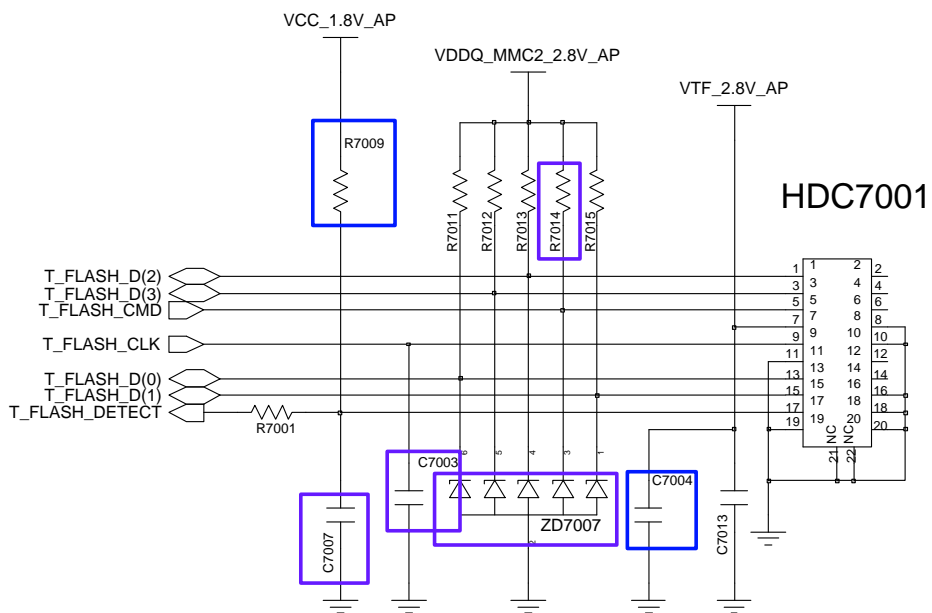
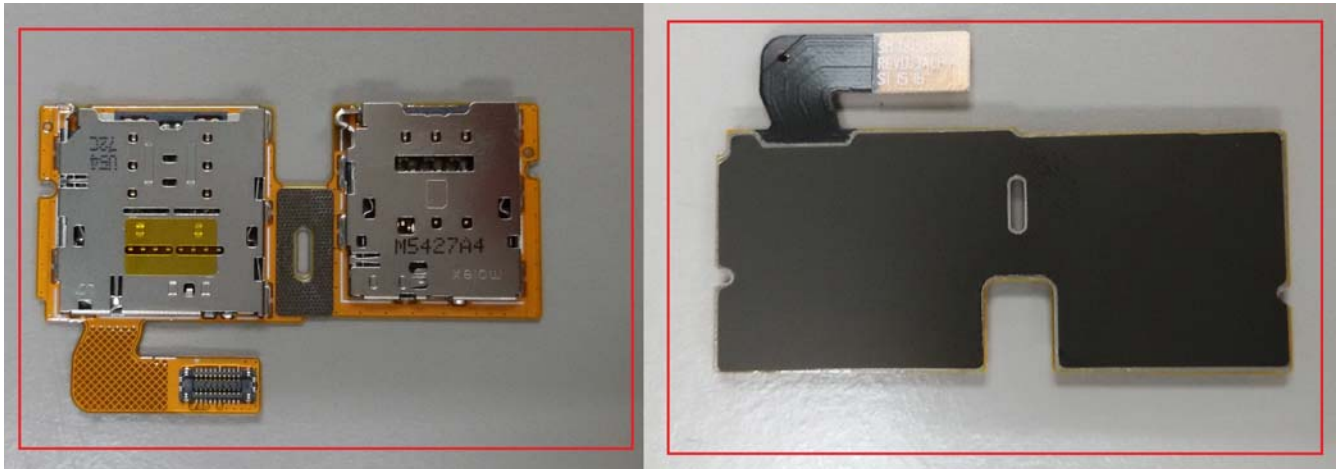
8-4-3. OTG



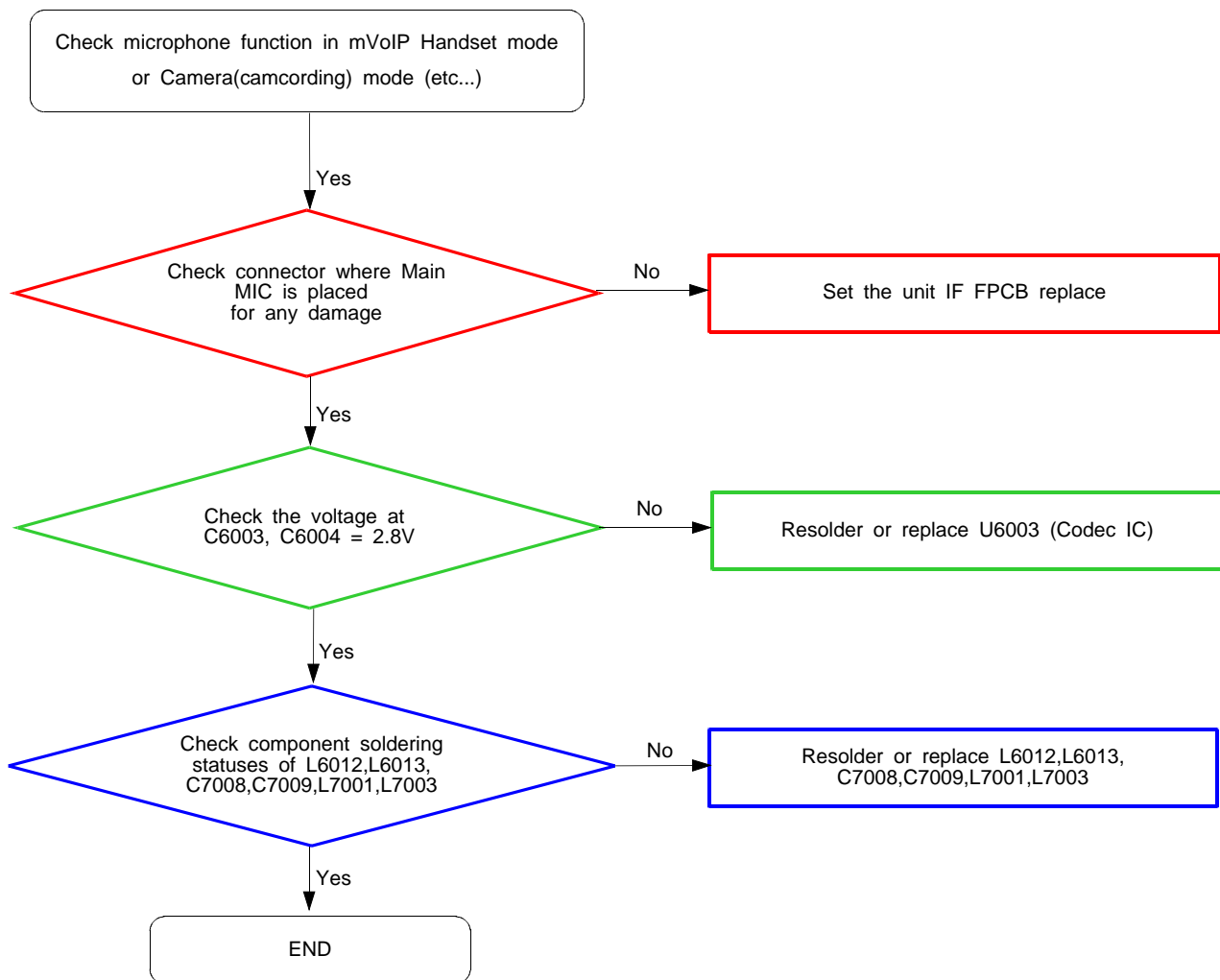


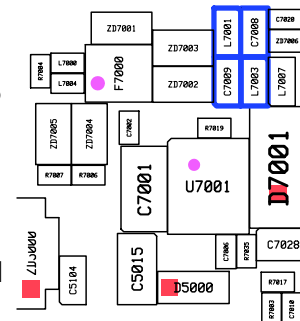
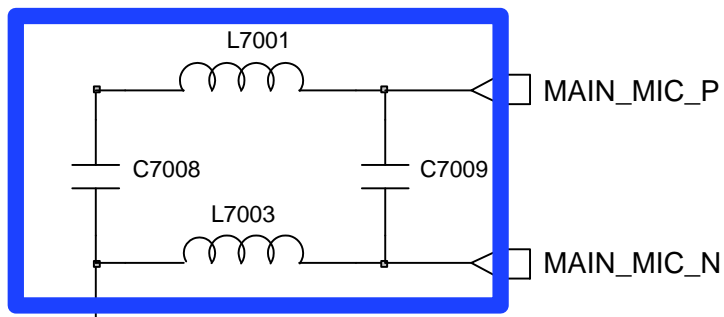
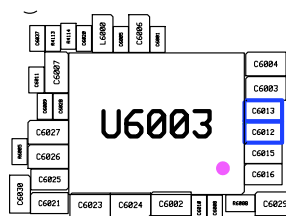
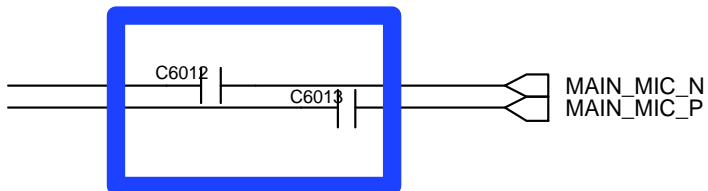
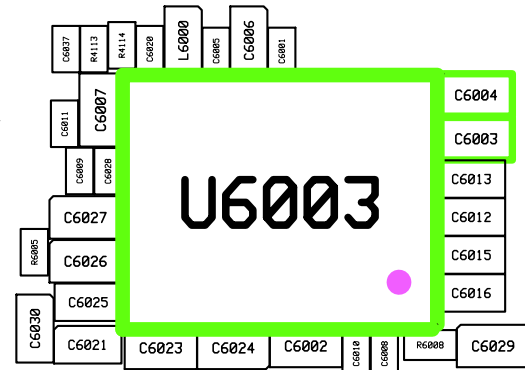
8-4-4. SD Part



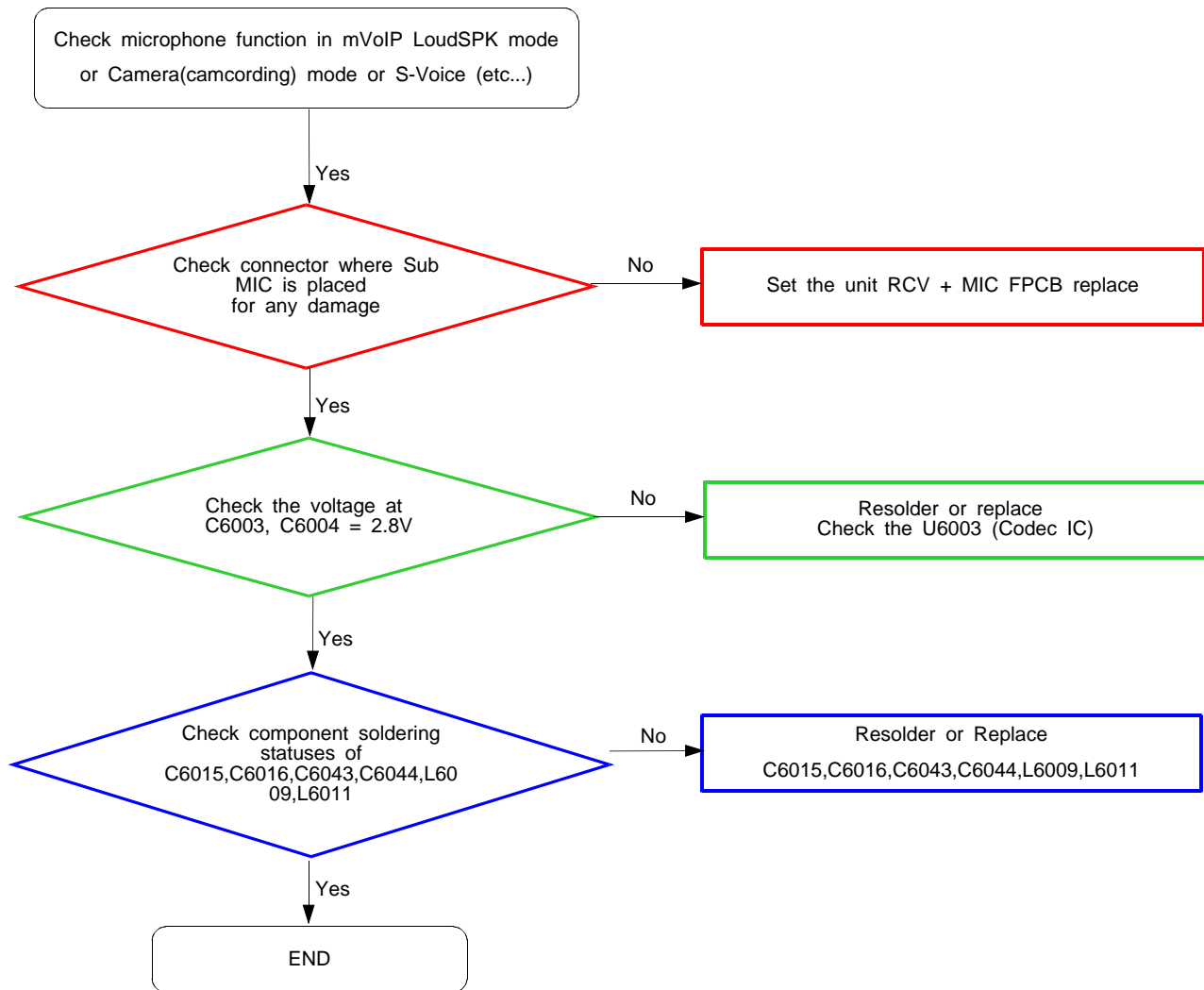


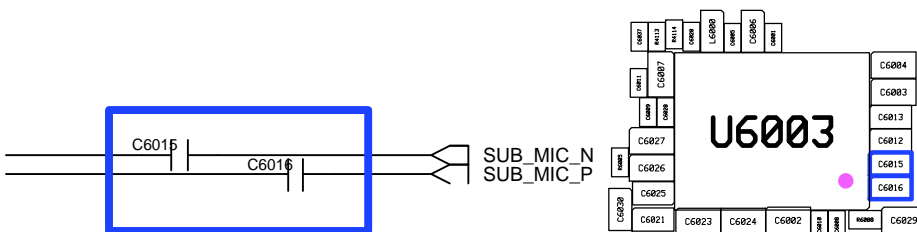
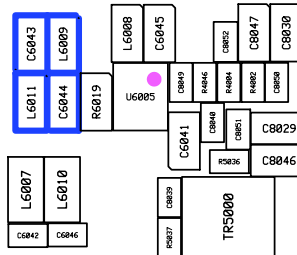
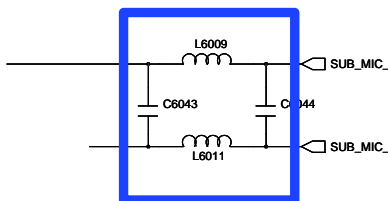
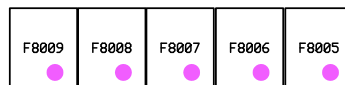
8-3-5. Main Microphone Part



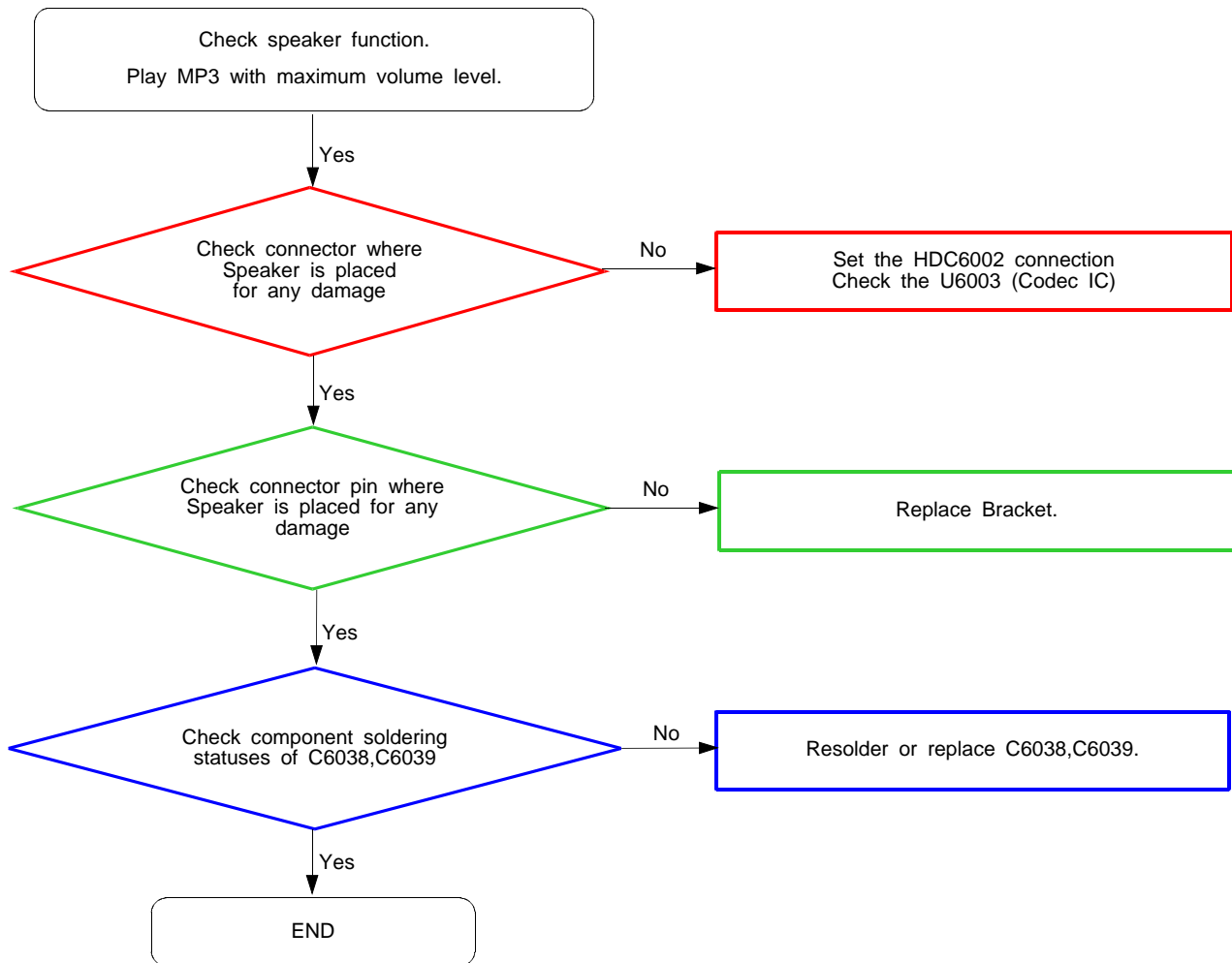


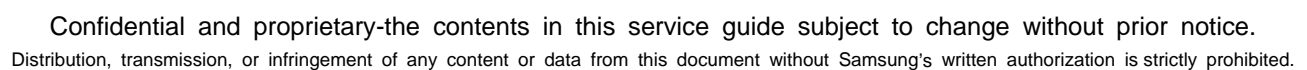
8-3-6. Sub Microphone Part



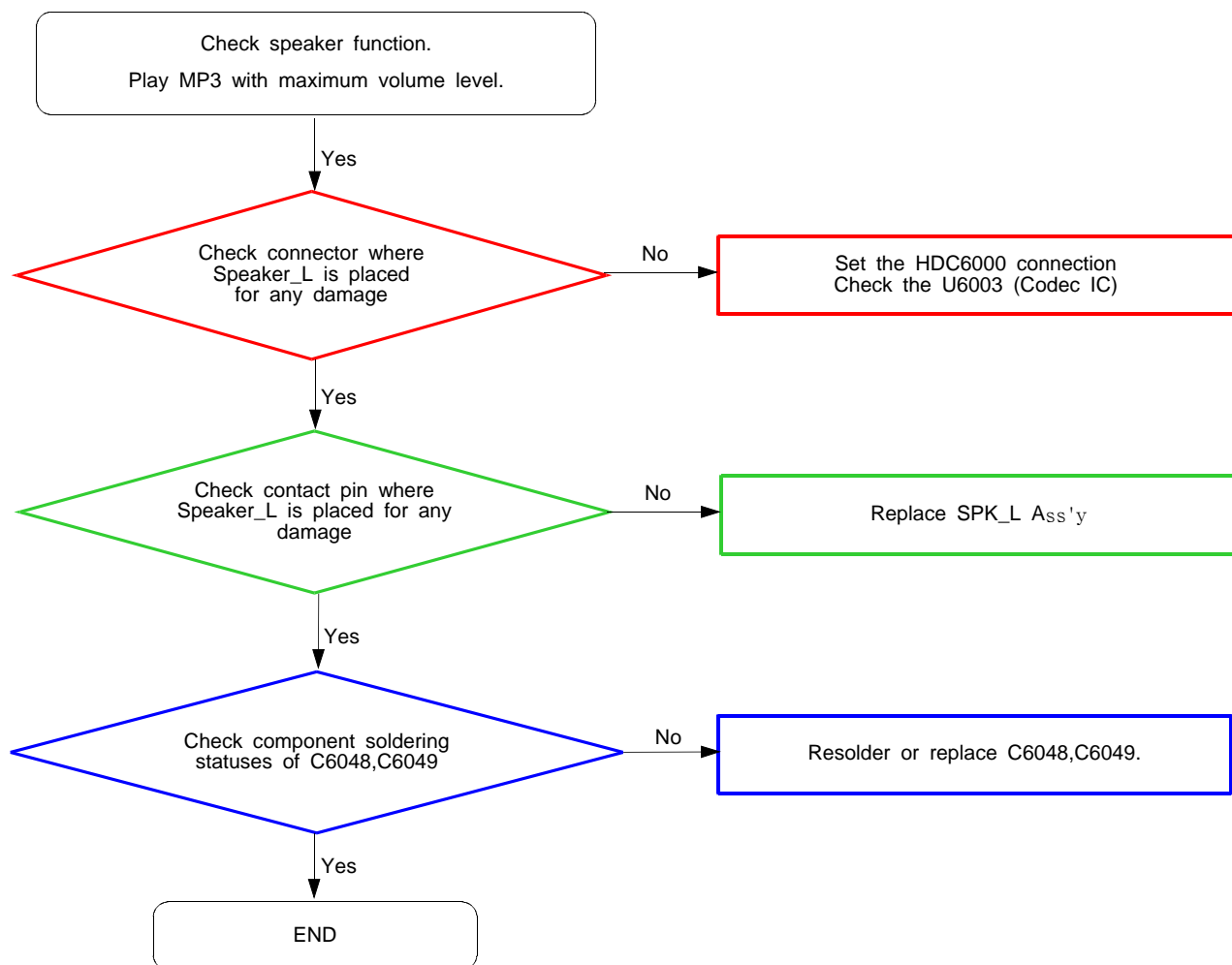


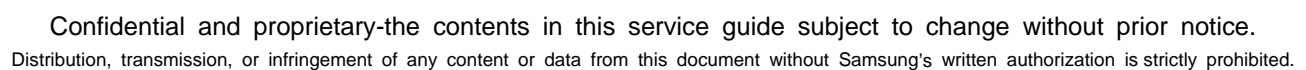
8-3-7. Speaker_R Part



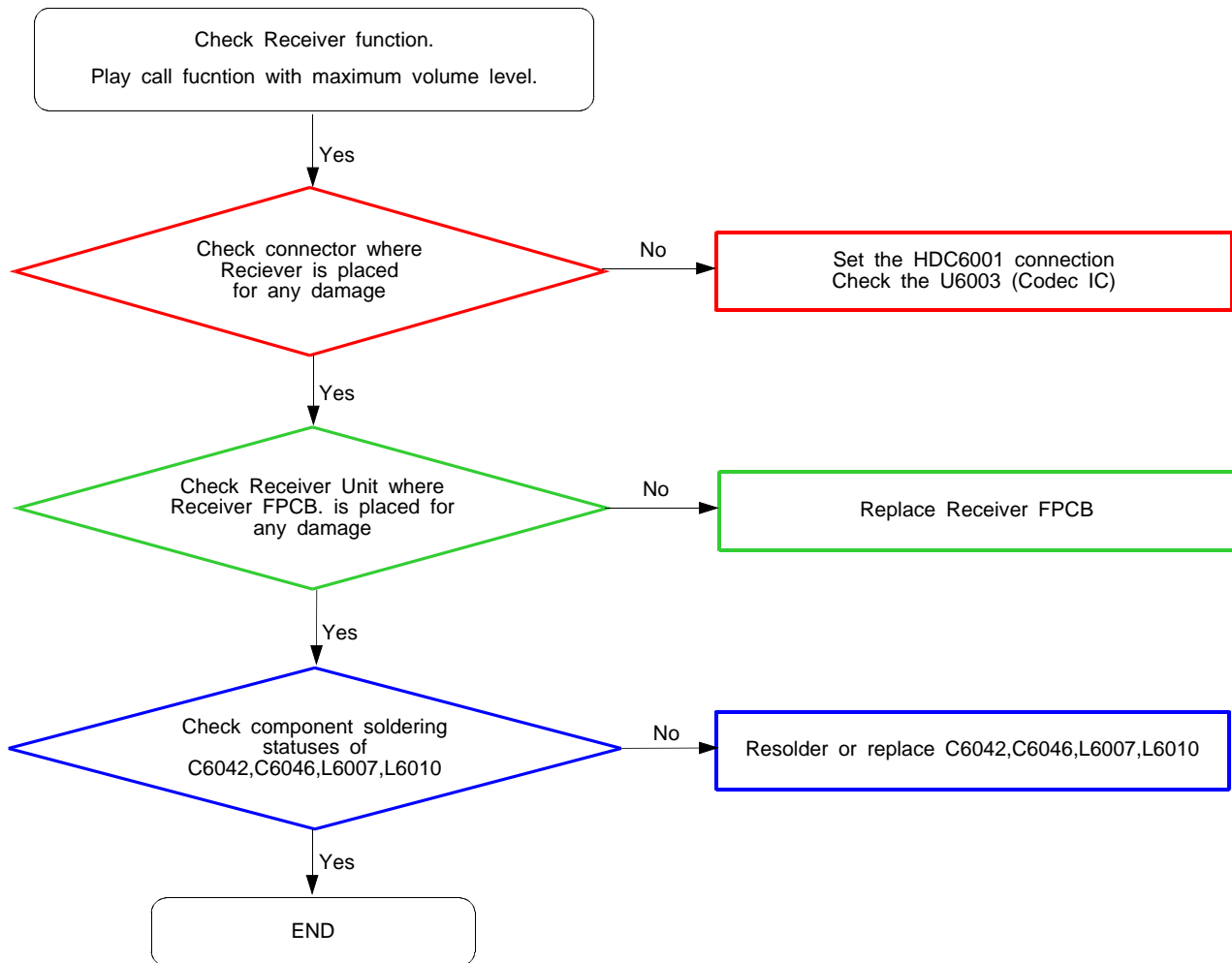


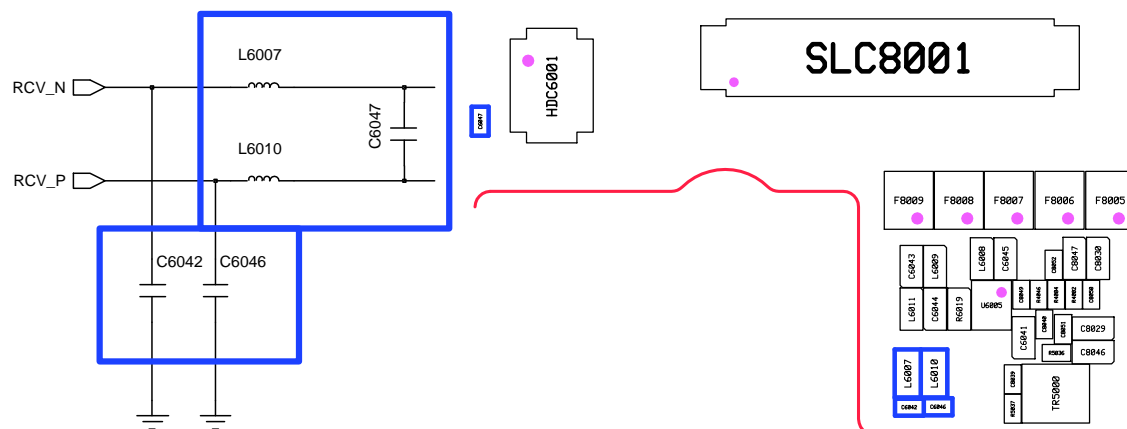
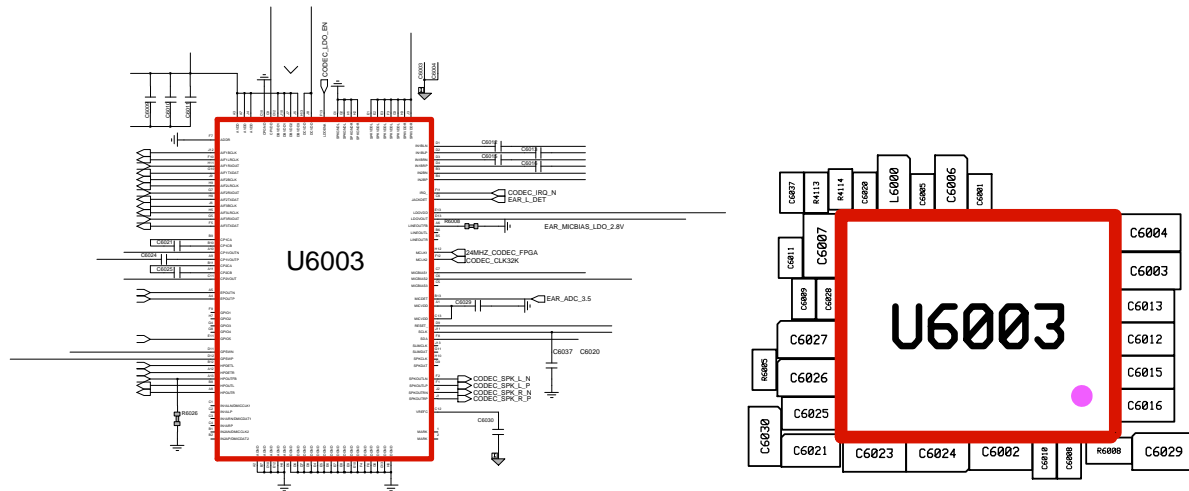
8-3-8. Speaker_L Part



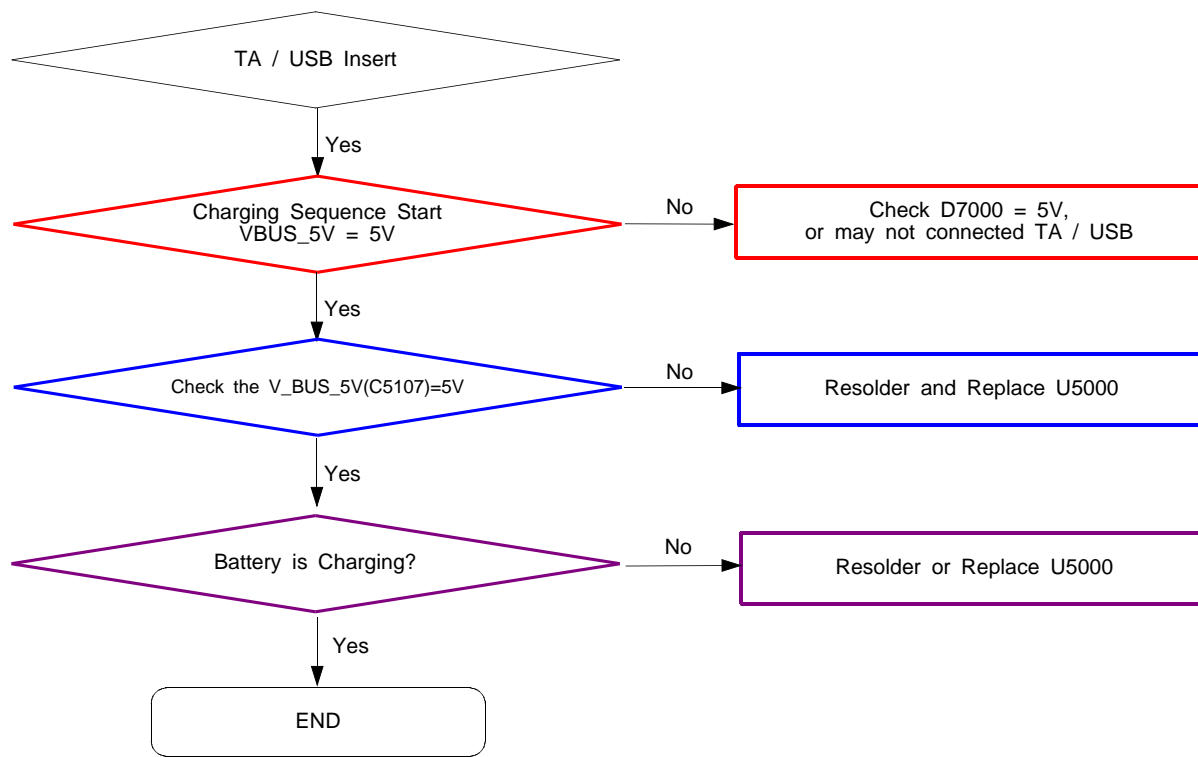


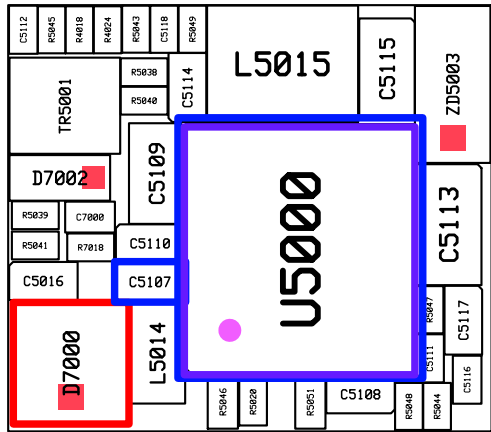
8-3-9. Receiver Part



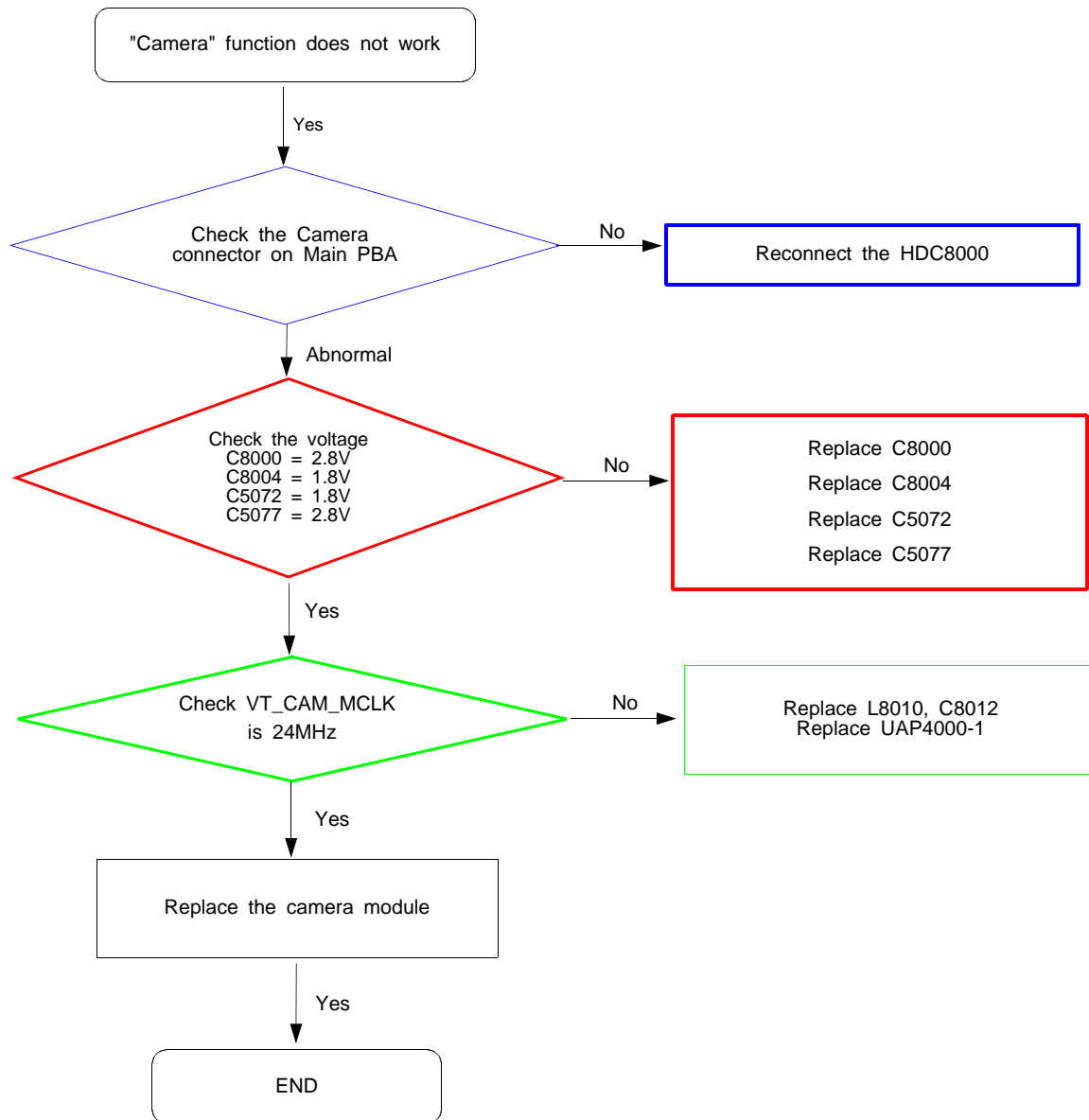


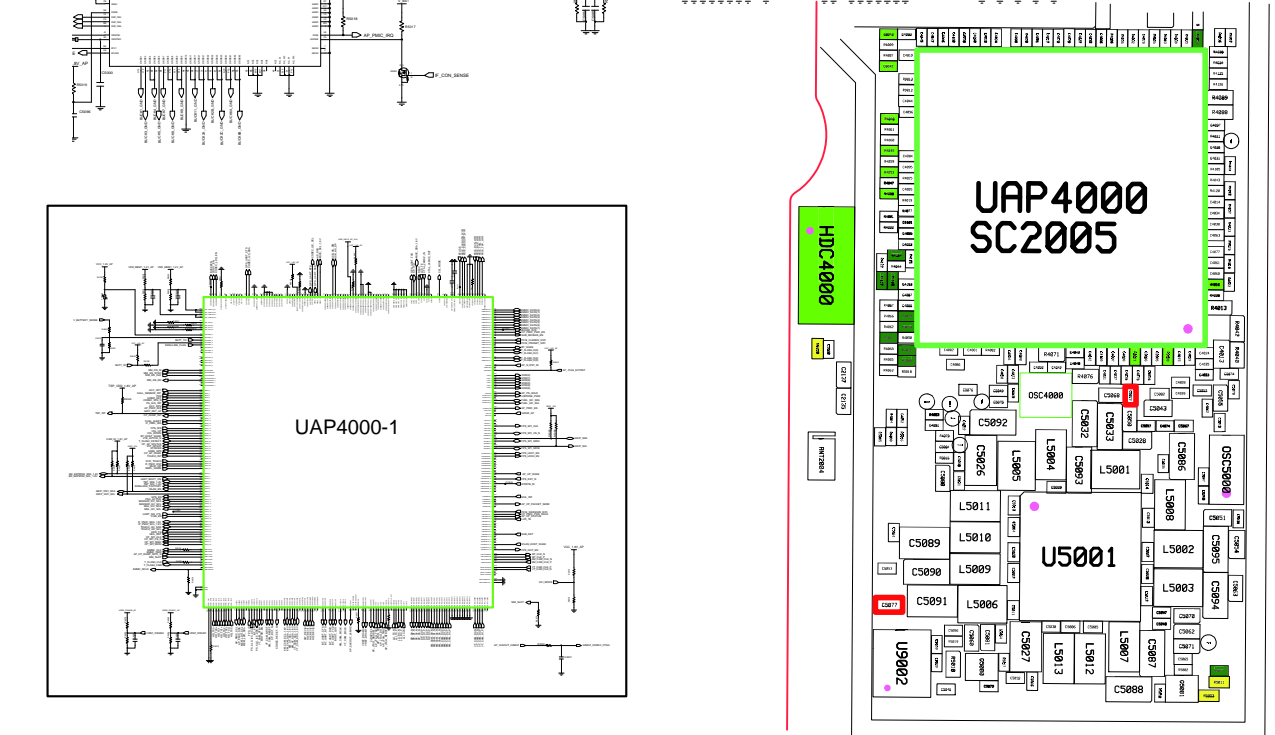
8-4-10. Charging Part



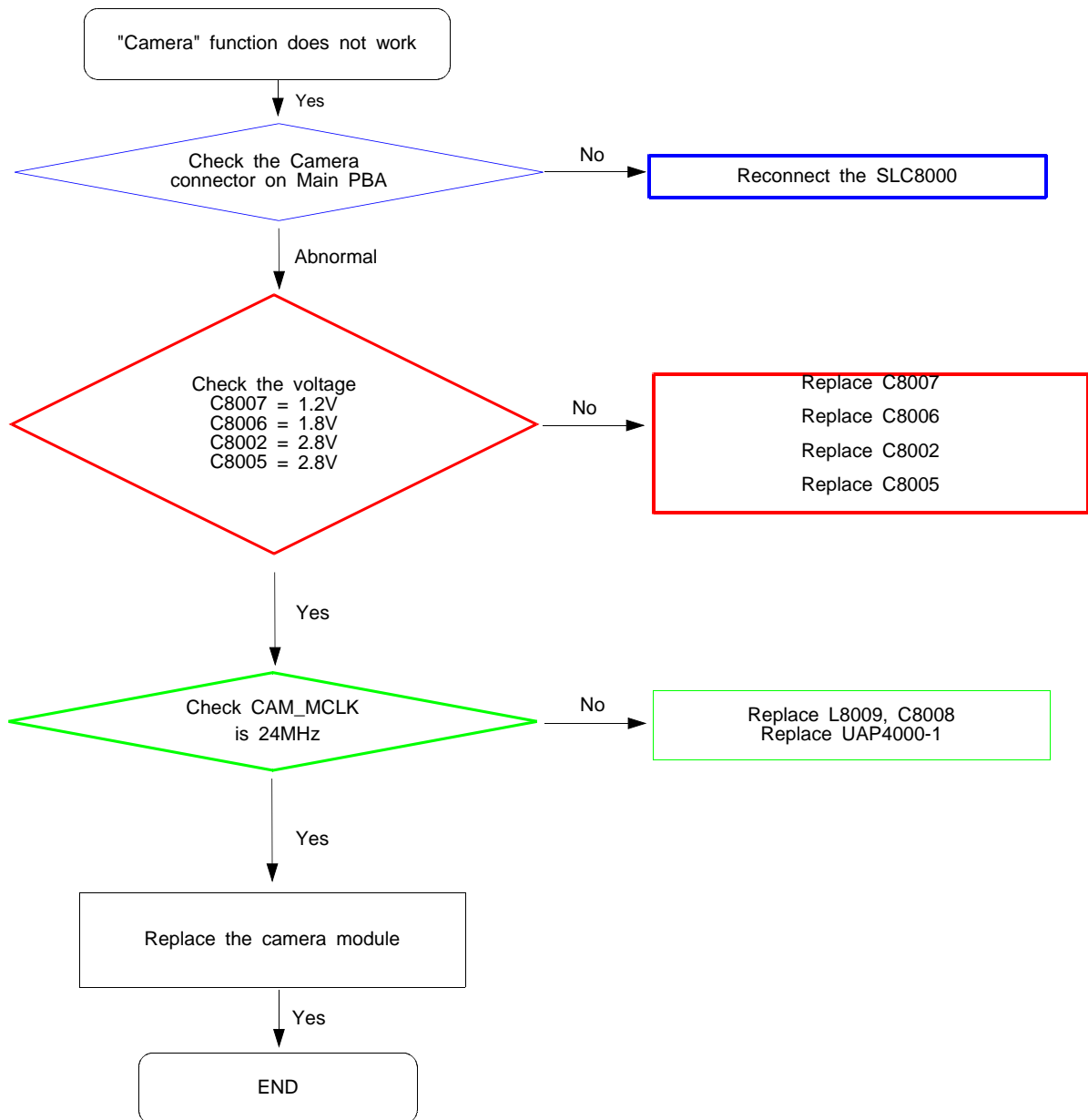


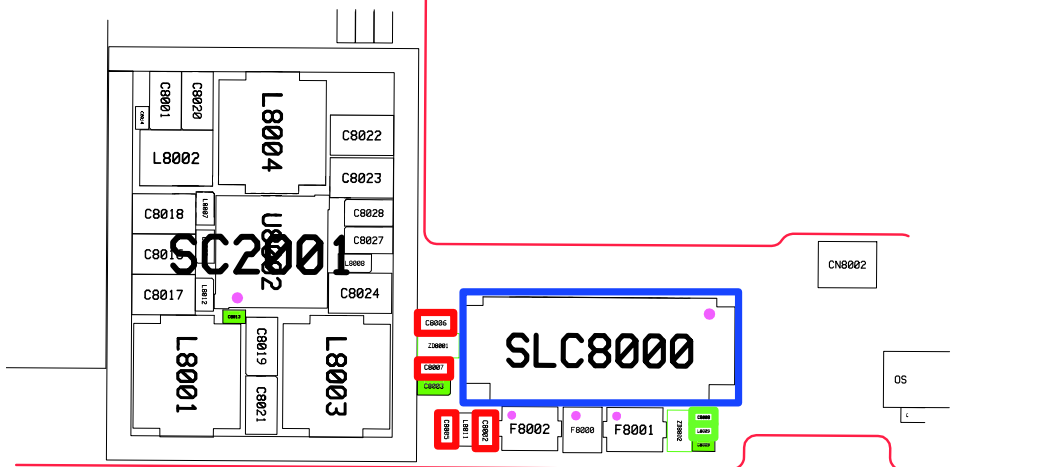
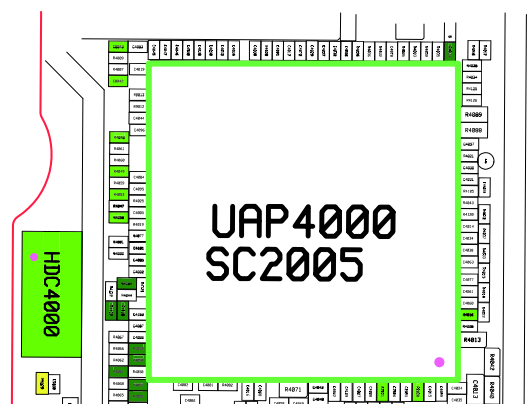
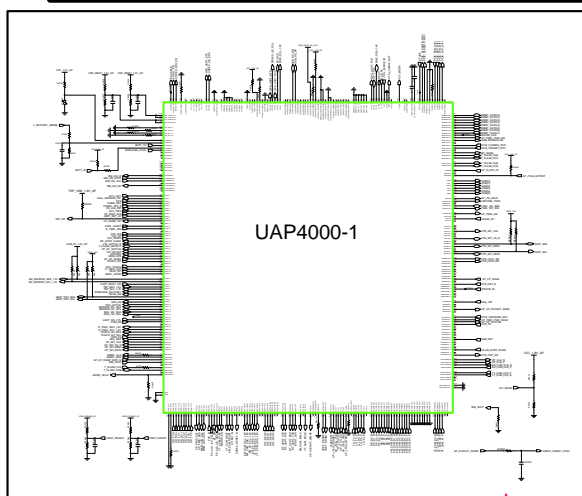
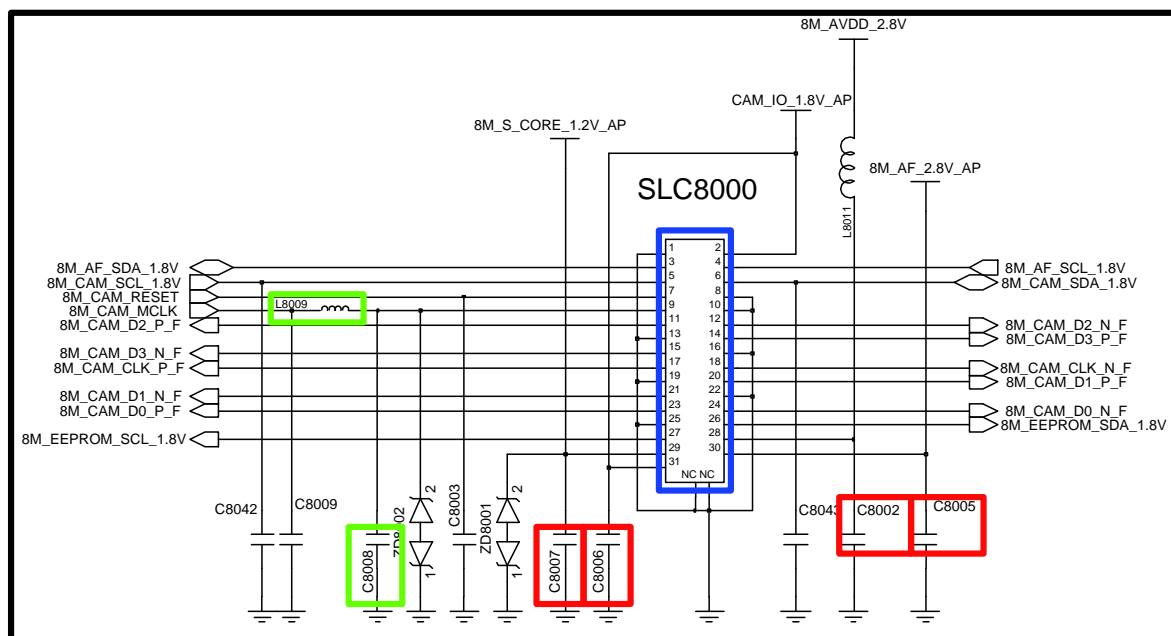
8-4-11. VT CAM



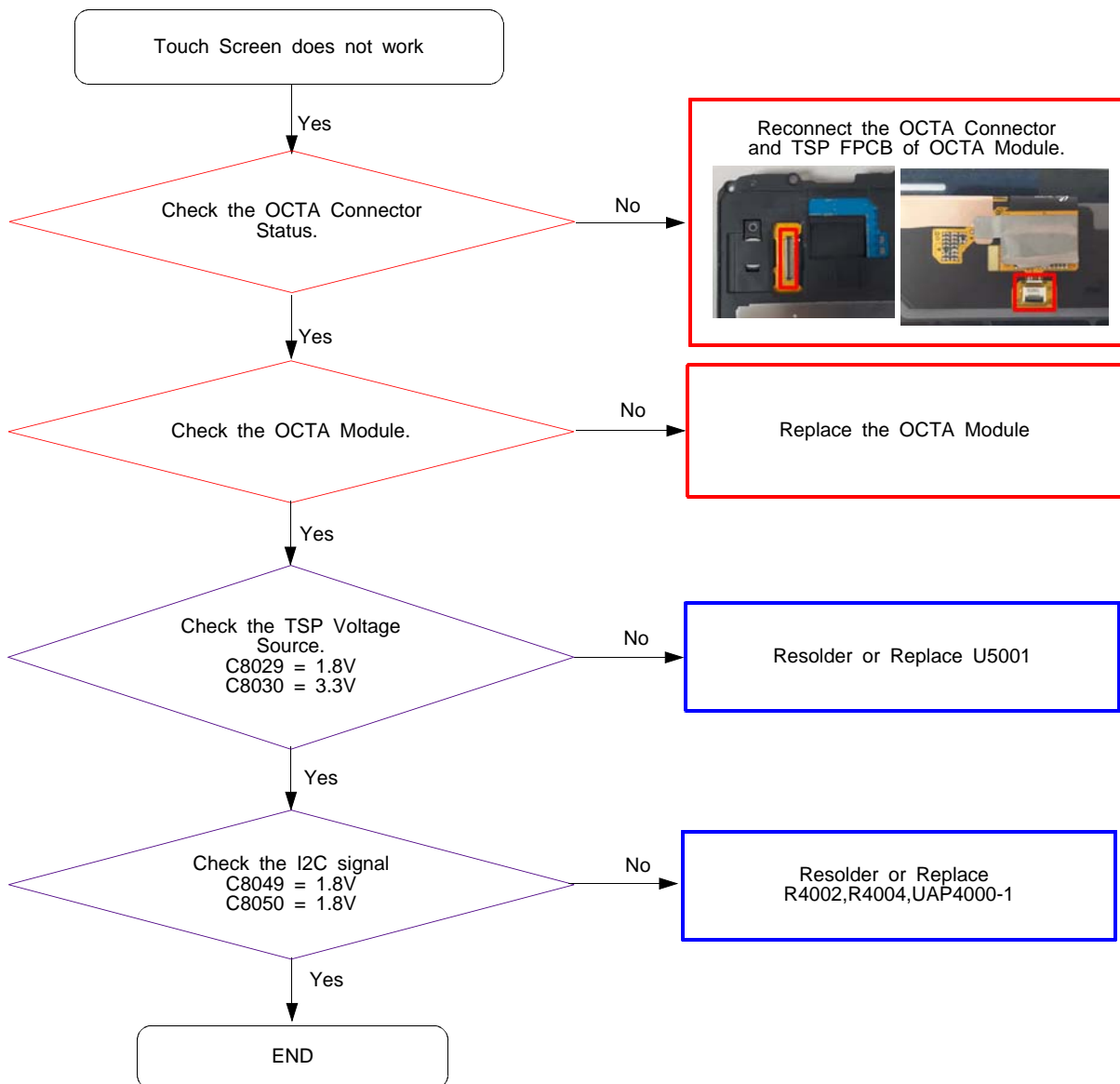


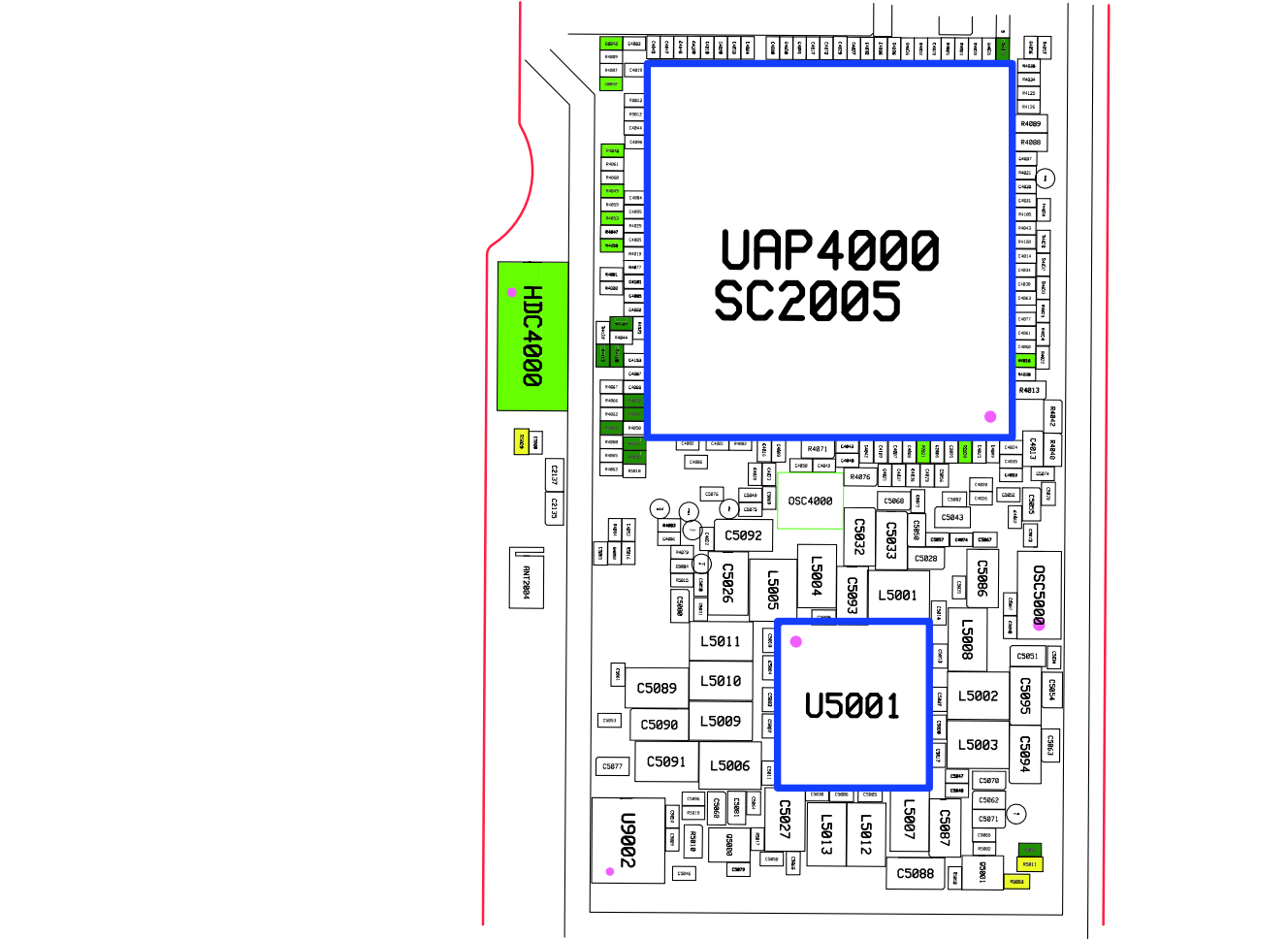
8-4-12. 8M CAM



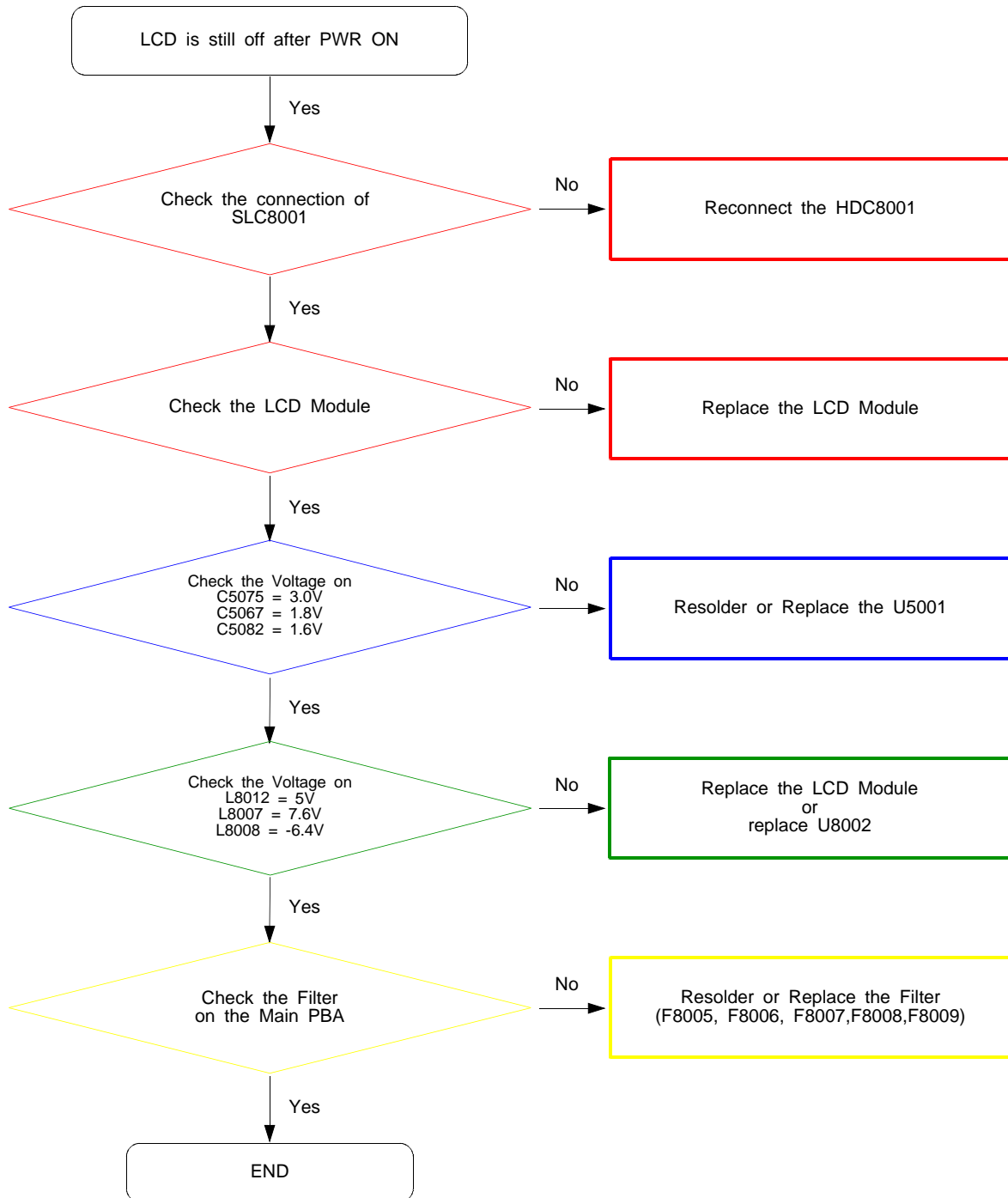


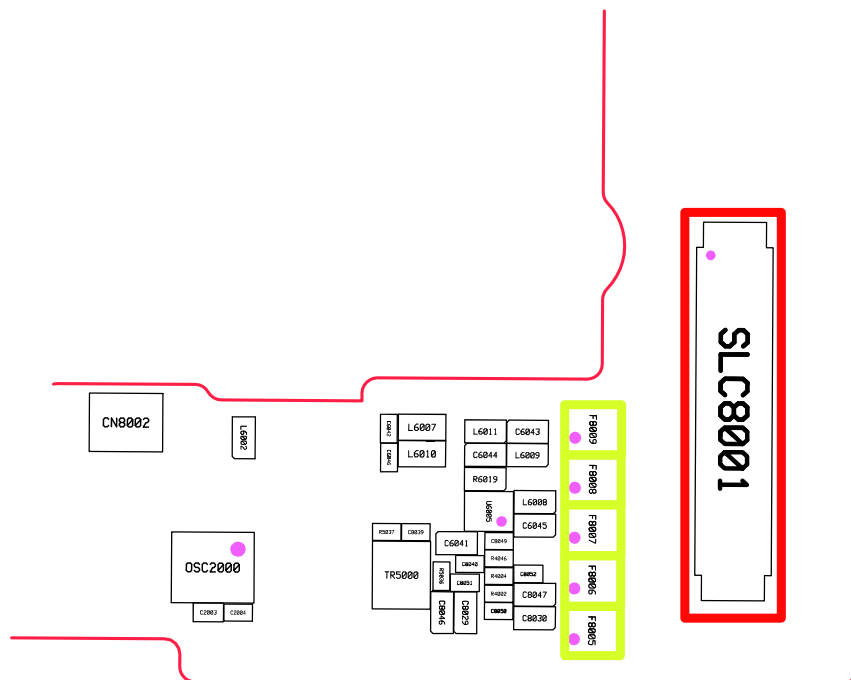
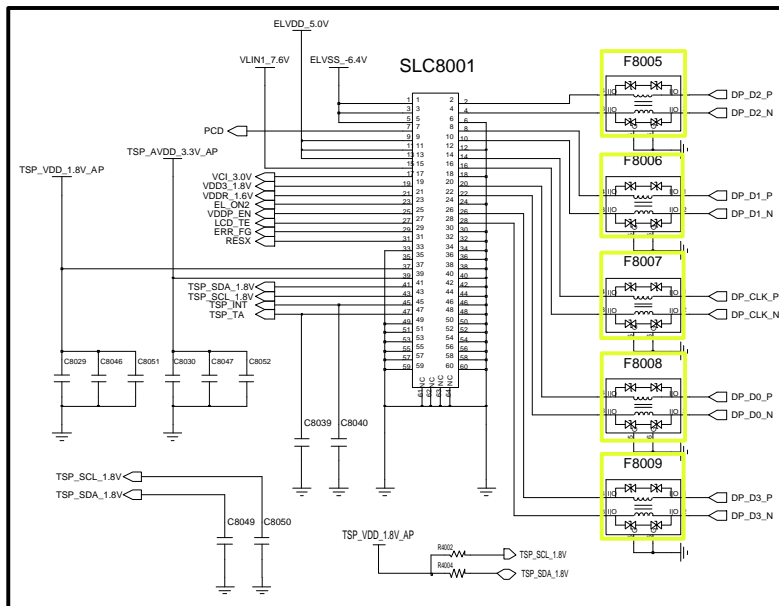
8-4-13. TSP



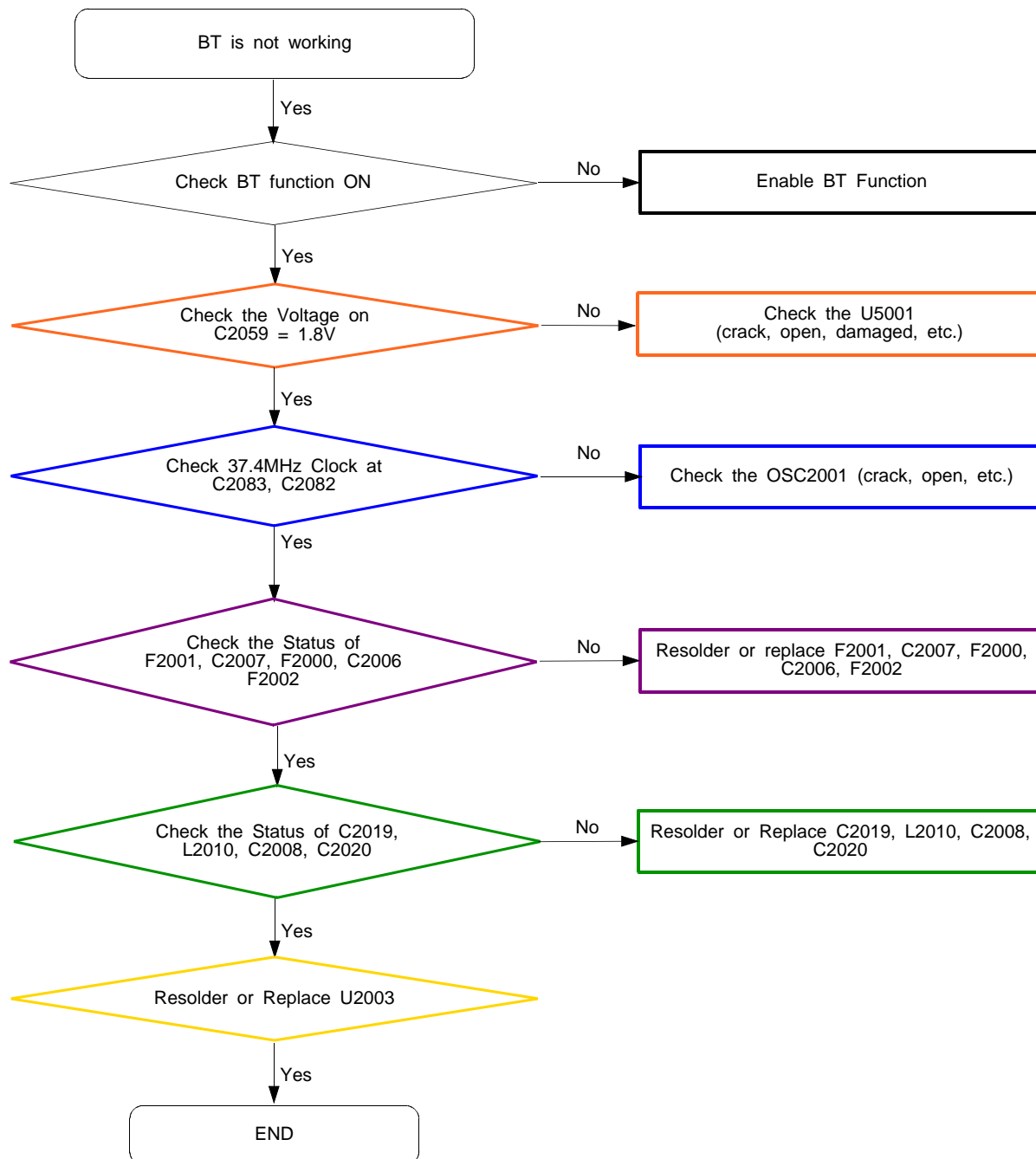


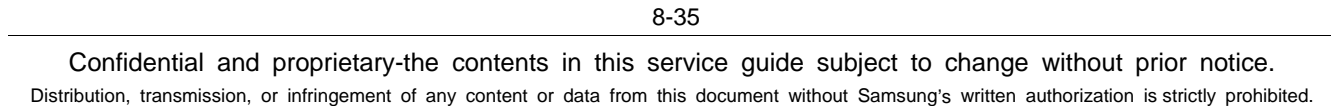
8-4-14. LCD

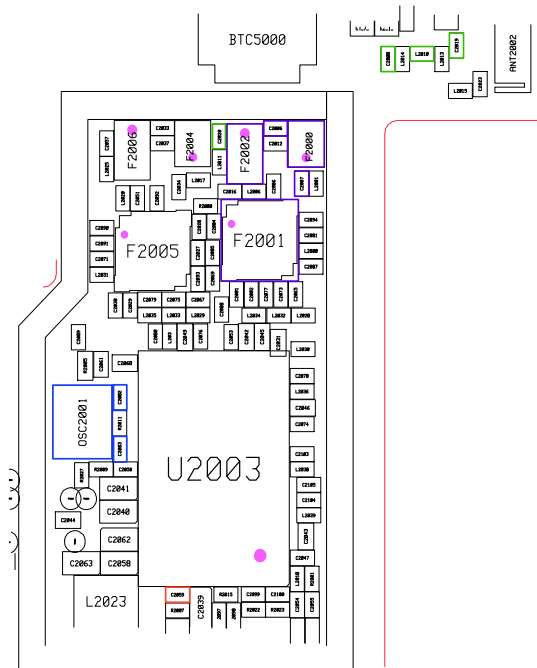
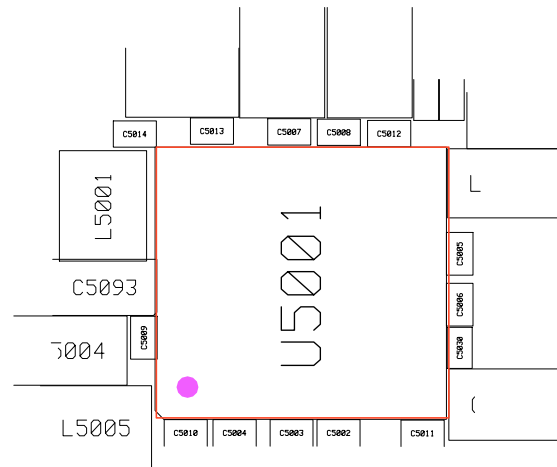




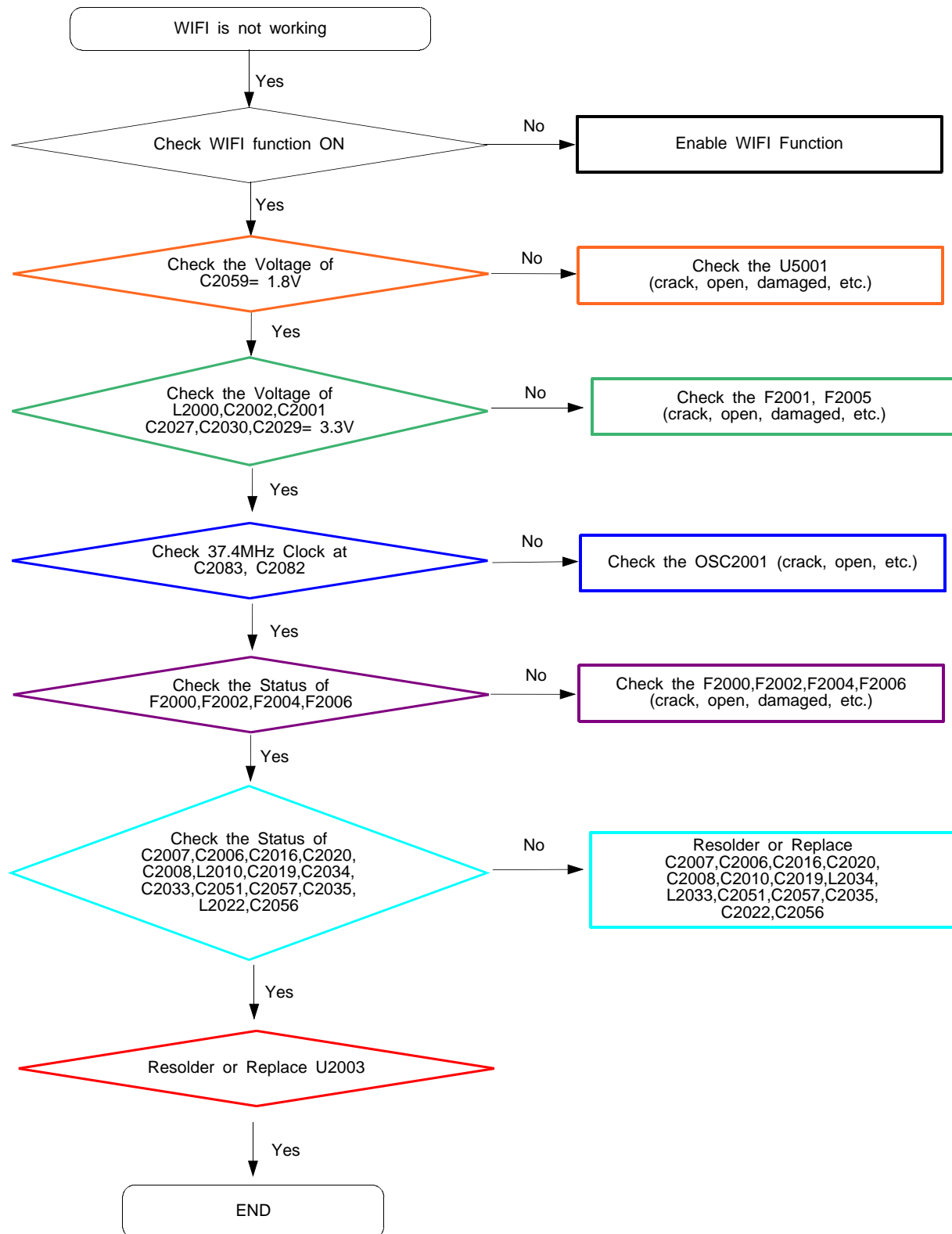
8-4-15. BT Part

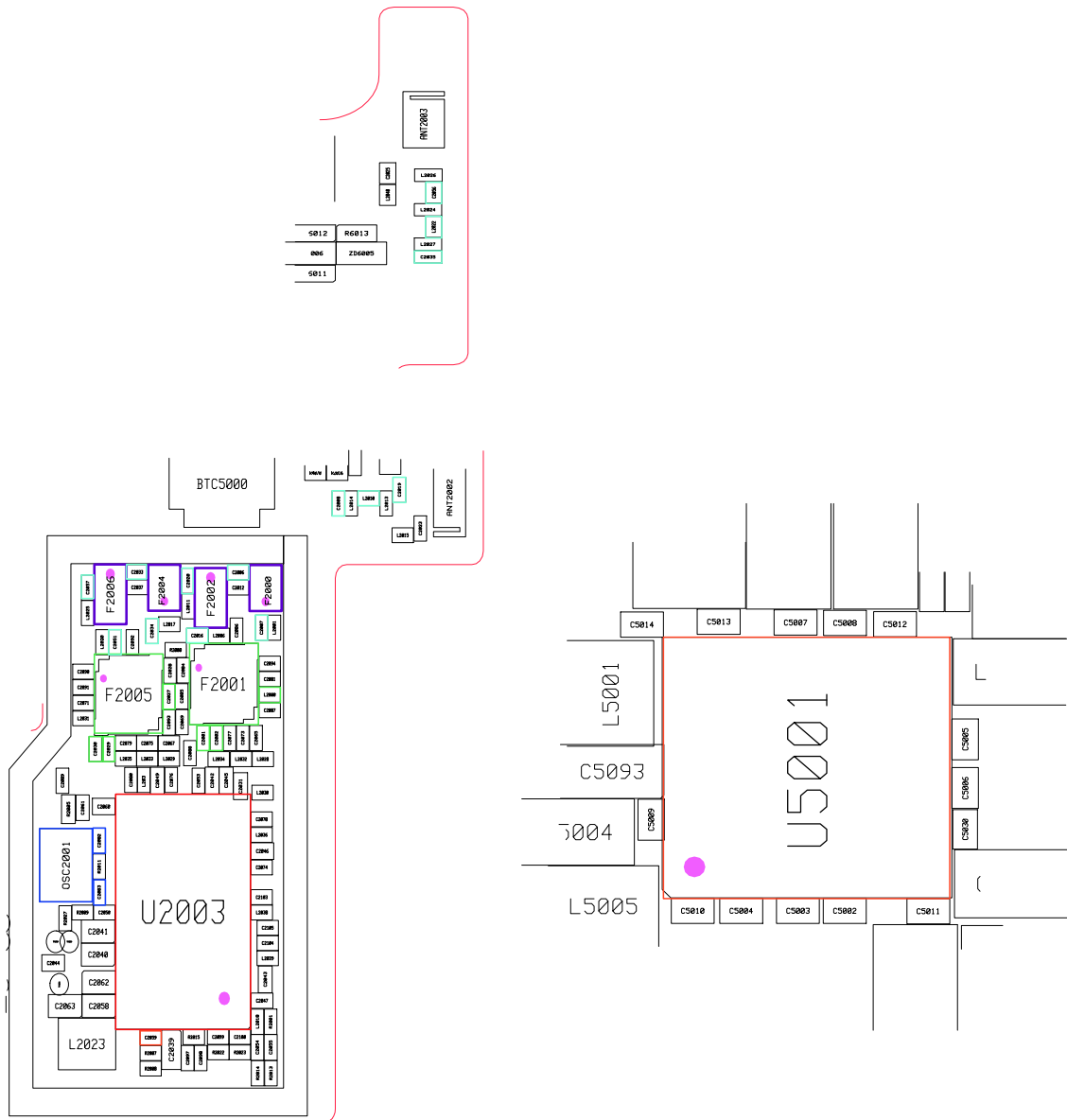




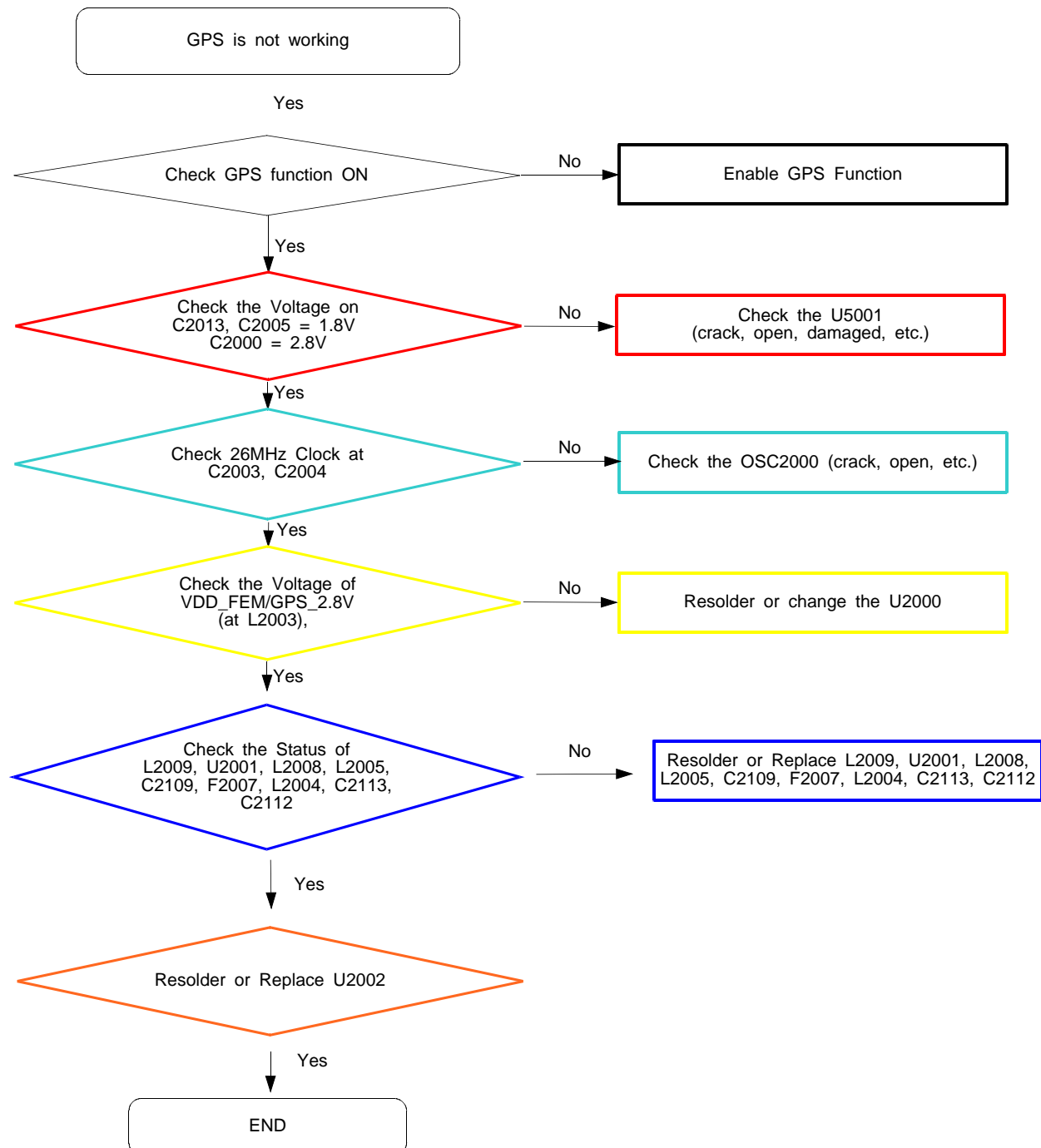


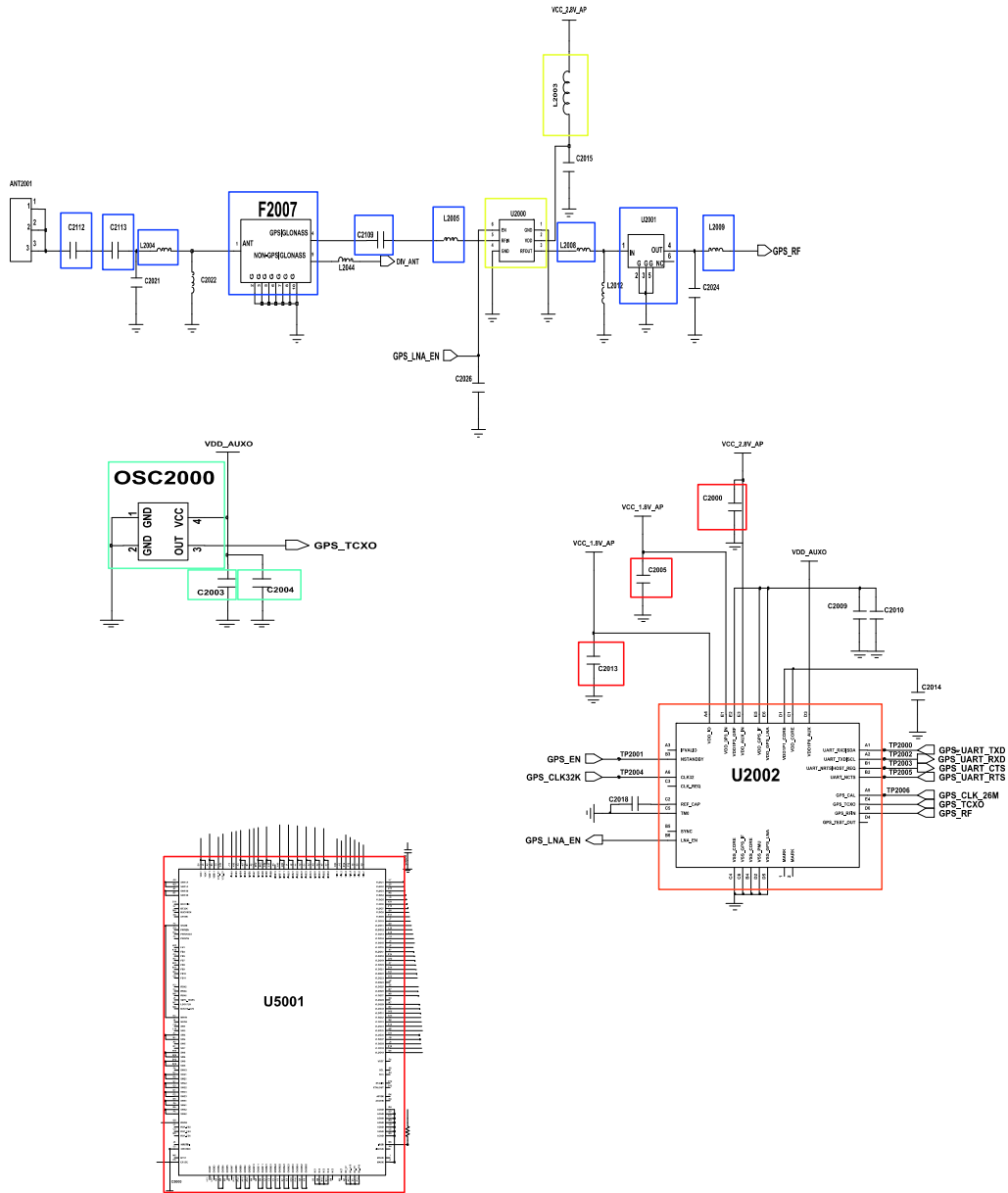
8-4-16. WIFI Part

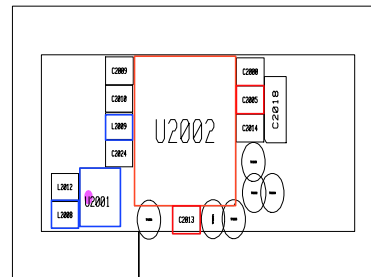
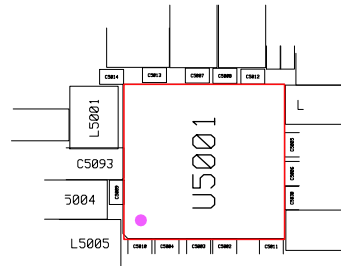




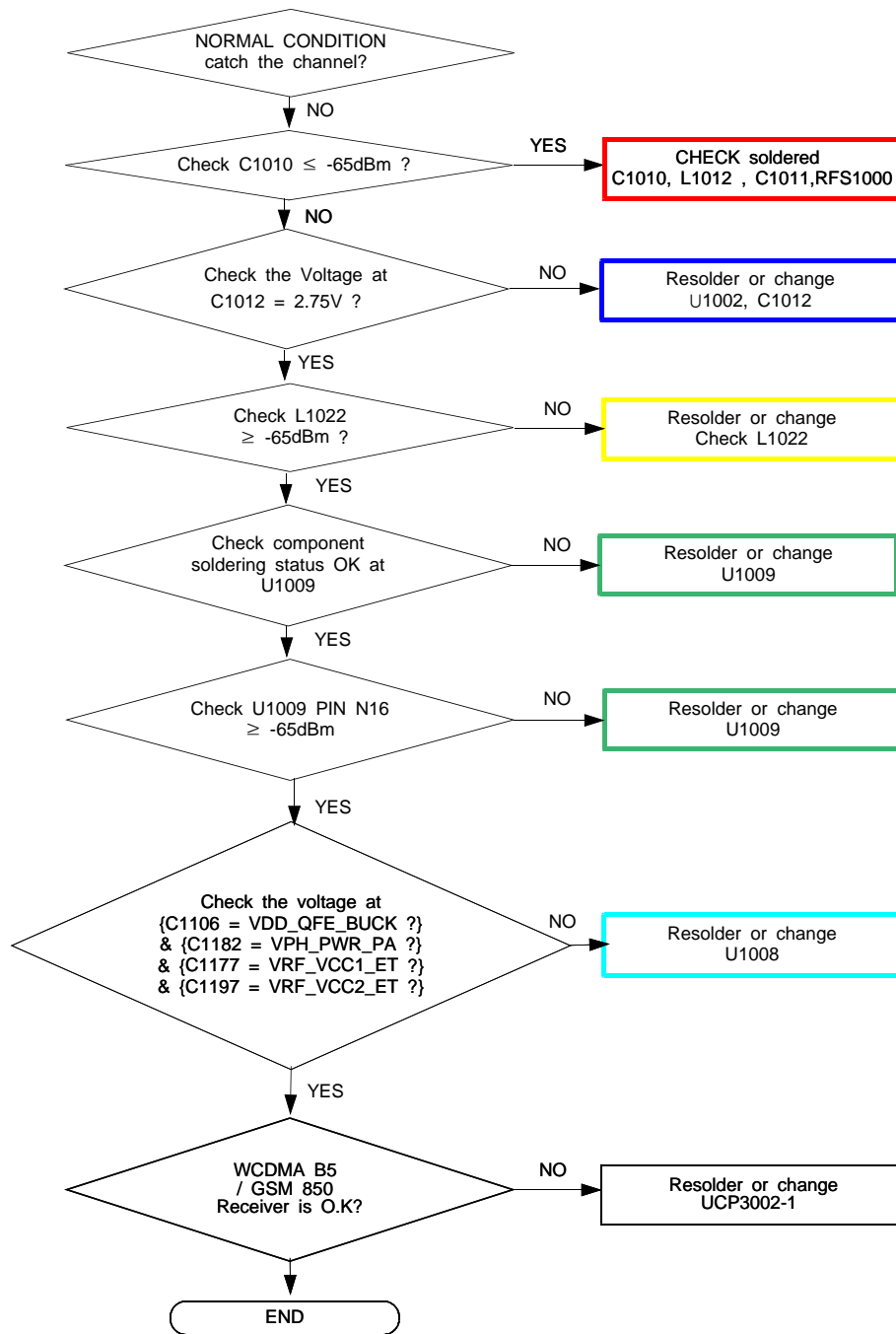
8-4-17. GPS Part



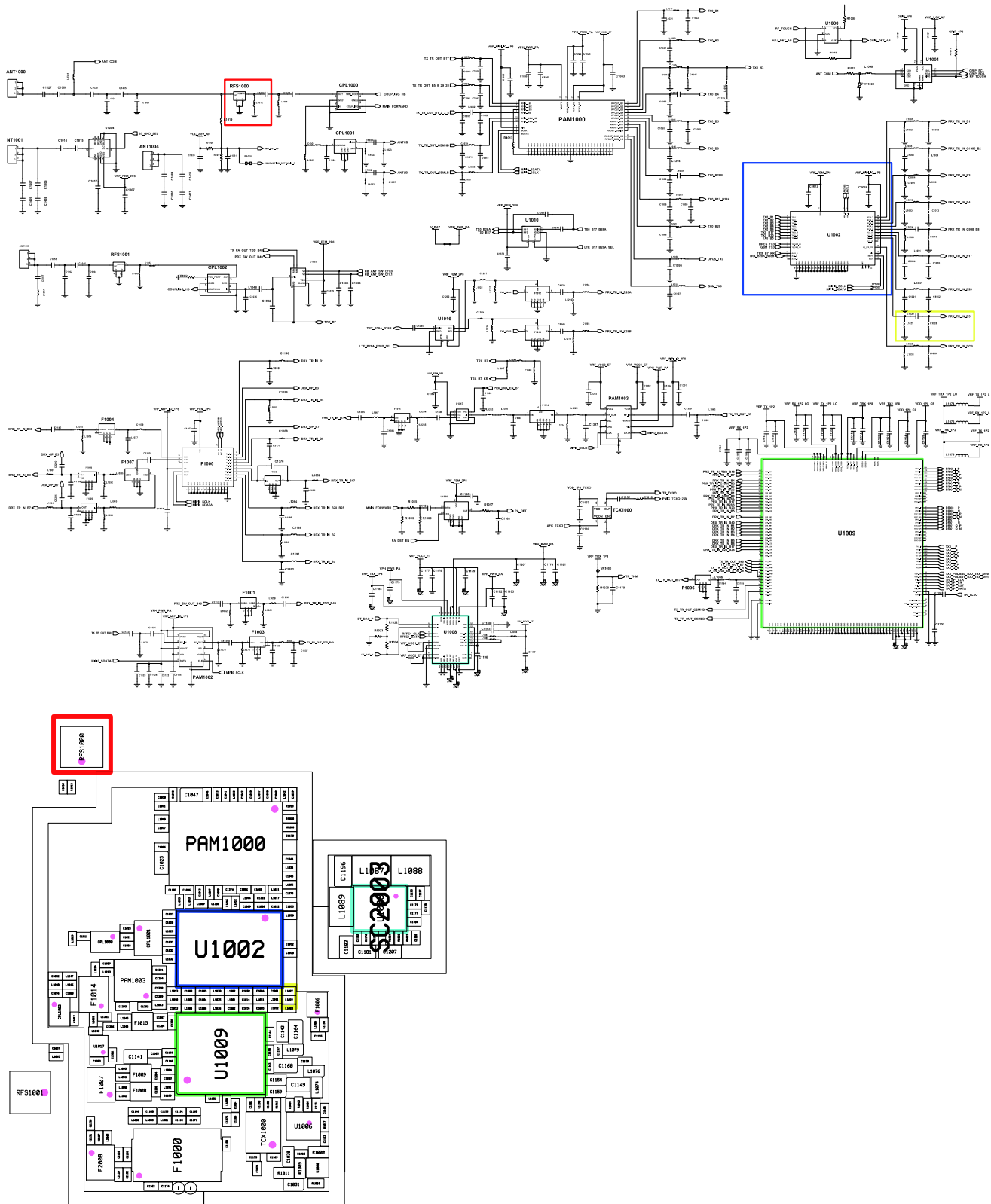




8-4-18. GSM850 / WCDMA B5 / LTE B5 RX

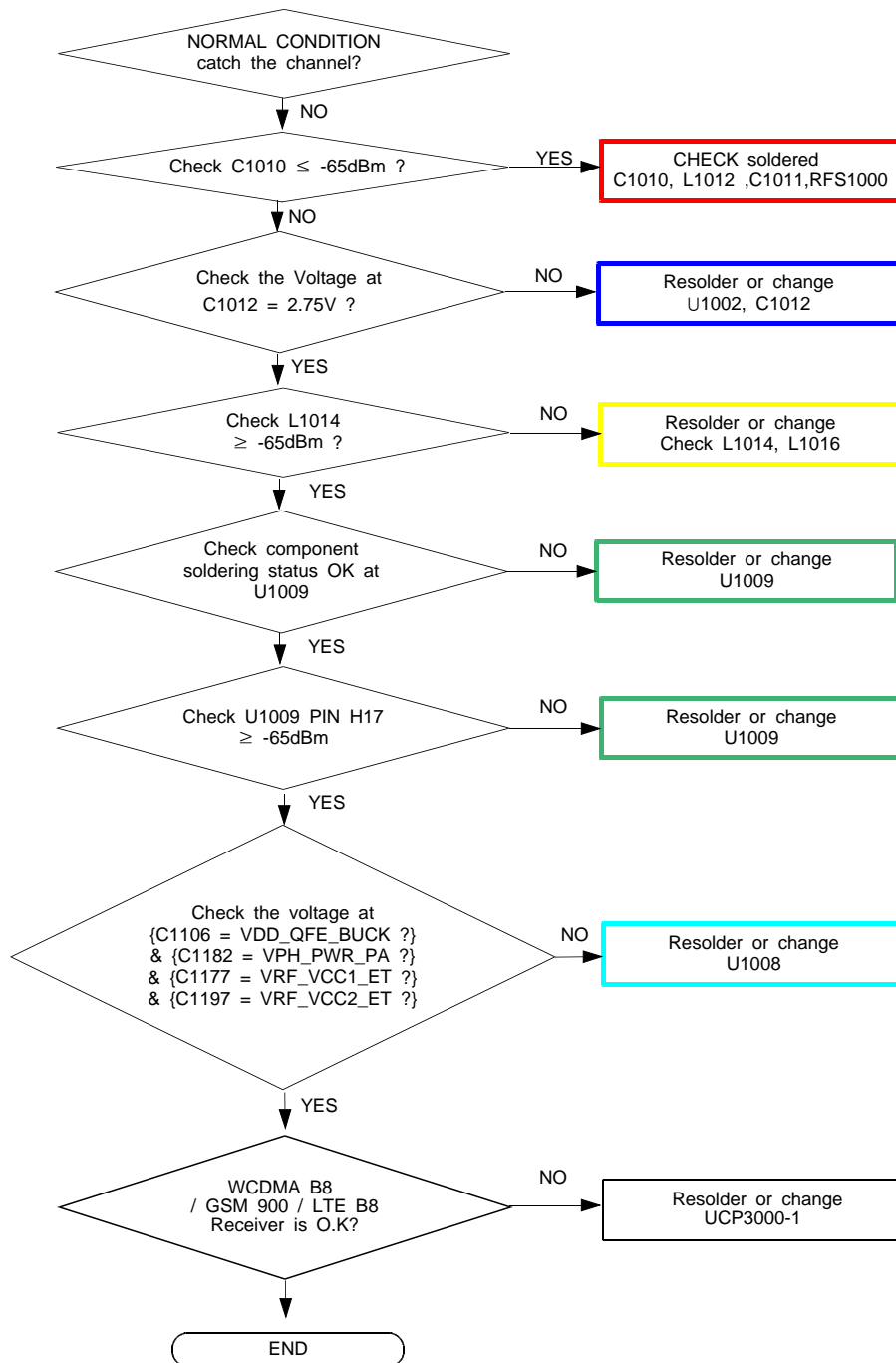


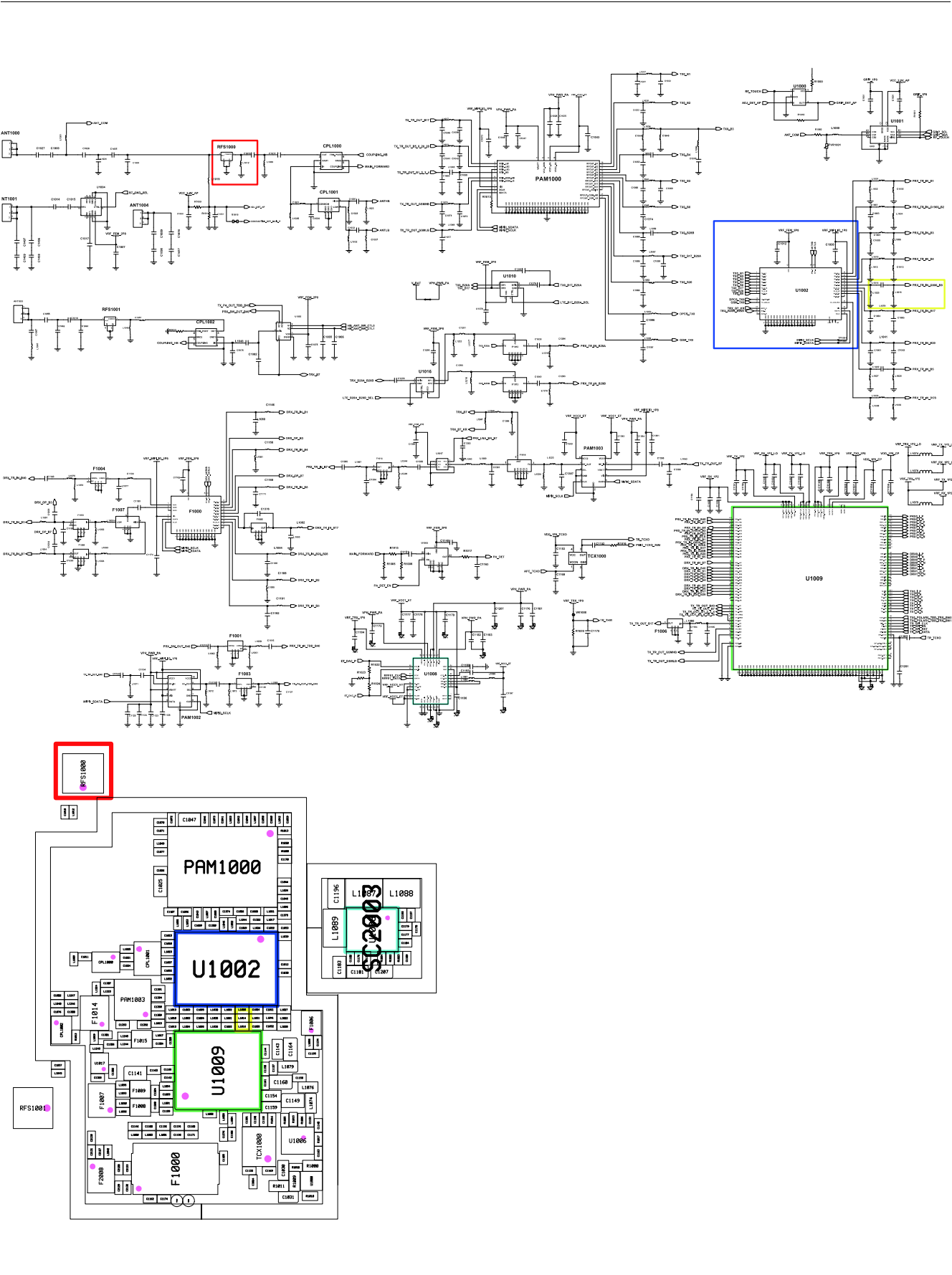
CONTINUO
US RX ON
RF INPUT : 4408CH
AMP : -50dBm



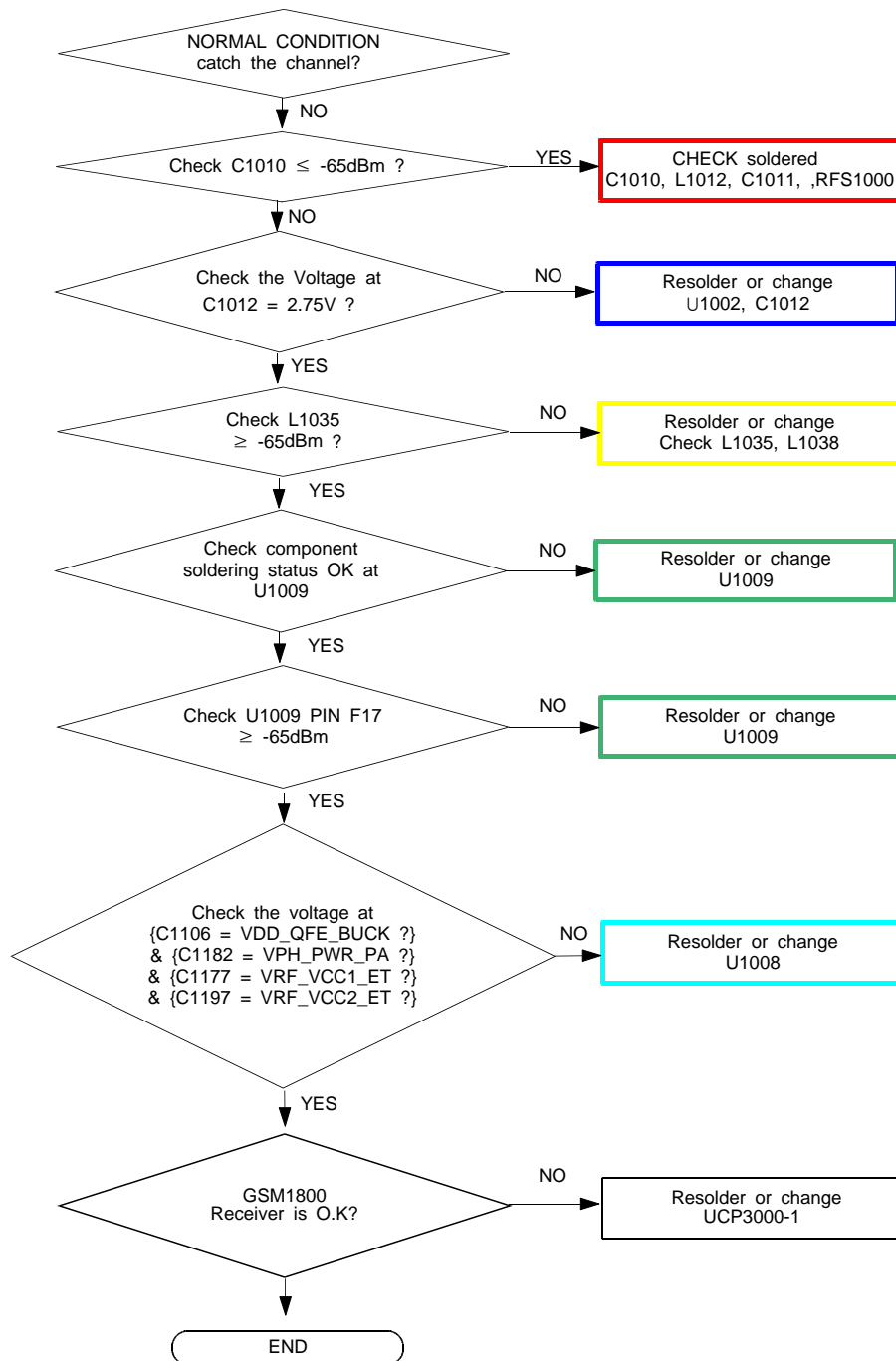
8-3-19. GSM900 / WCDMA B8 / LTE B8 RX

CONTINUOUS RX ON
RF INPUT : 3013CH
AMP : -50dBm



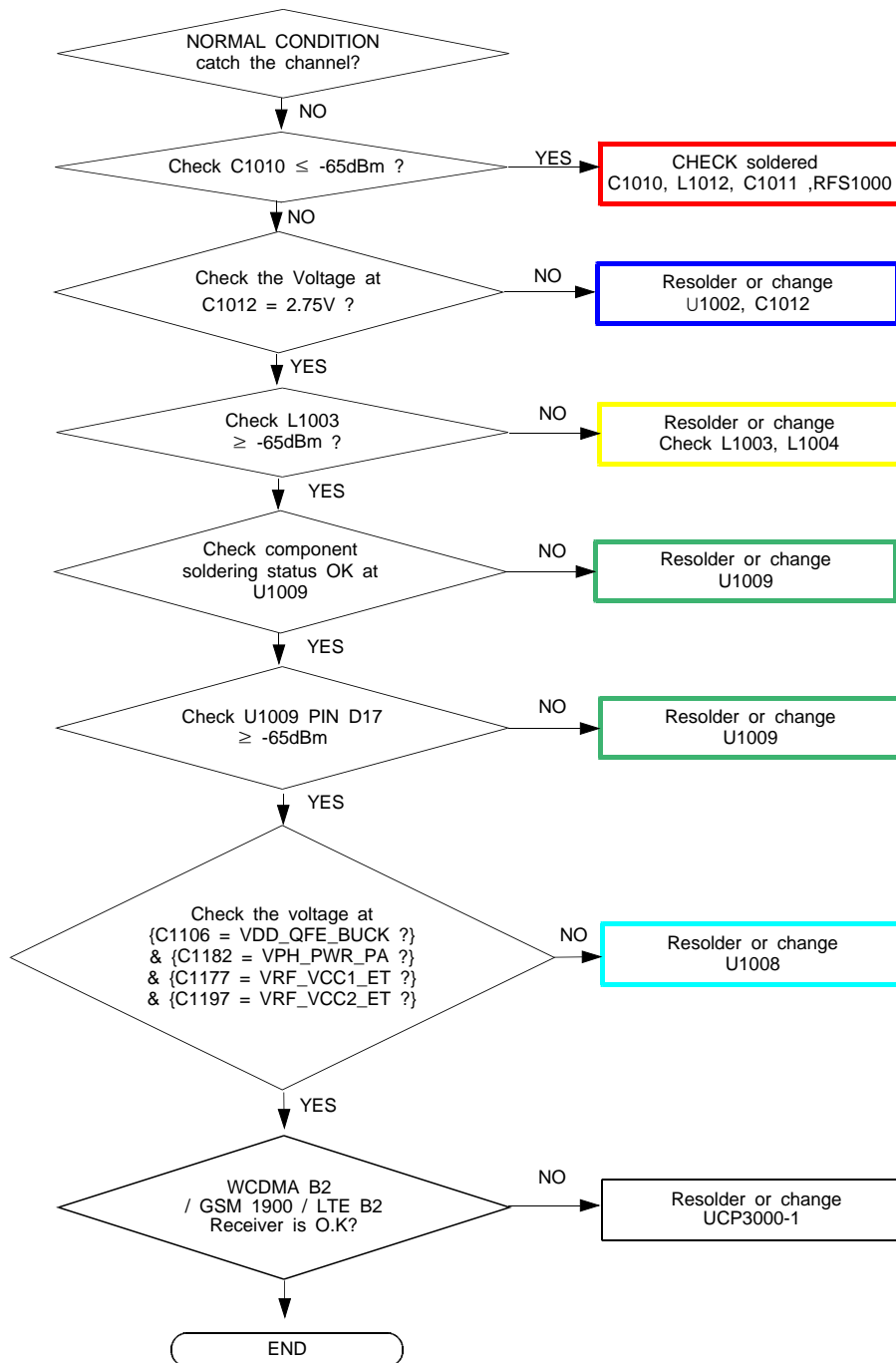


8-3-20. GSM1800 RX

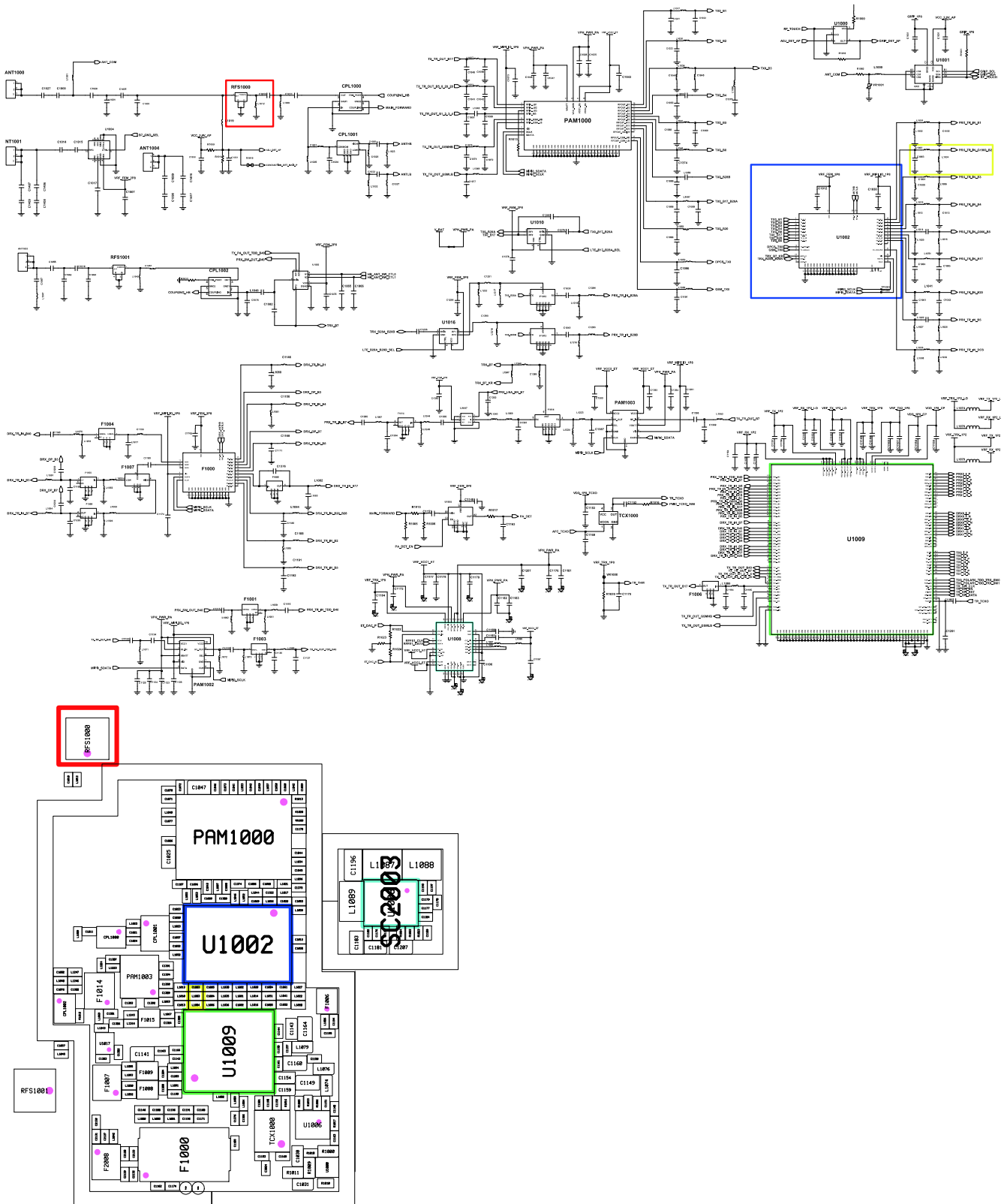


CONTINUOUS RX ON
RF INPUT : 698CH
AMP : -50dBm

8-3-21. GSM1900 / WCDMA B2 / LTE B2 RX

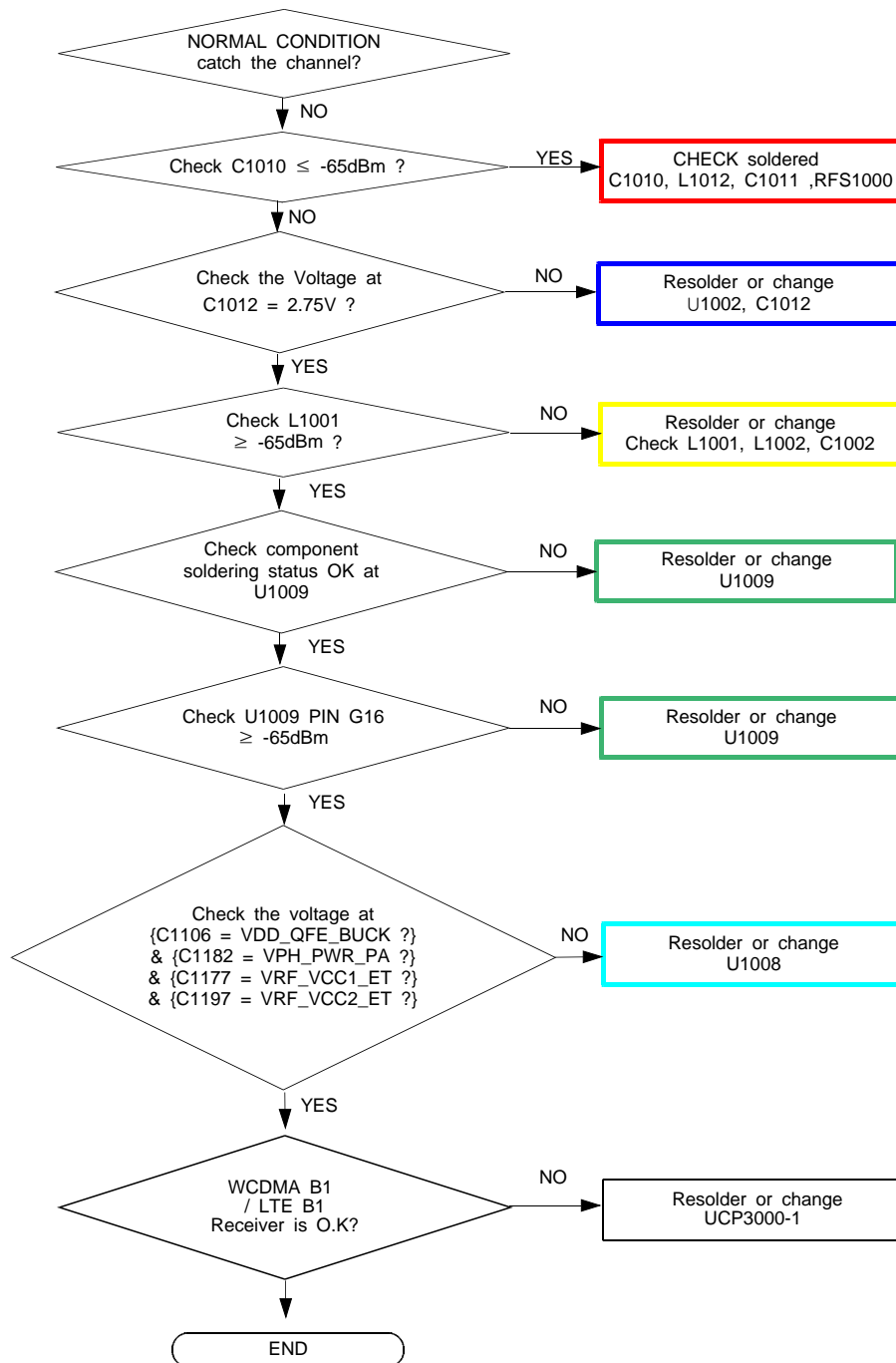


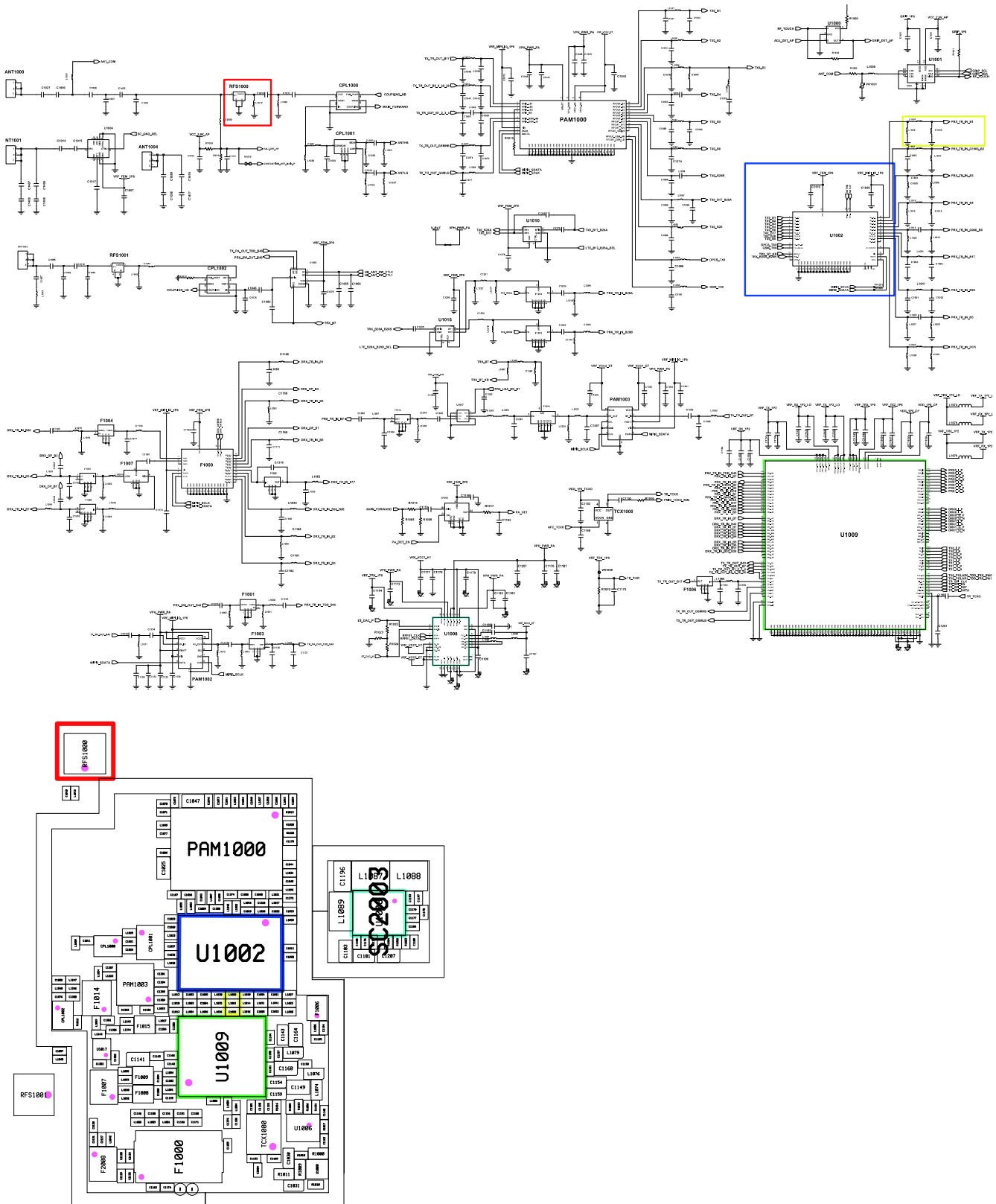
CONTINUOUS RX ON
RF INPUT : 698CH
AMP : -50dBm



8-3-22. WCDMA B1 / LTE B1 RX

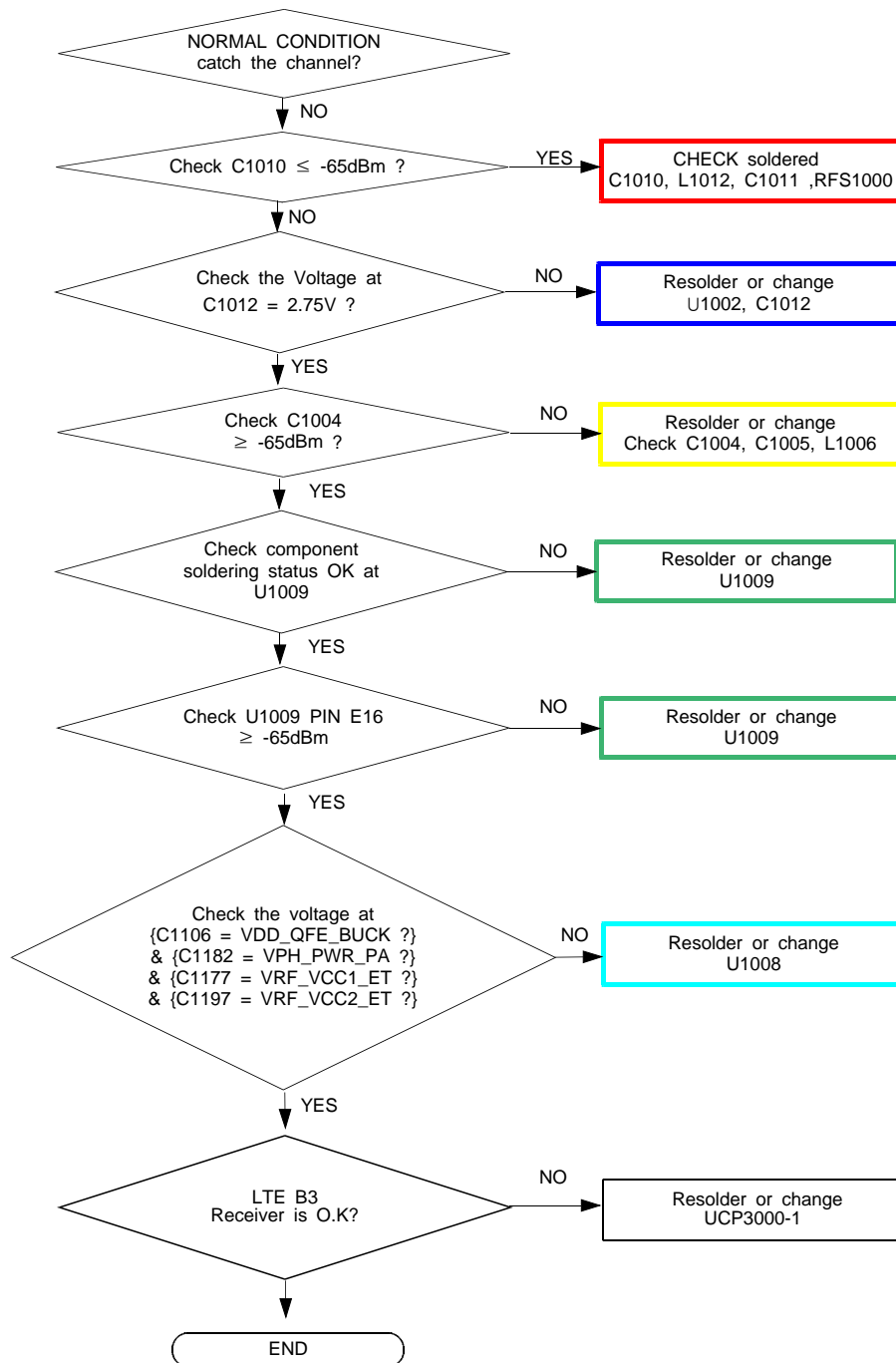
CONTINUOUS RX ON
RF INPUT : 10700CH
AMP : -50dBm

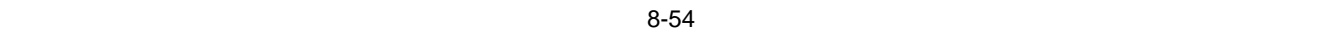




8-3-23. LTE B3 RX

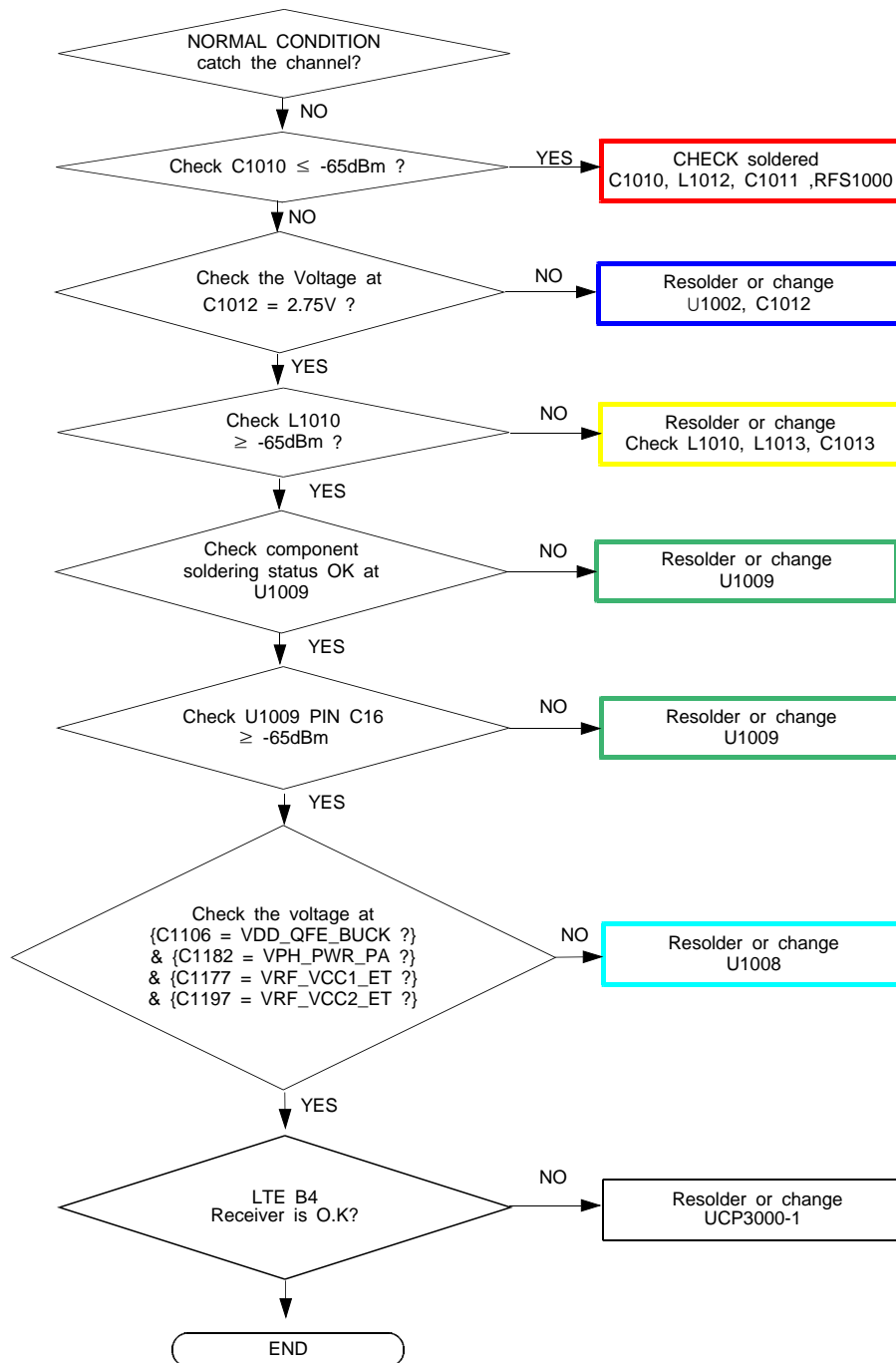
CONTINUOUS RX ON
RF INPUT : 1575CH
AMP : -50dBm



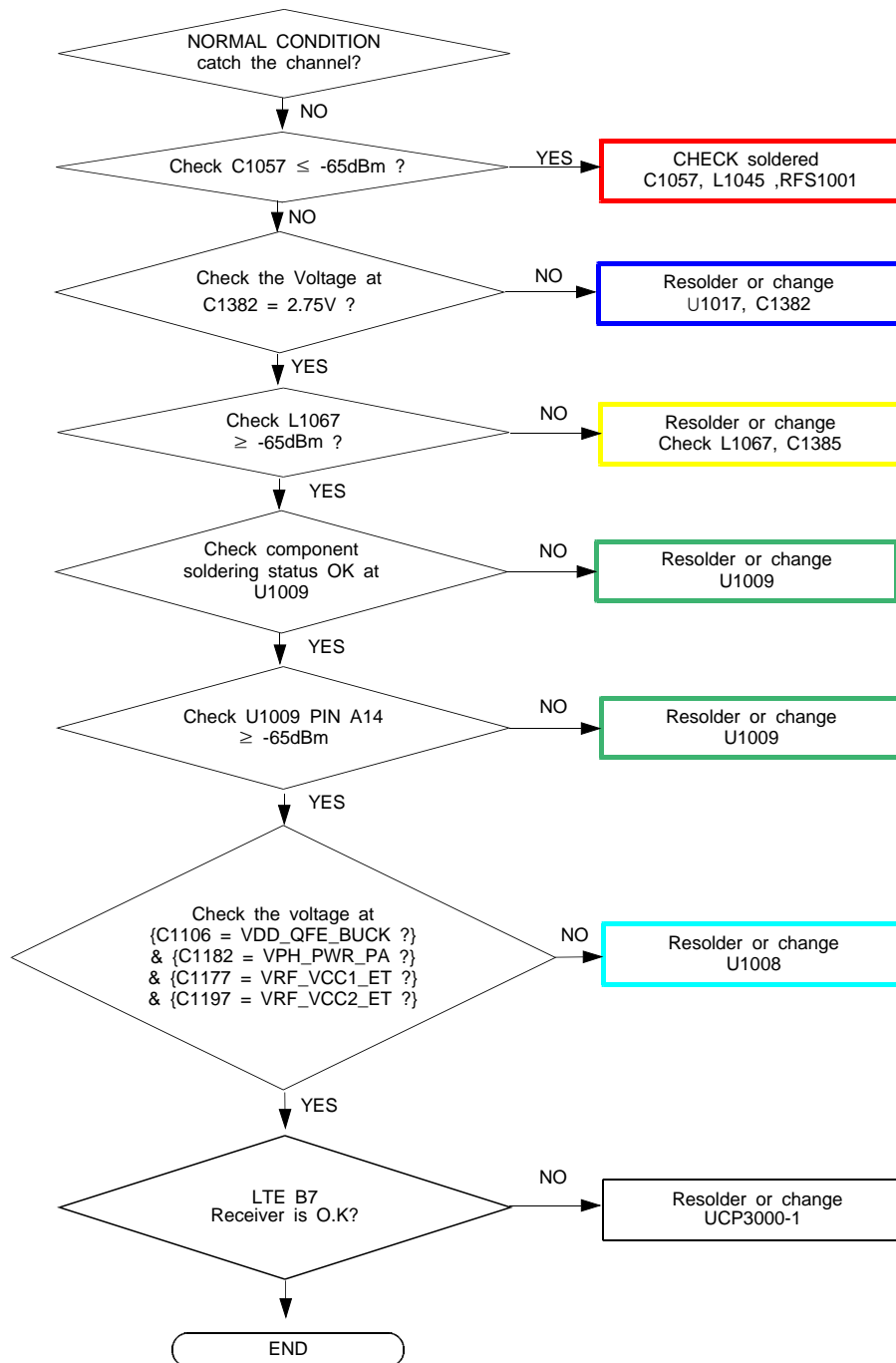


8-3-24. LTE B4 RX

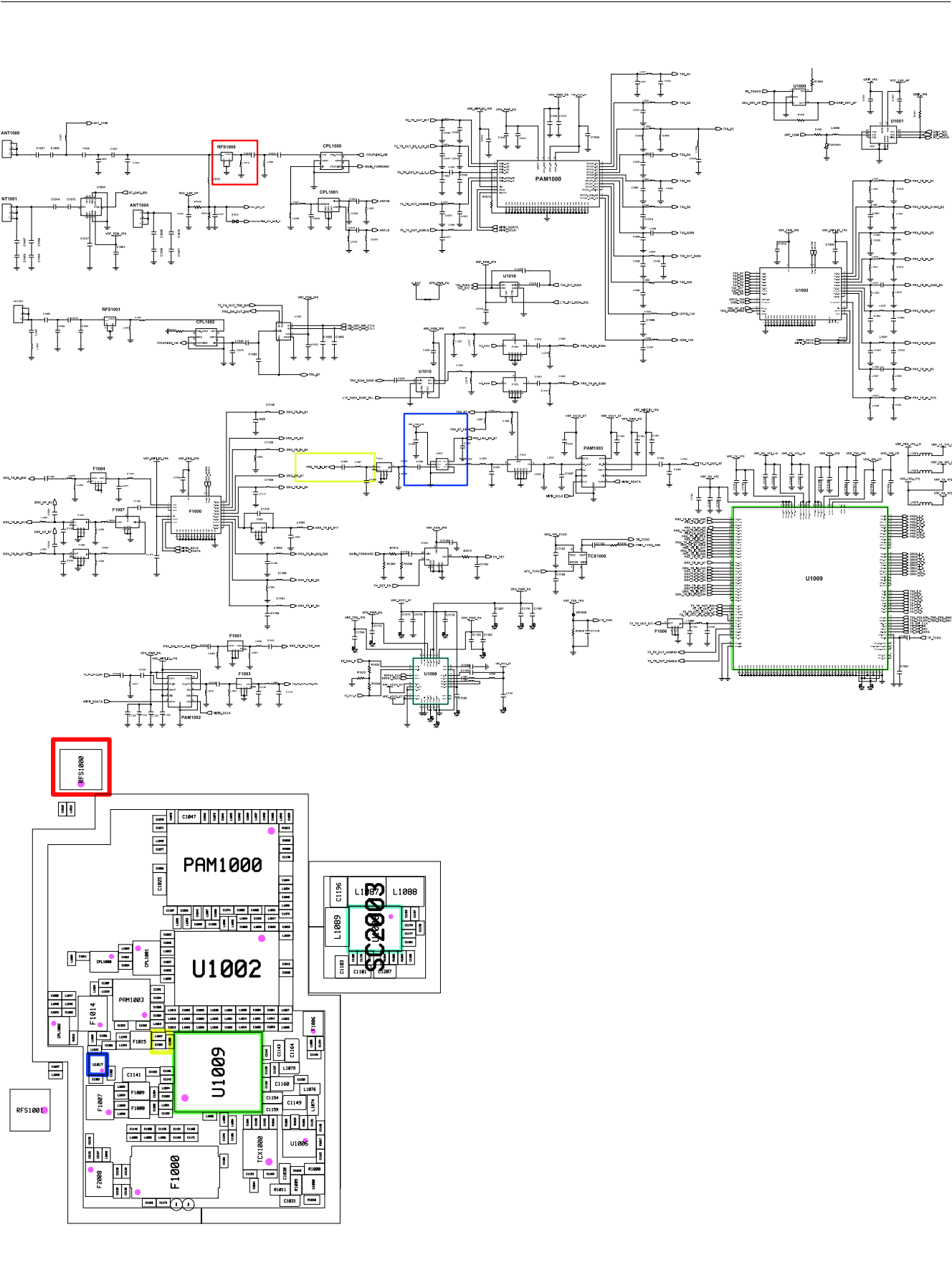
CONTINUOUS RX ON
RF INPUT : 2175CH
AMP : -50dBm



8-3-25. LTE B7 RX

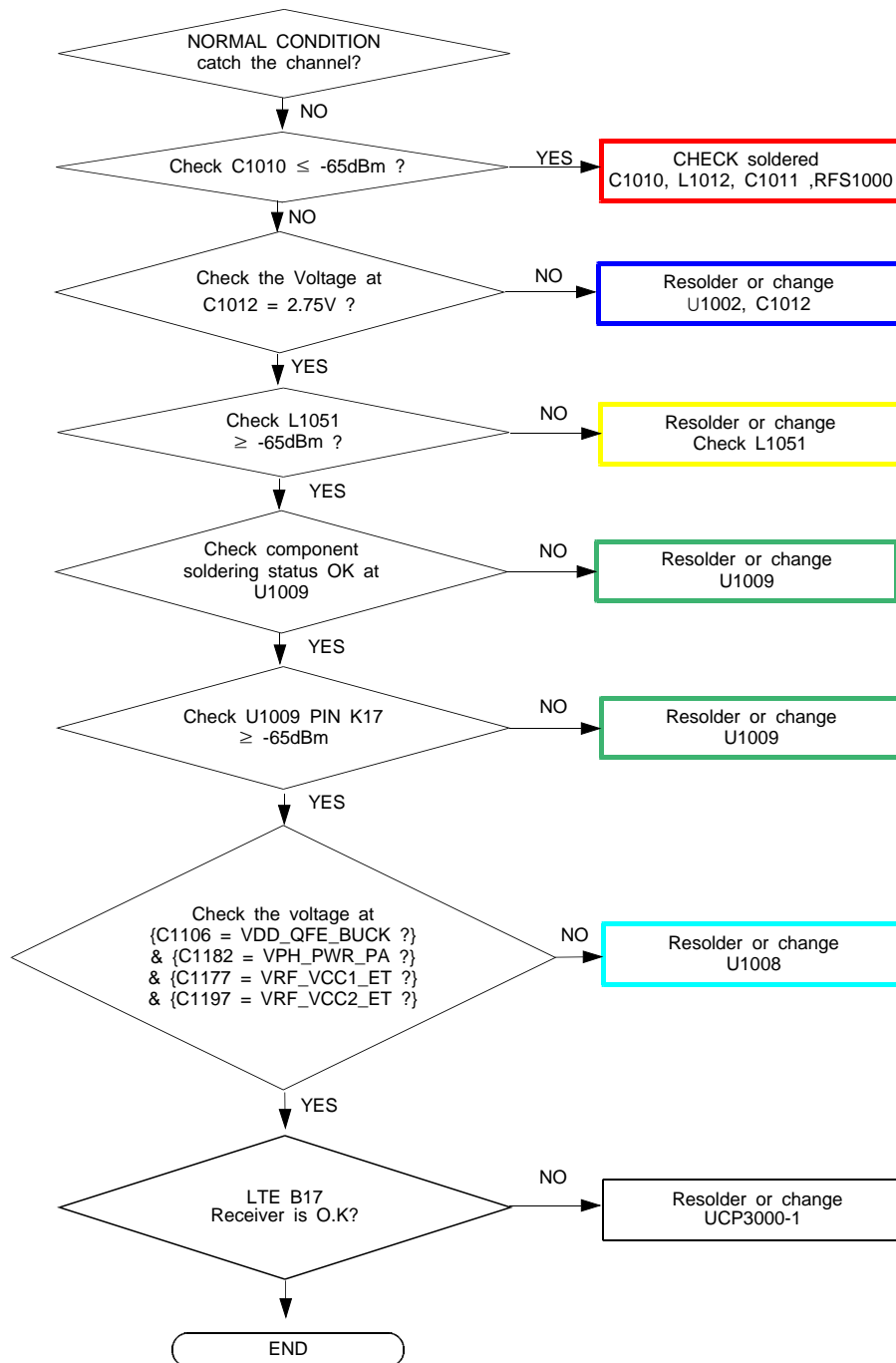


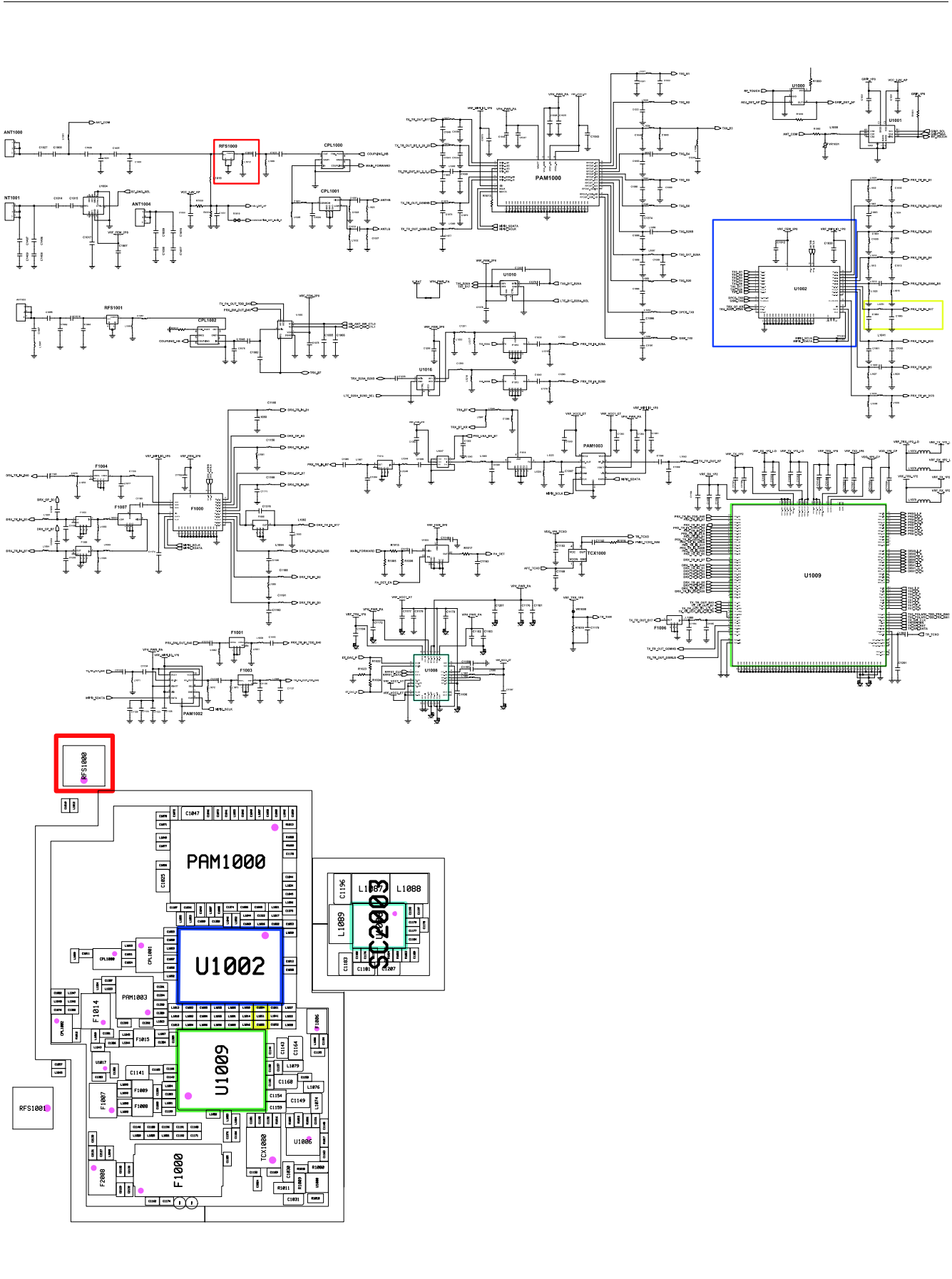
CONTINUOUS RX ON
RF INPUT : 3100CH
AMP : -50dBm



8-3-26. LTE B17 RX

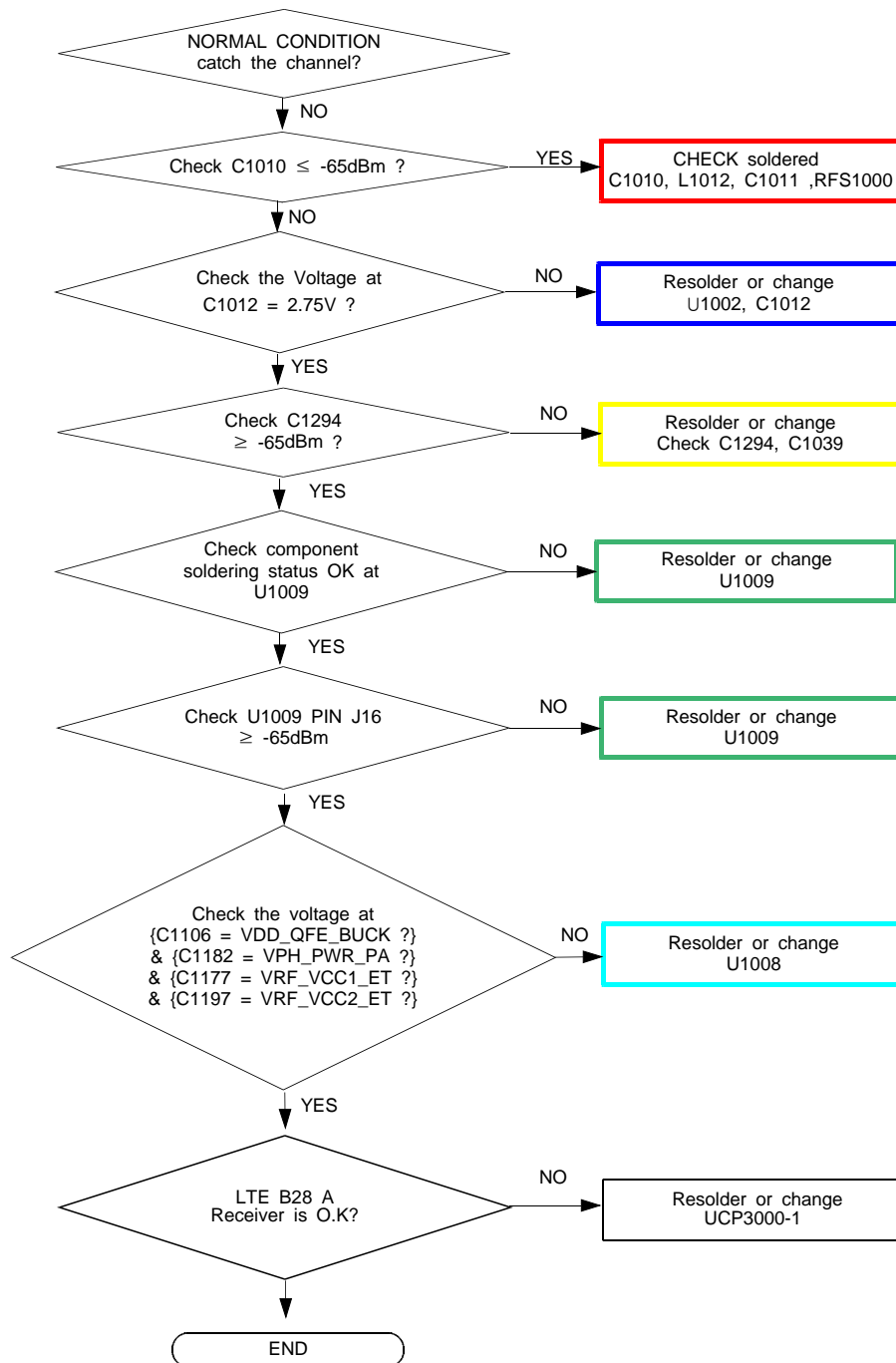
CONTINUOUS RX ON
RF INPUT : 5790CH
AMP : -50dBm

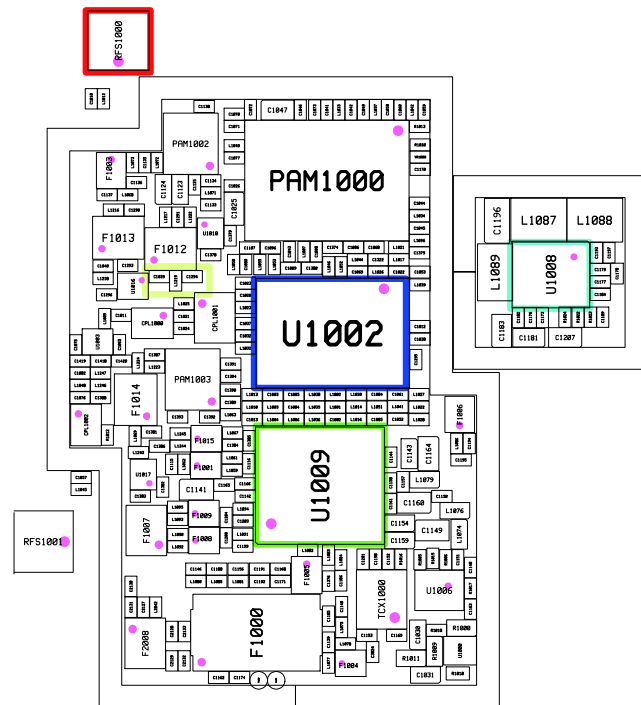
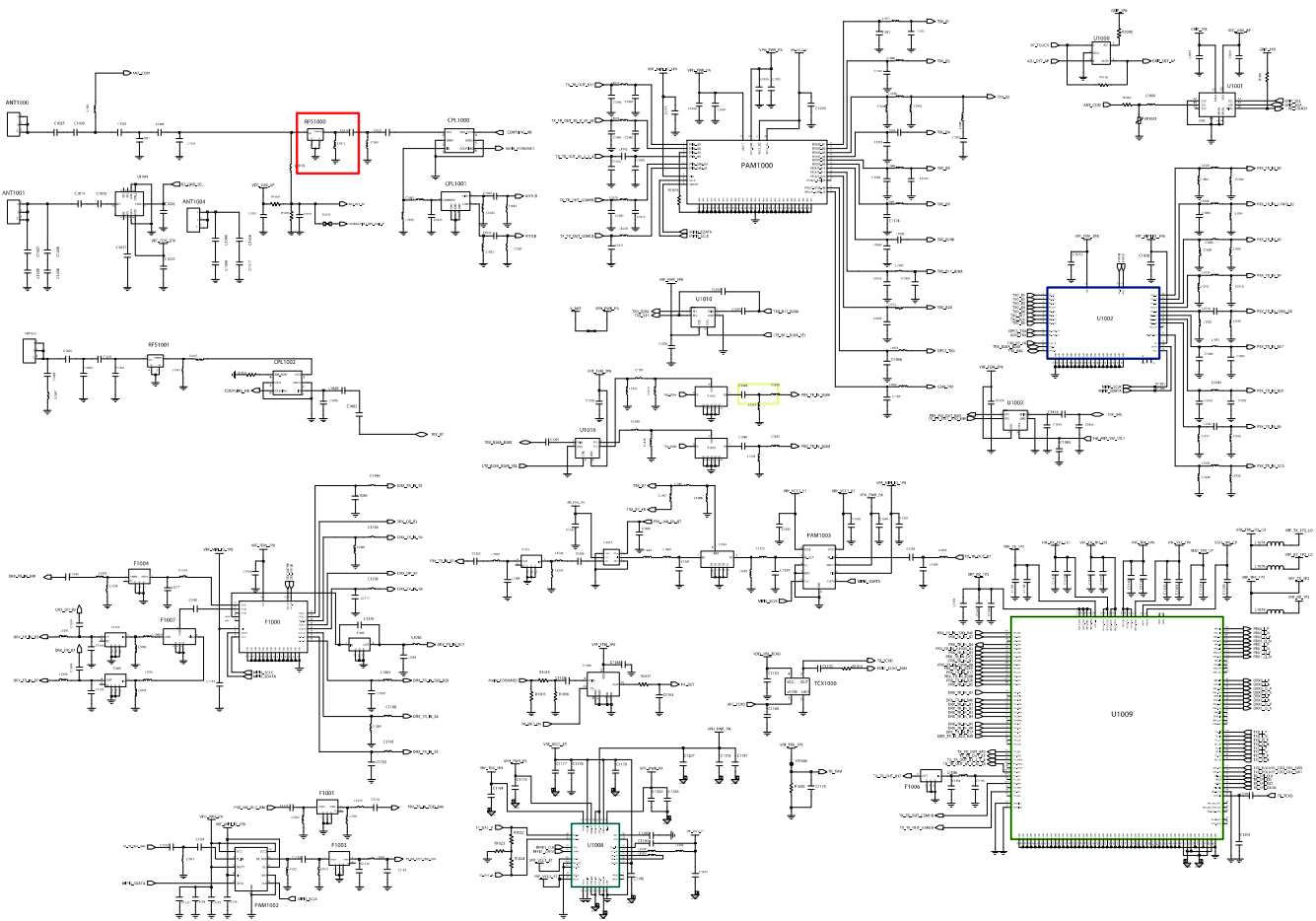




8-3-27. LTE B28 A RX

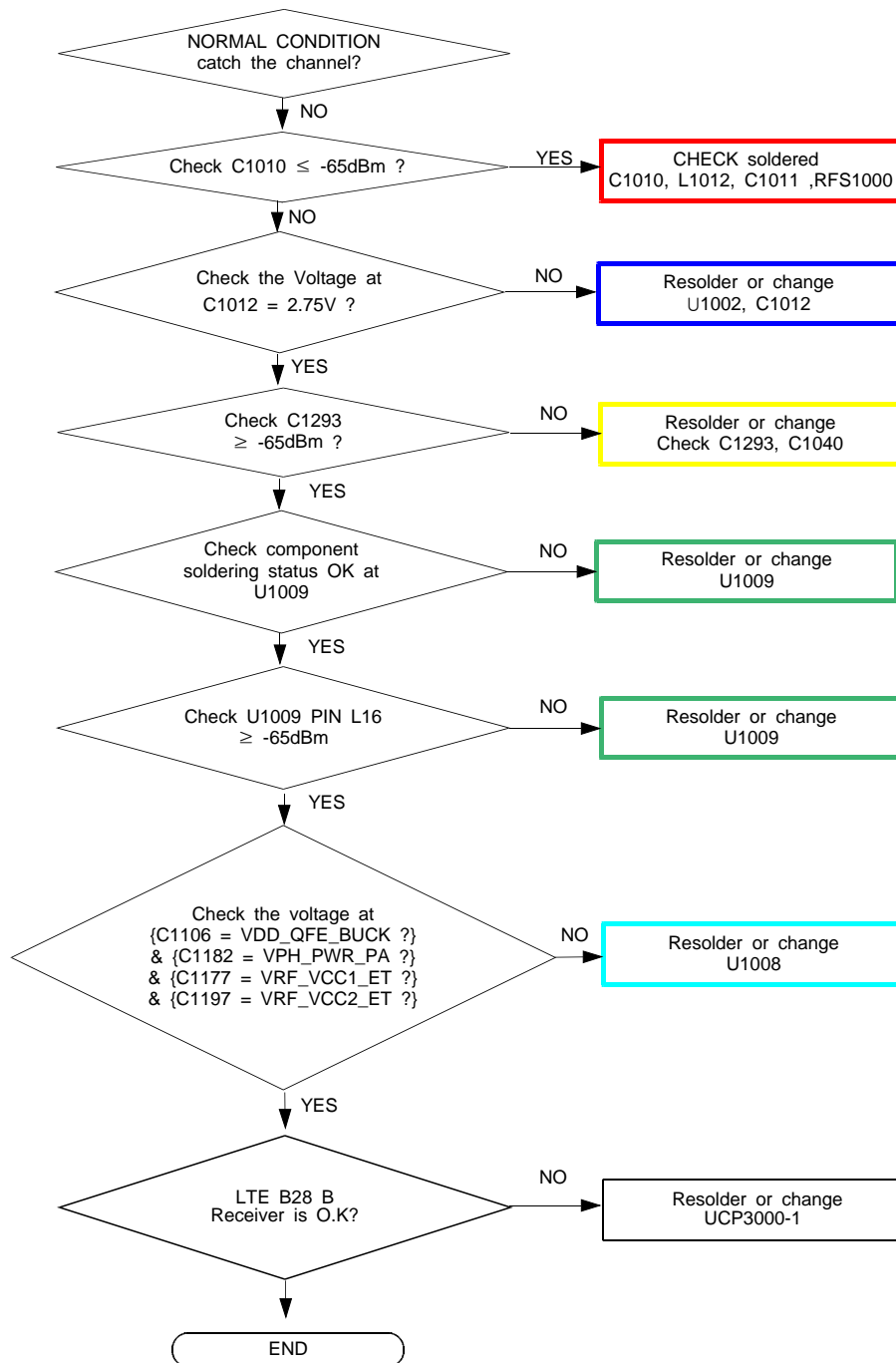
CONTINUOUS RX ON
RF INPUT : 9360CH
AMP : -50dBm

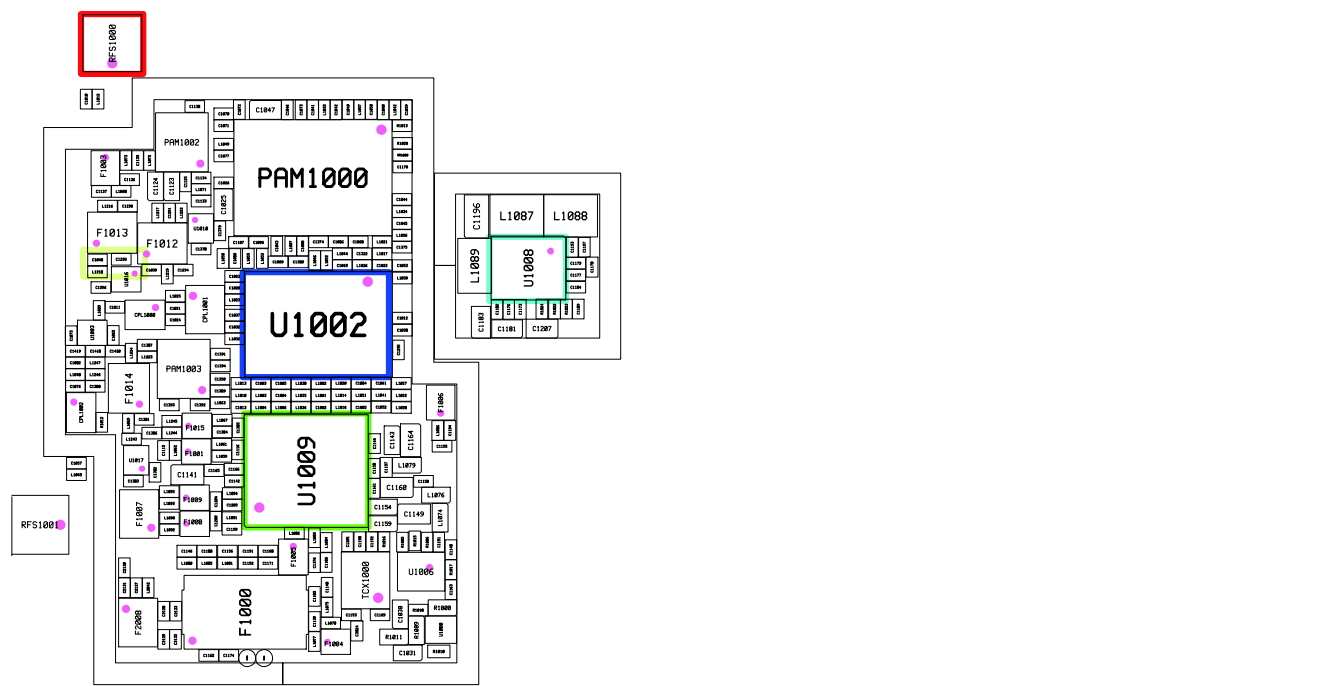




8-3-28. LTE B28 B RX

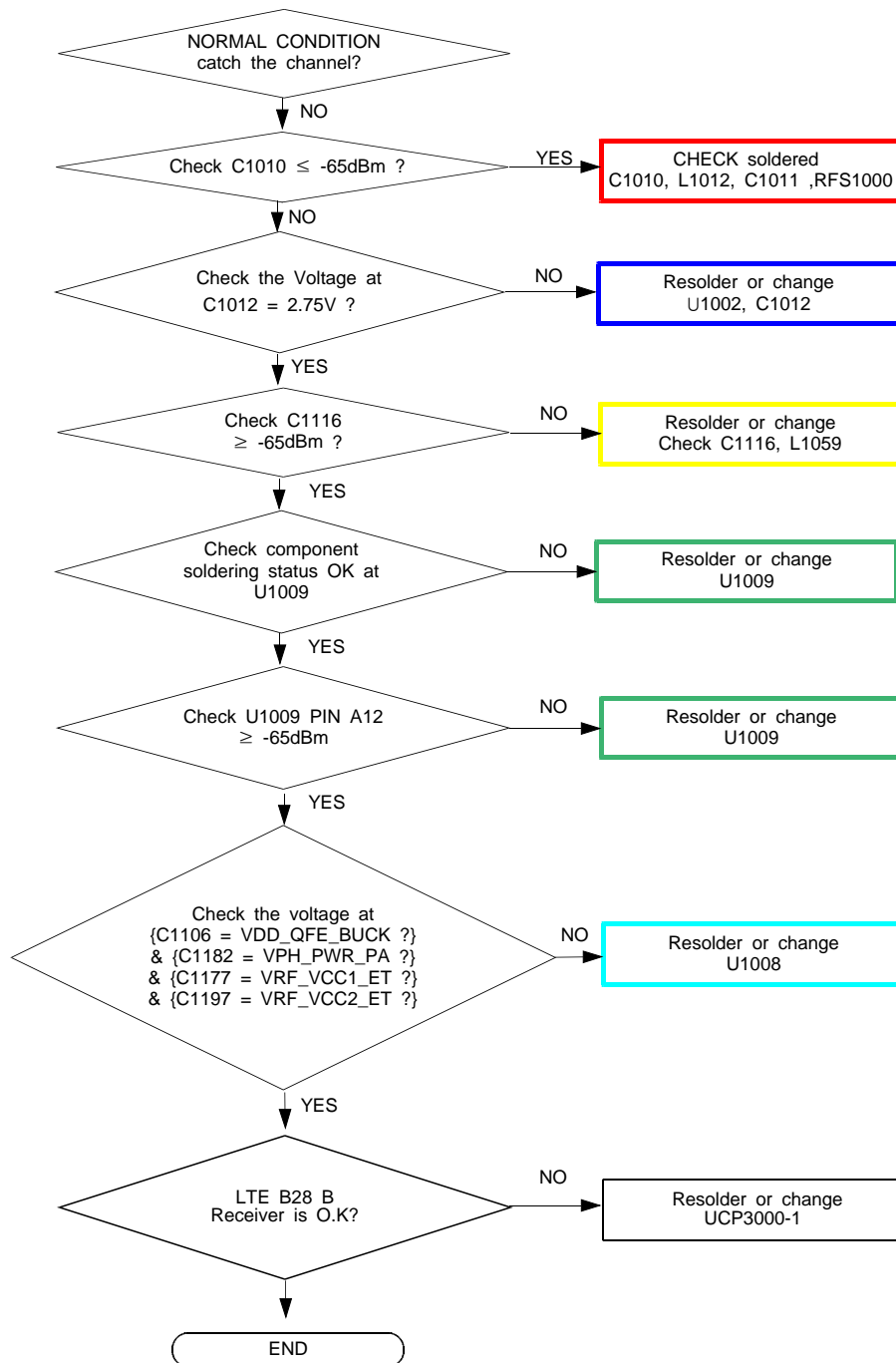
CONTINUOUS RX ON
RF INPUT : 9510CH
AMP : -50dBm

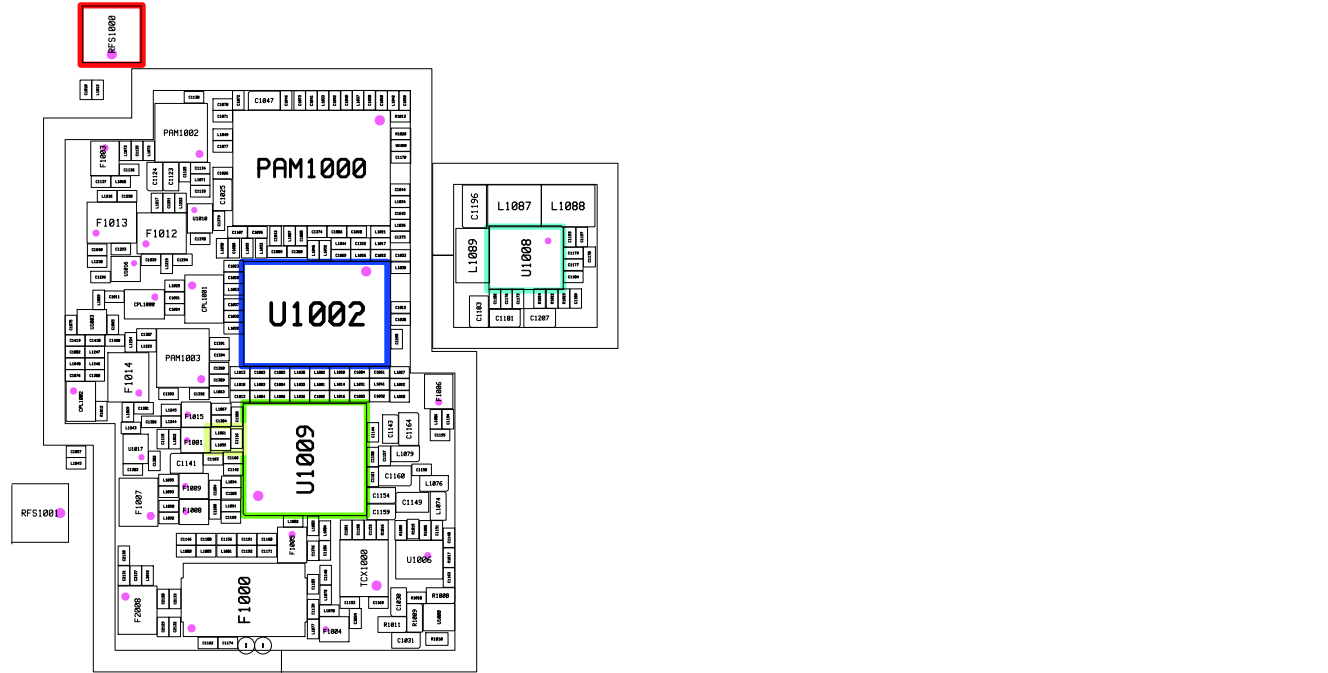




8-3-29. LTE B40 RX

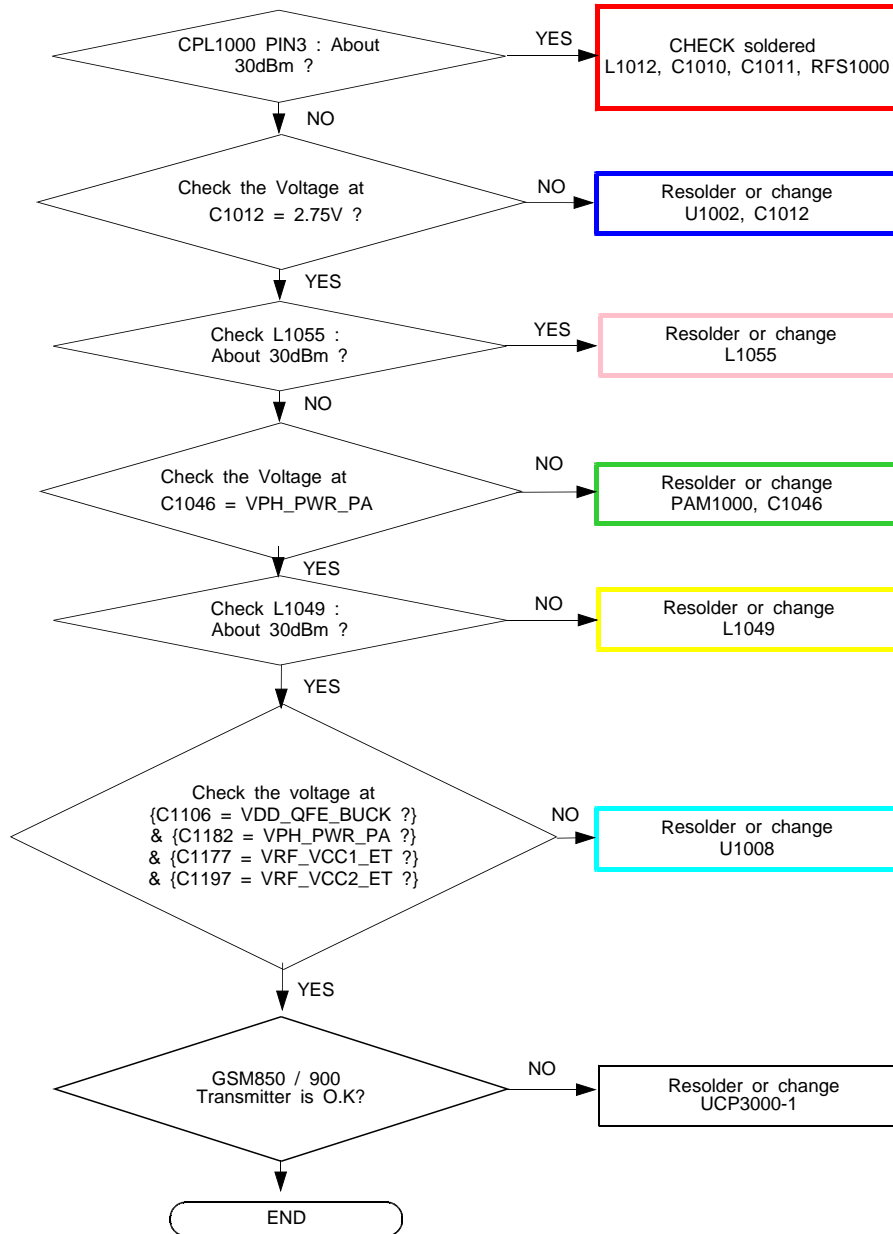
CONTINUOUS RX ON
RF INPUT : 39150CH
AMP : -50dBm





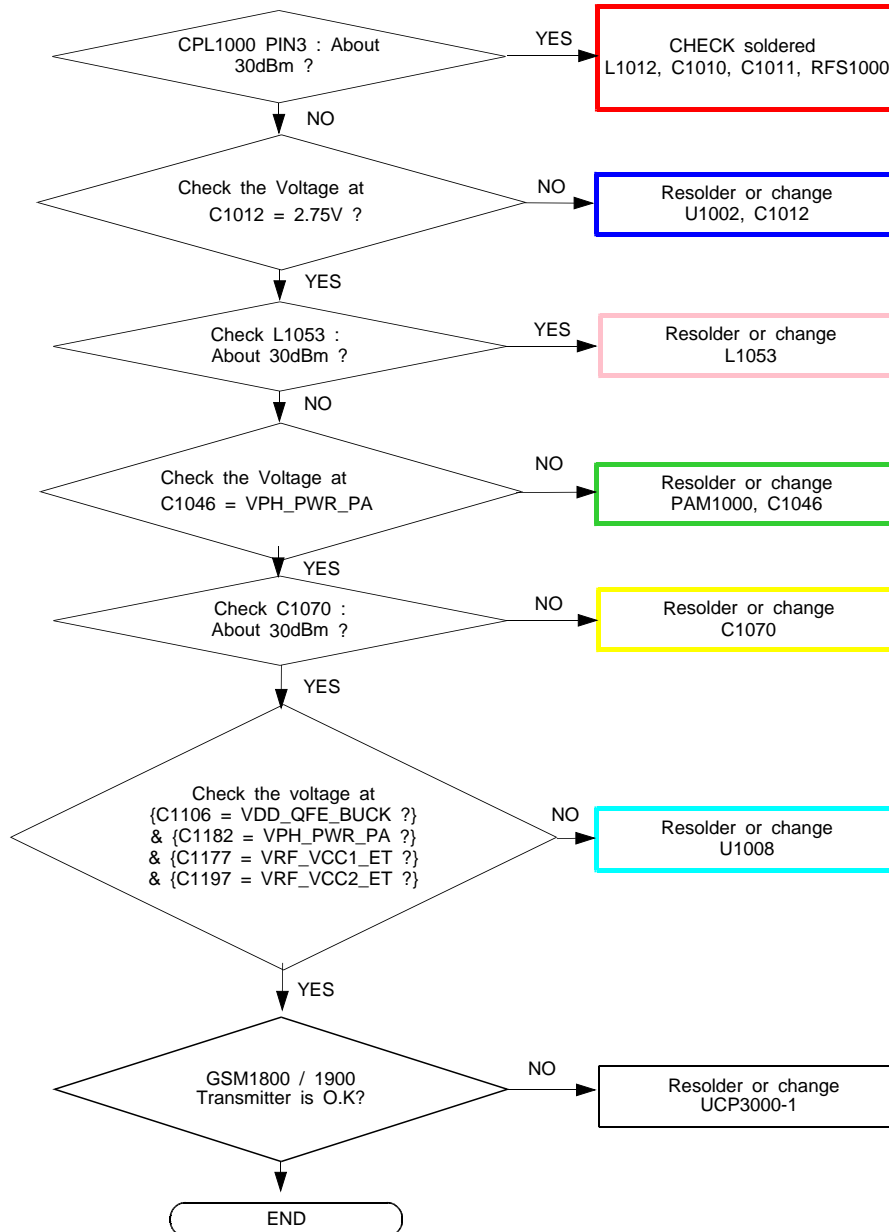
8-3-30. GSM850 / GSM900 TX

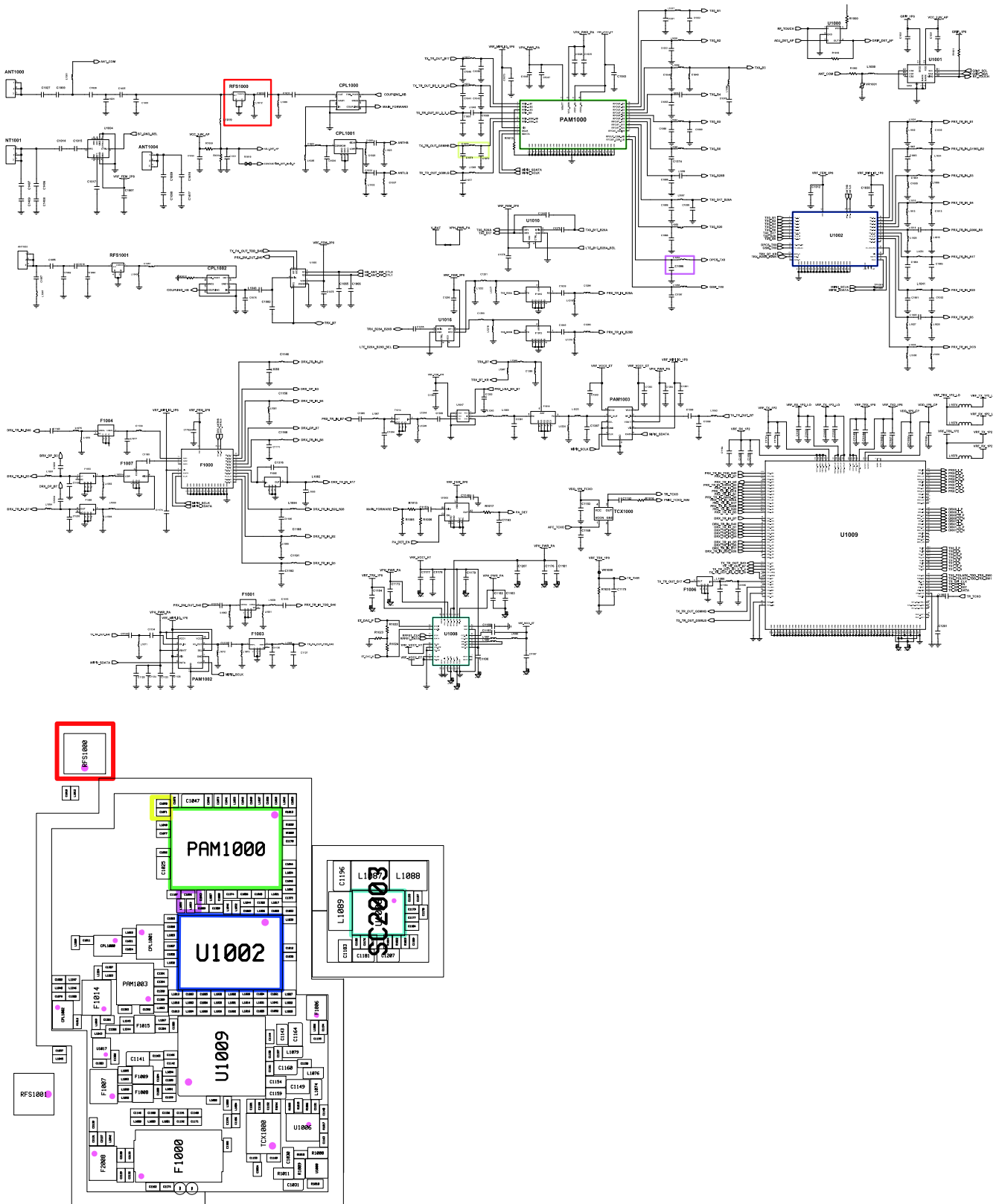
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



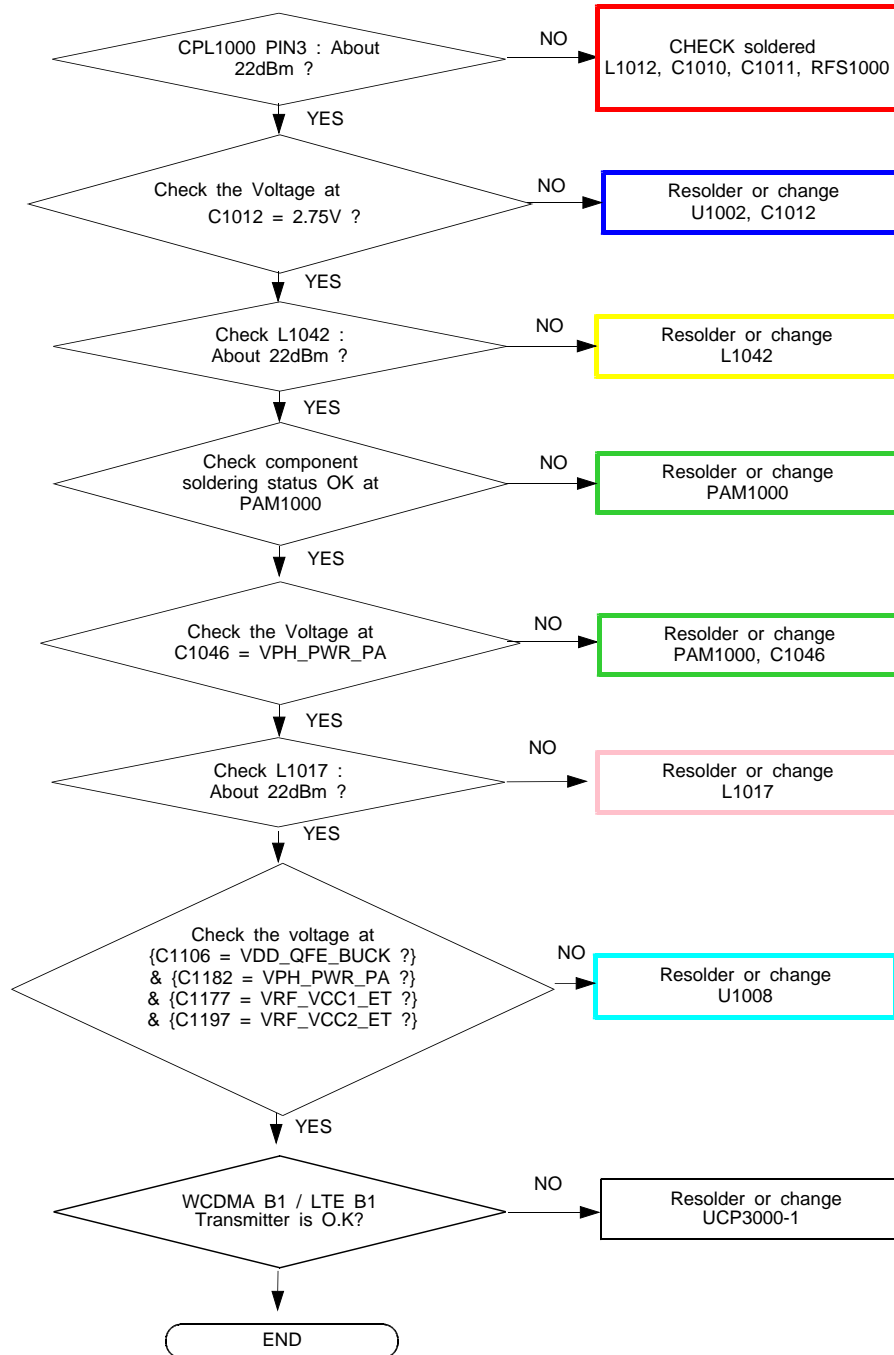
8-3-31. GSM1800 / GSM1900 TX

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



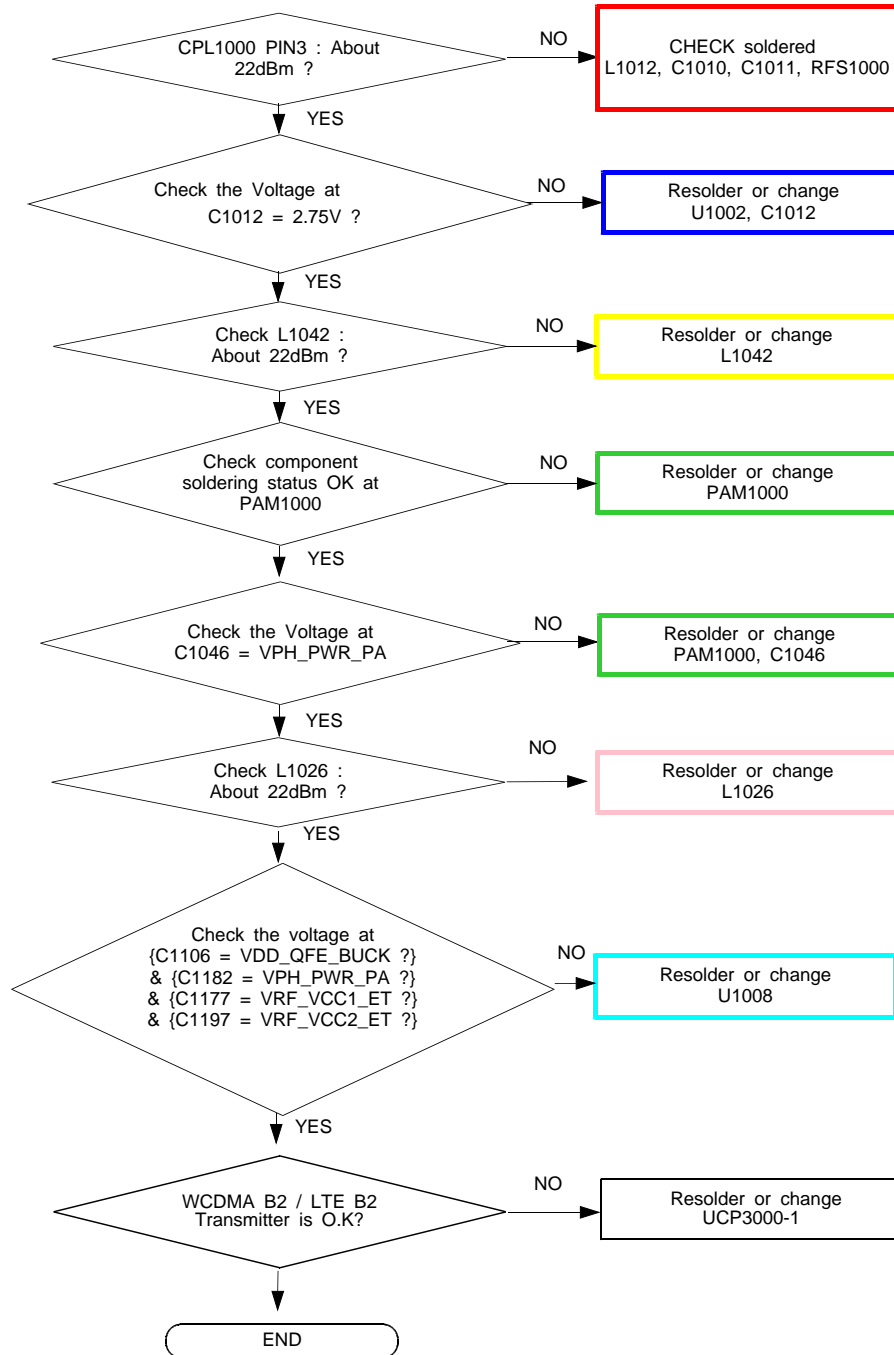


8-3-32. WCDMA B1 / LTE B1 TX



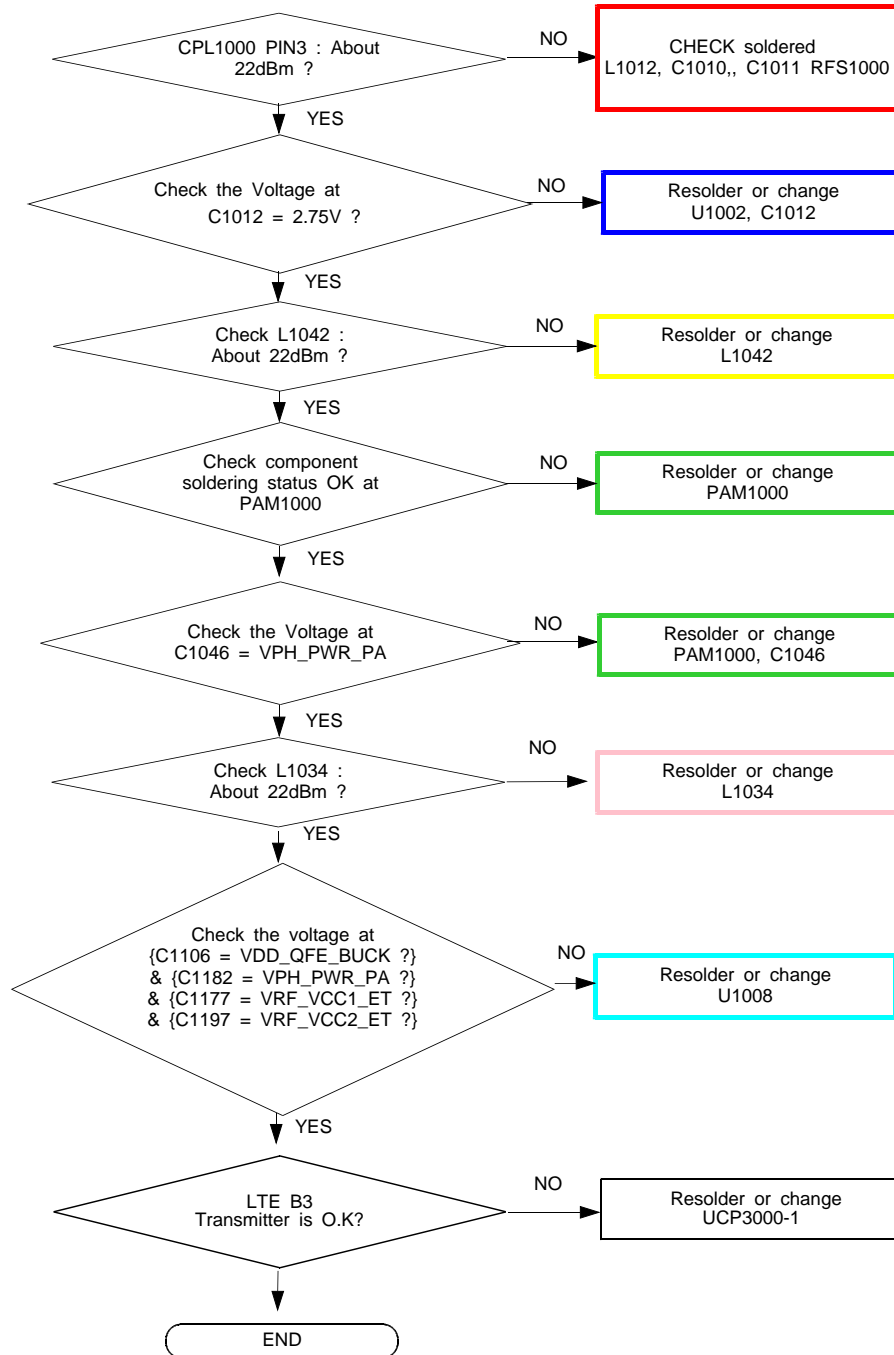
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band1 CH : 10700
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

8-3-33. WCDMA B2 / LTE B2 TX



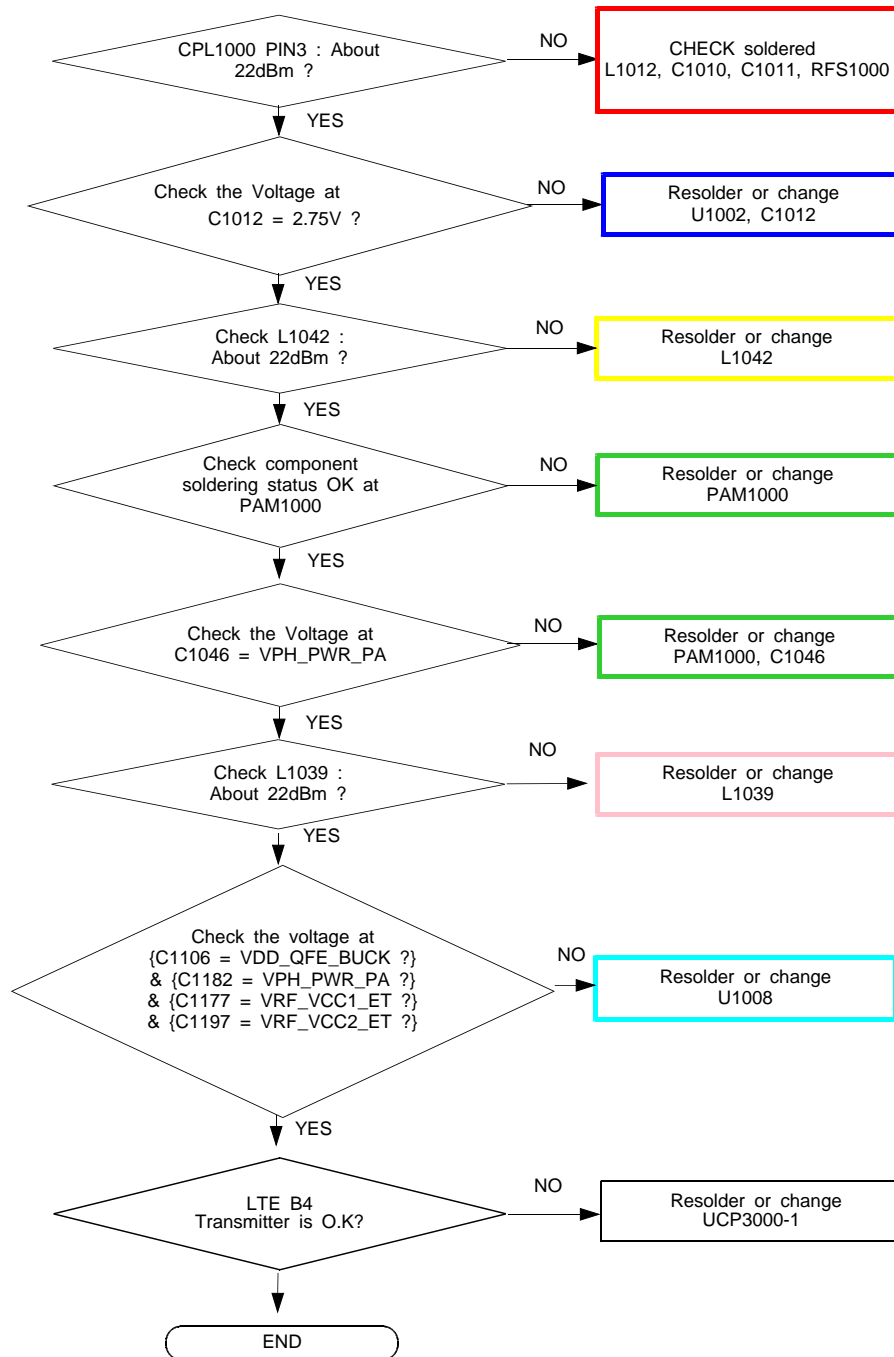
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band2 CH : 9800
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

8-3-34. LTE B3 TX

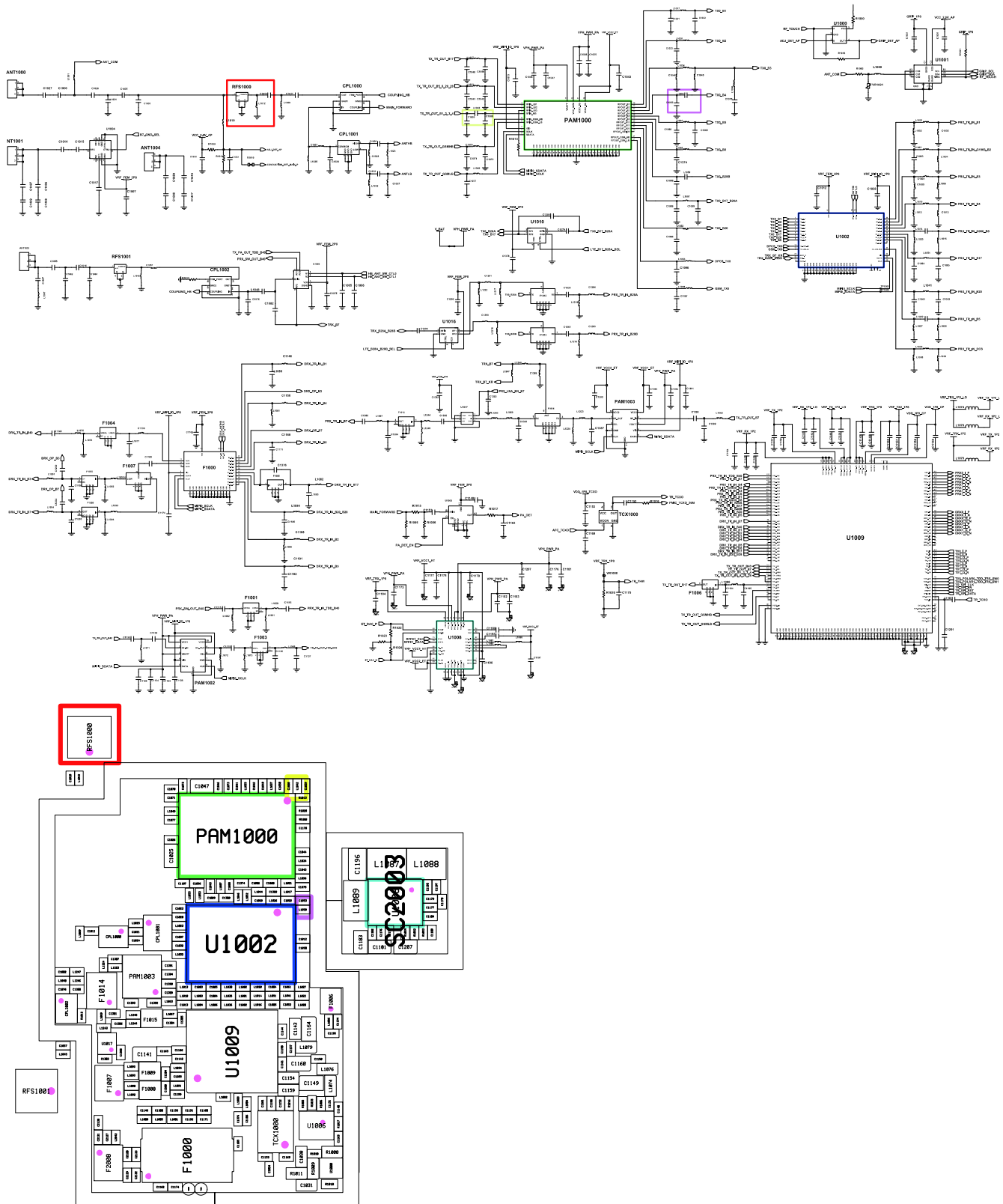


CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band3 CH : 19575
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

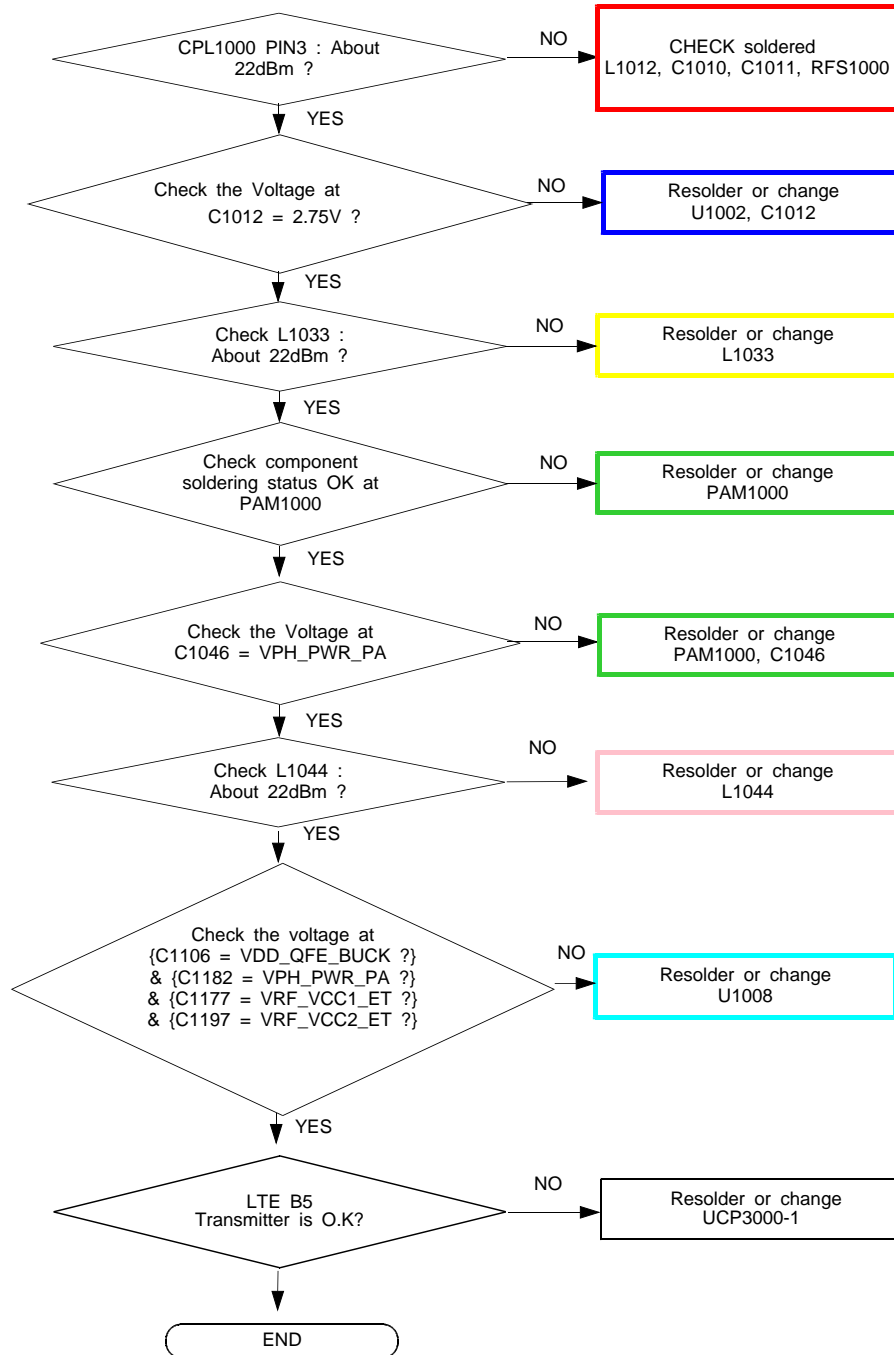
8-3-35. LTE B4 TX



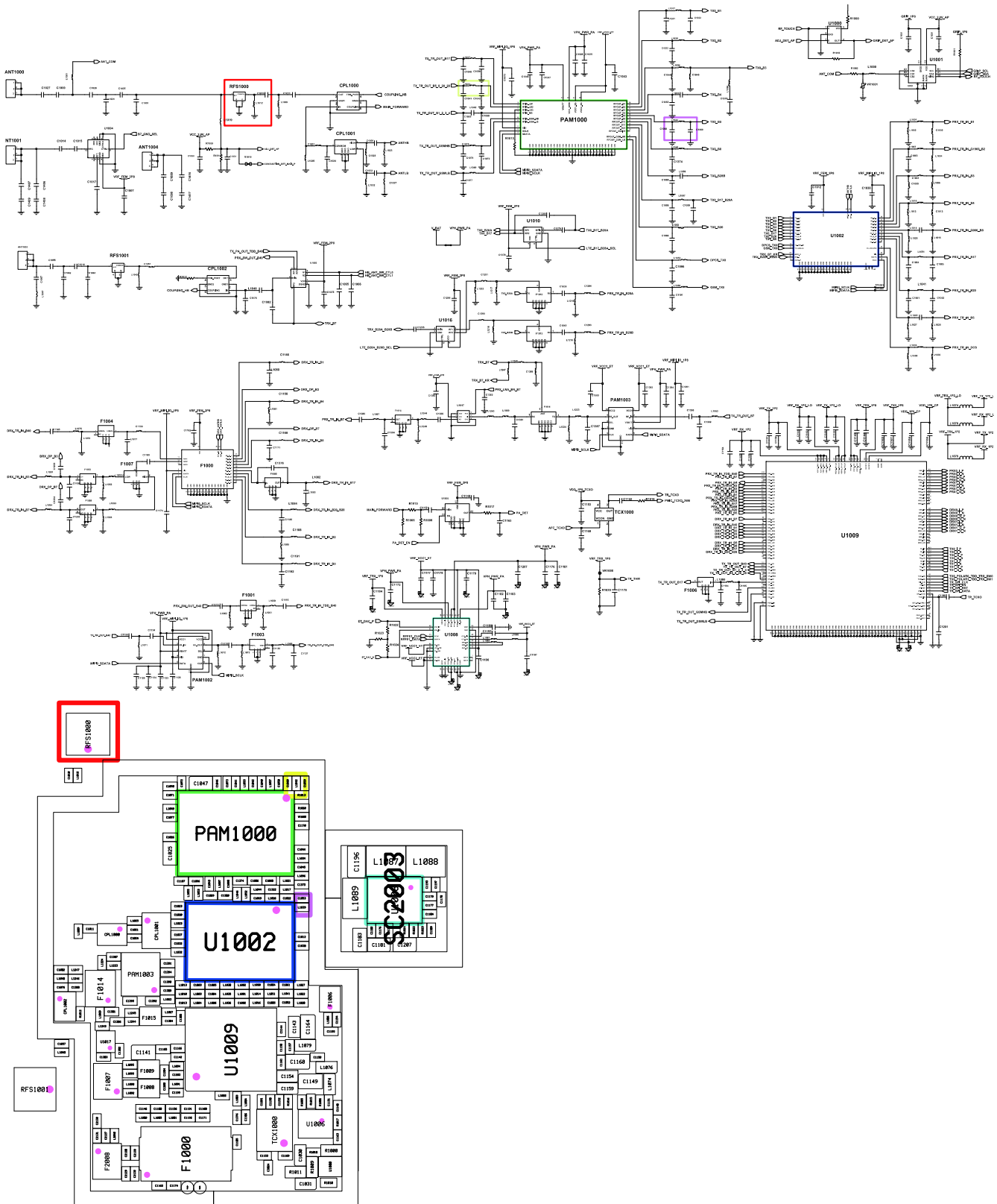
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band4 CH : 2175
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



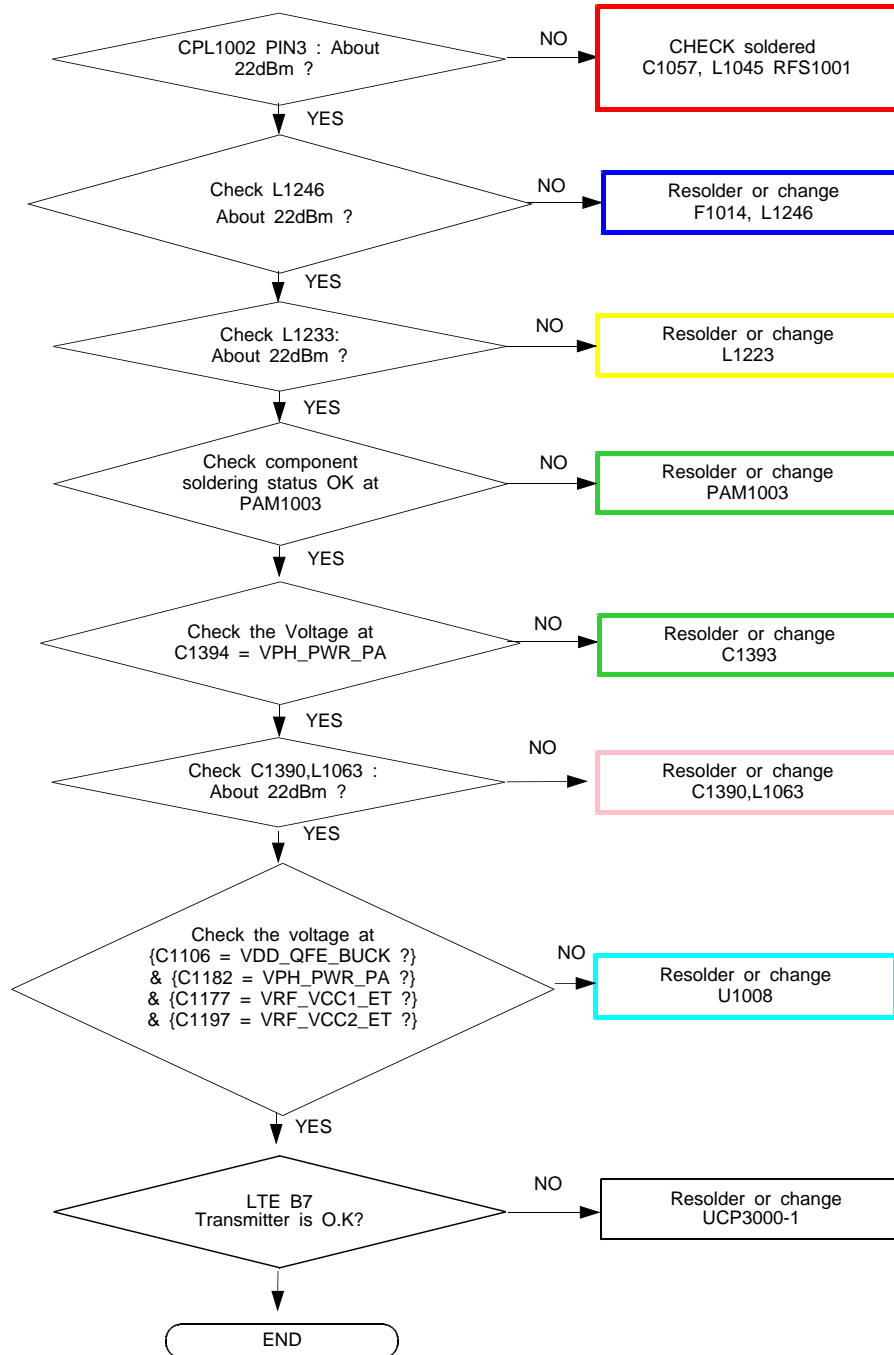
8-3-36. WCDMA B5 / LTE B5 TX



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

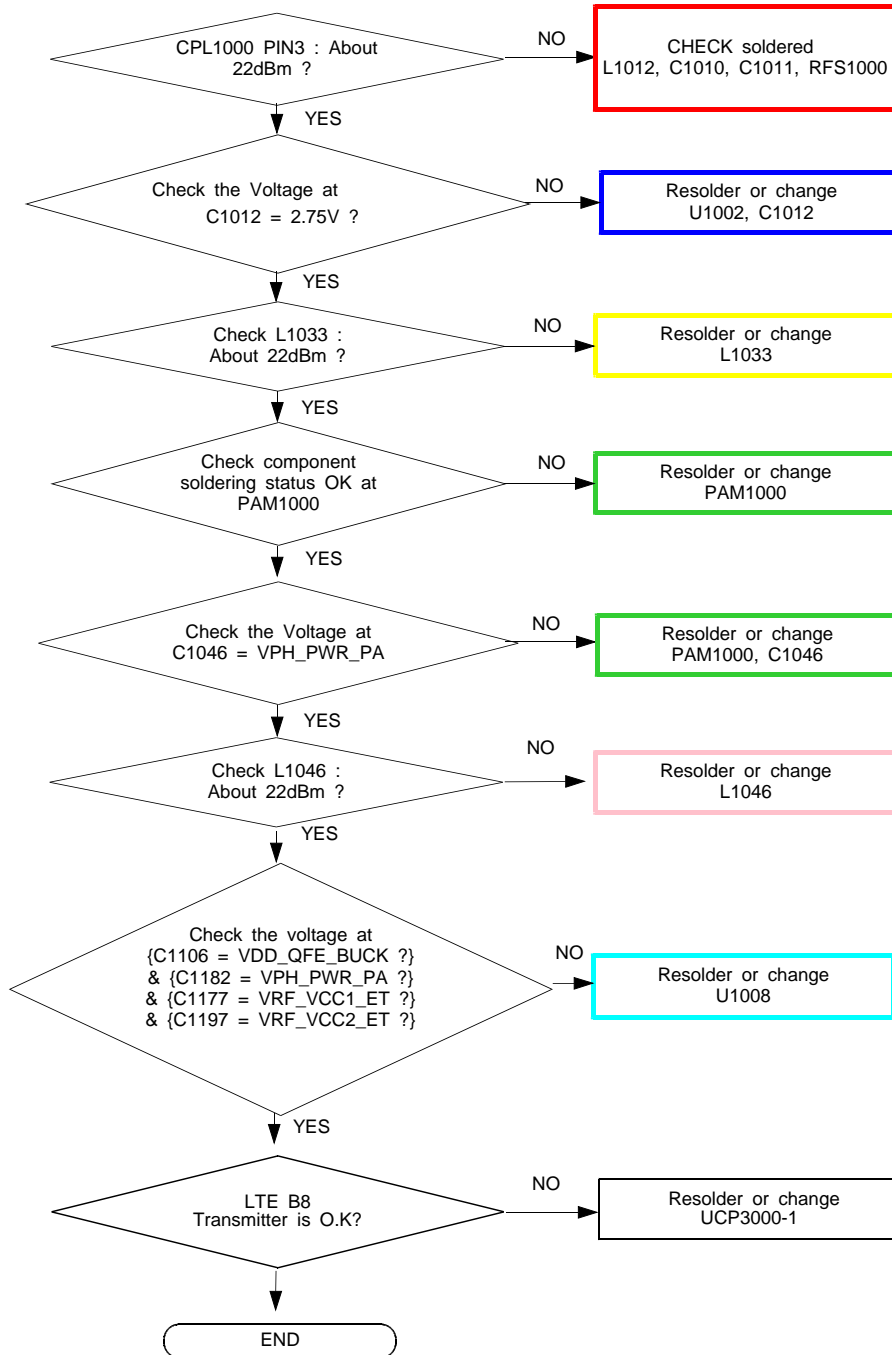


8-3-37. LTE B7 TX



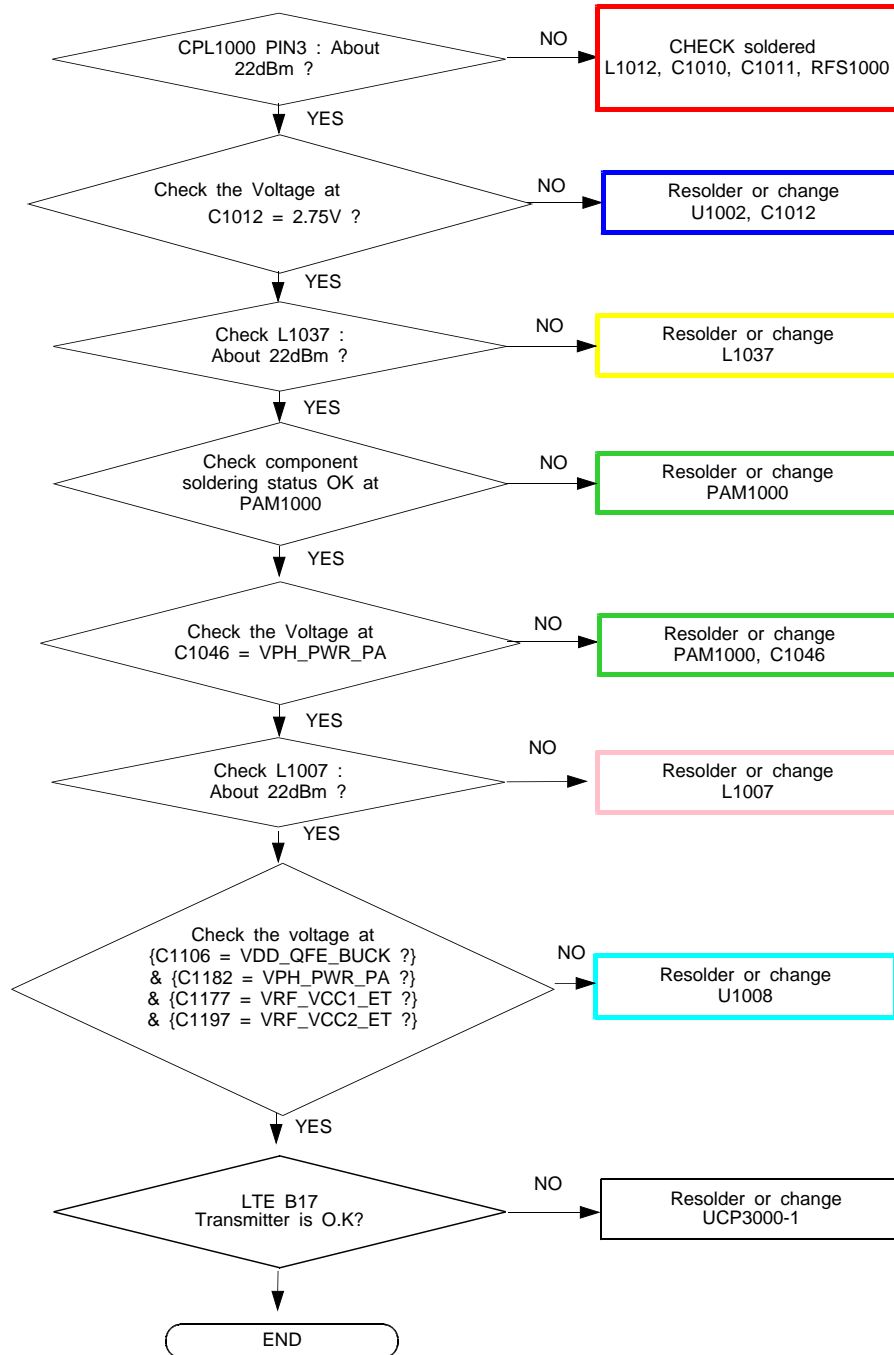
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band7 CH : 21100
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

8-3-38. WCDMA B8 / LTE B8 TX

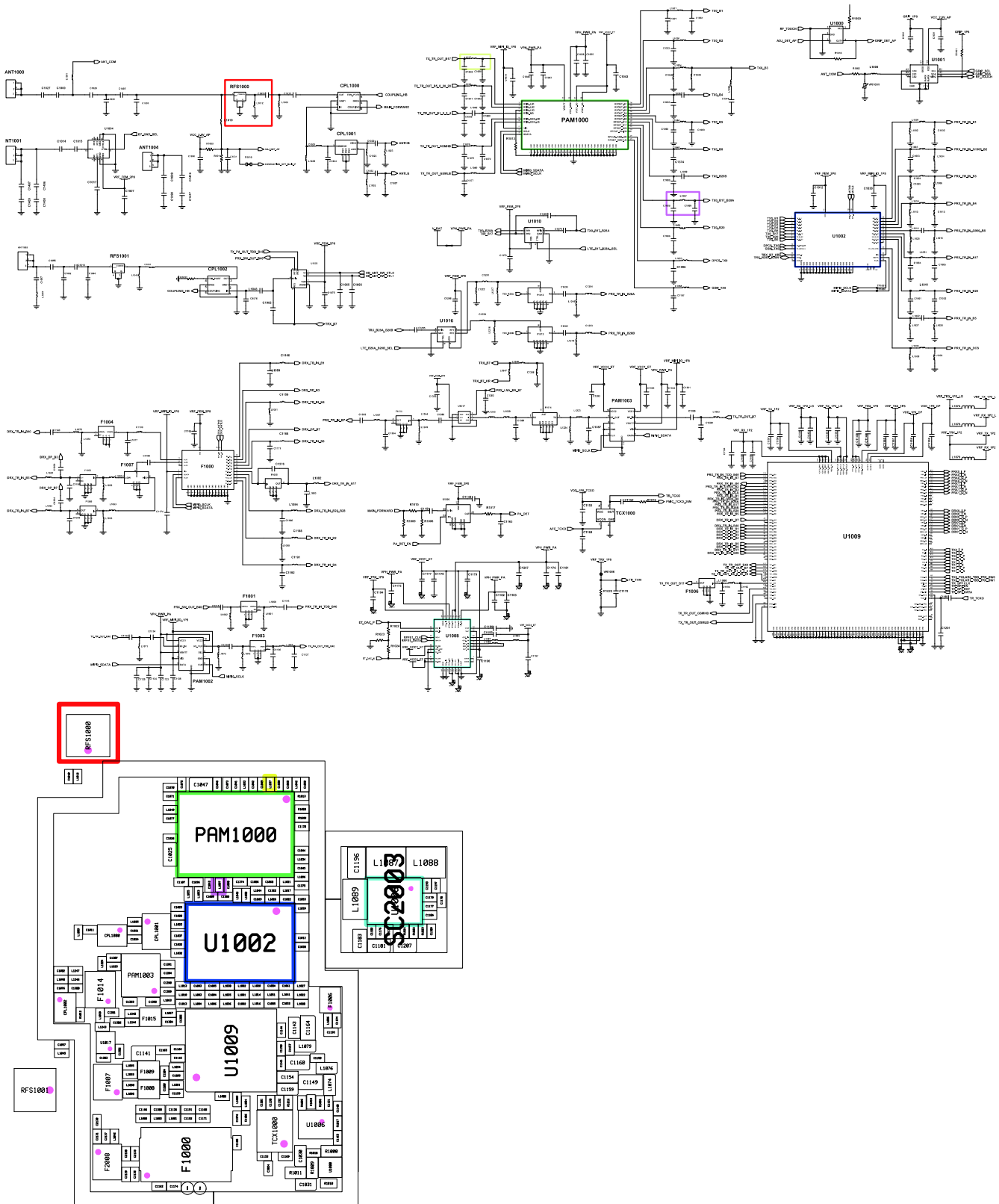


CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
WCDMA Band8 CH : 3016
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

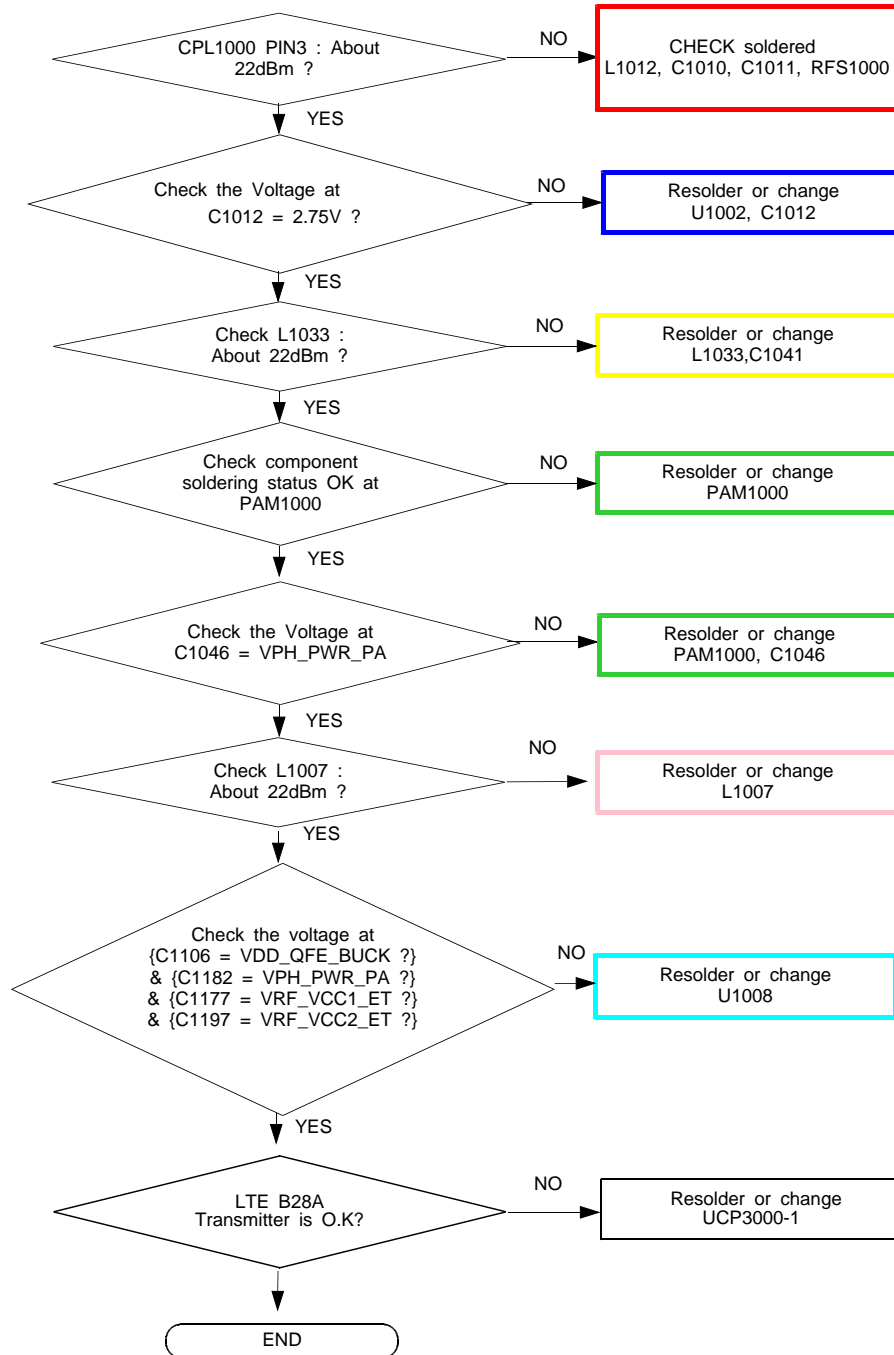
8-3-39. LTE B17 TX



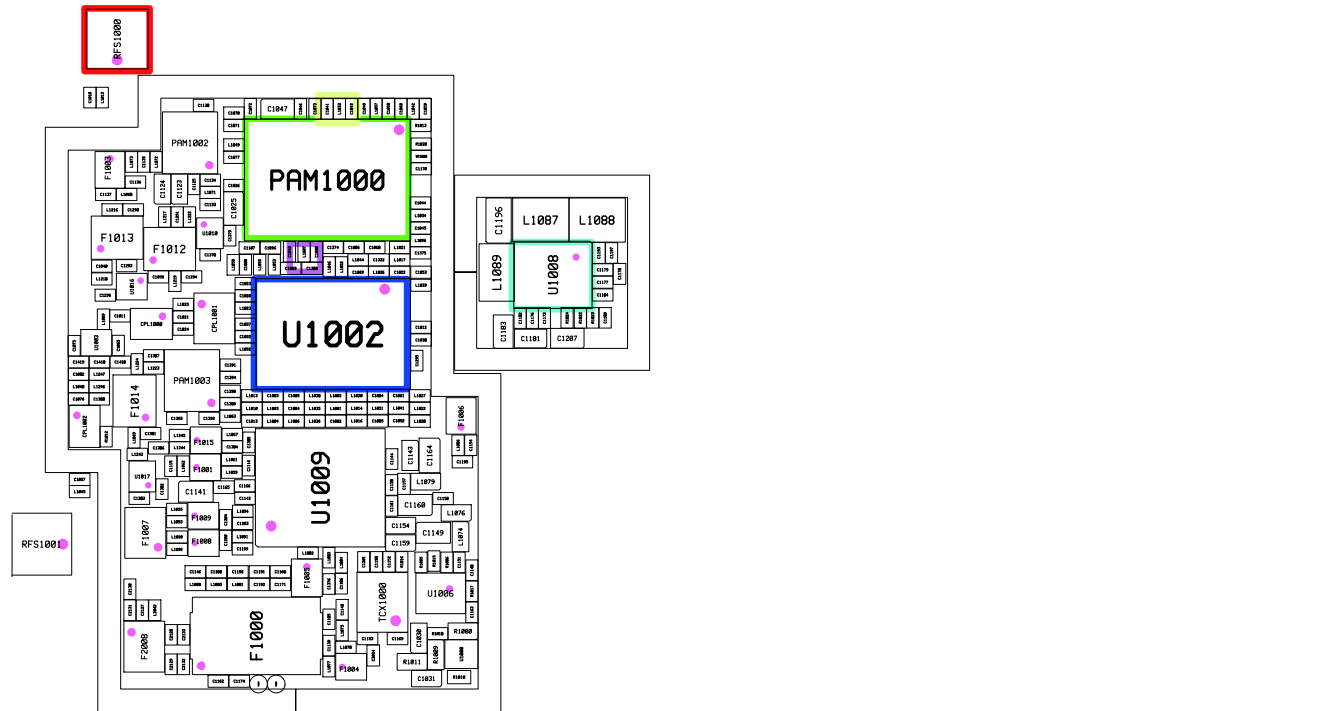
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band17 CH : 23790
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



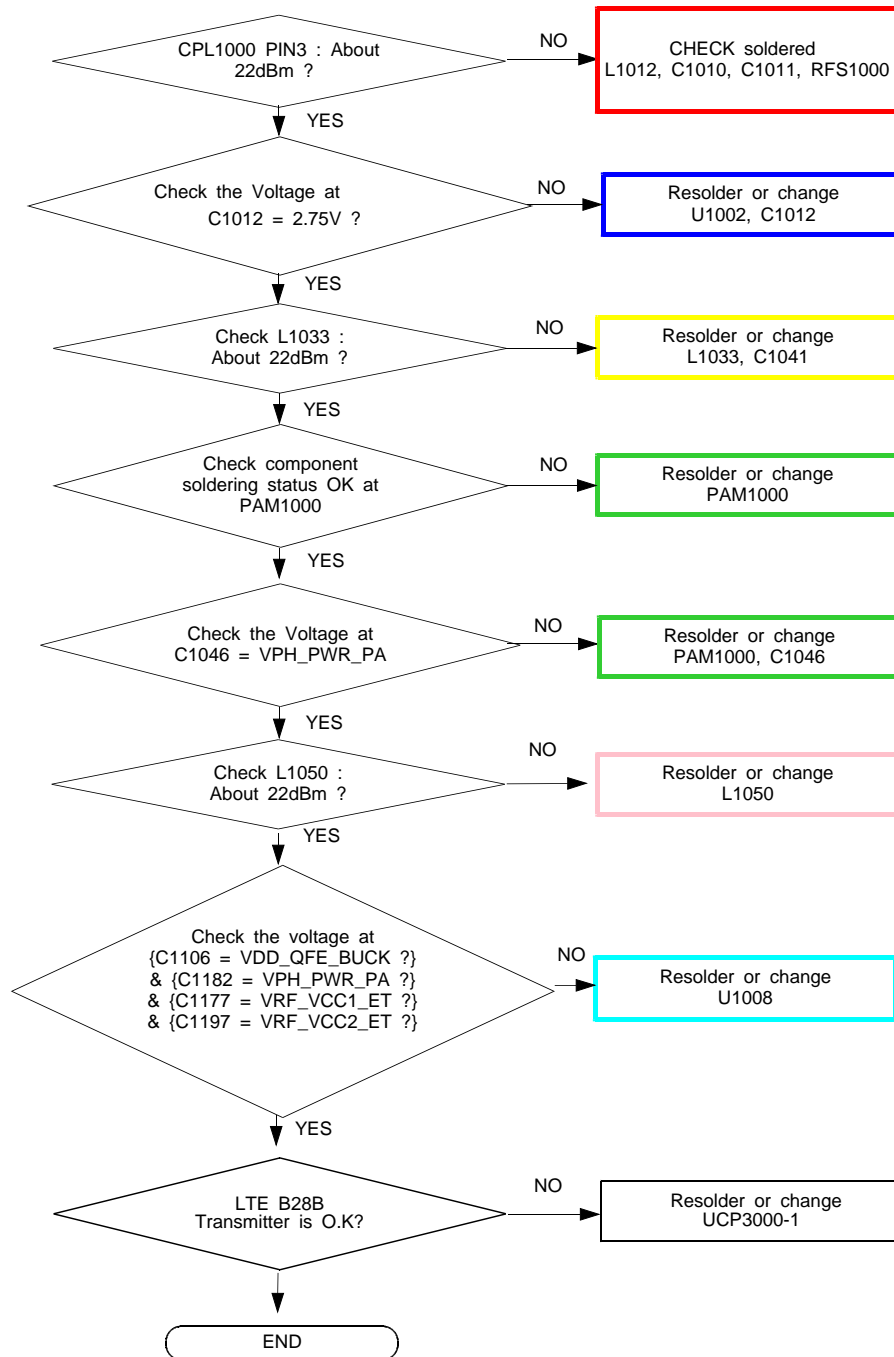
8-3-40. LTE B28 A TX



CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band28A CH : 27360
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

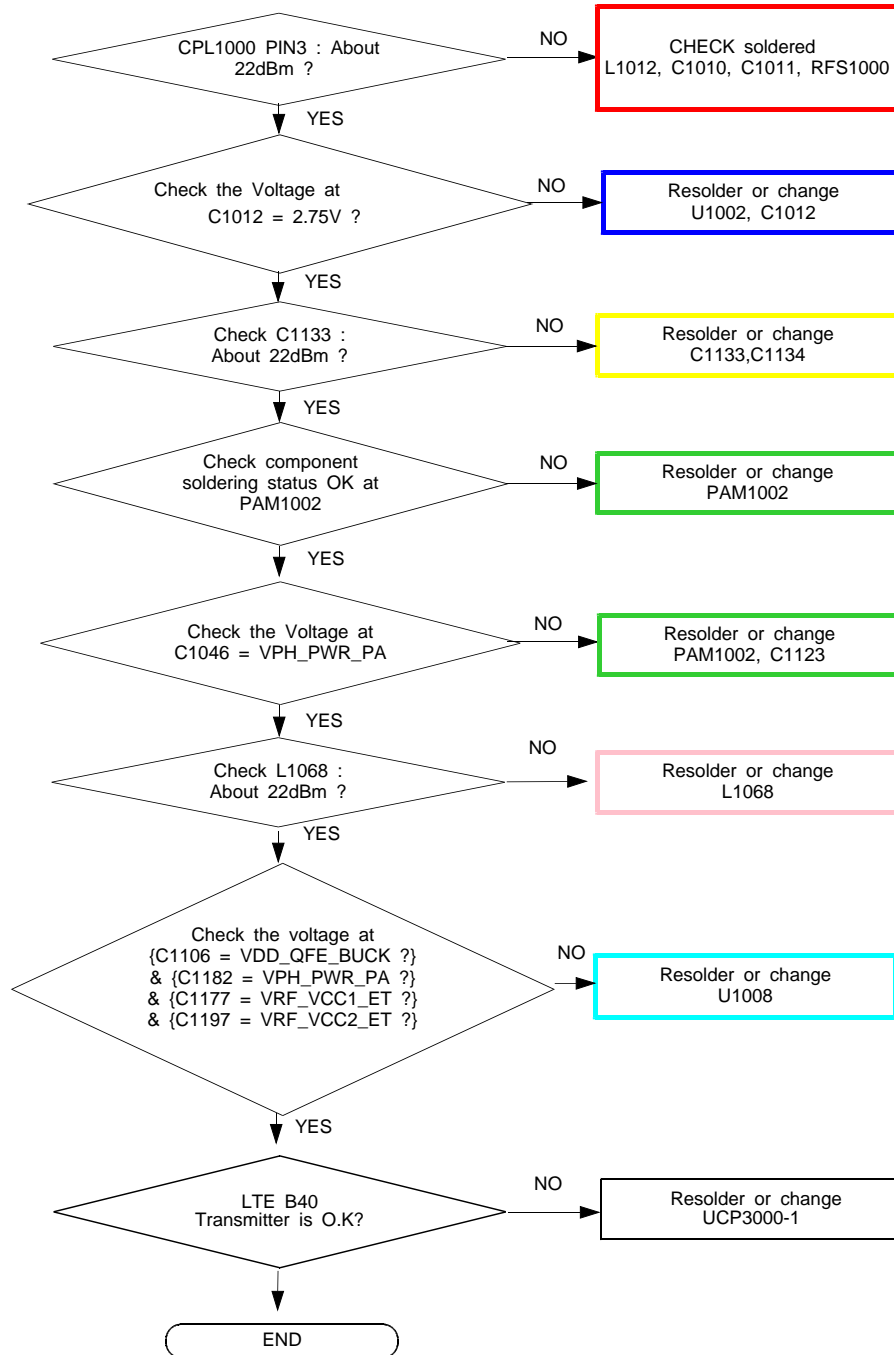


8-3-41. LTE B28 B TX



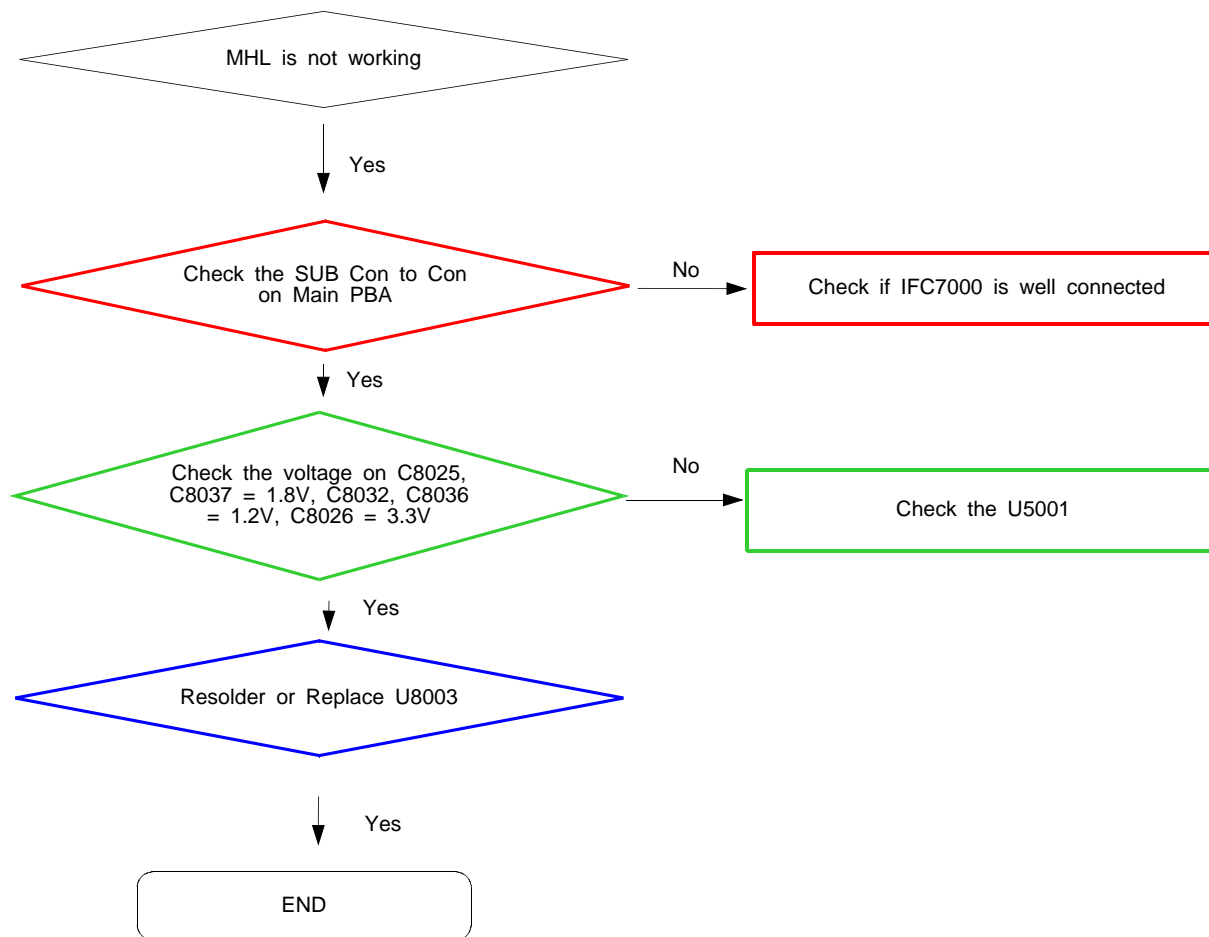
CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band28B CH : 27510
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

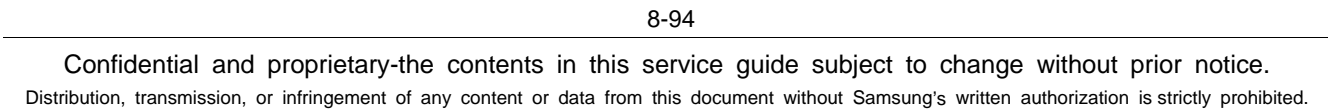
8-3-42. LTE B40 TX

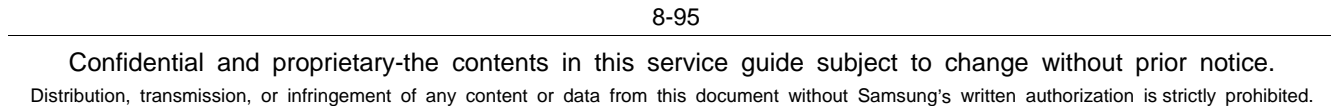


CONTINUOUS TX ON CONDITION
TX POWER DAC:14500 CODE
APPLIED
LTE Band40 CH : 39150
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB

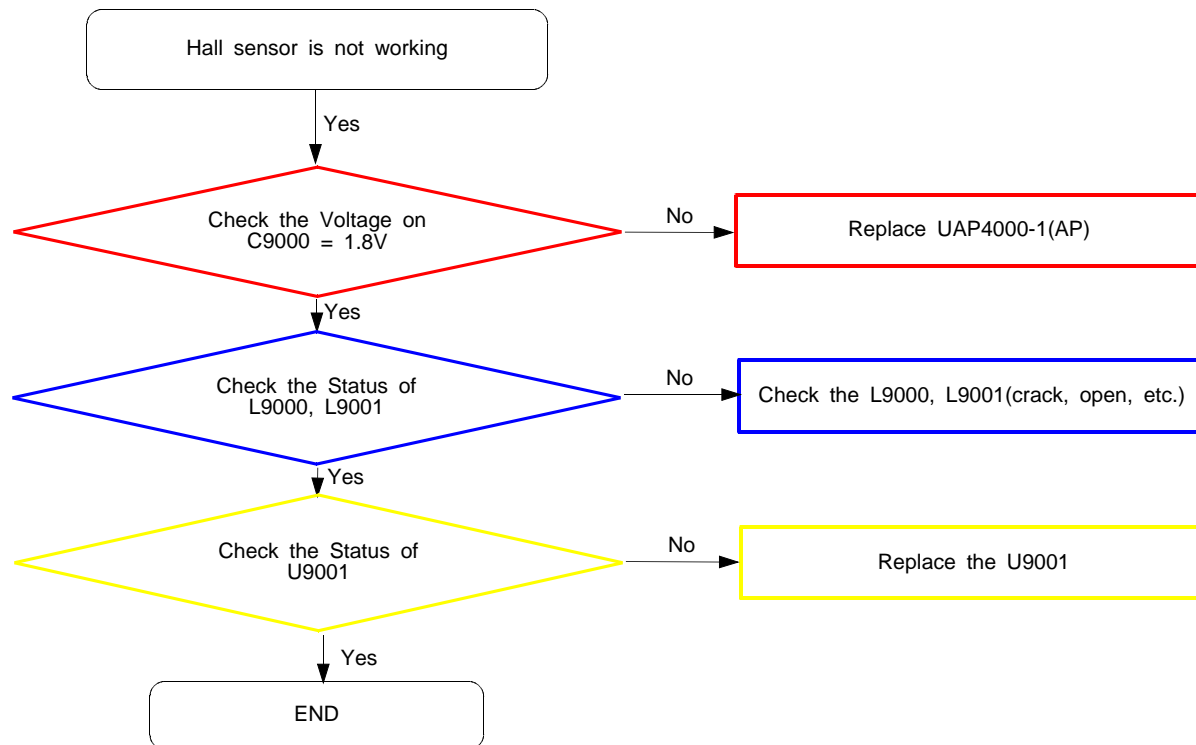
8-4-43. MHL

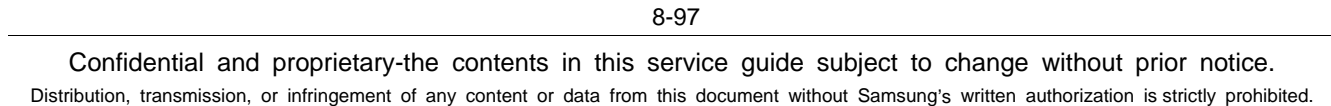




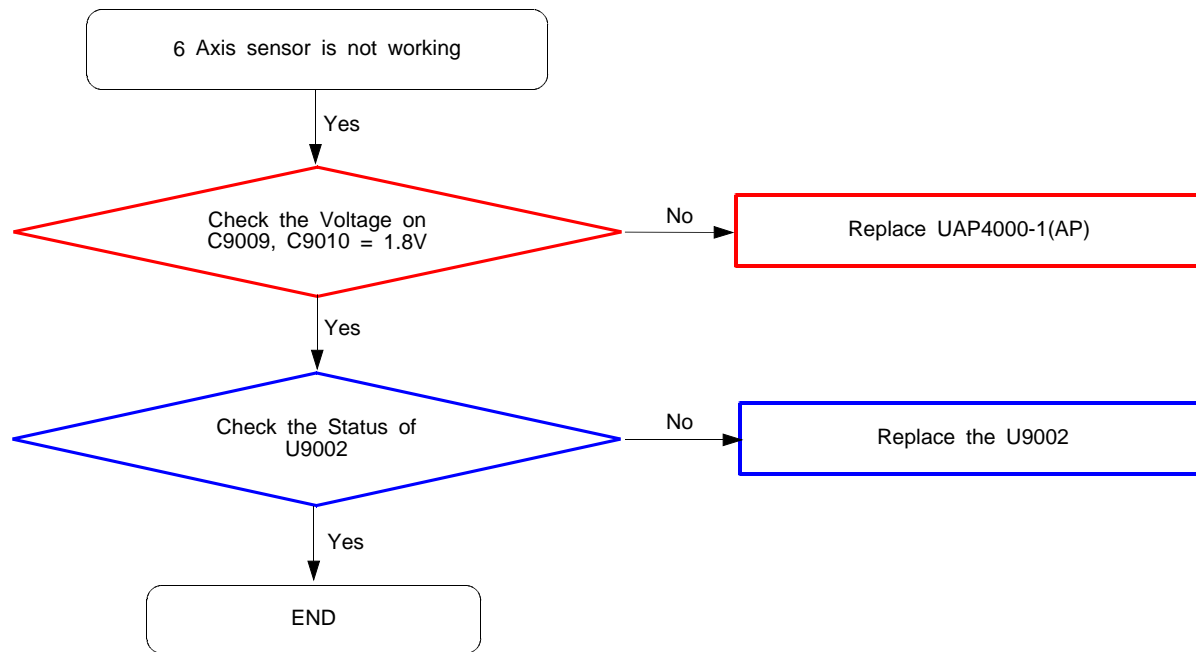


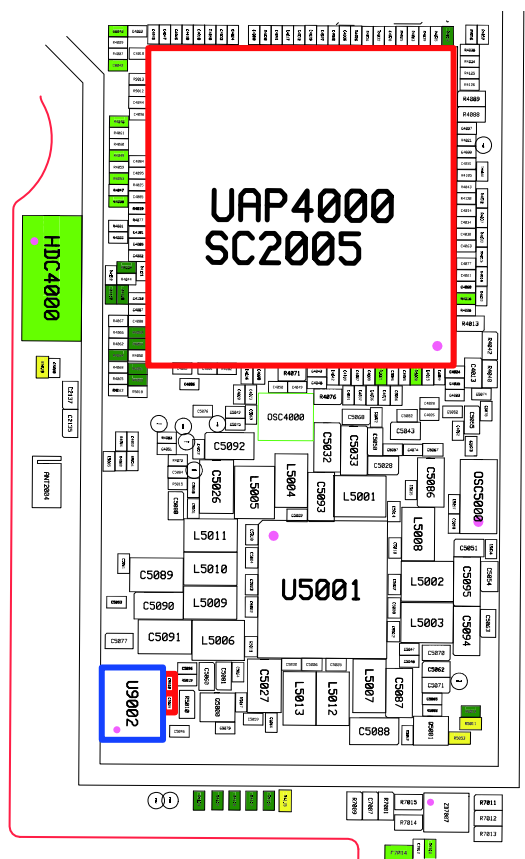
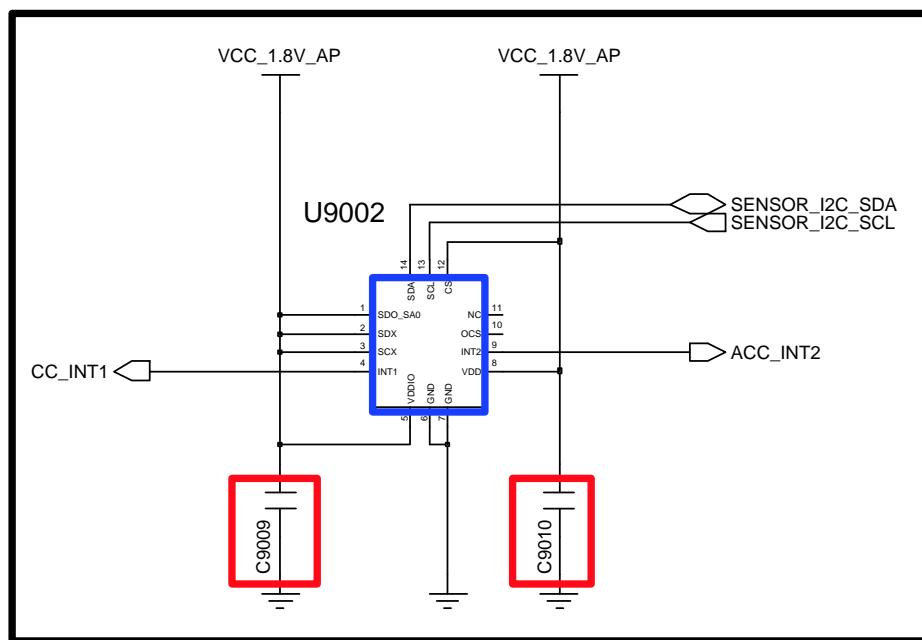
8-4-44. Hall IC



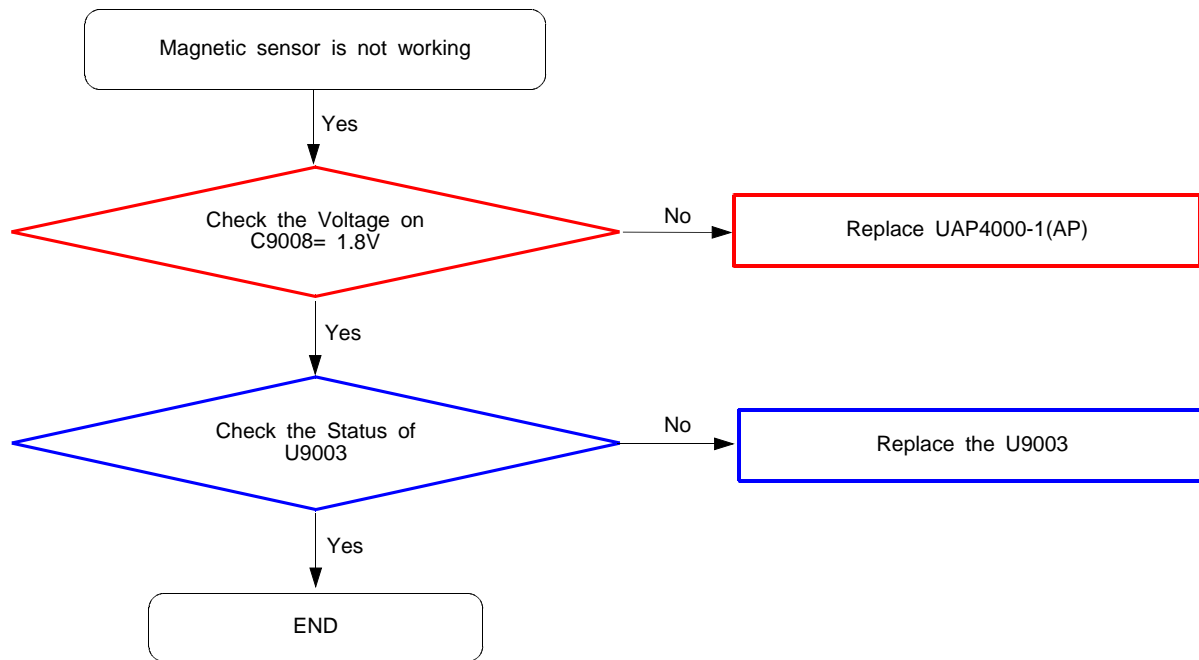


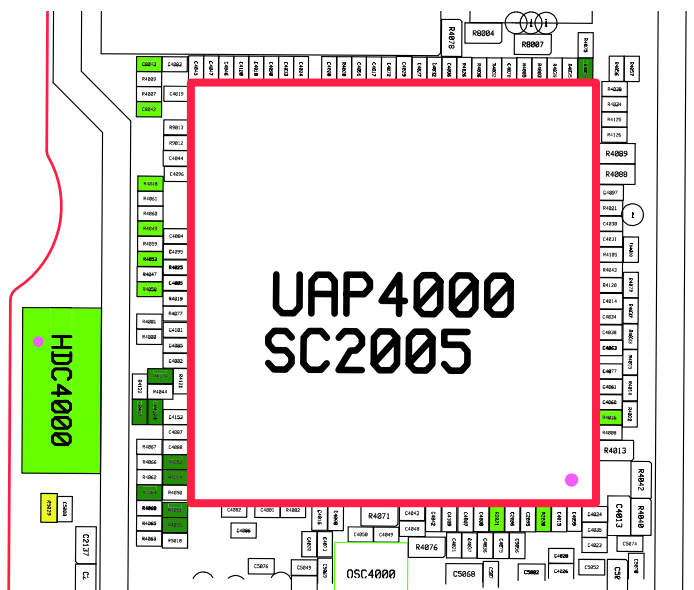
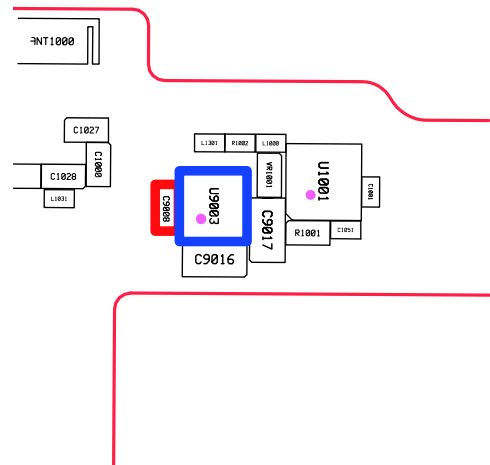
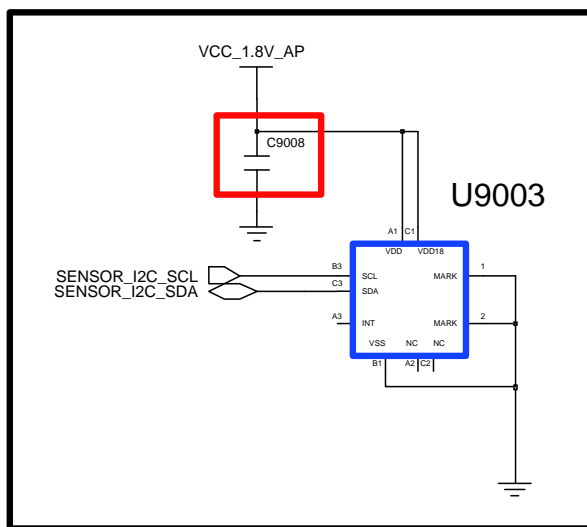
8-4-45. 6 Axis Sensor



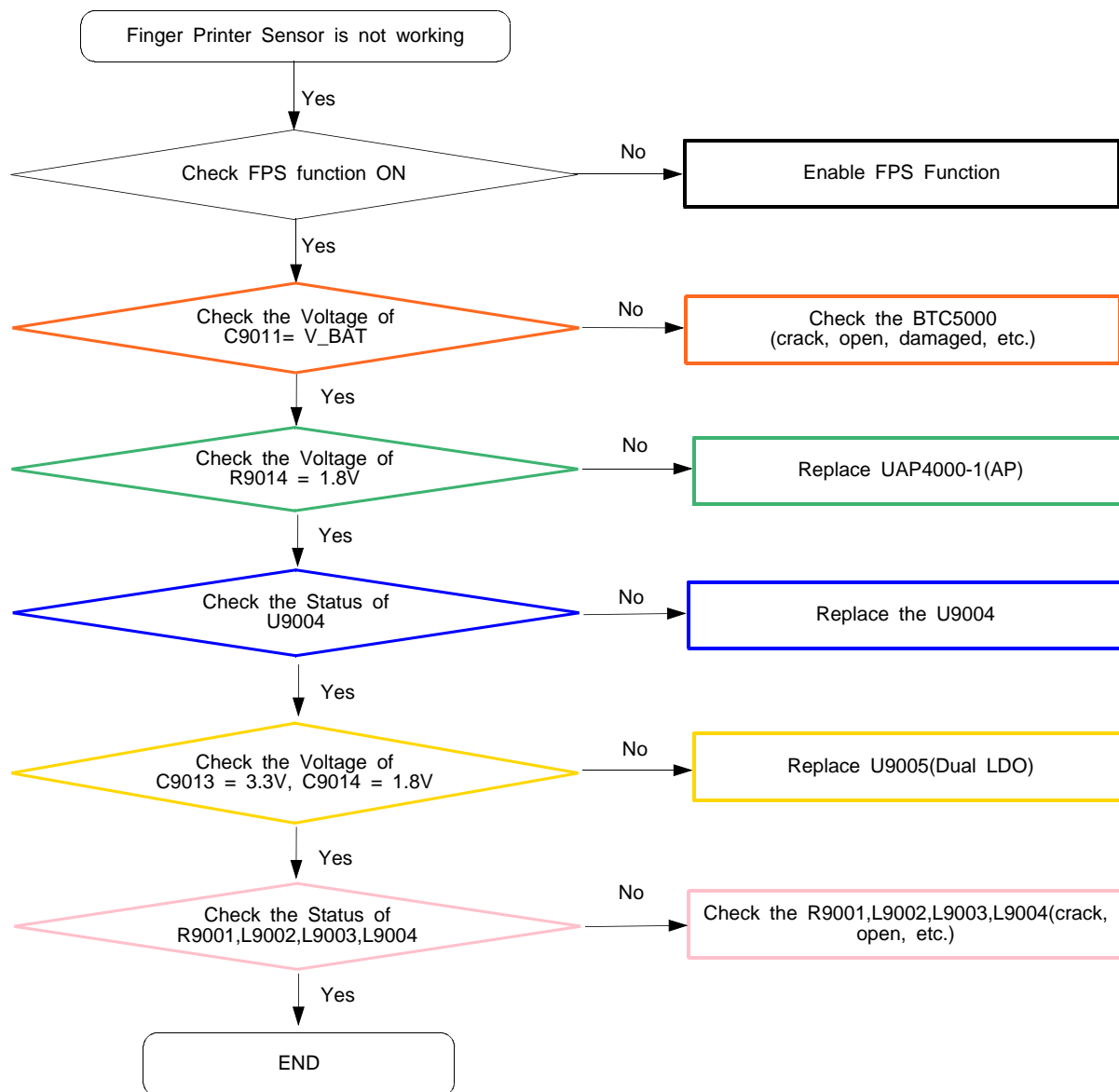


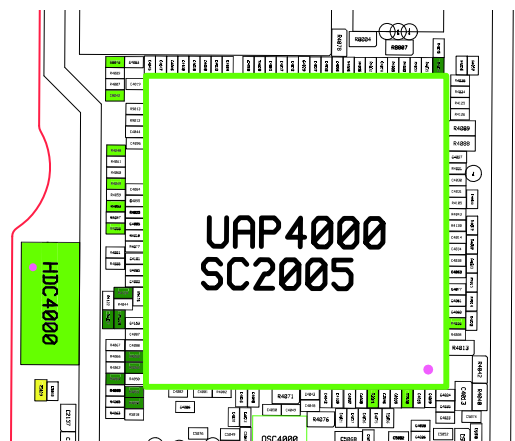
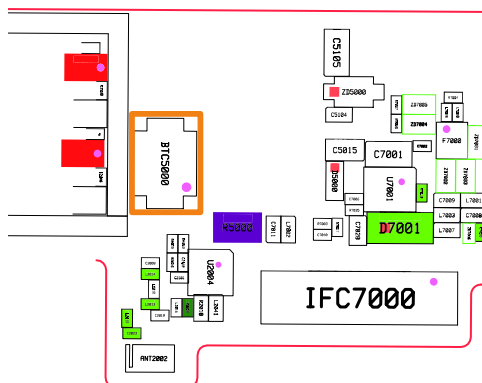
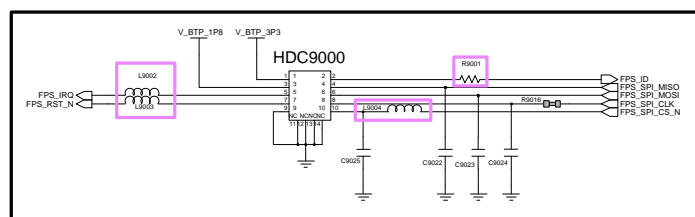
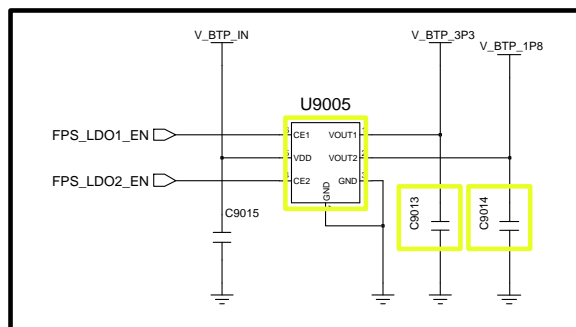
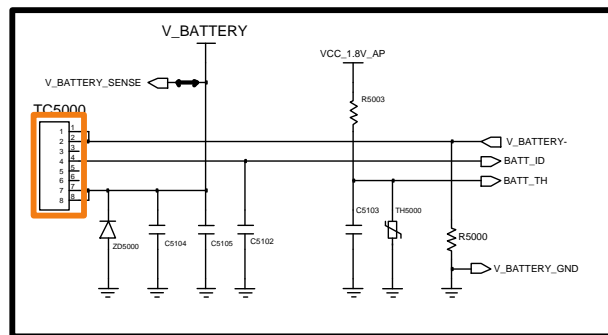
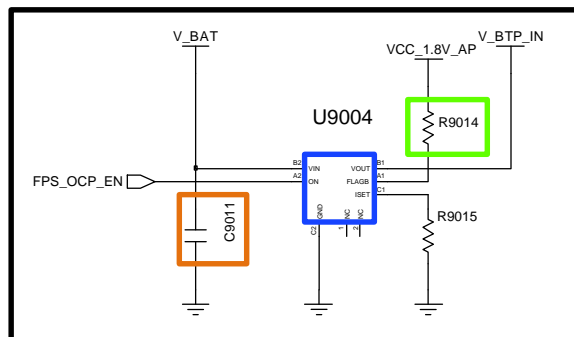
8-4-46. Magnetic Sensor



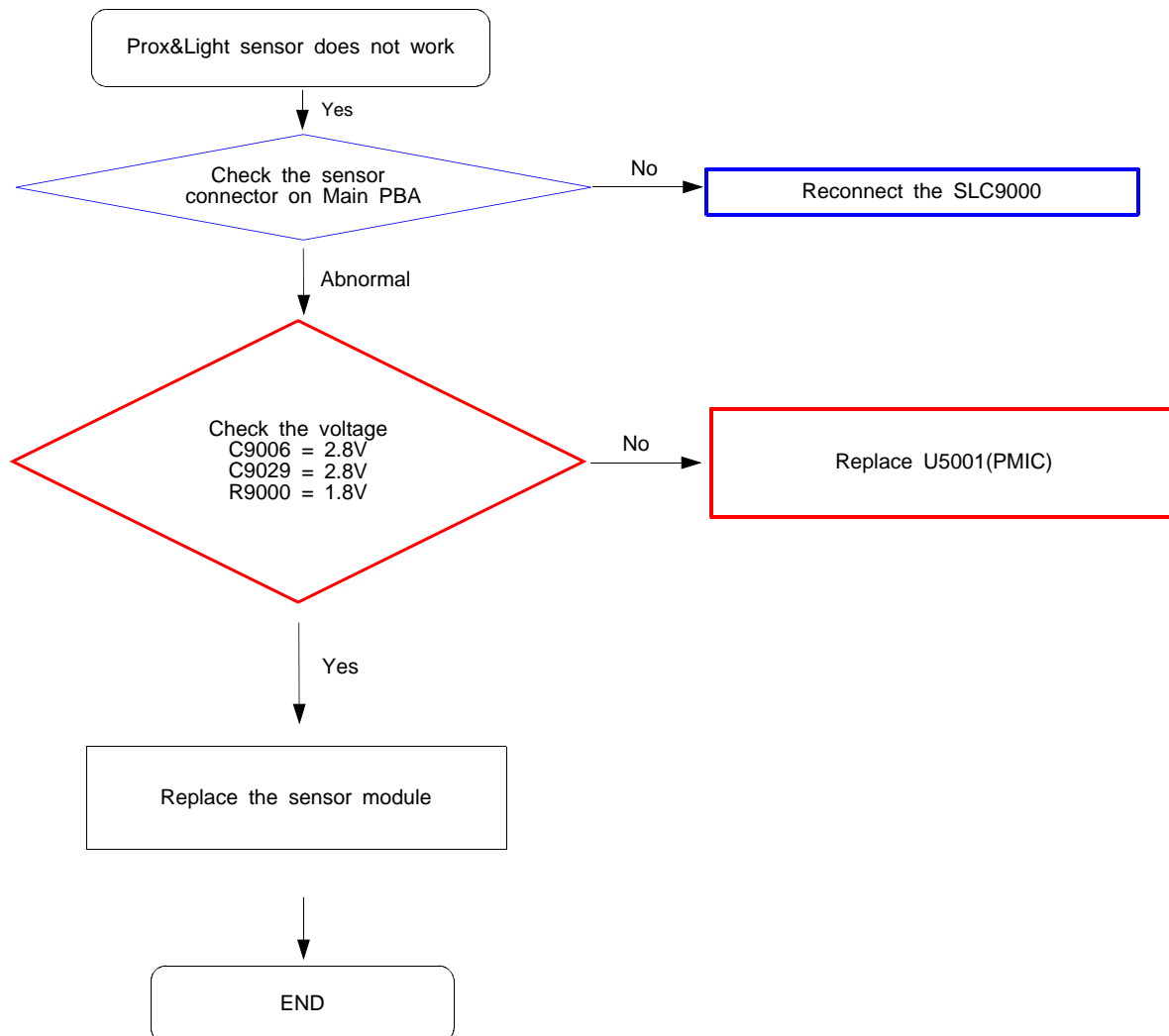


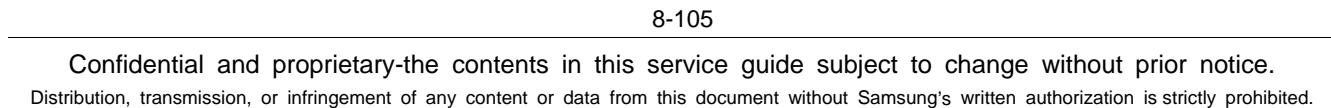
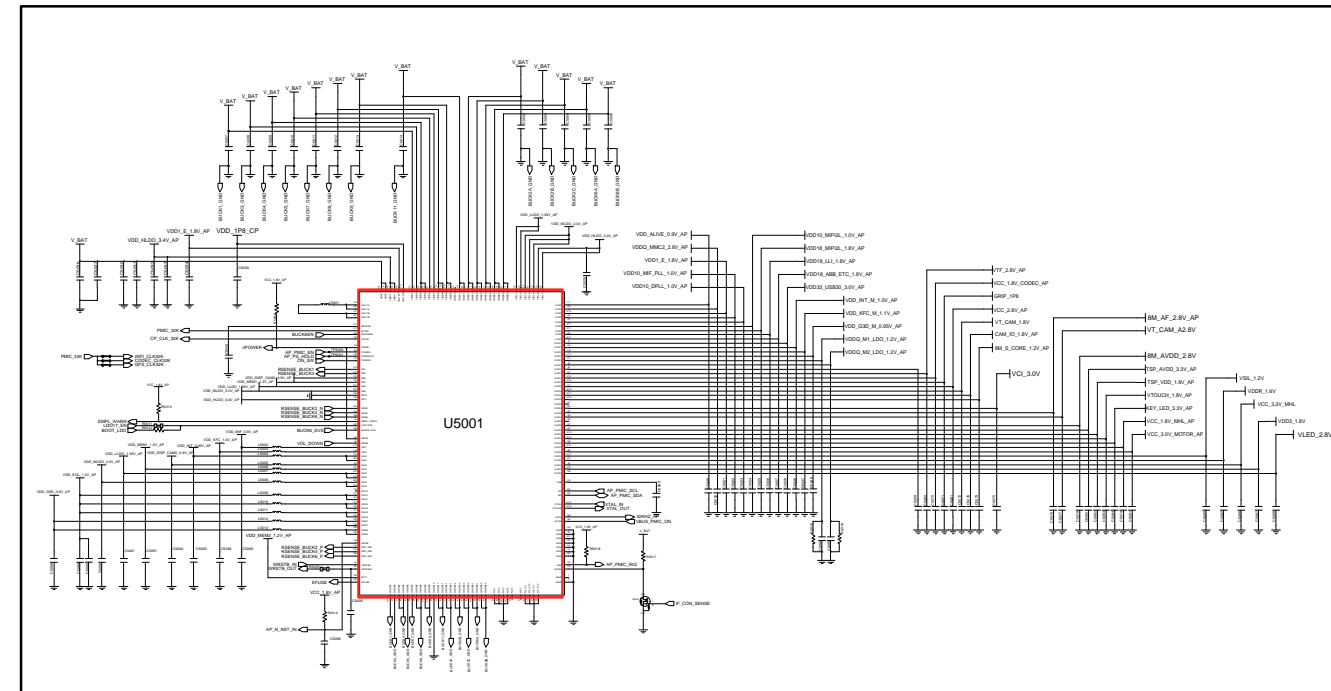
8-4-47. Finger Printer Sensor



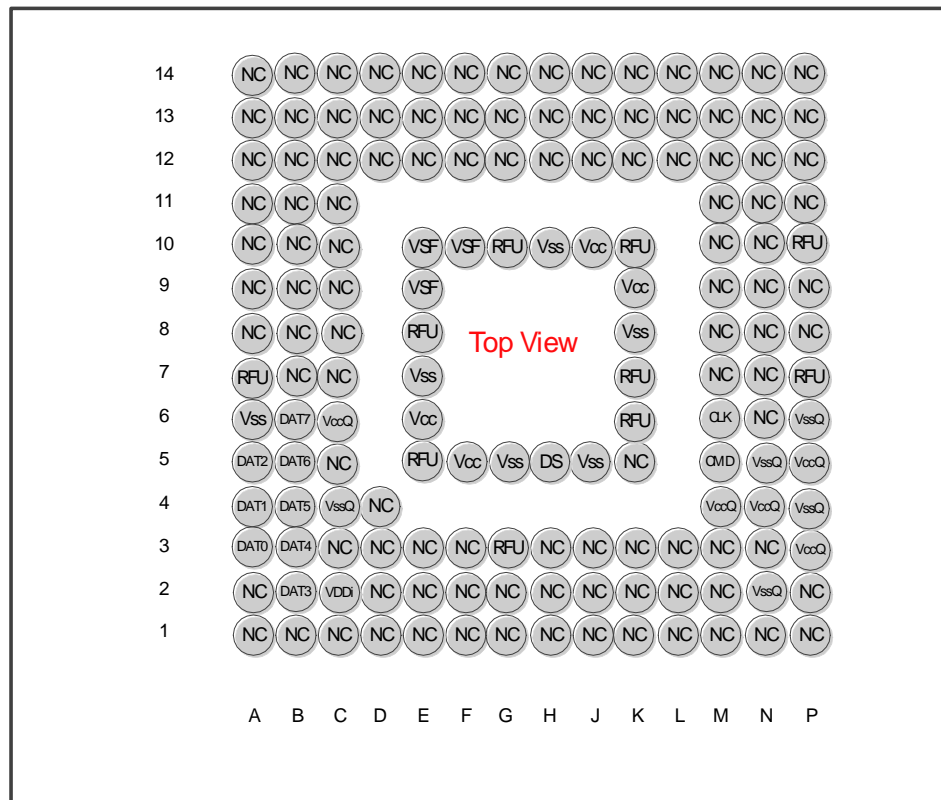


8-4-48. Prox&Light sensor





-NC Point(Top View)



UME4000