
8. Level 3 Repair

8-1. Speaker module Repair

→ Whenever speaker module should be changed from broken one to new one, "SPK calibration" should be done like below.

8-1-1. Required items in order to repair speaker module

- SM-A300H Mobile Phone
- SM-A300H Speaker module
- PC
- Earphone
- JIG BOX (GH99-36900B)
- JIG Cable (GH81-10953A)
- Serial Cable

※ Settings



Connect ANYWAY JIG
with JIG CABLE (Phone to JIG)
and PC to Anyway JIG Using Serial cable



9-1-2. Speaker module replacement procedure.

- To Be Determined soon.

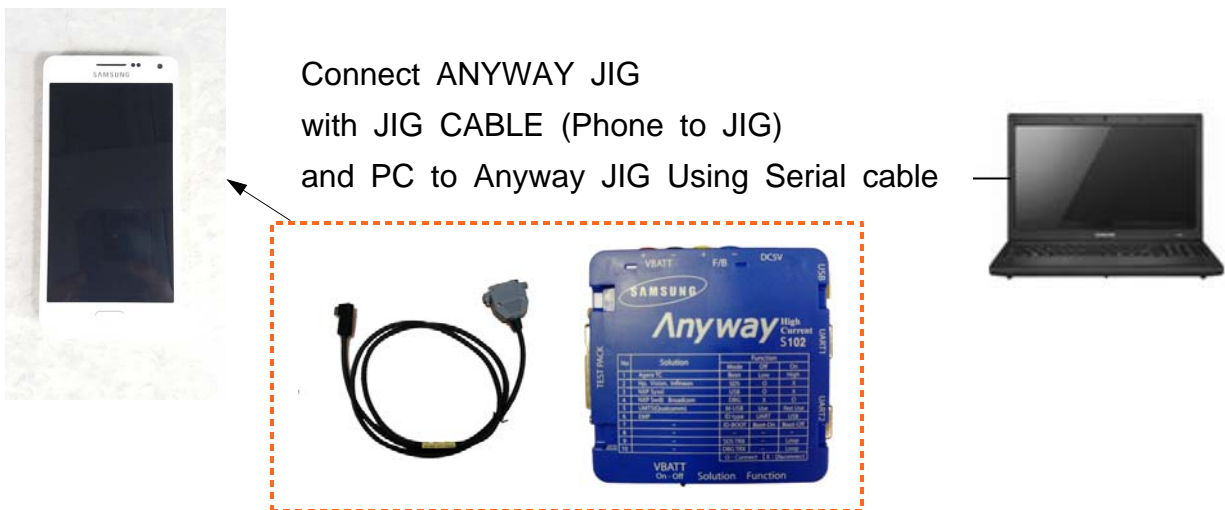
9-1. Battery Replacement

→ Whenever the battery should be changed from broken one to new one, "Battery accumulation usage-amount initialization" should be done like below.

9-1-1. Required items in order to repair battery

- SM-A300H Mobile Phone
- SM-A300H Battery
- PC
- JIG BOX (GH99-36900B)
- JIG Cable (GH81-10953A)
- Serial Cable

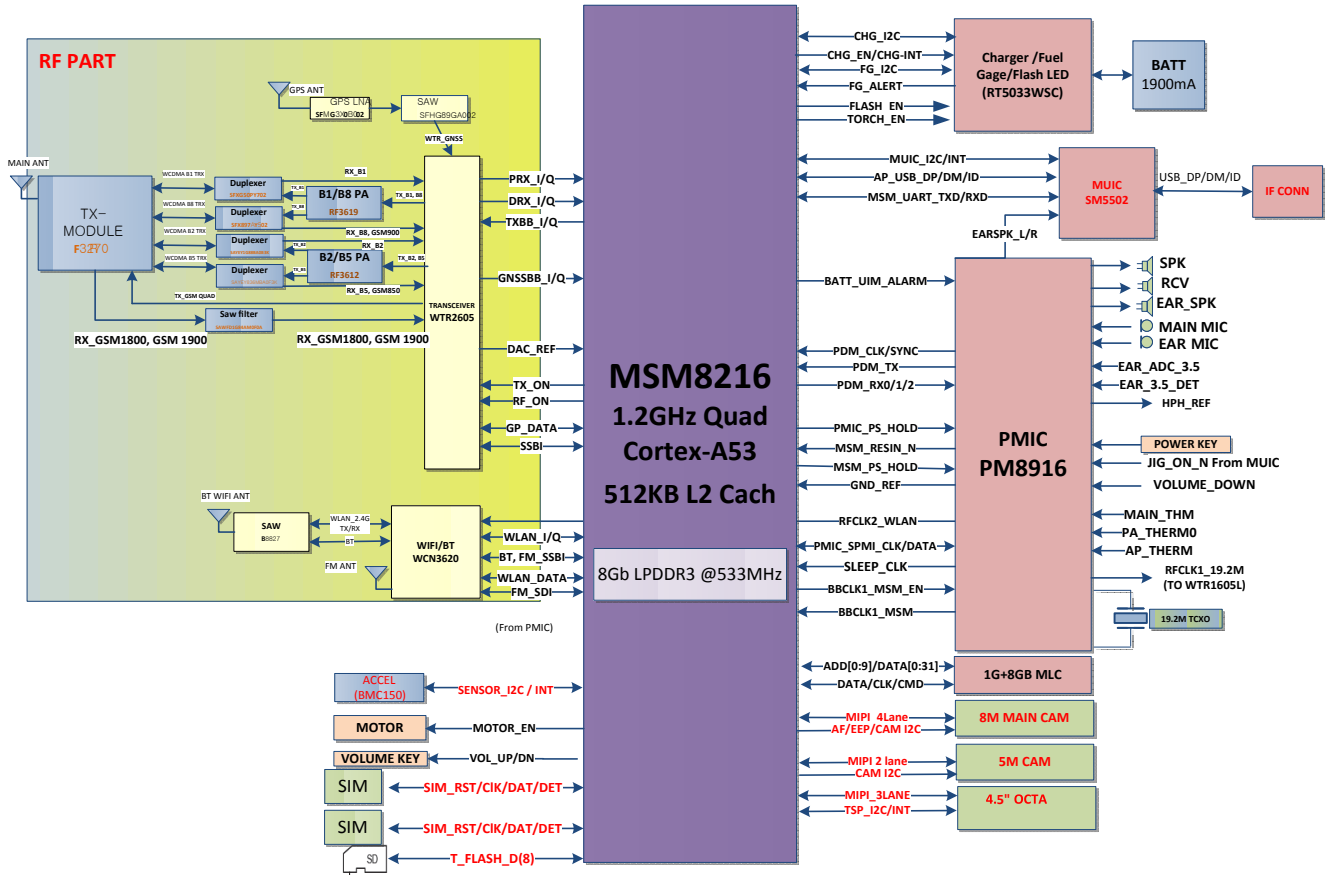
※ Settings



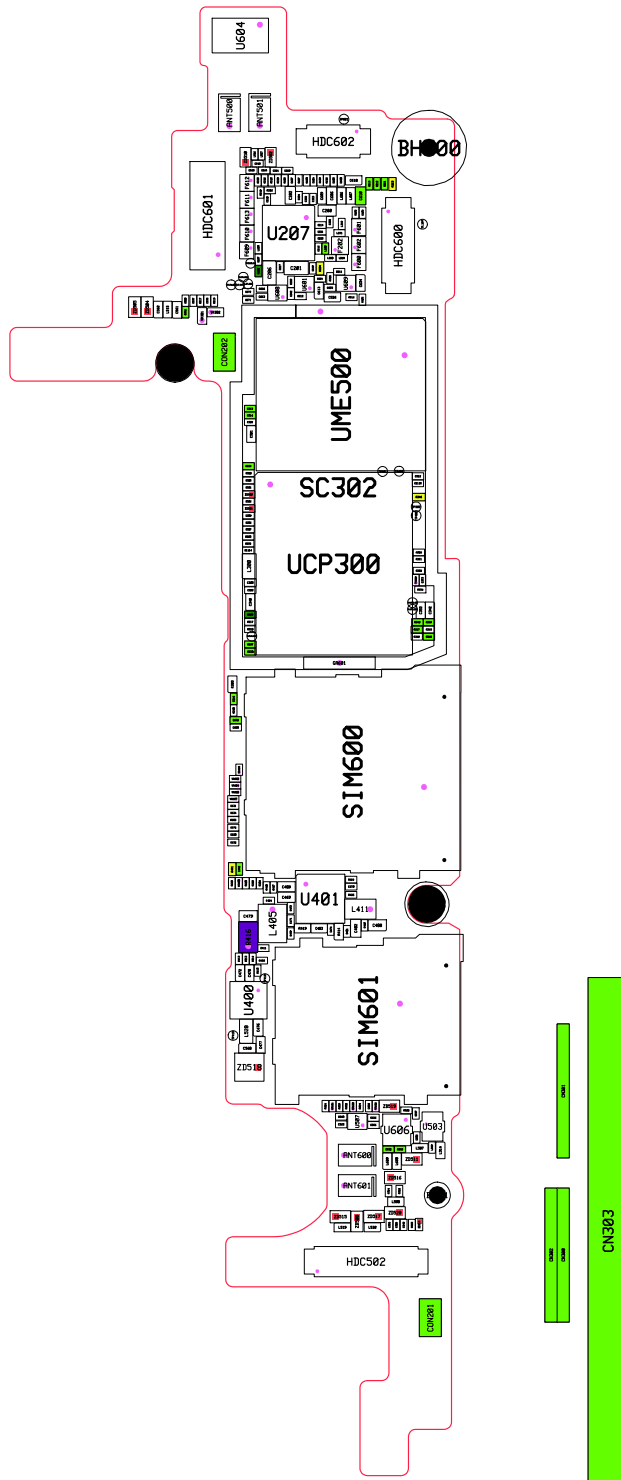
9-1-2. Battery replacement procedure.

- To Be Determined soon.

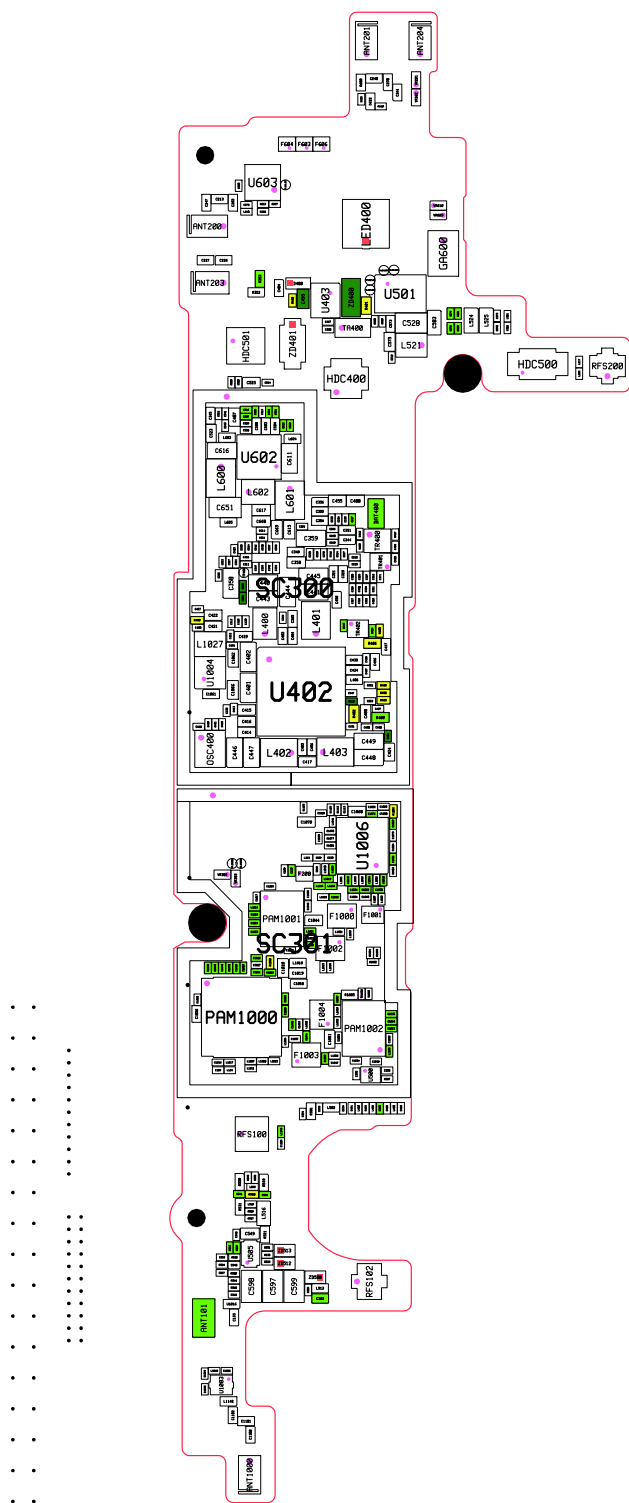
8-1. Block Diagram



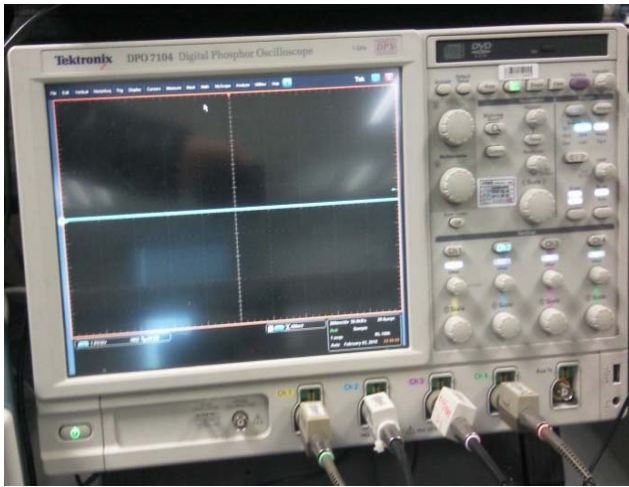
8-2. PCB Diagrams
8-2-1. Main PCB Top



8-2-2. Bottom



8-2-3. Equipments



↑ Oscilloscope



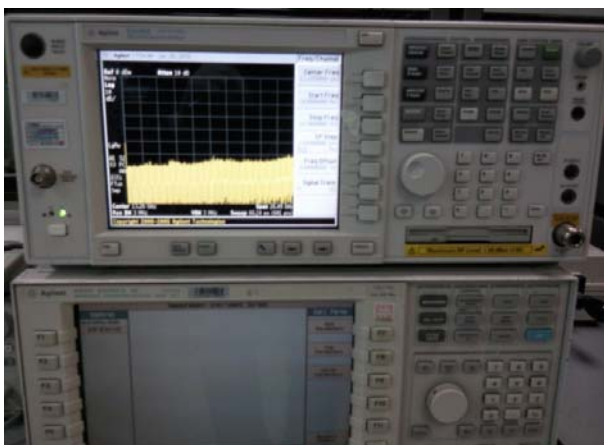
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer



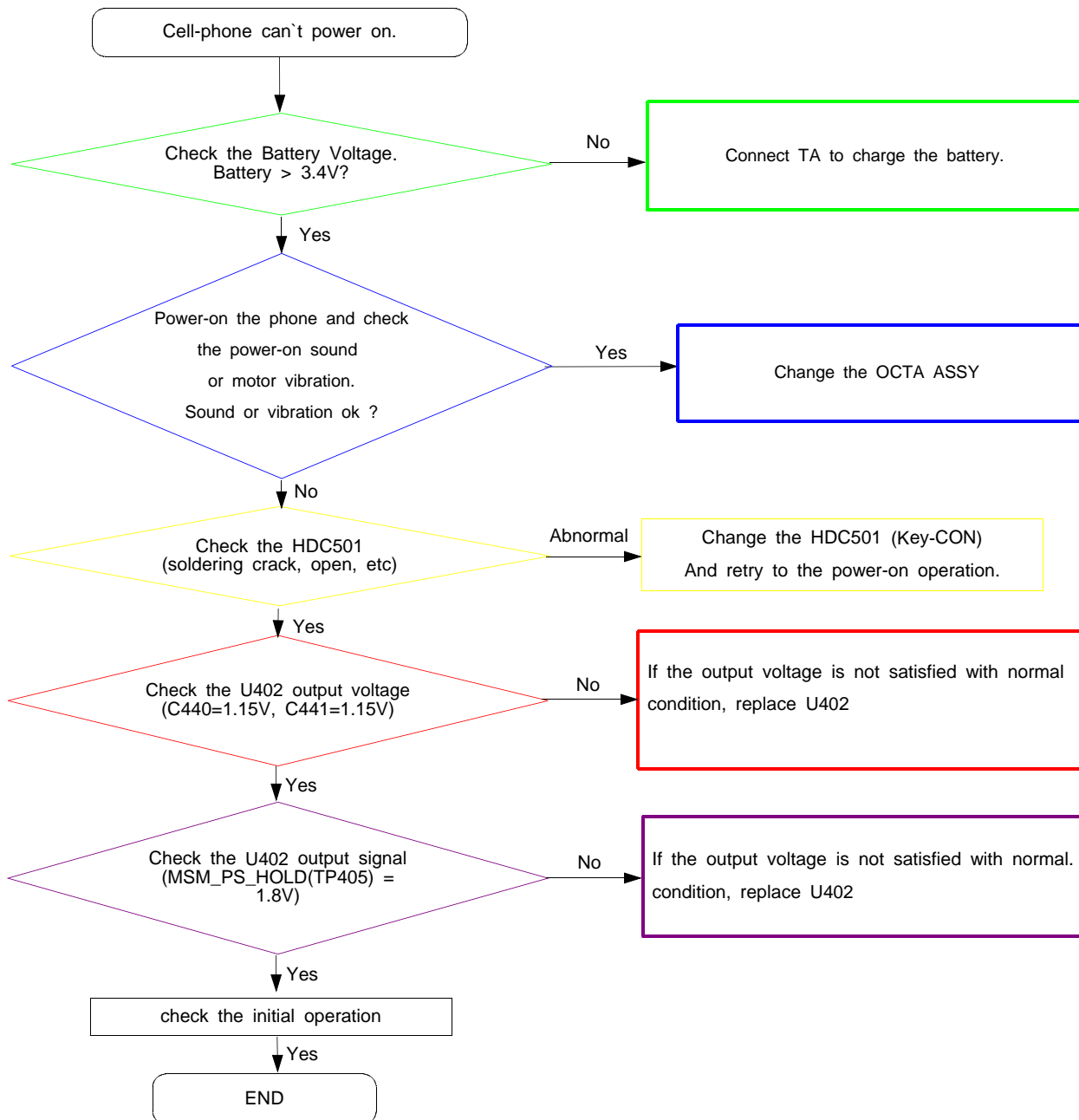
↑ 8960 & Spectrum Analyzer

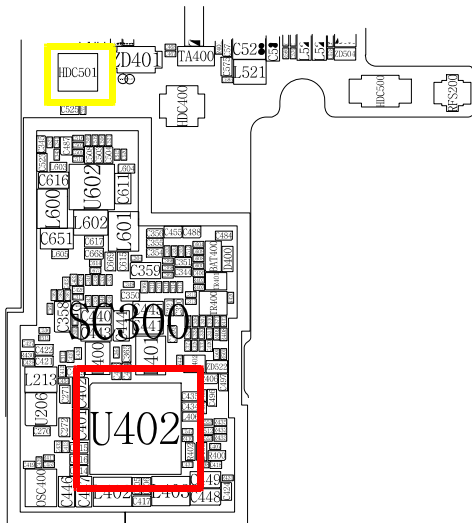
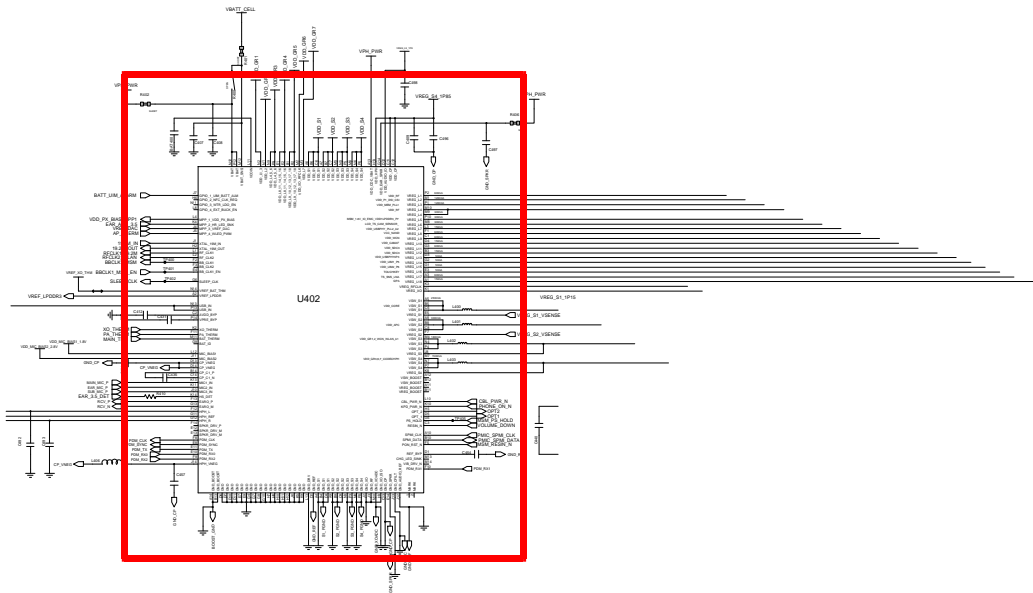
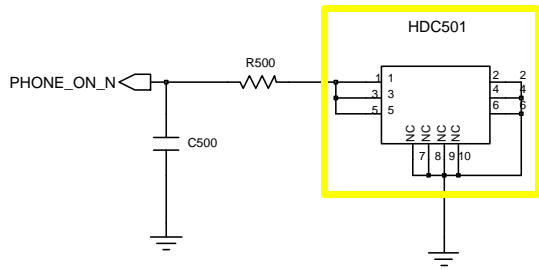


↑ Soldering iron

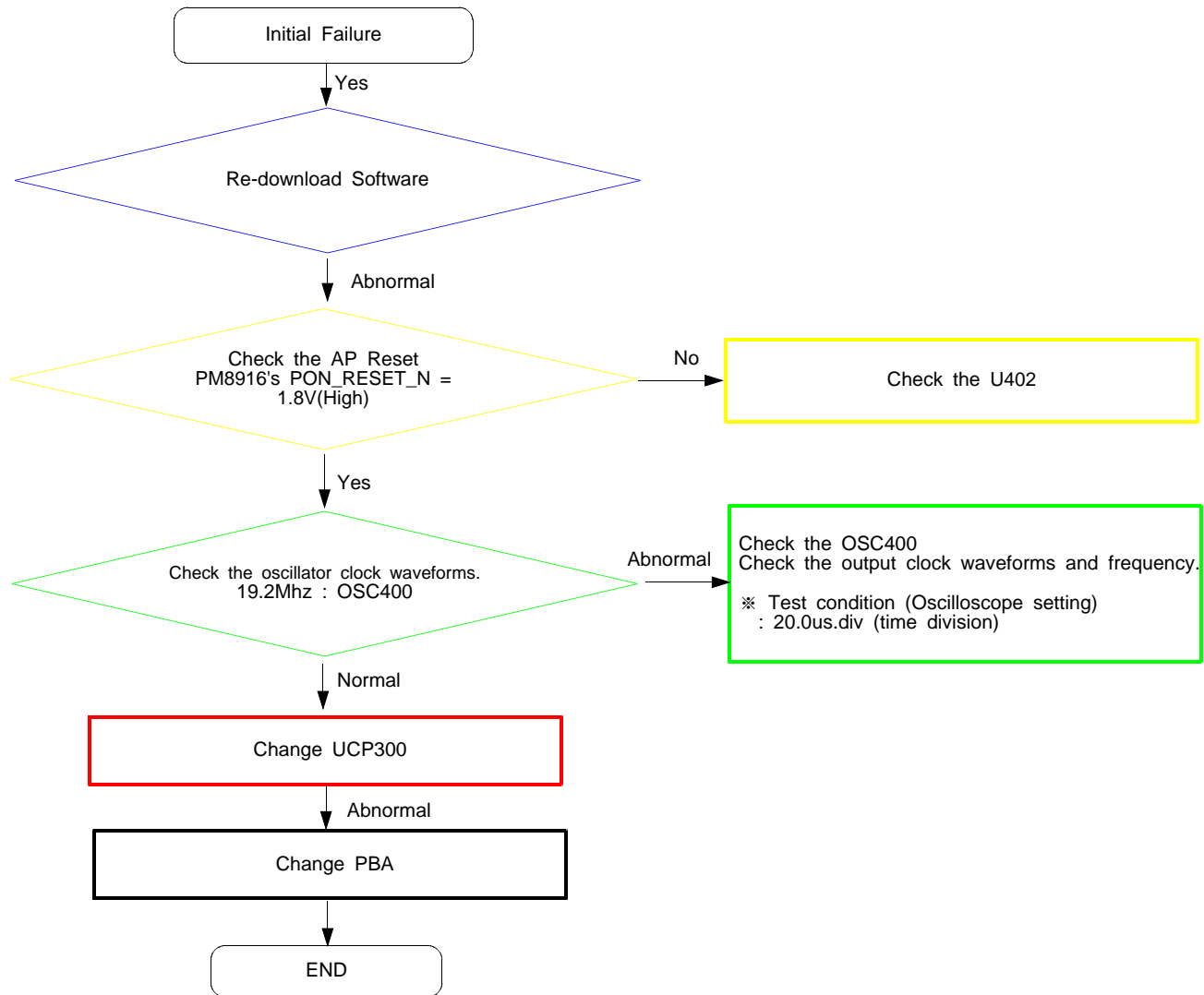
8-3. Flow Chart of Troubleshooting

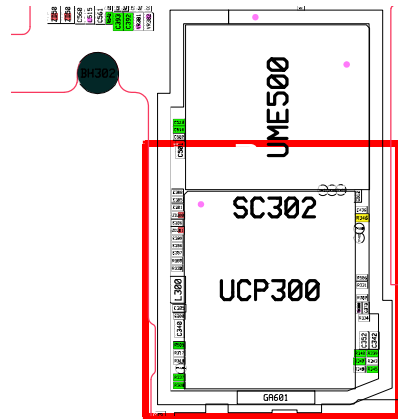
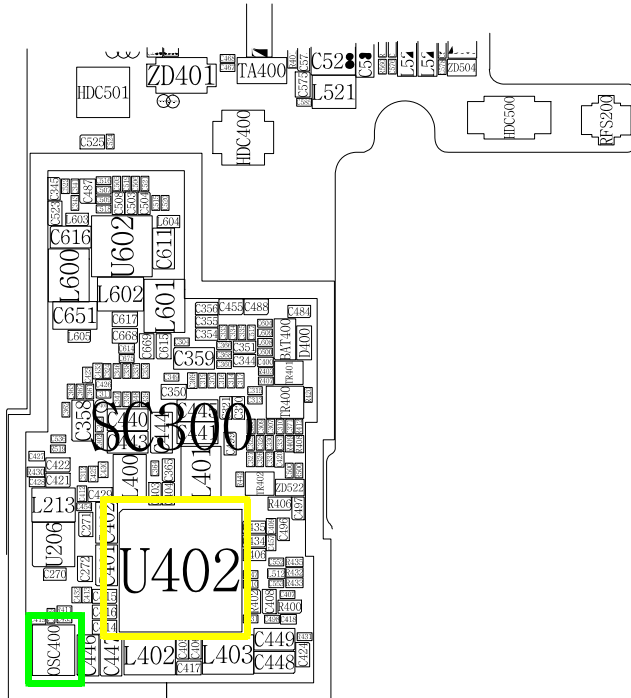
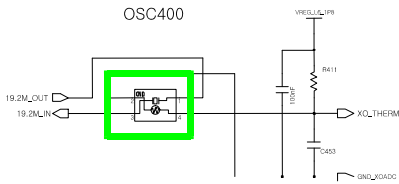
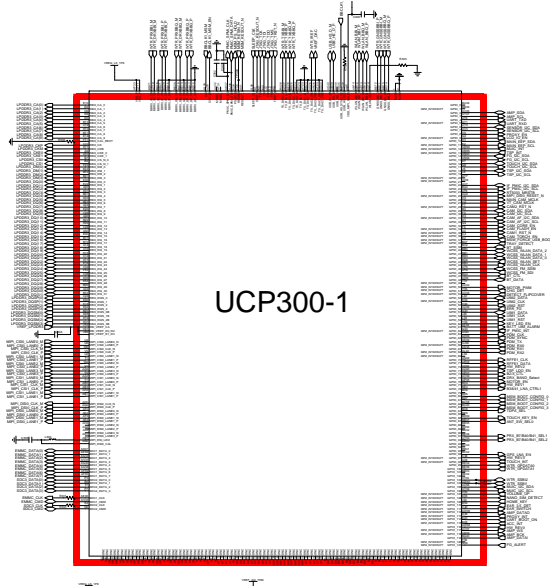
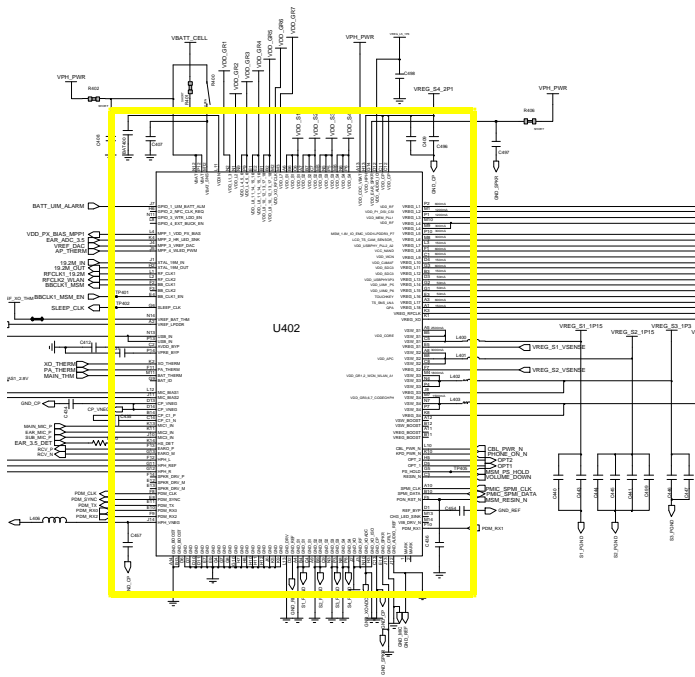
8-3-1. Power On



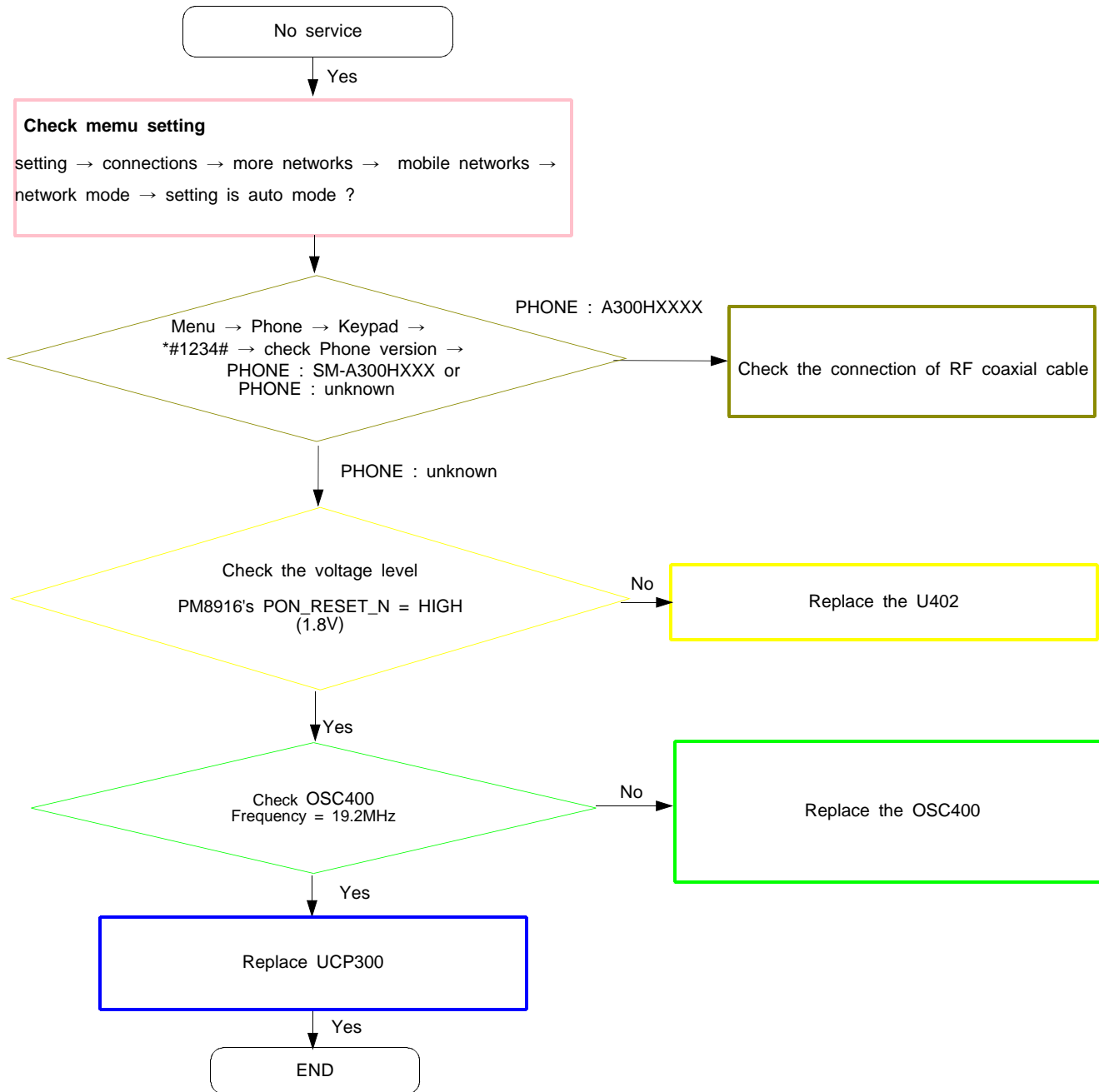


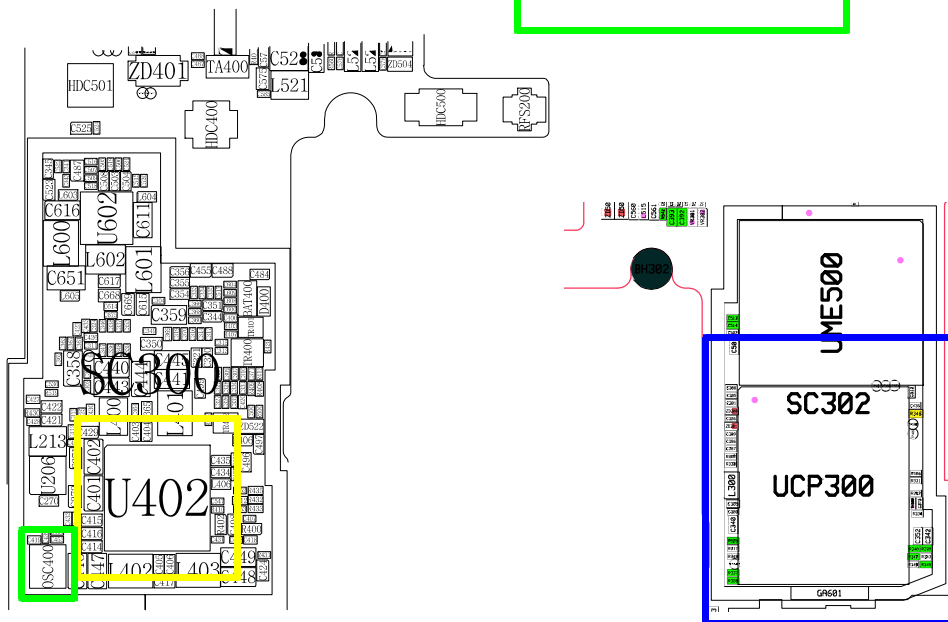
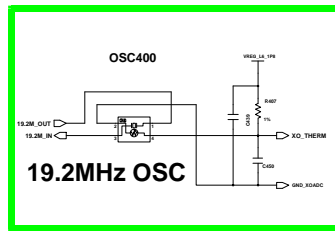
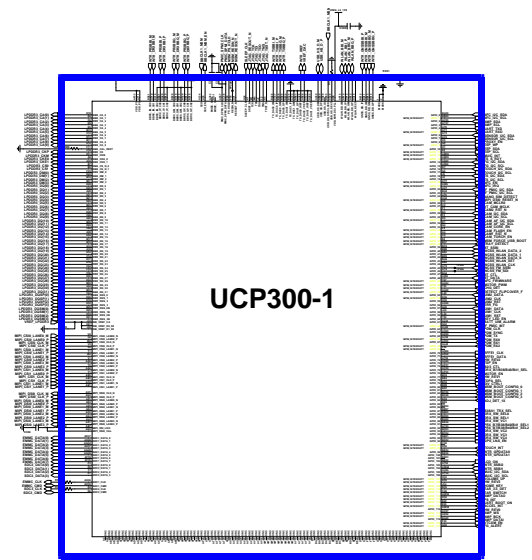
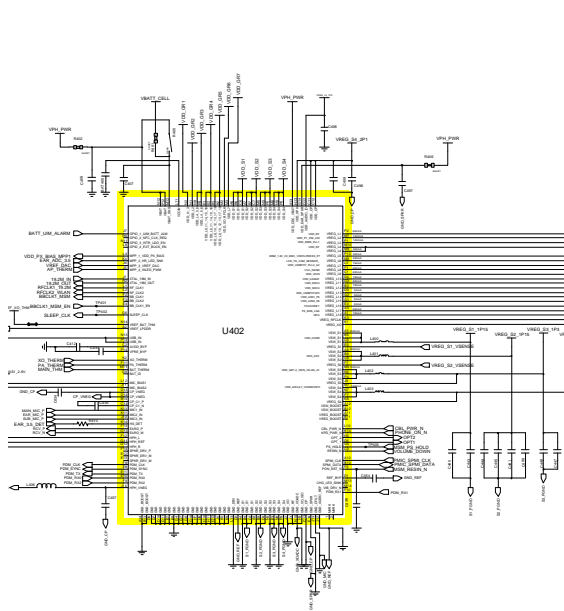
8-3-2. Initial



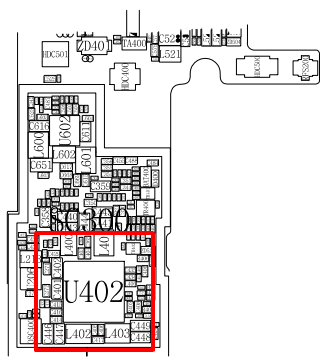
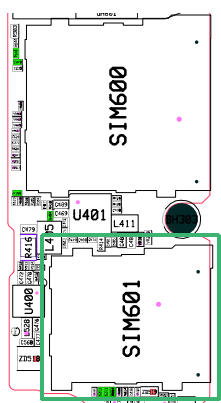
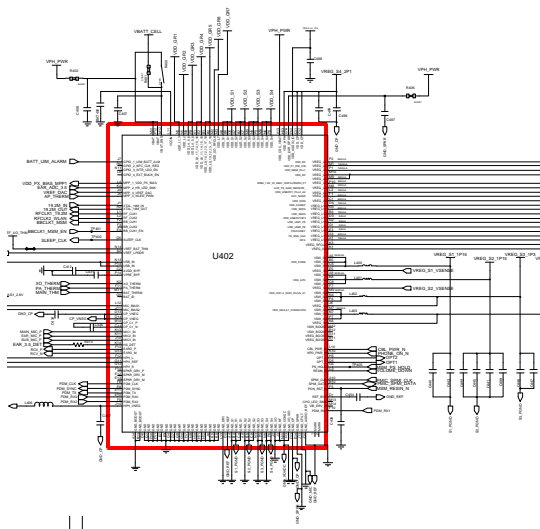
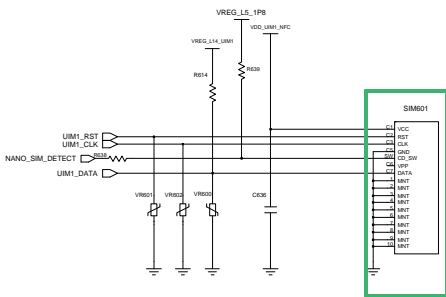
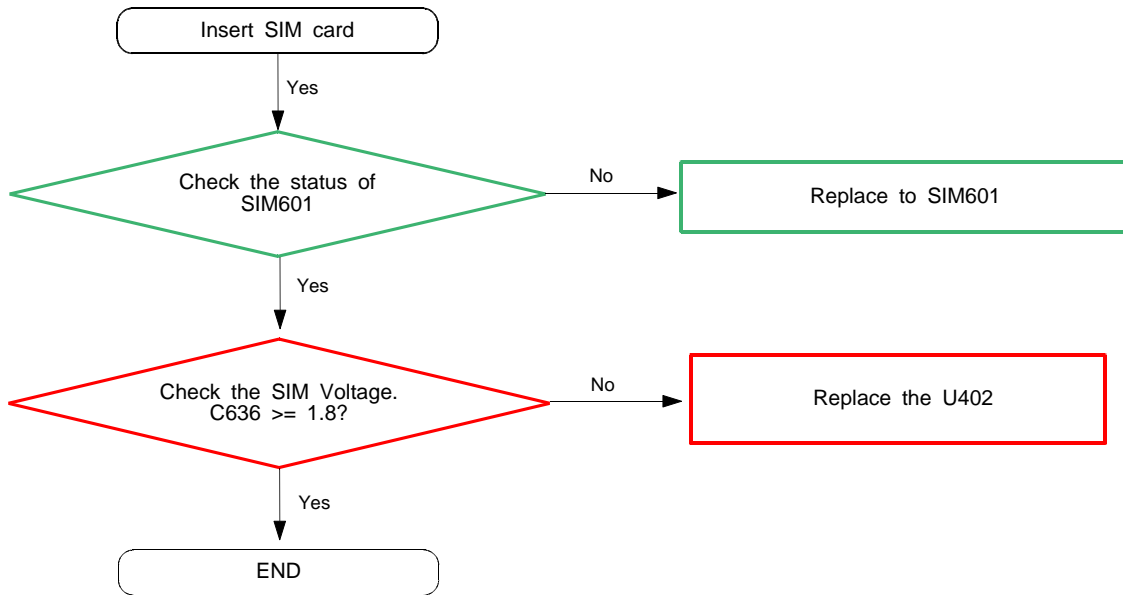


8-3-3. No Service

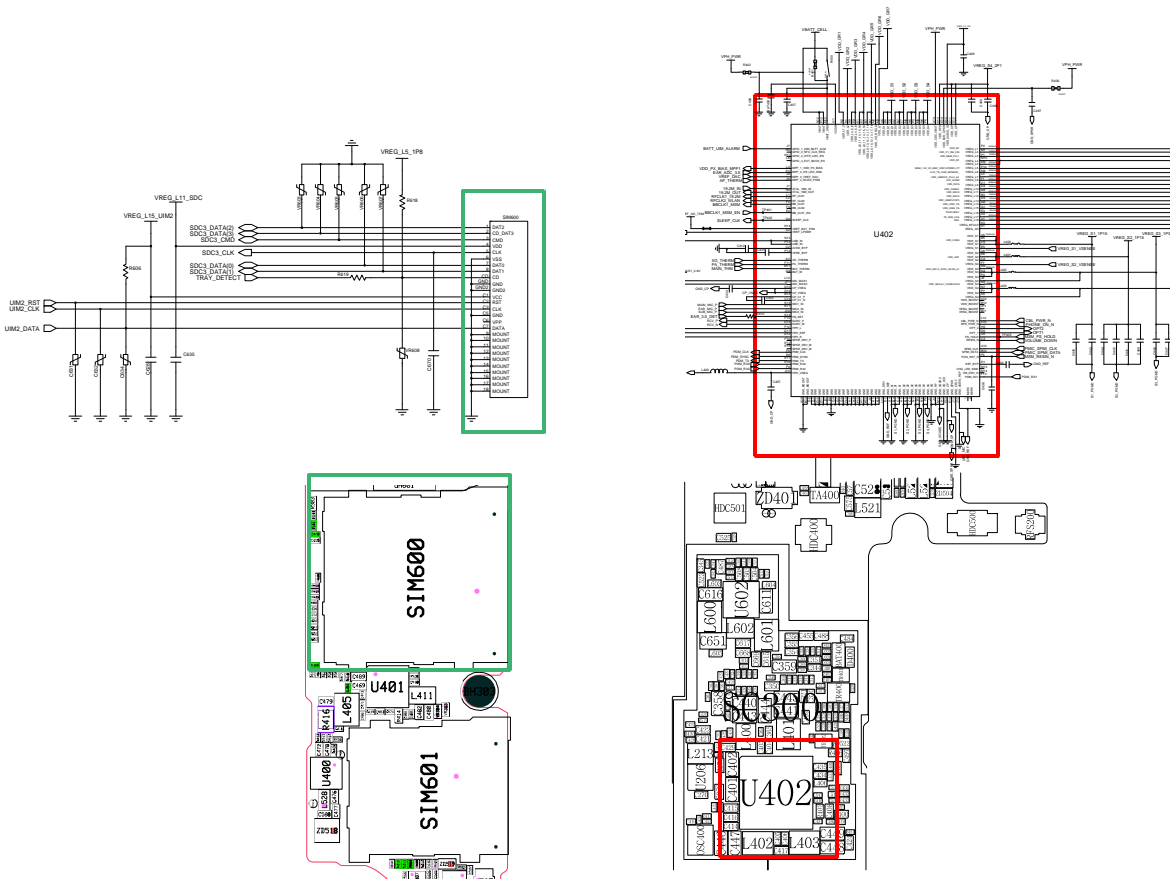
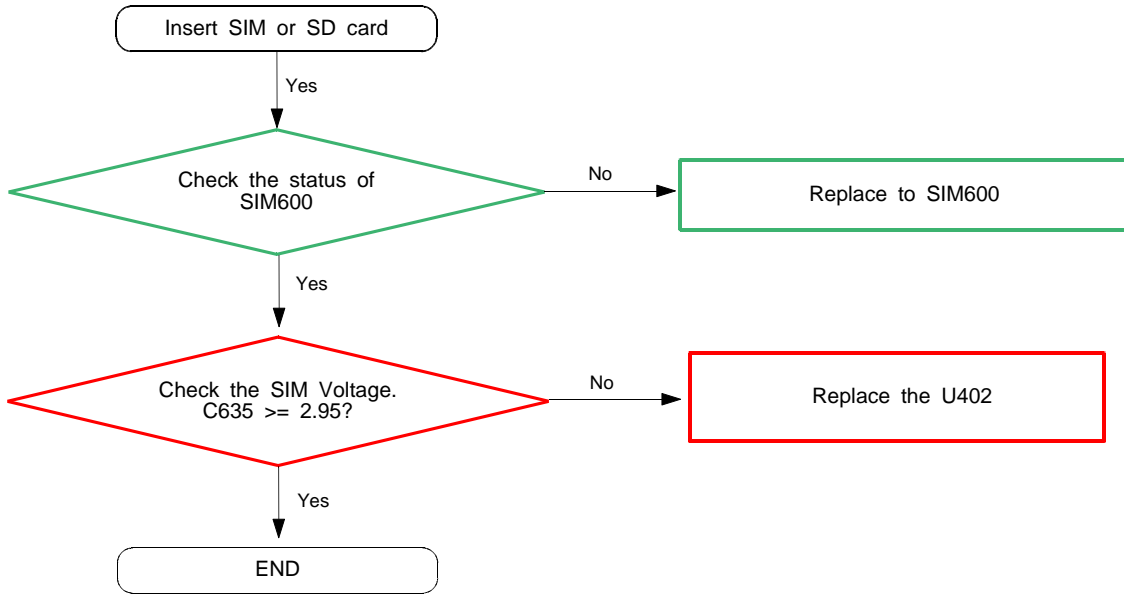




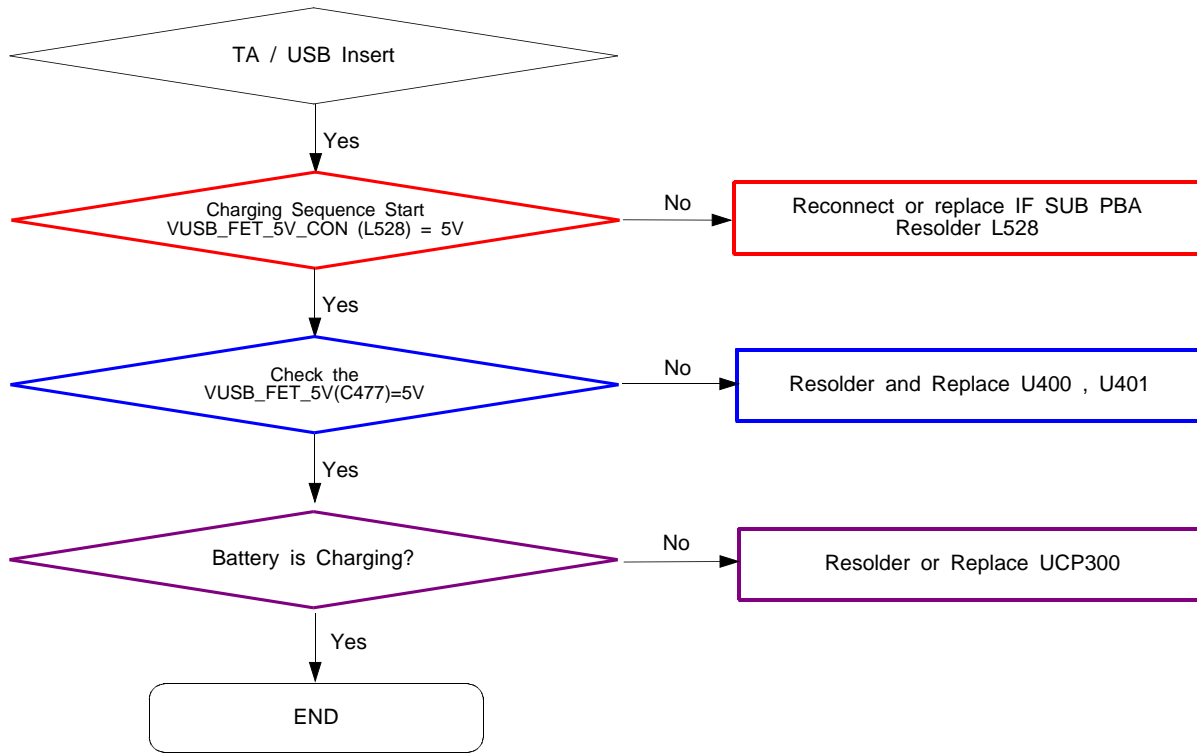
8-3-4. SIM1 Part

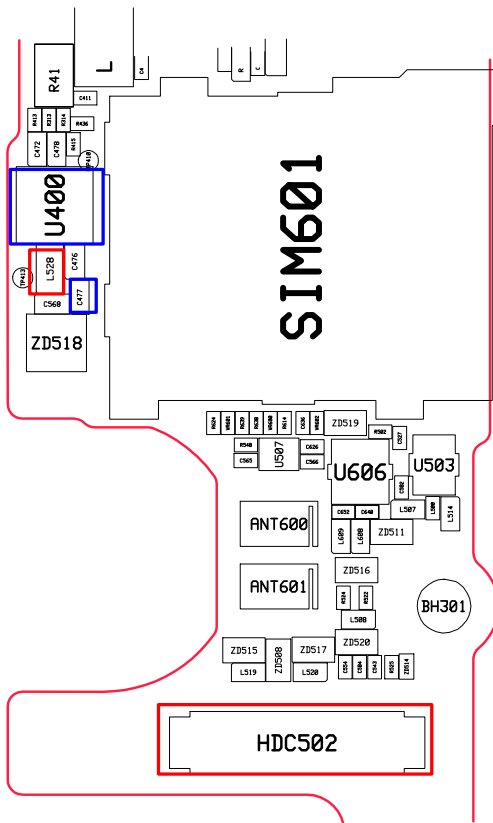
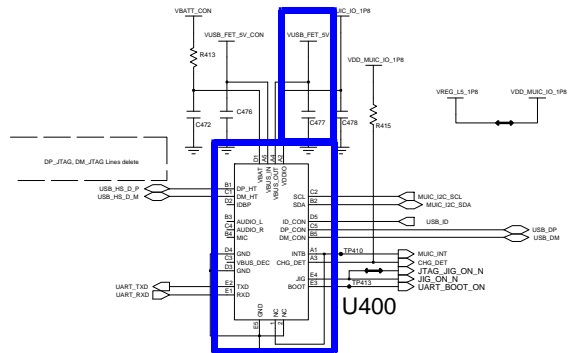
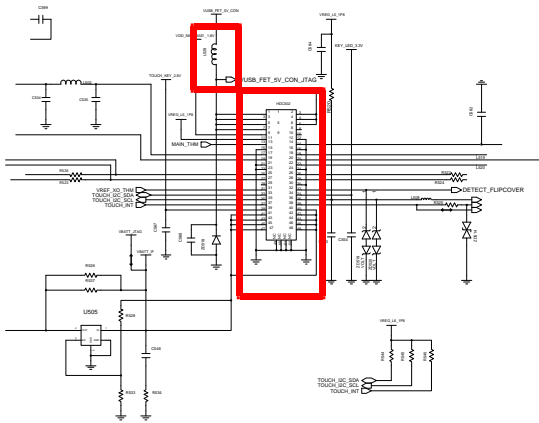


8-3-5. Hybrid Socket Part

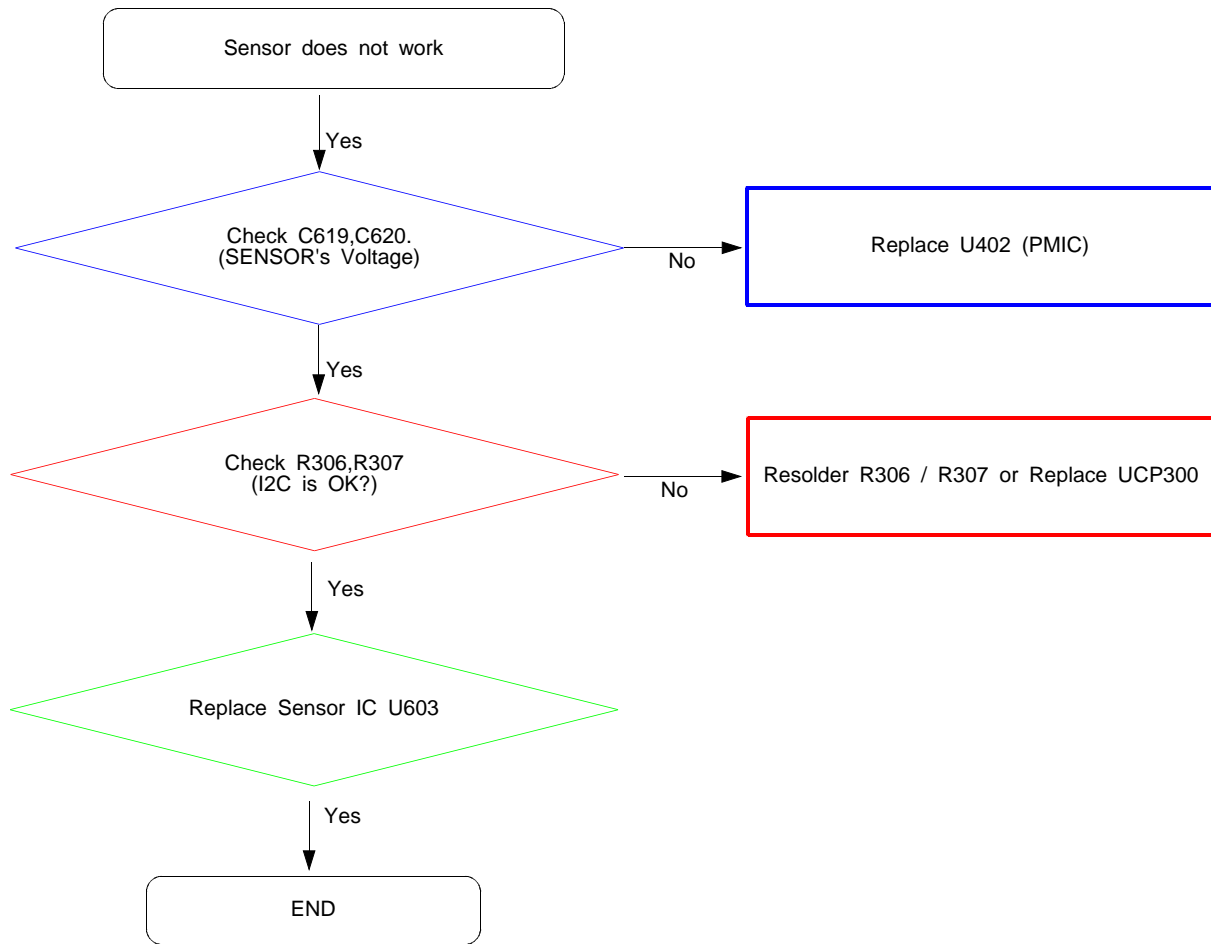


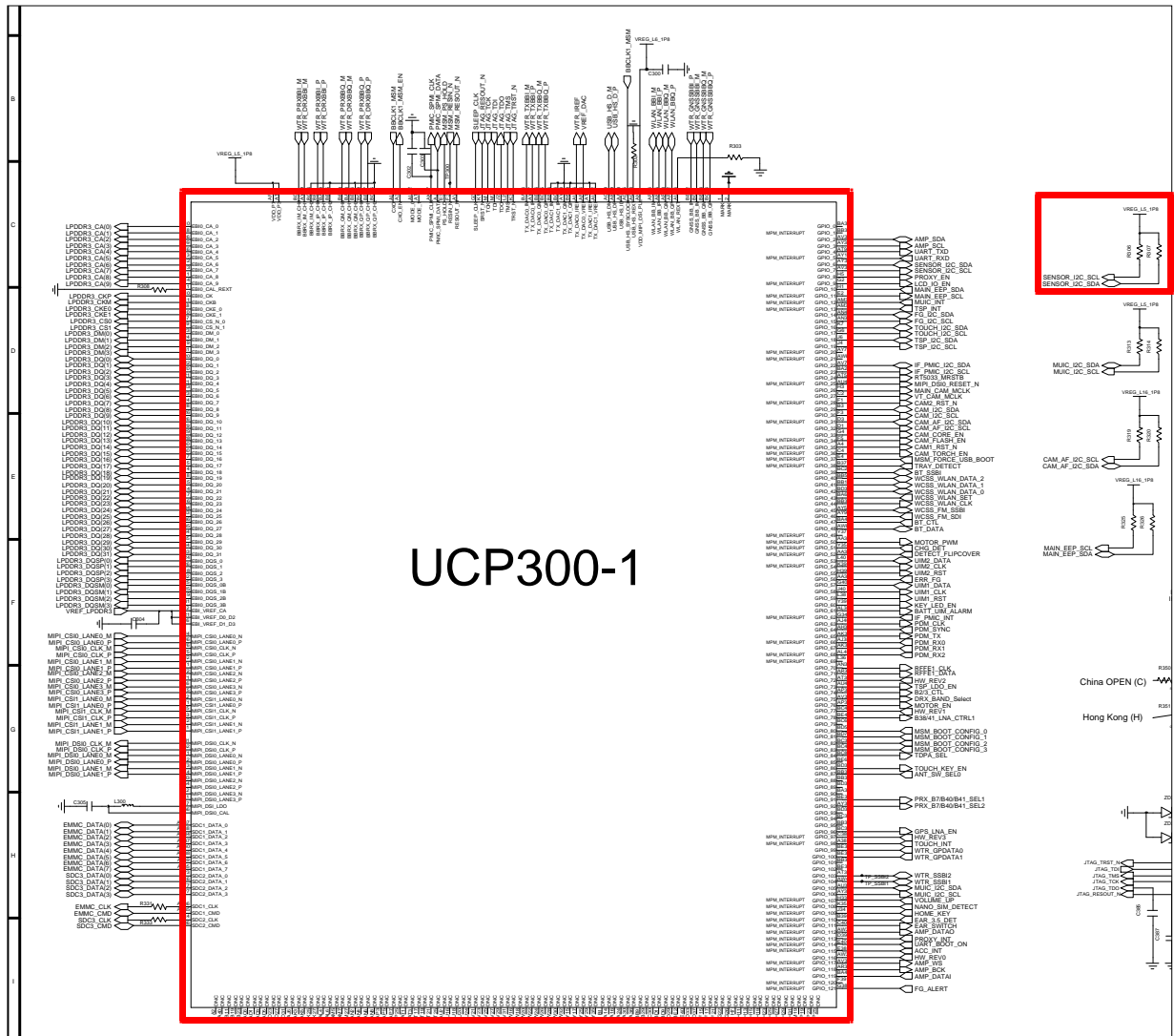
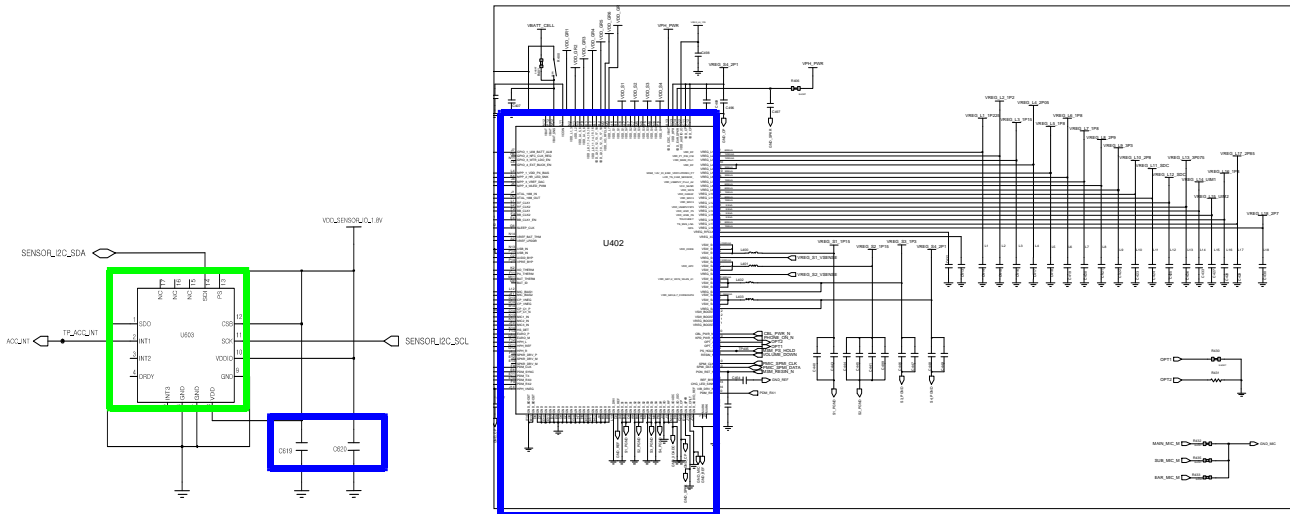
8-3-4. Charging Part





8-3-5. 6 Axis Sensor

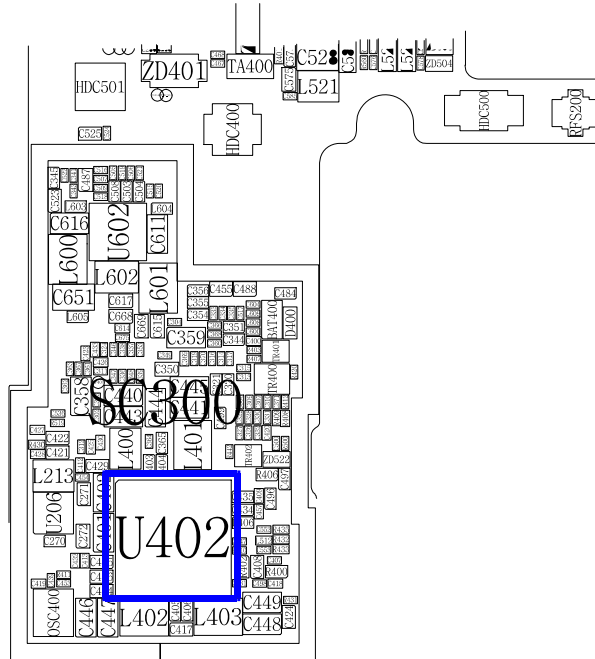
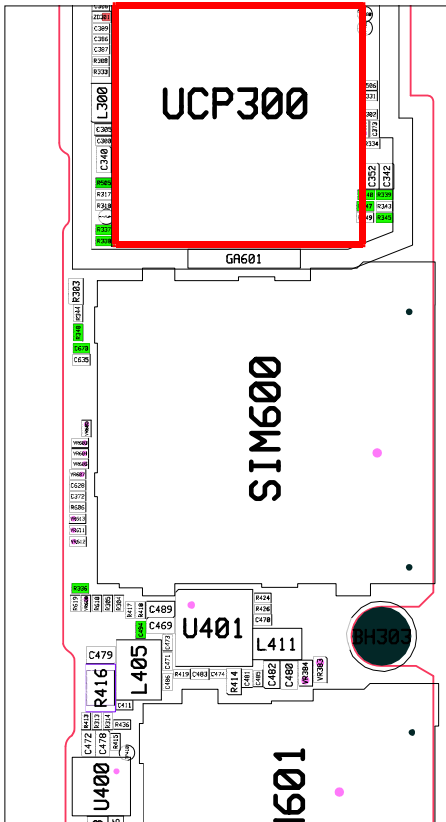
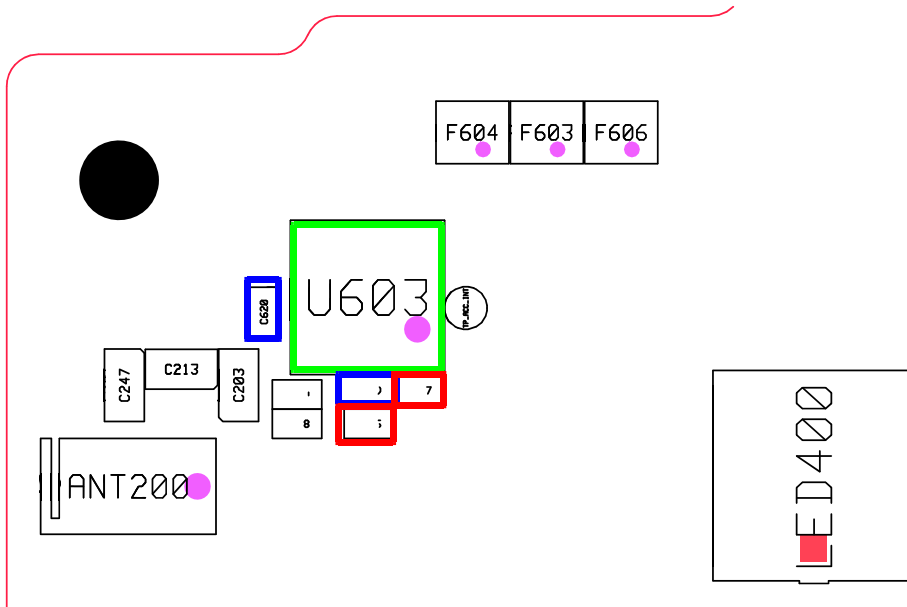




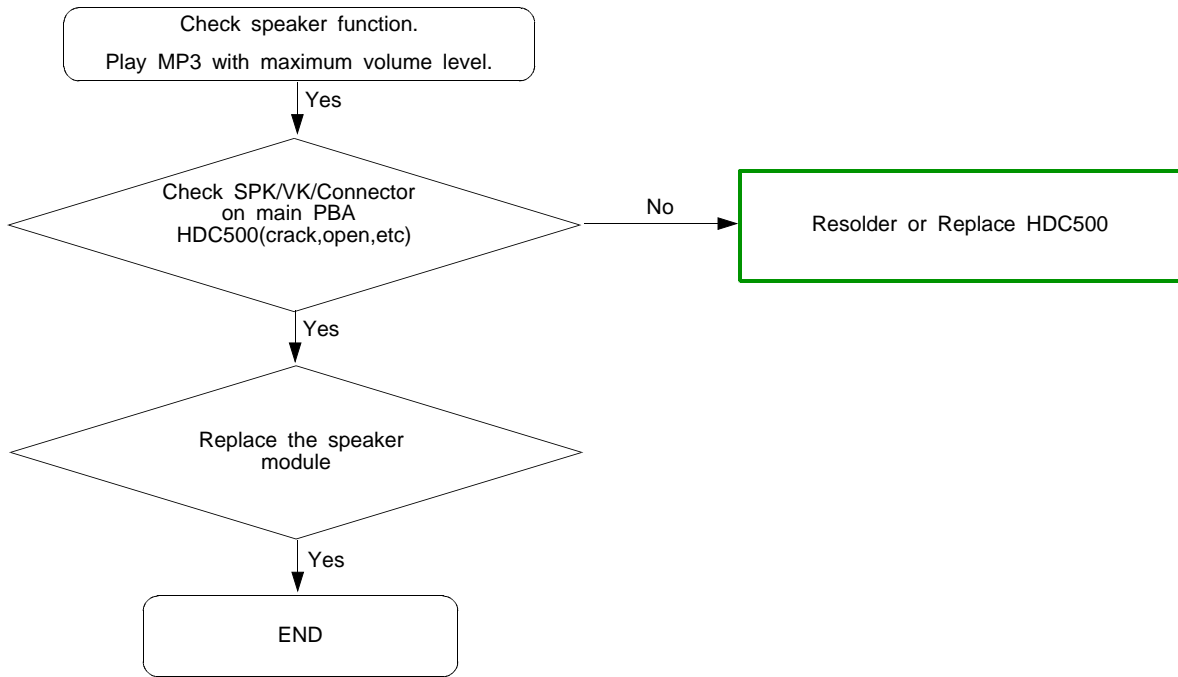
UCP300-1

China Openp (C)

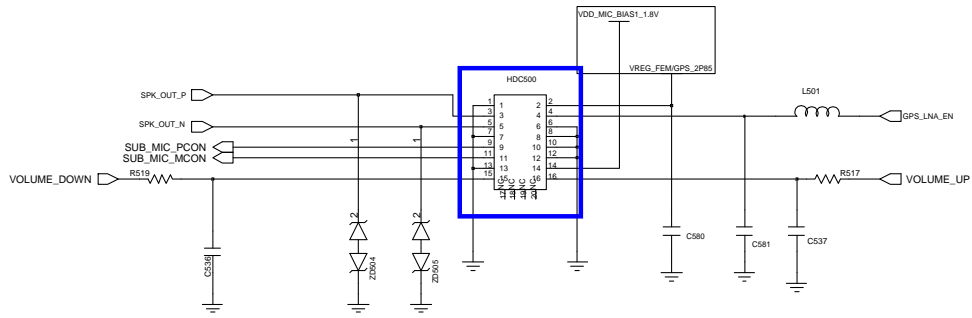
Hong Kong (H)



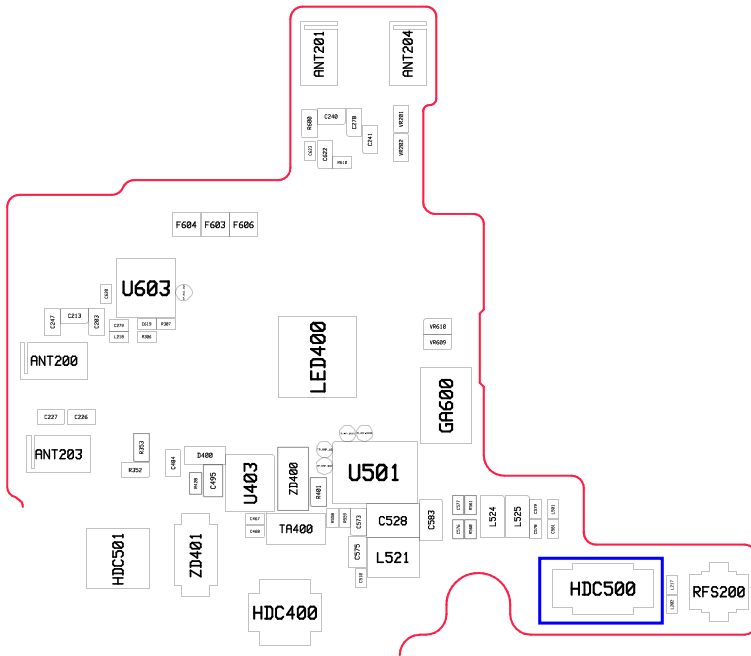
8-3-6. Speaker Part



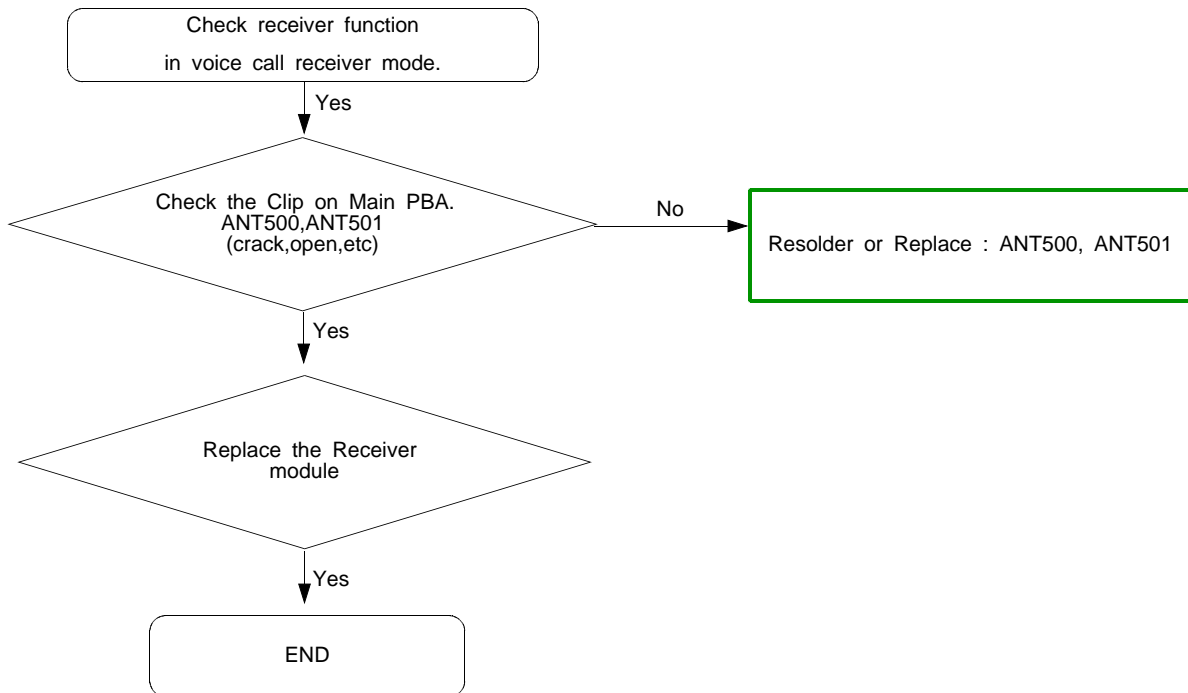
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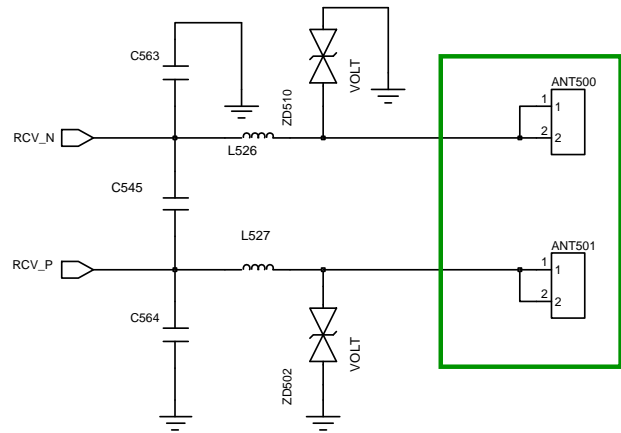


SPK / VK / Connector

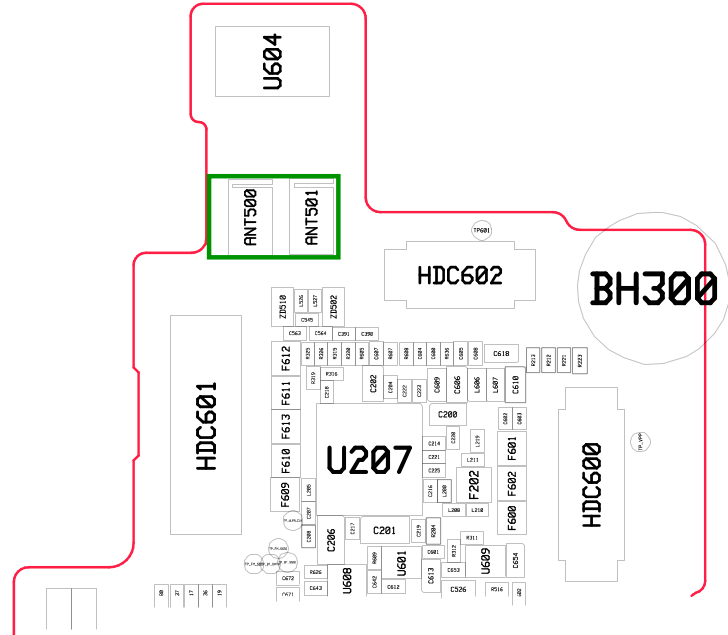


8-3-7. Receiver Part

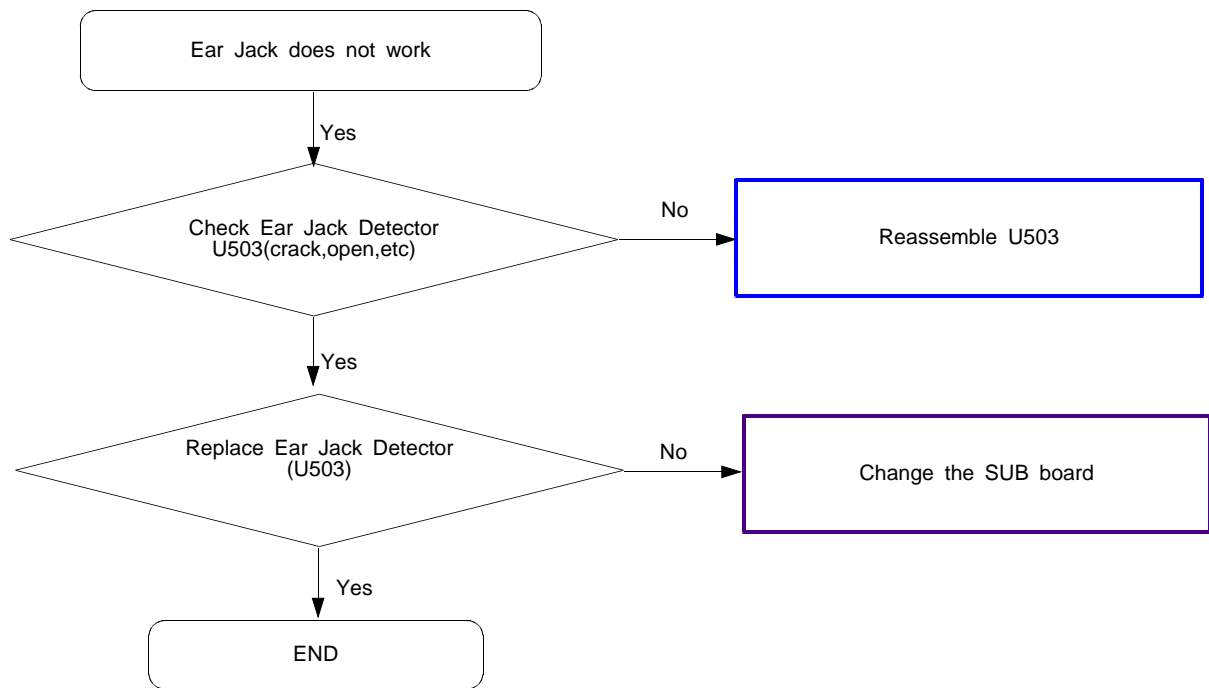


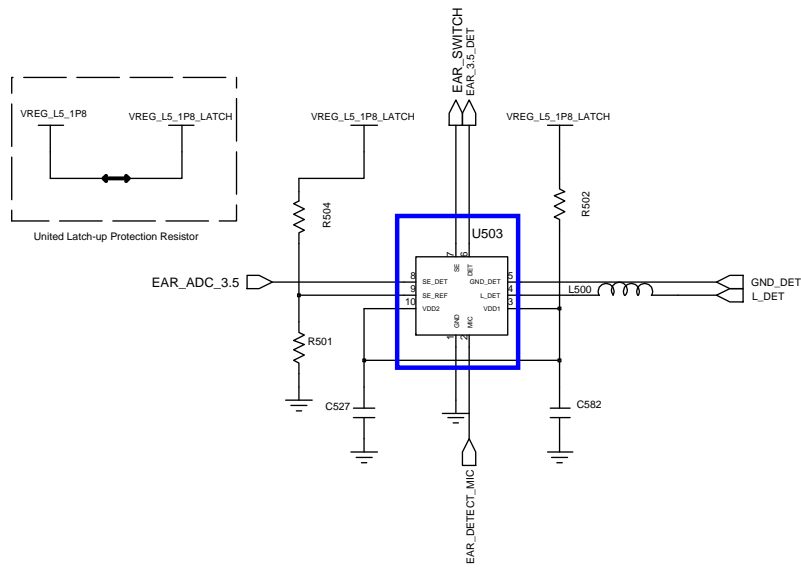


RCV CONTACT

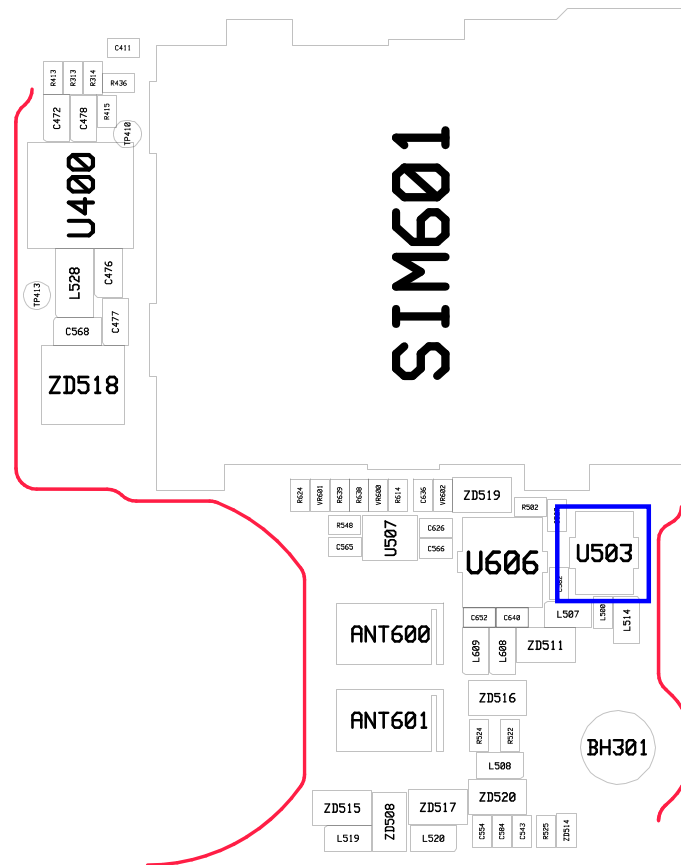


8-3-8. Ear Jack

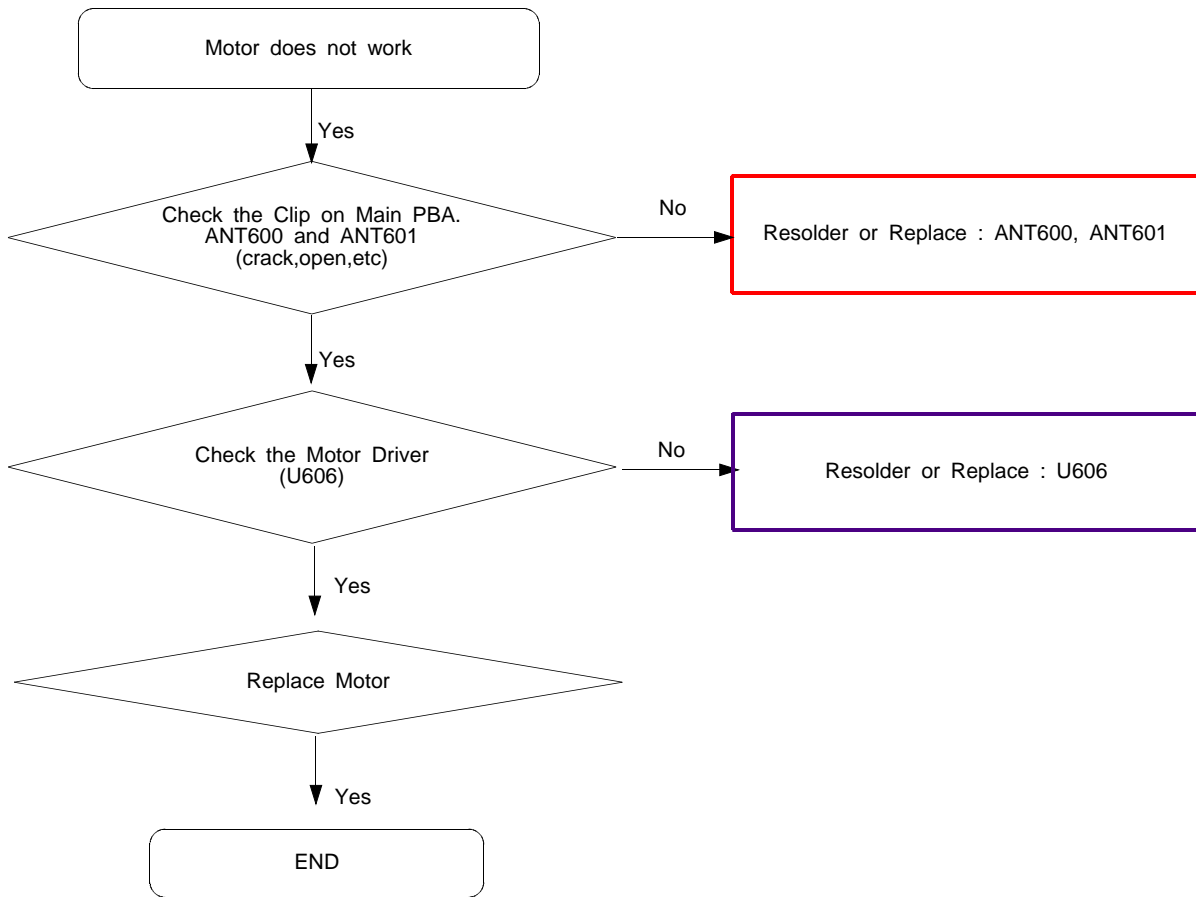


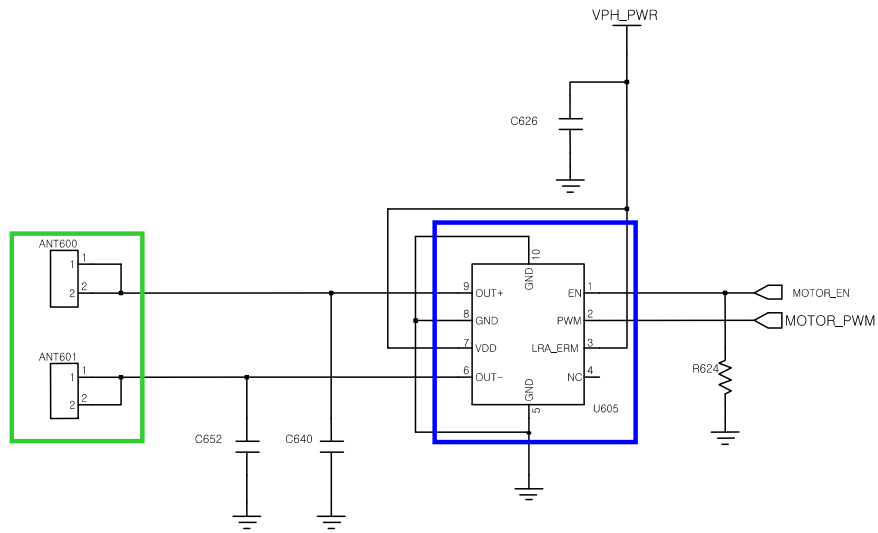


Earphone Detect

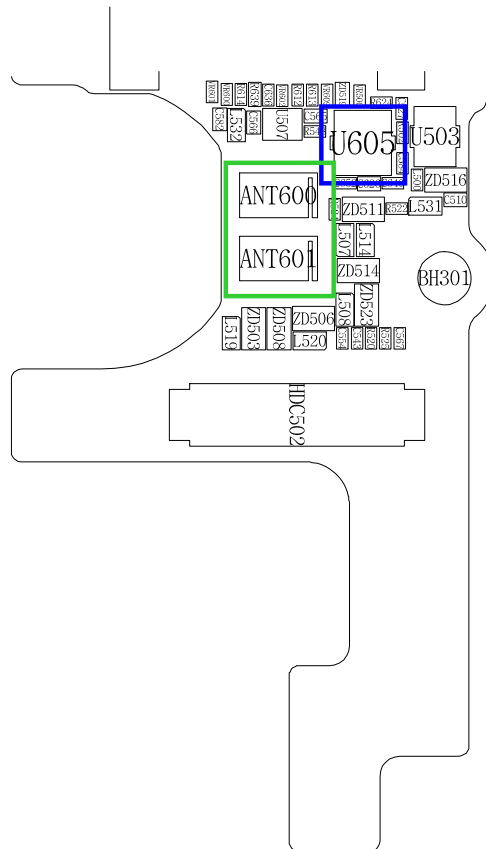


8-3-9. Motor

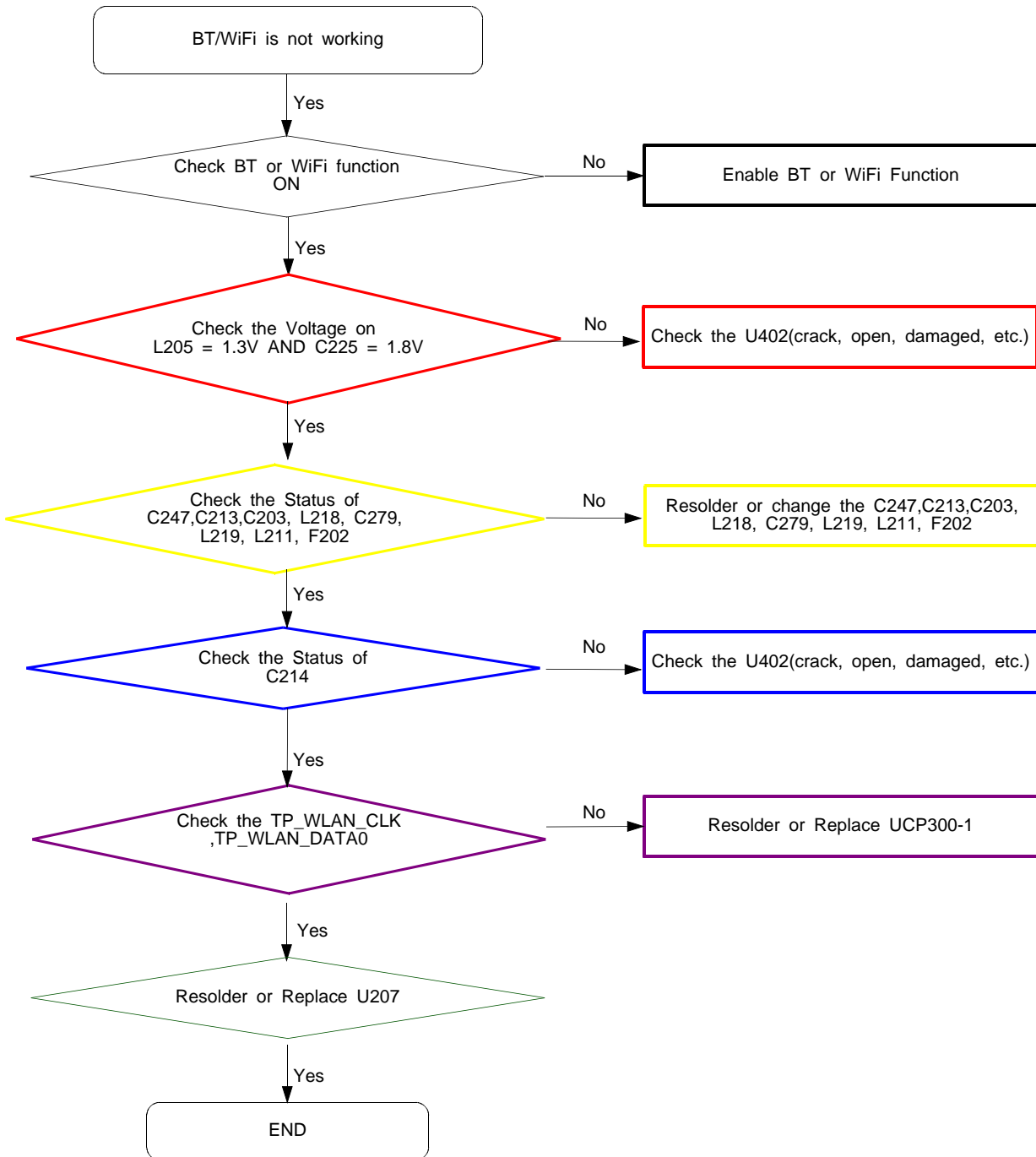


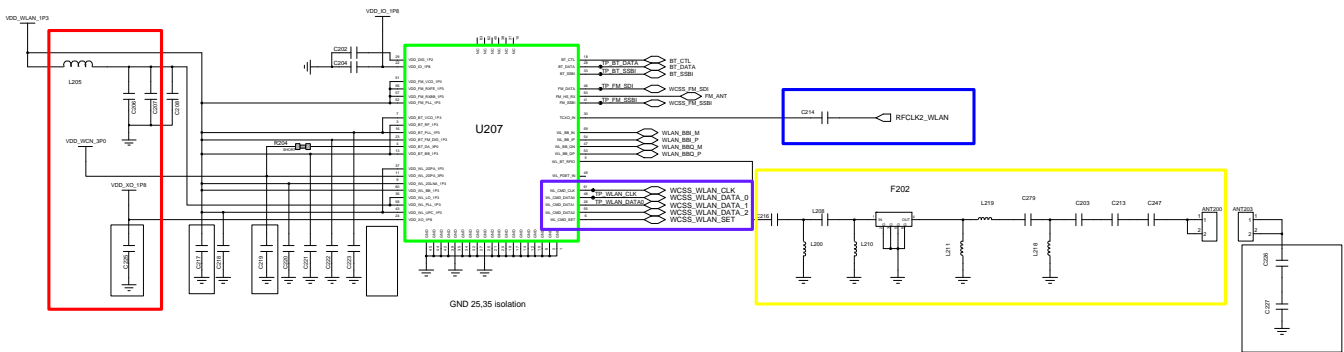


Haptic Driver



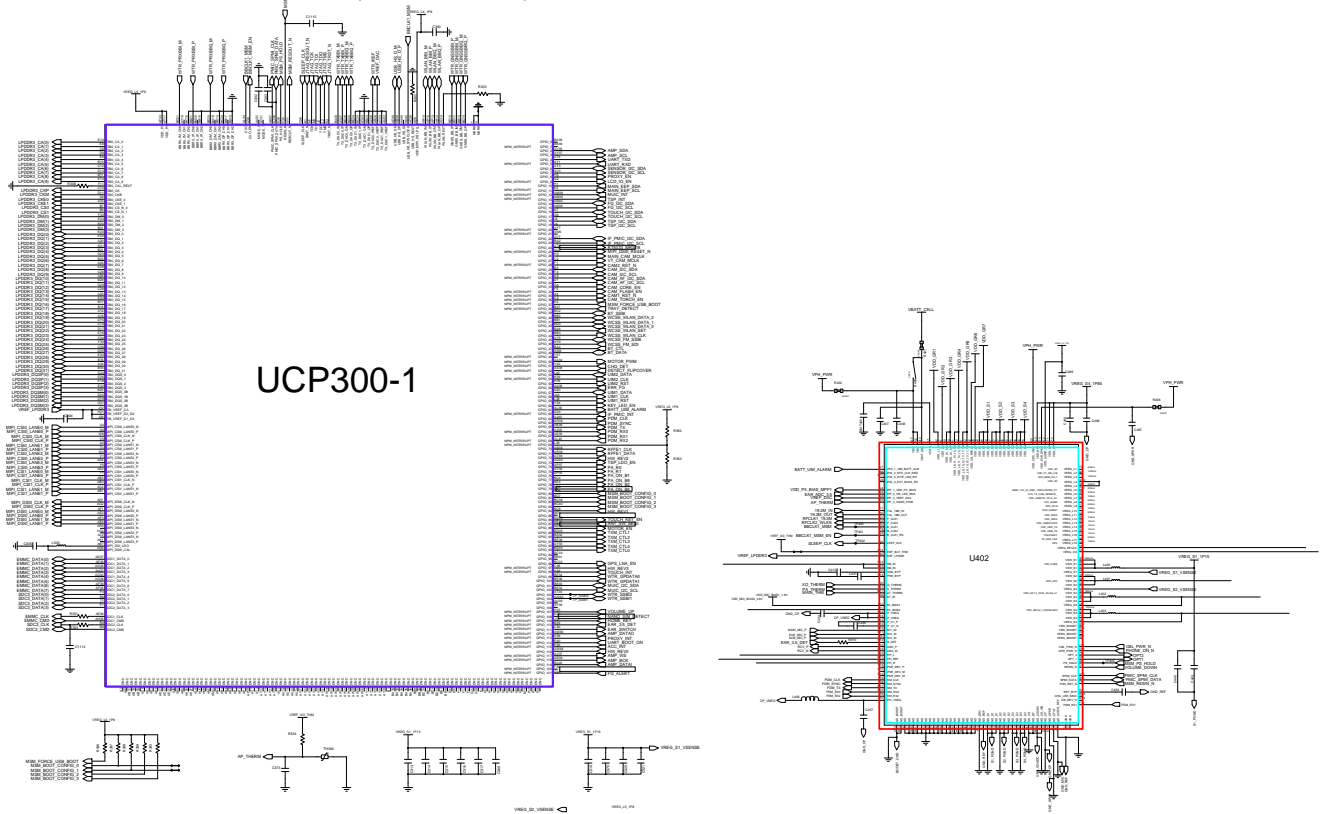
8-3-10. BT/WIFI

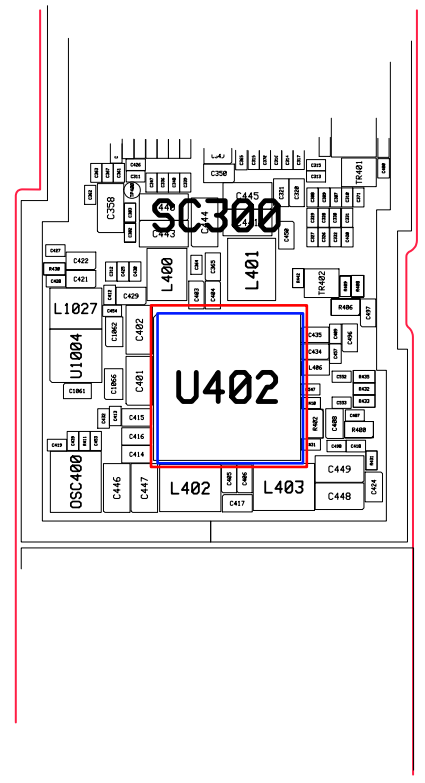
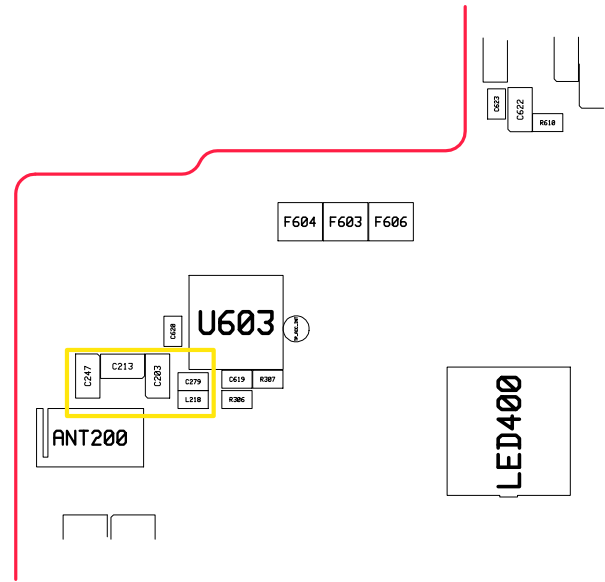
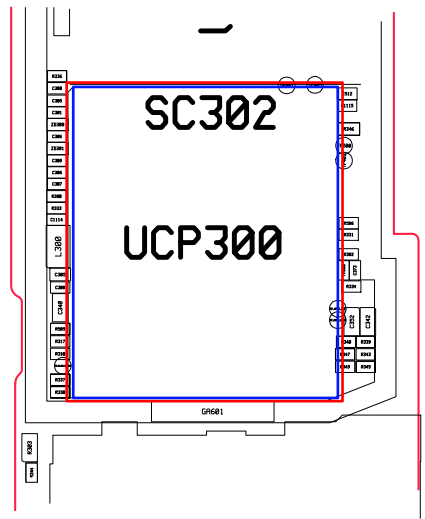
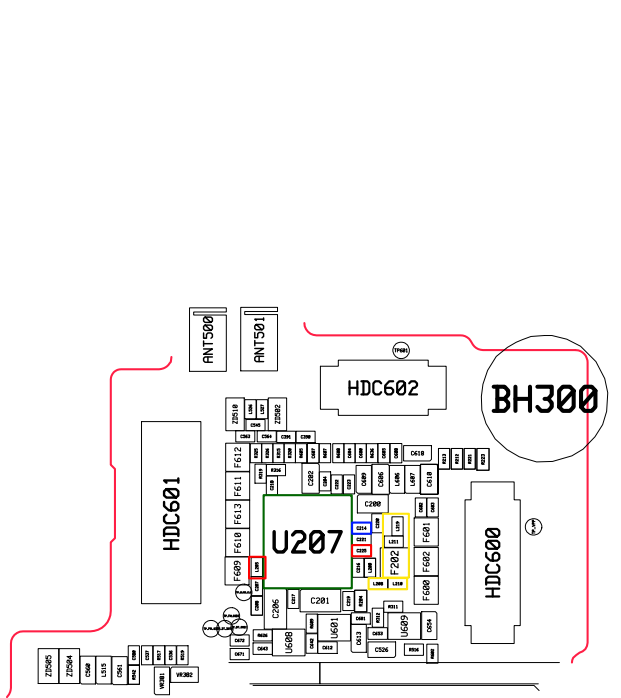




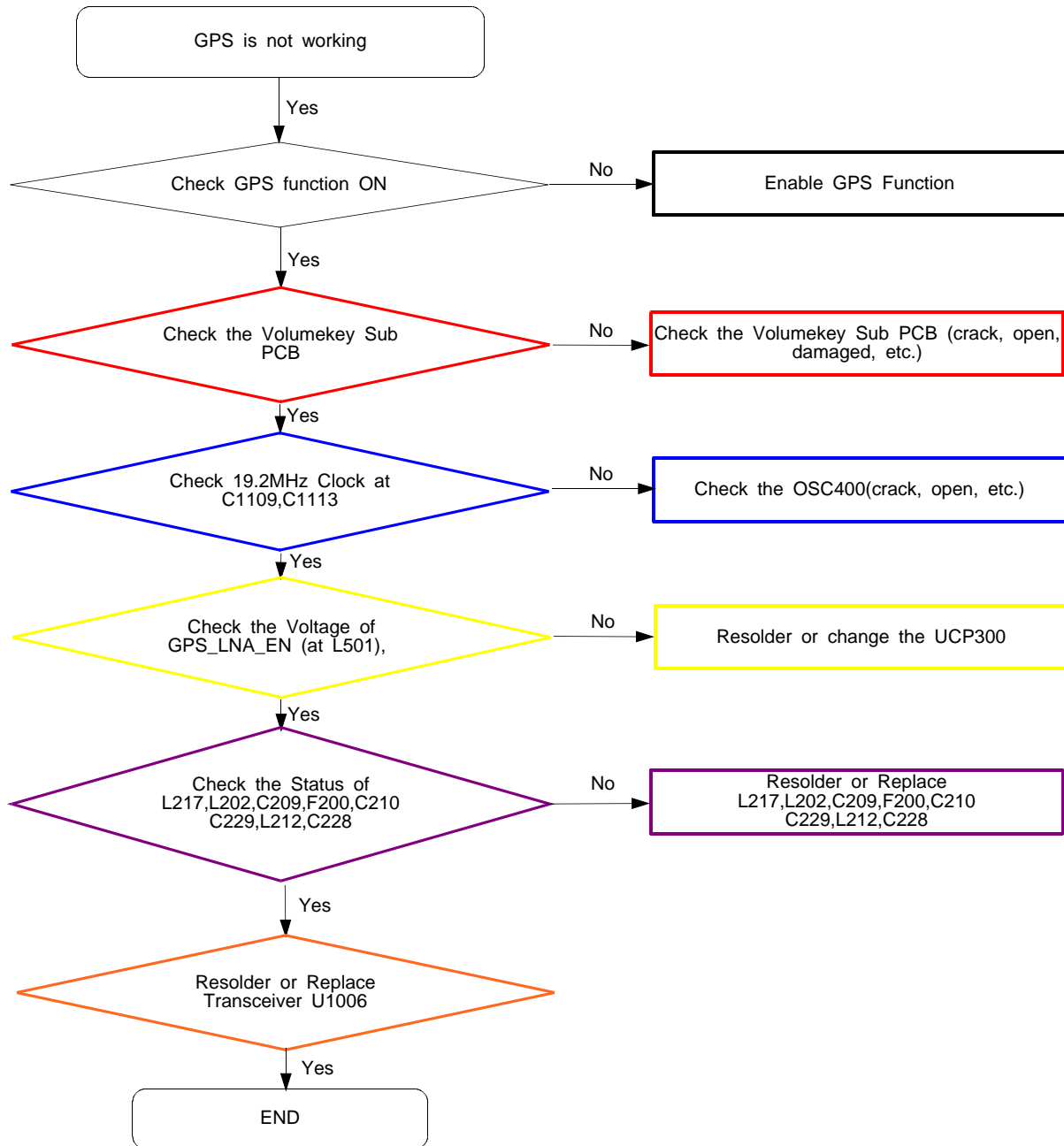
BT/WIFI

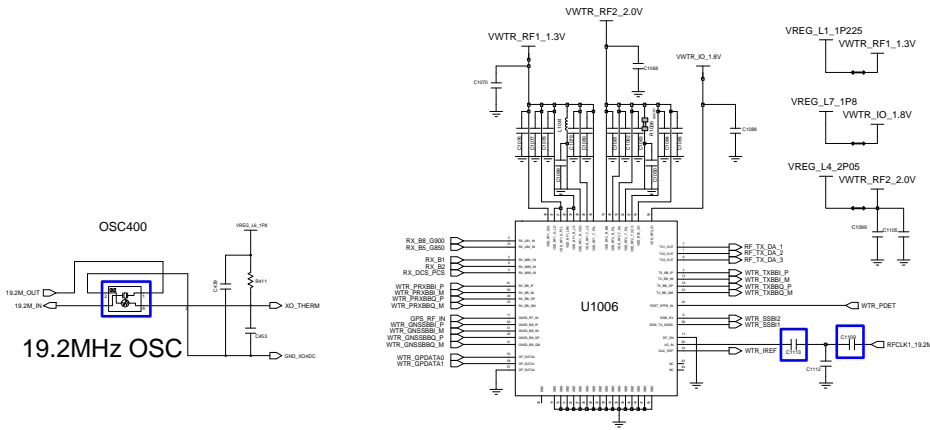
AP PART (MSM8216)



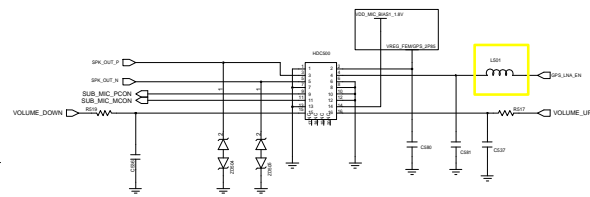
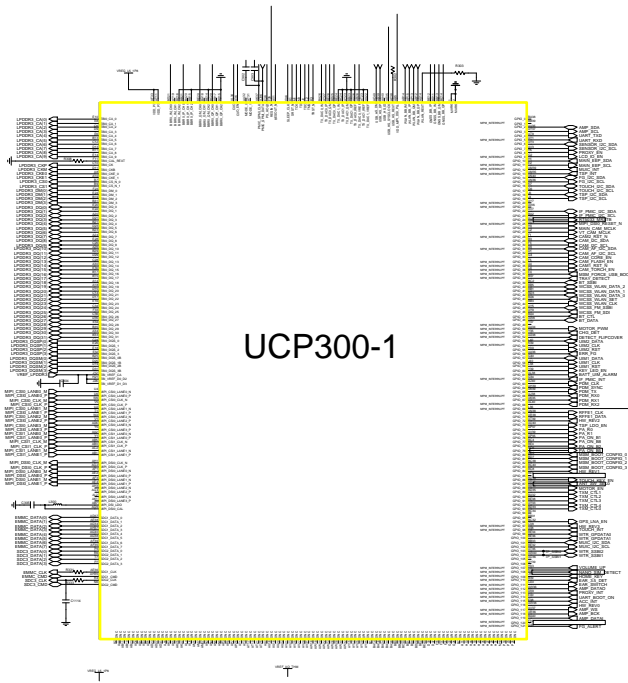


8-3-8. GPS Part

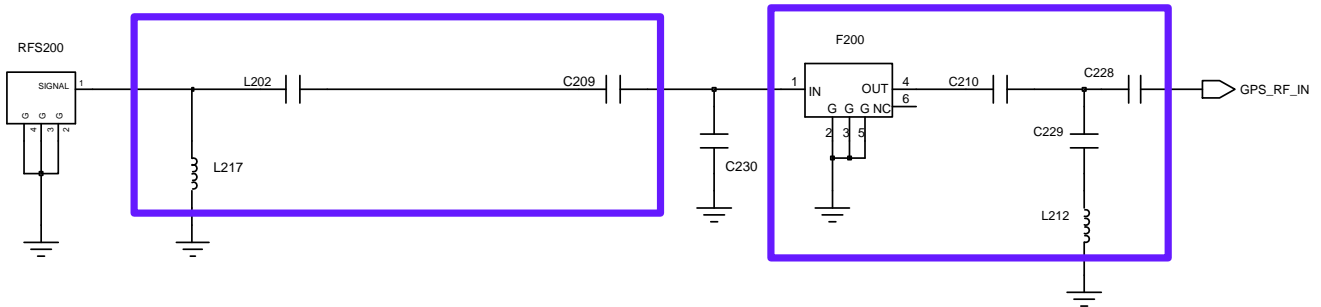


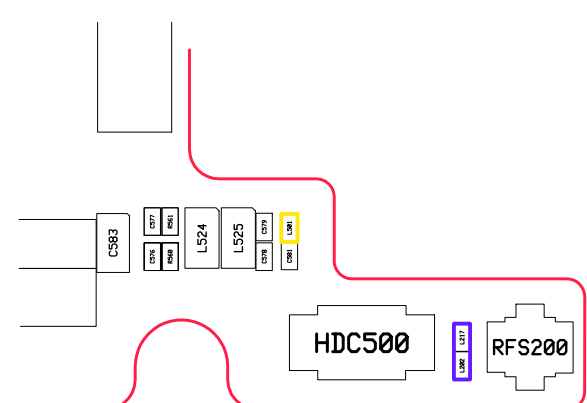
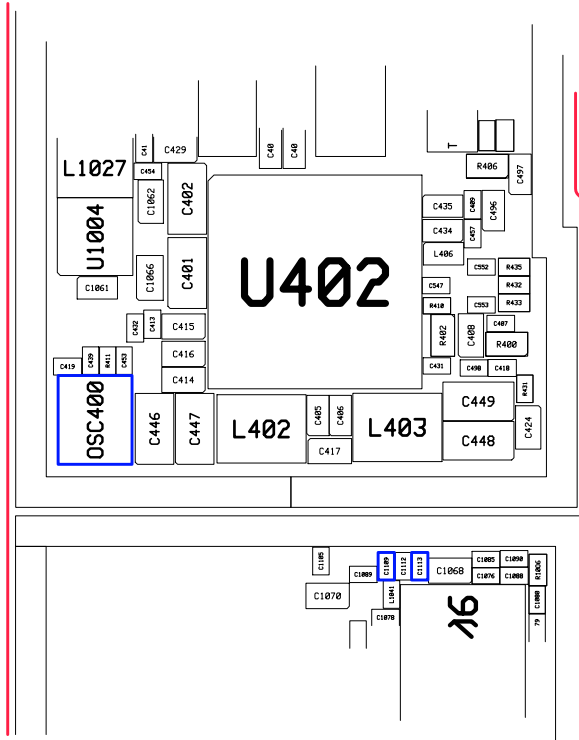
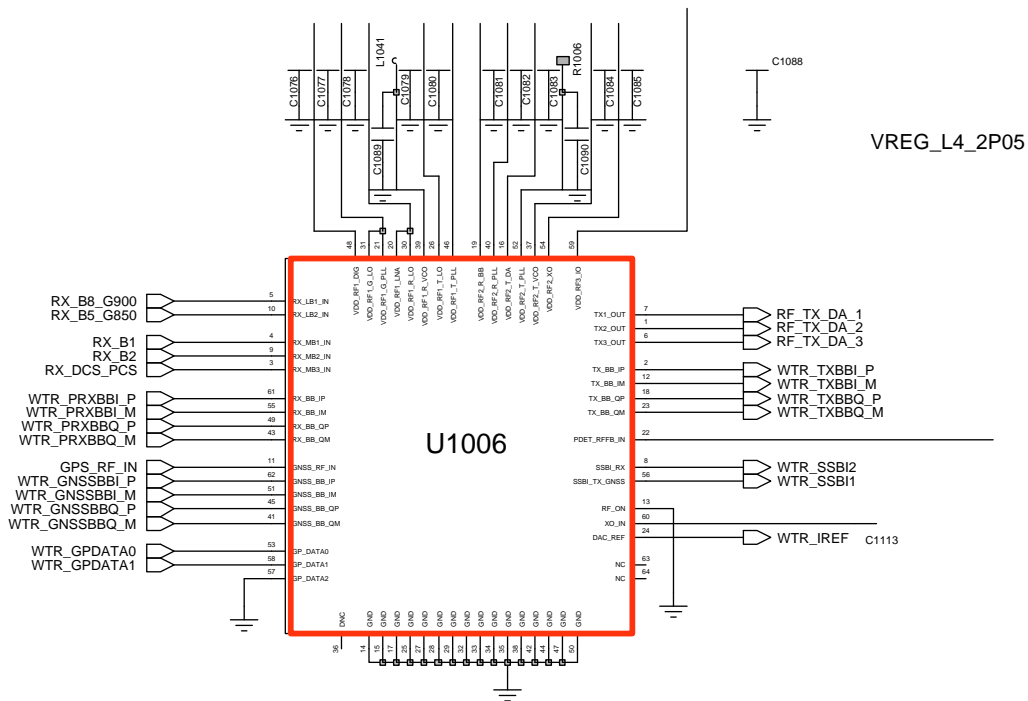


2G/3G Tranceiver

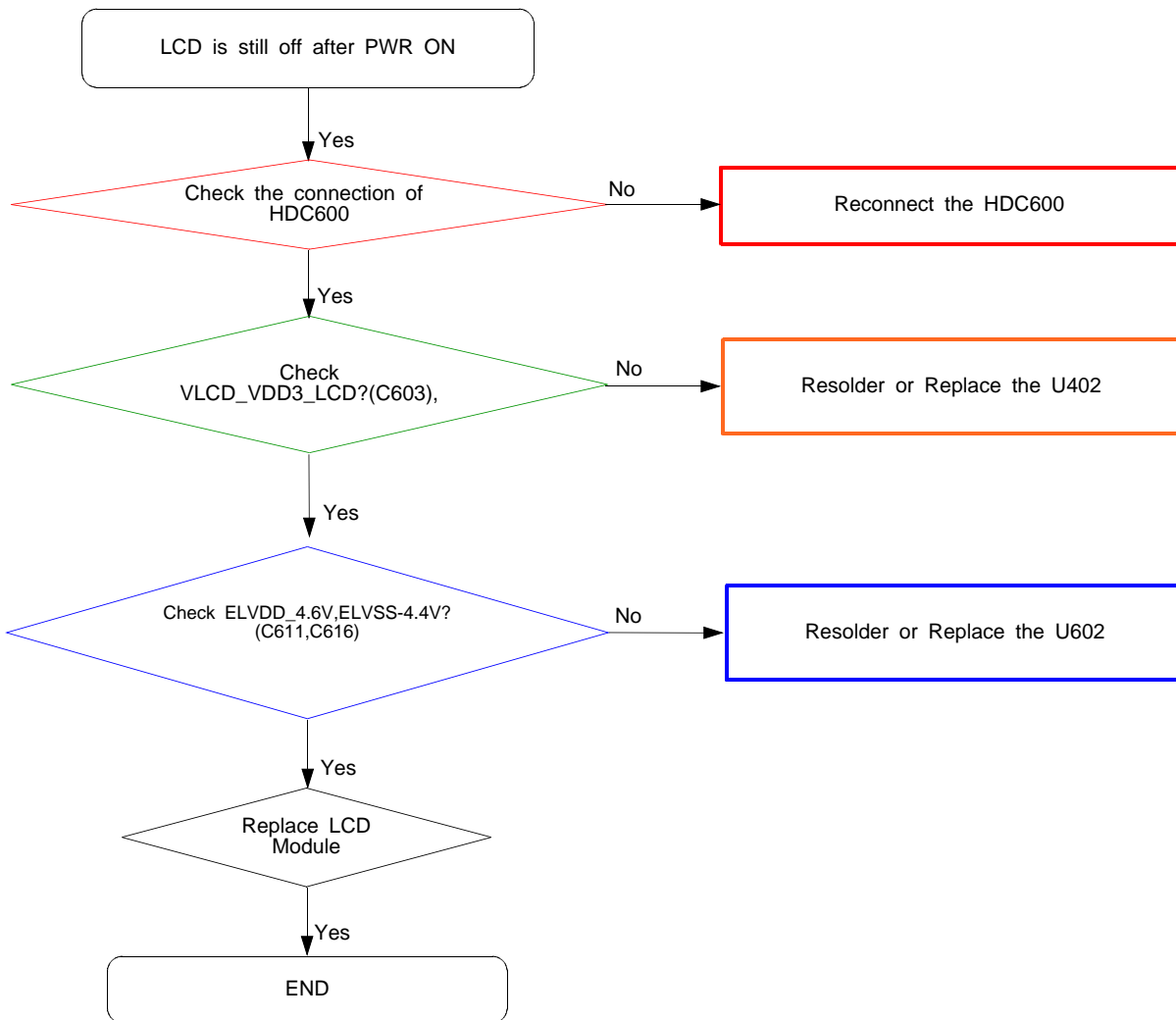


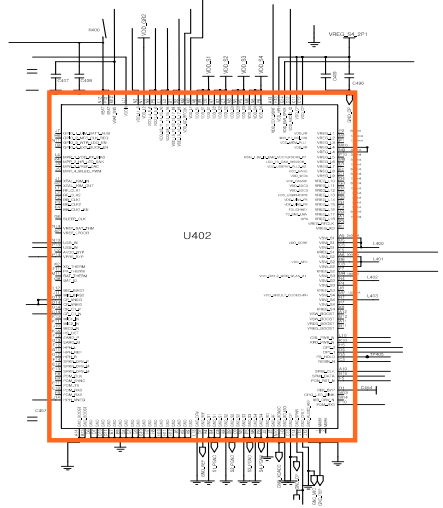
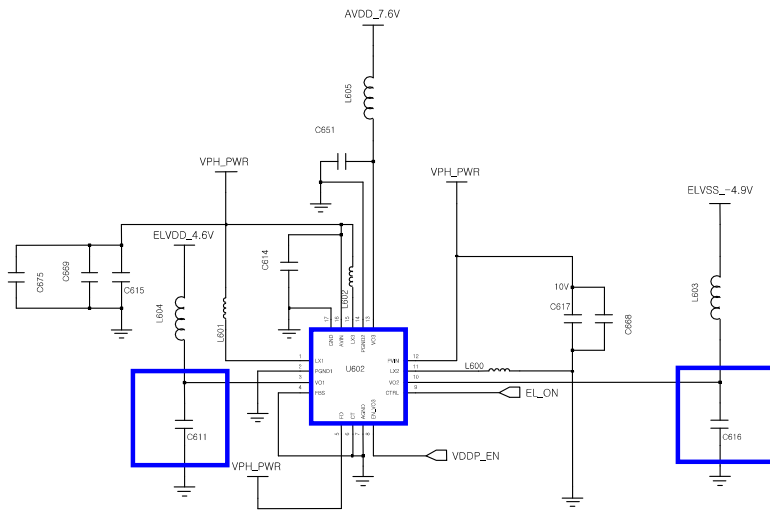
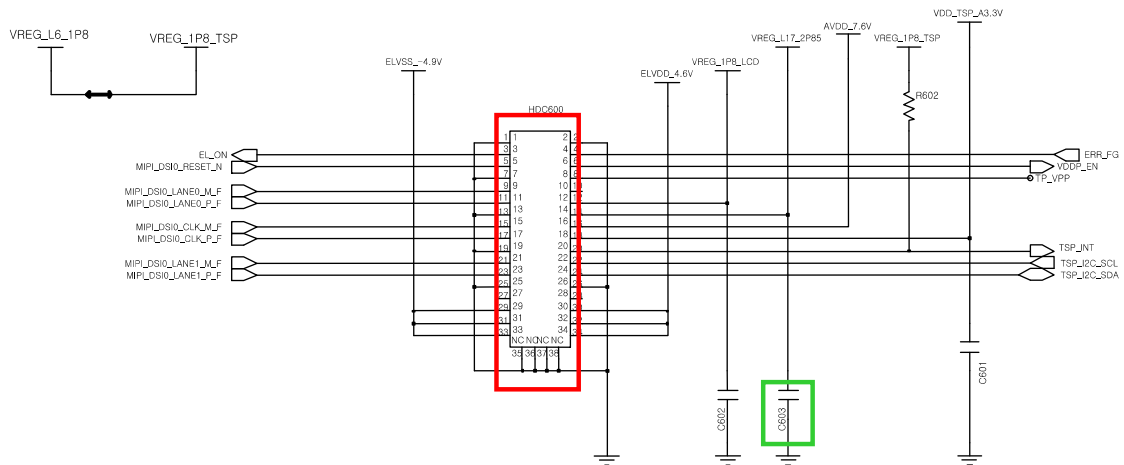
SPK / VK / Connector

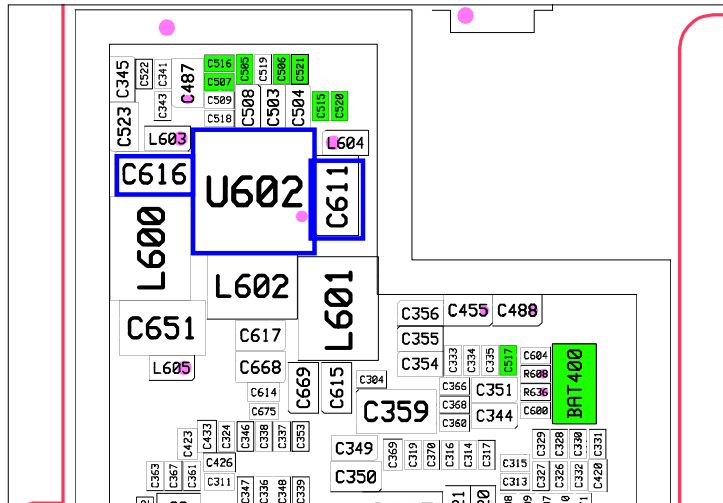
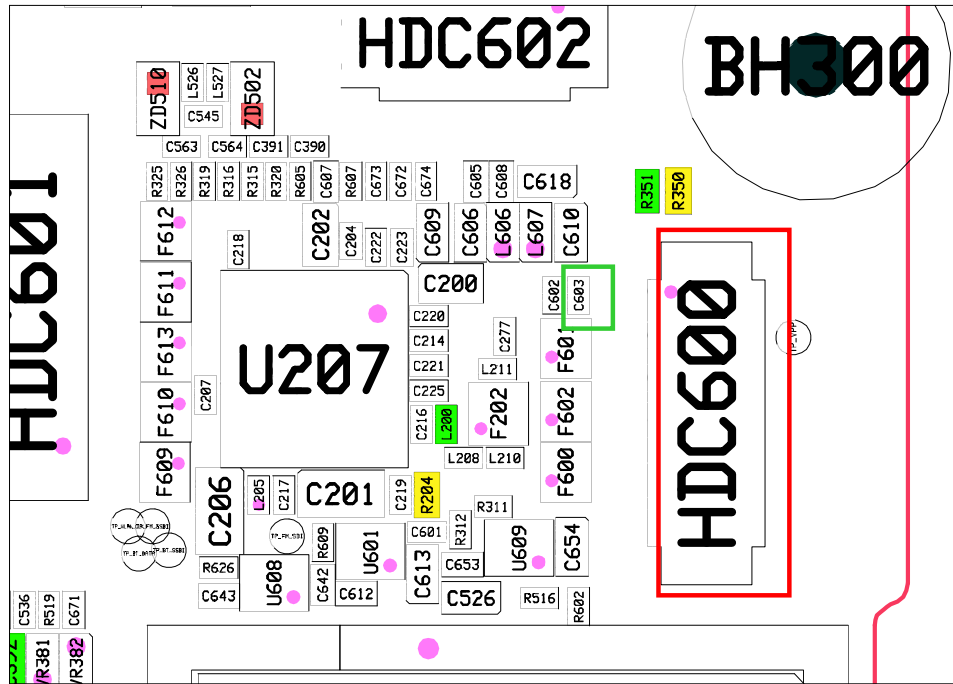




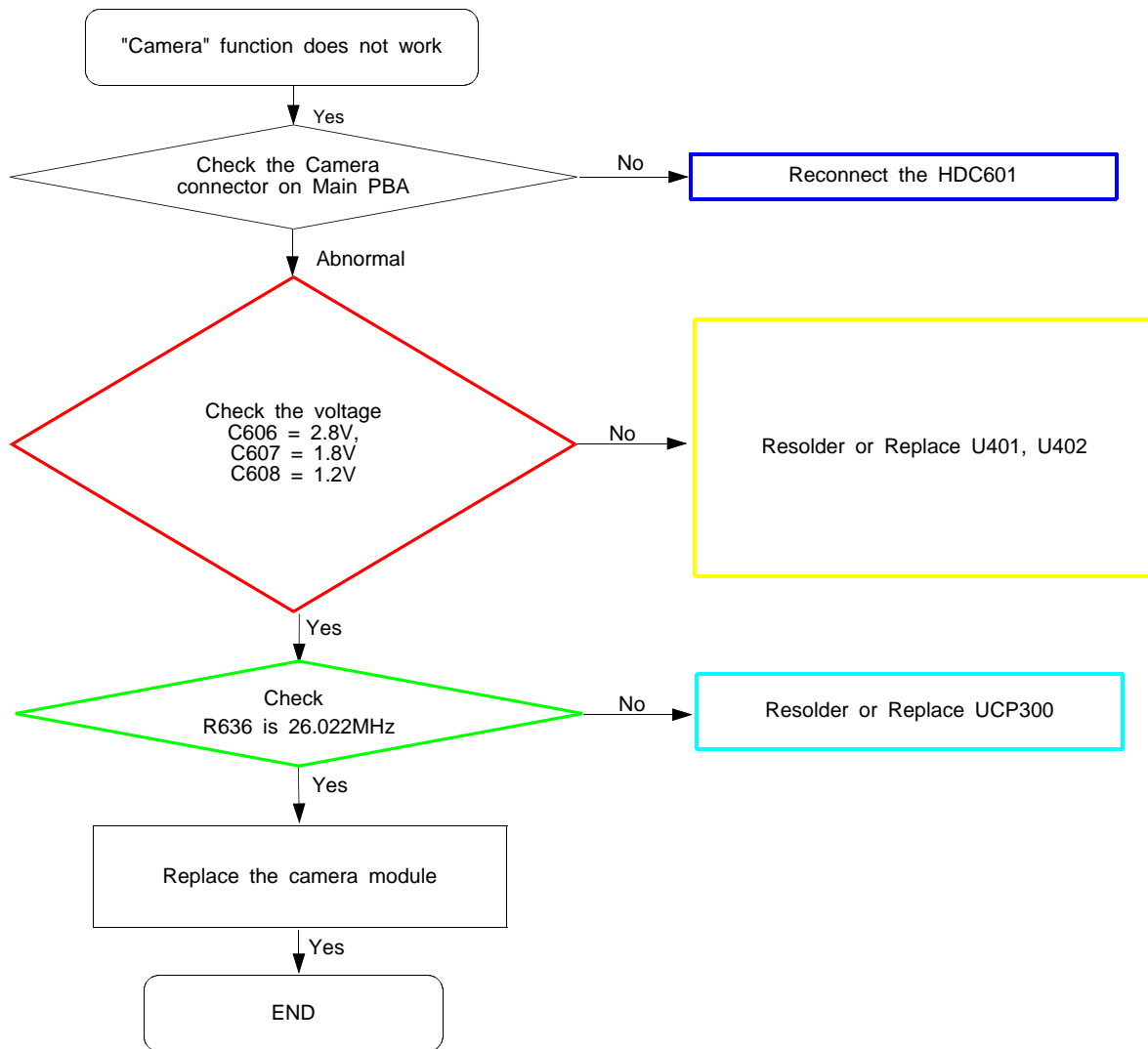
8-3-12. LCD

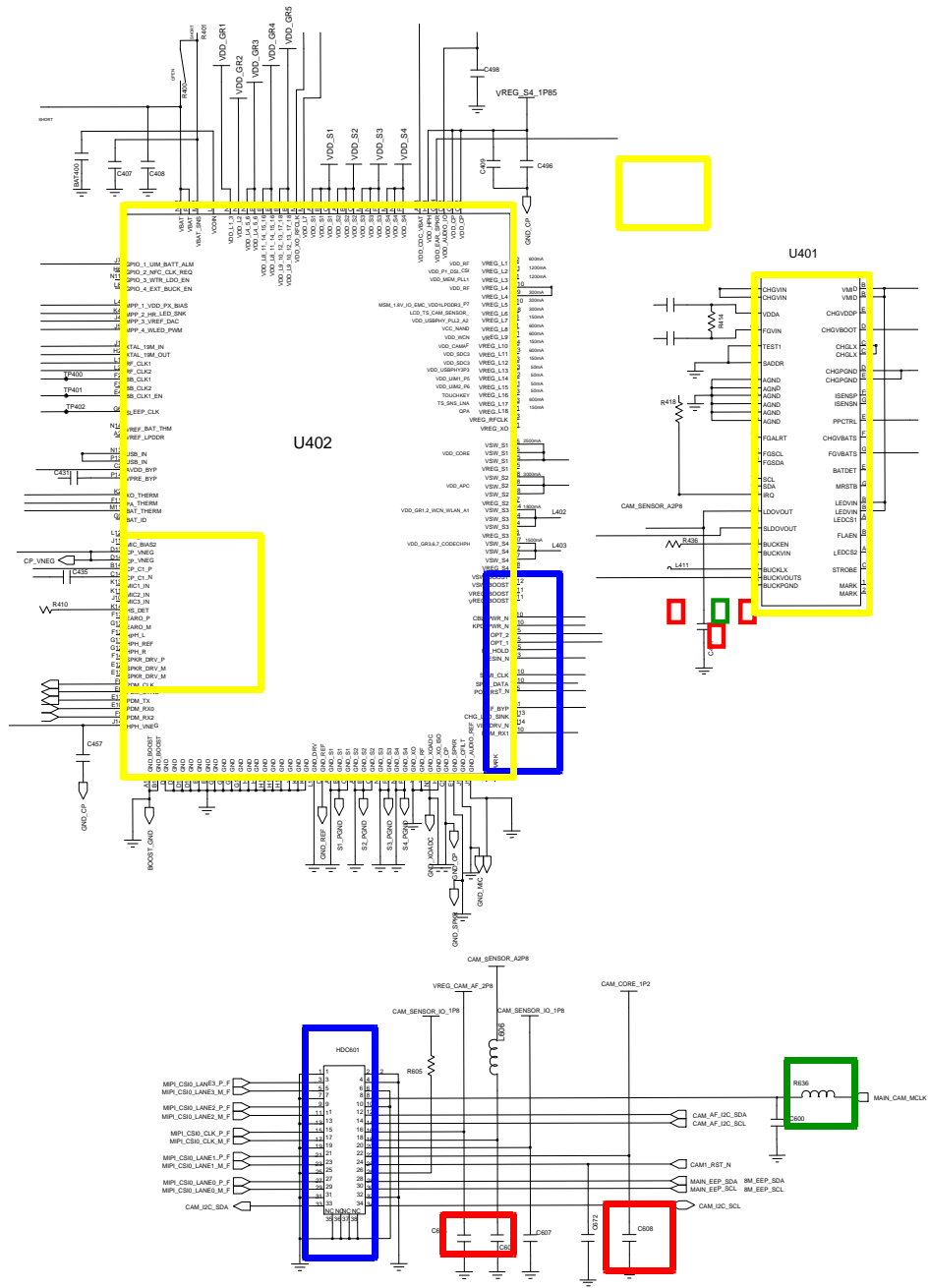


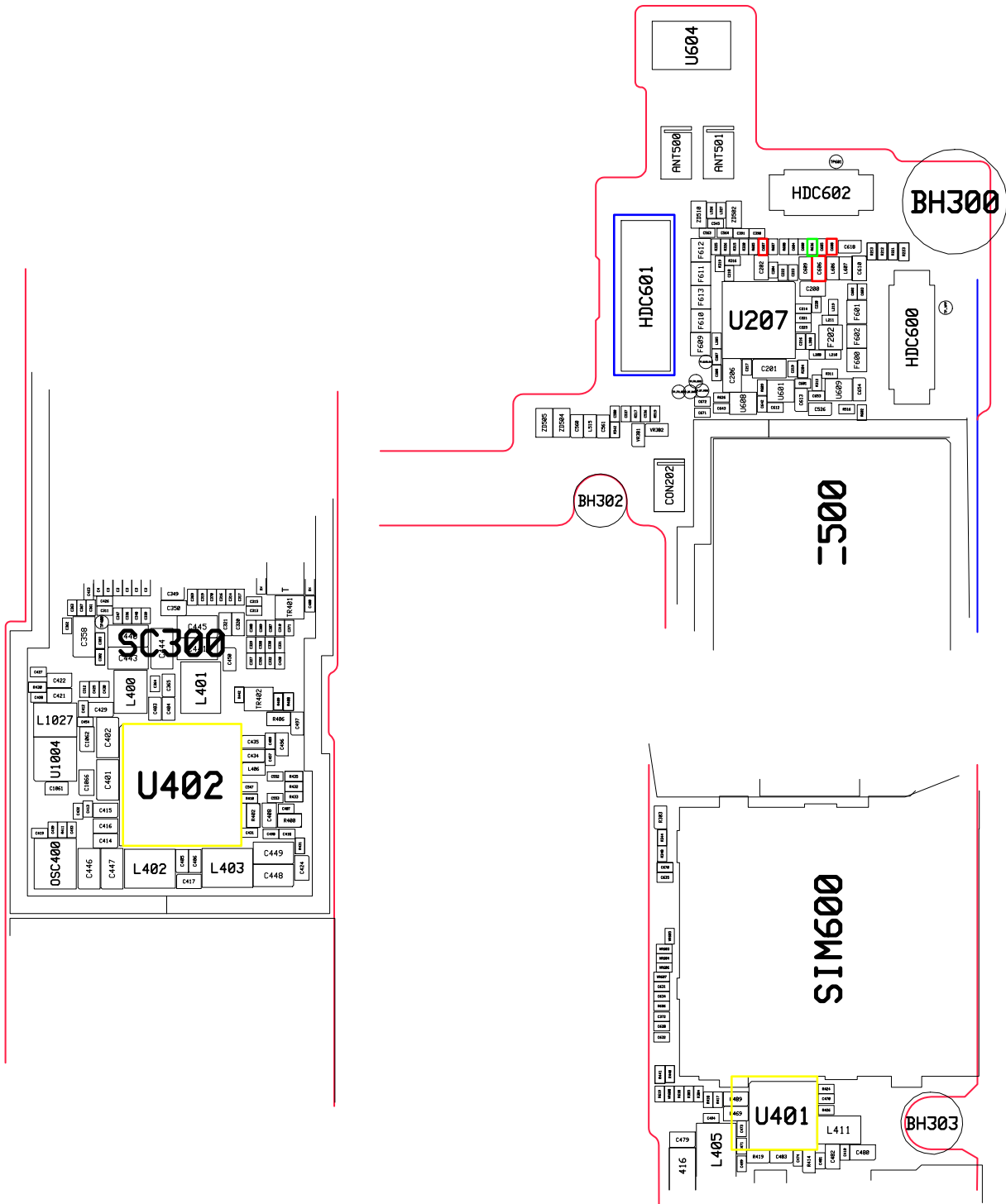




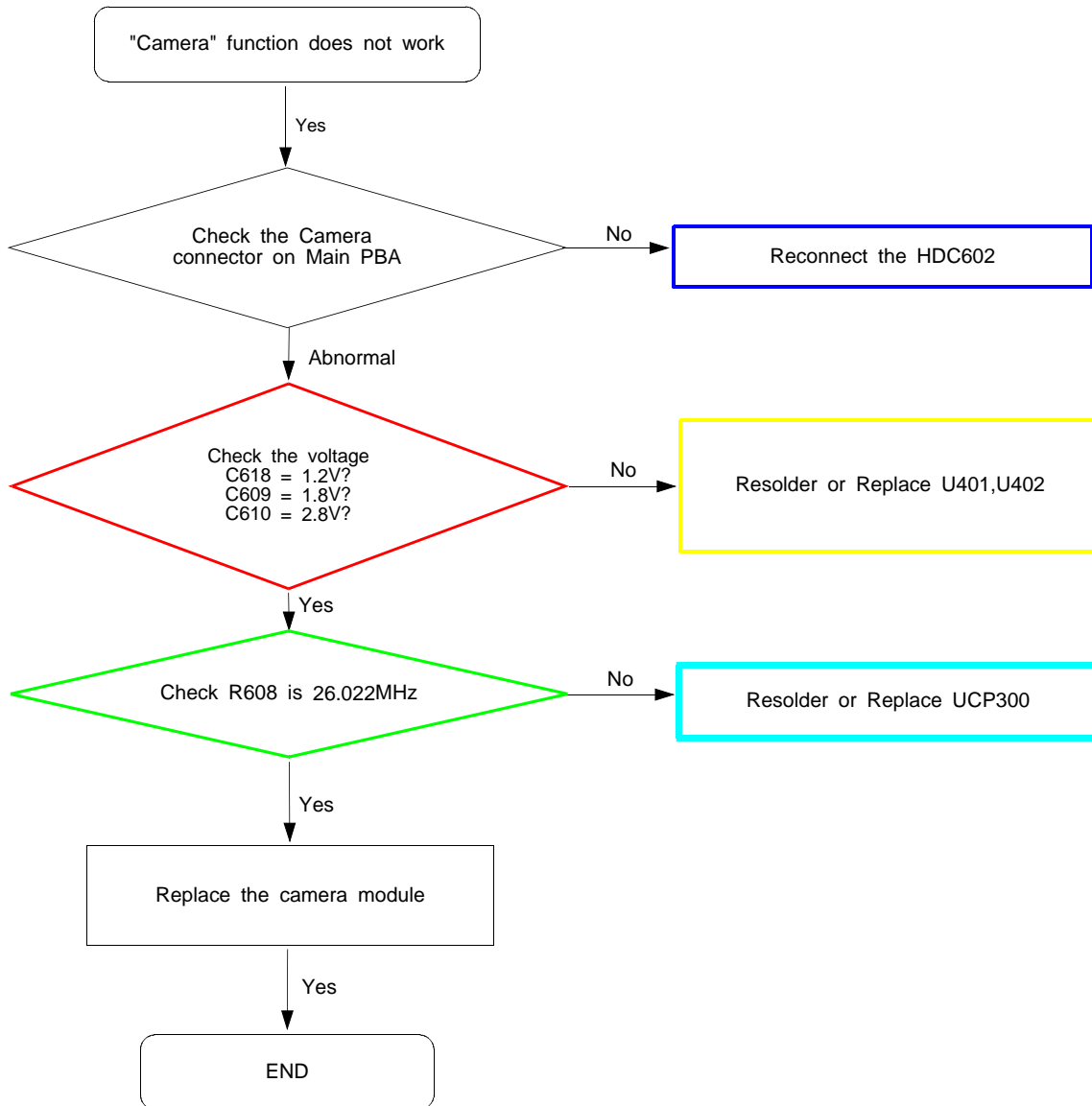
8-3-13. 8M CAM

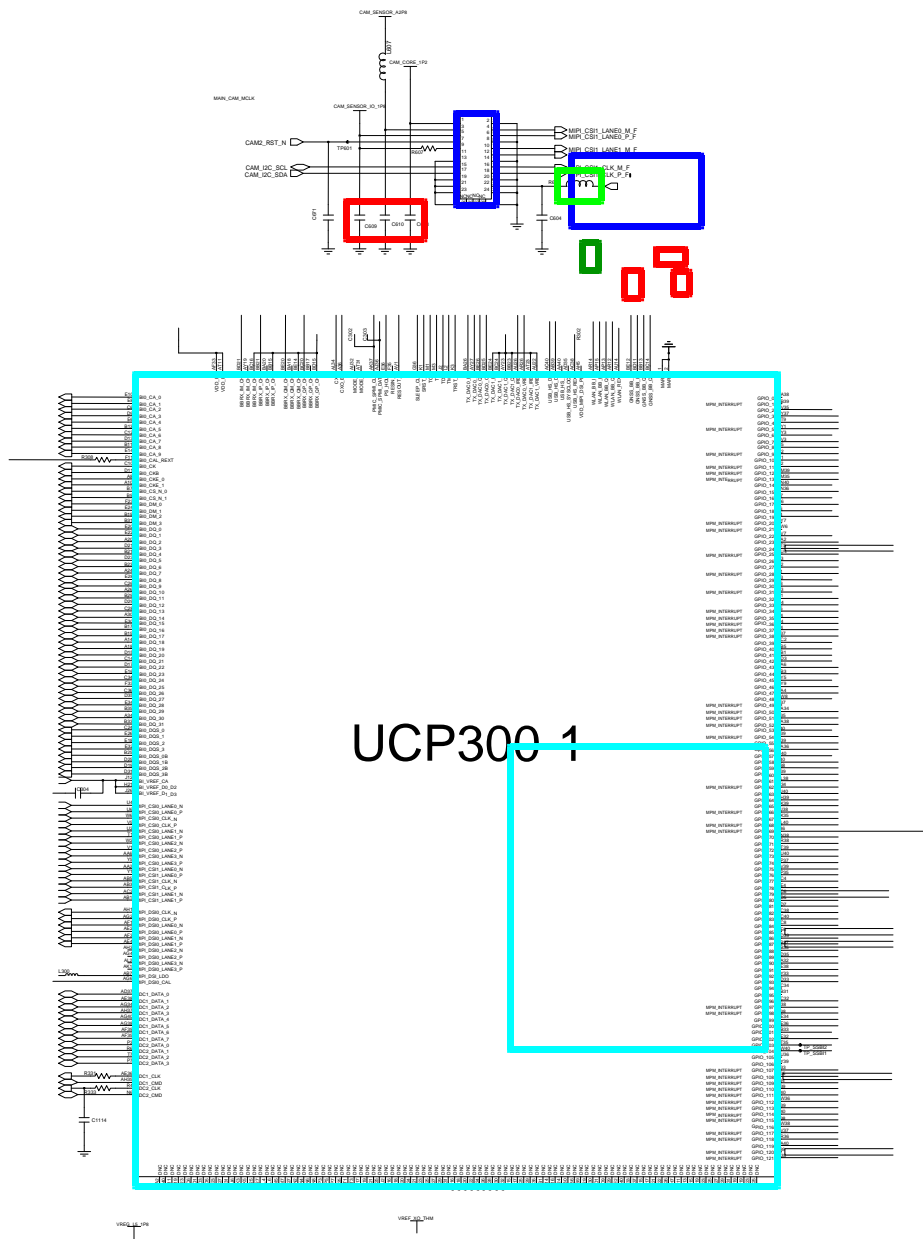


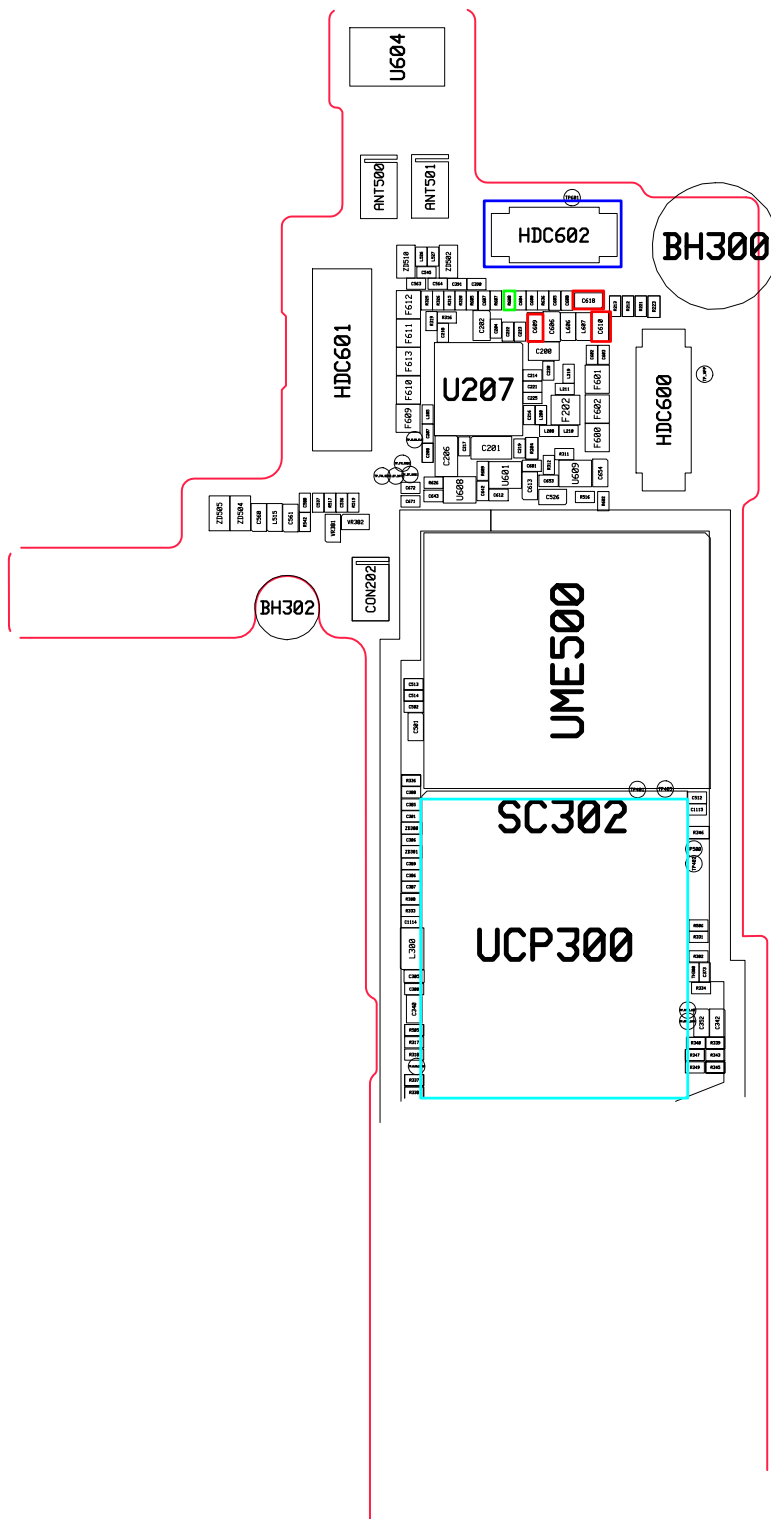




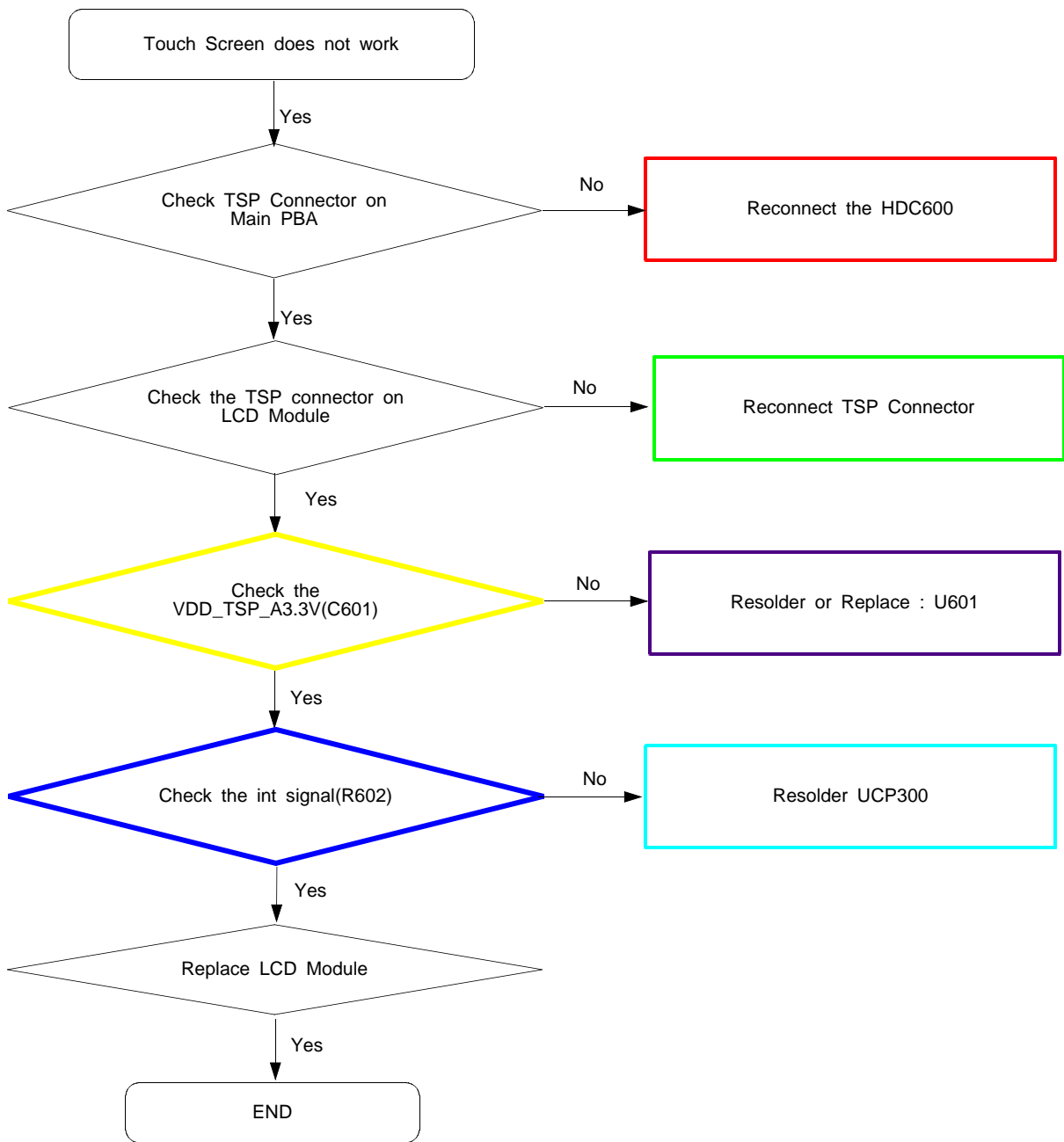
8-3-14. VT CAM

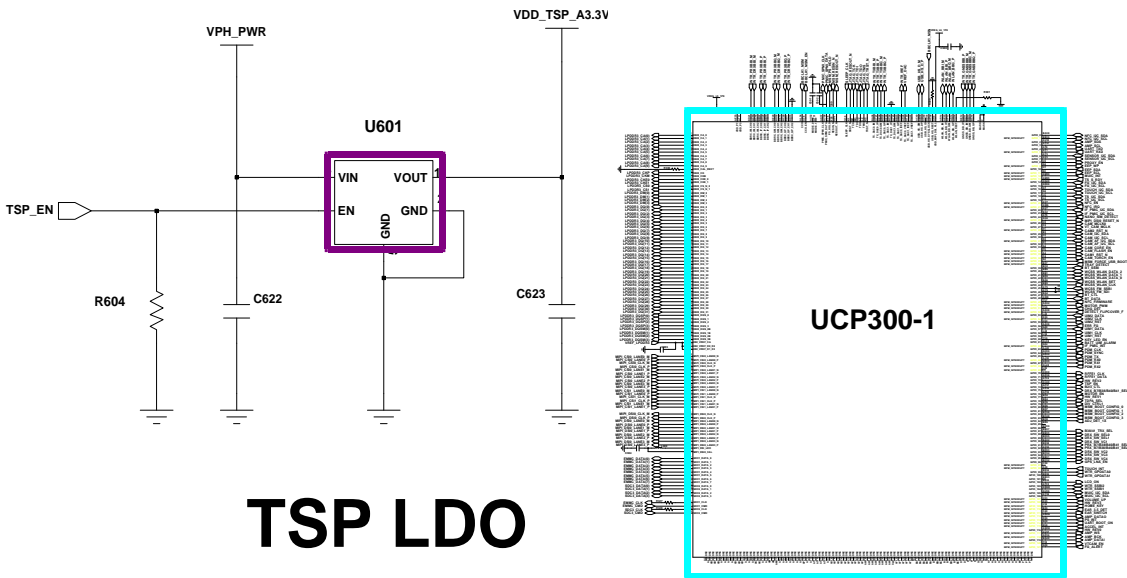
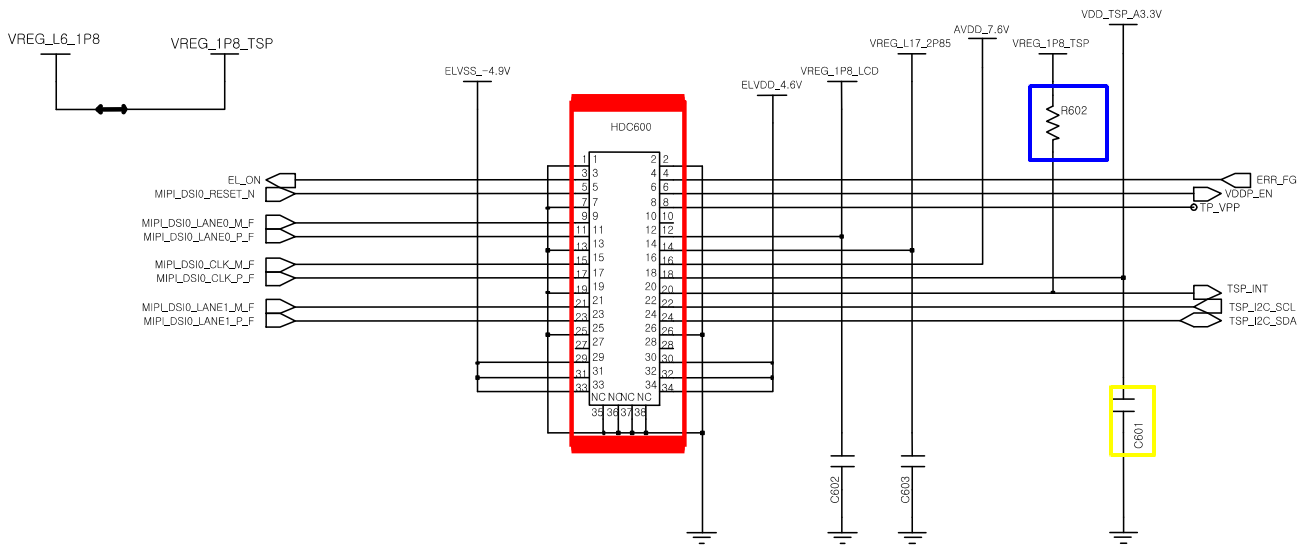




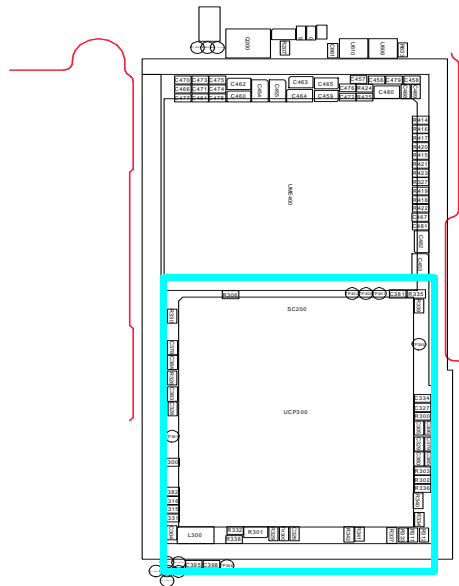
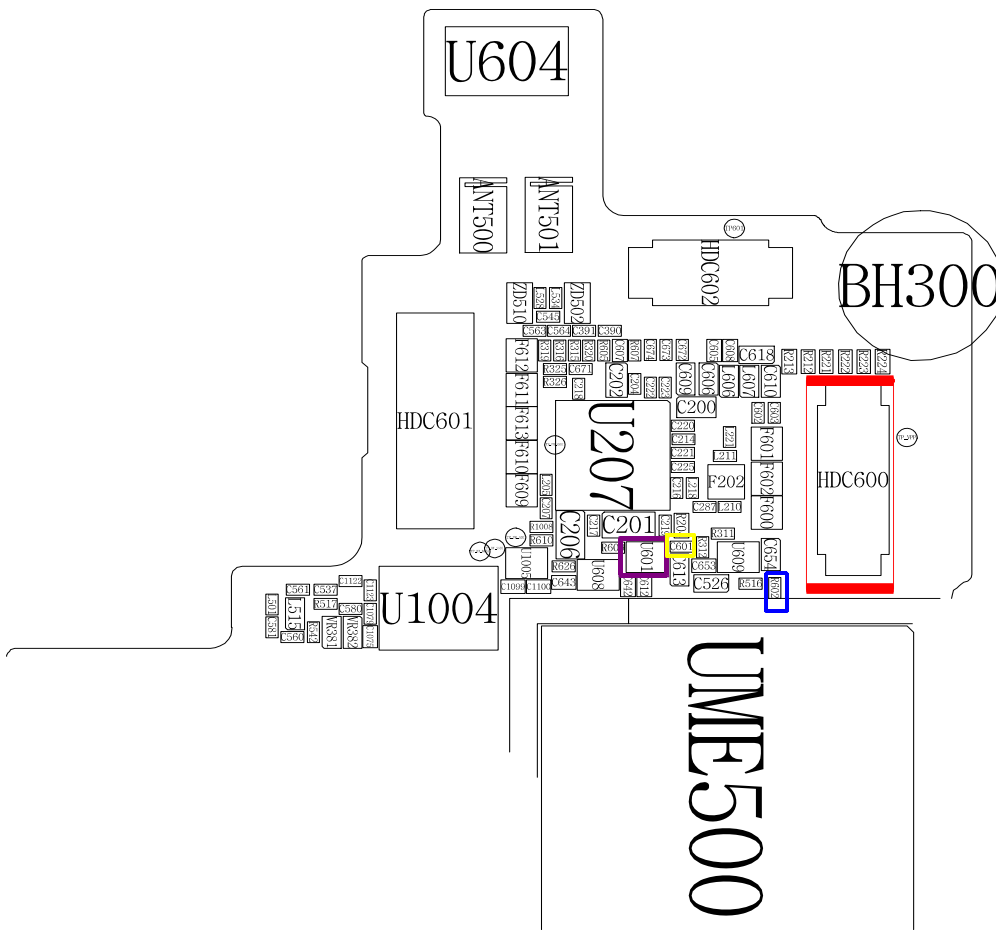


8-3-15. TSP

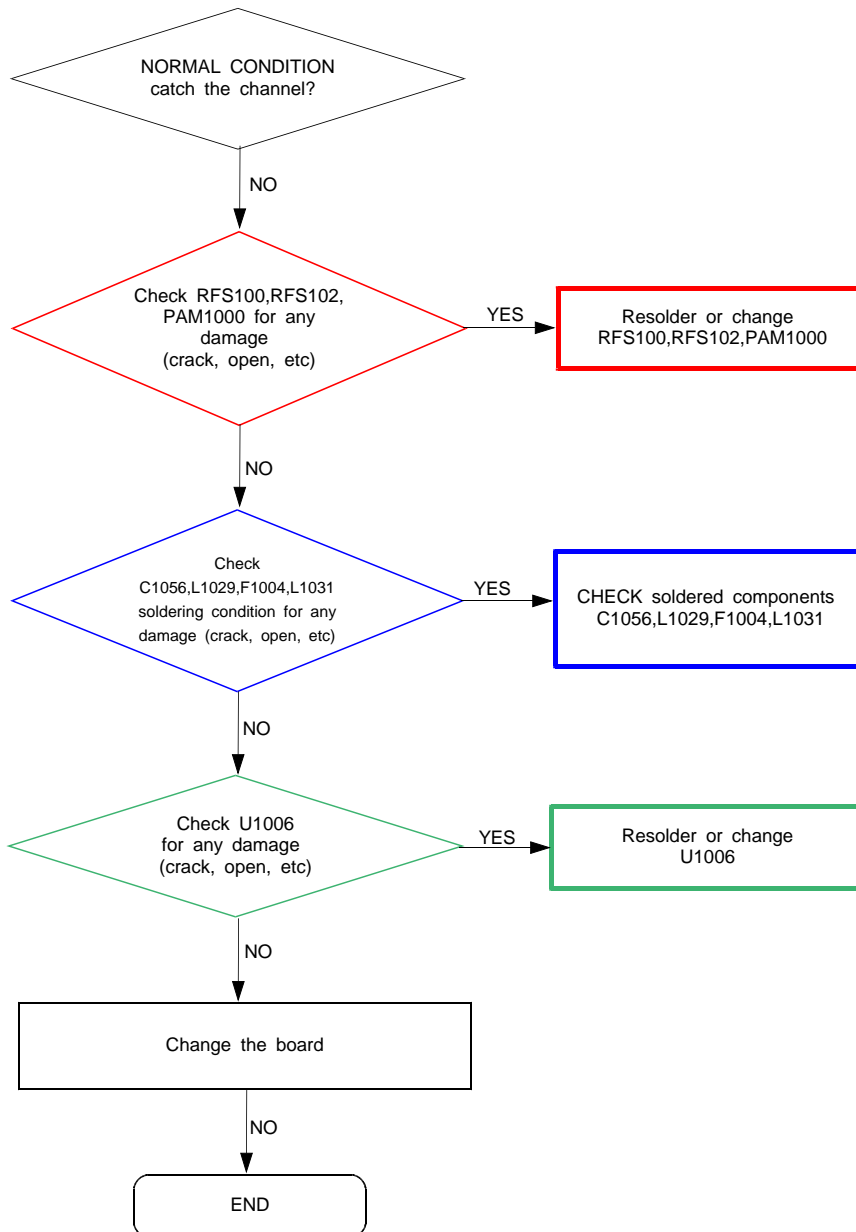


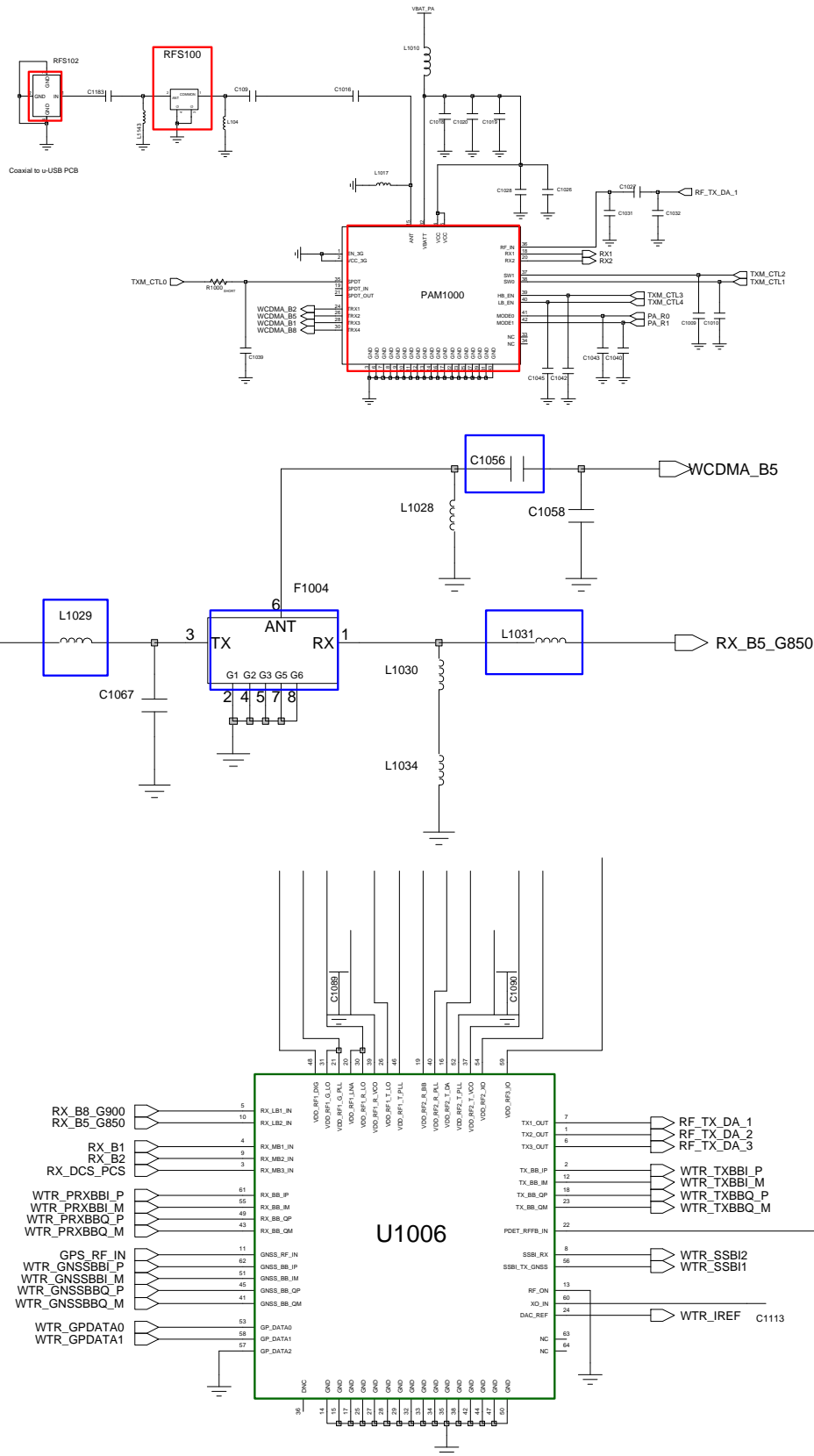


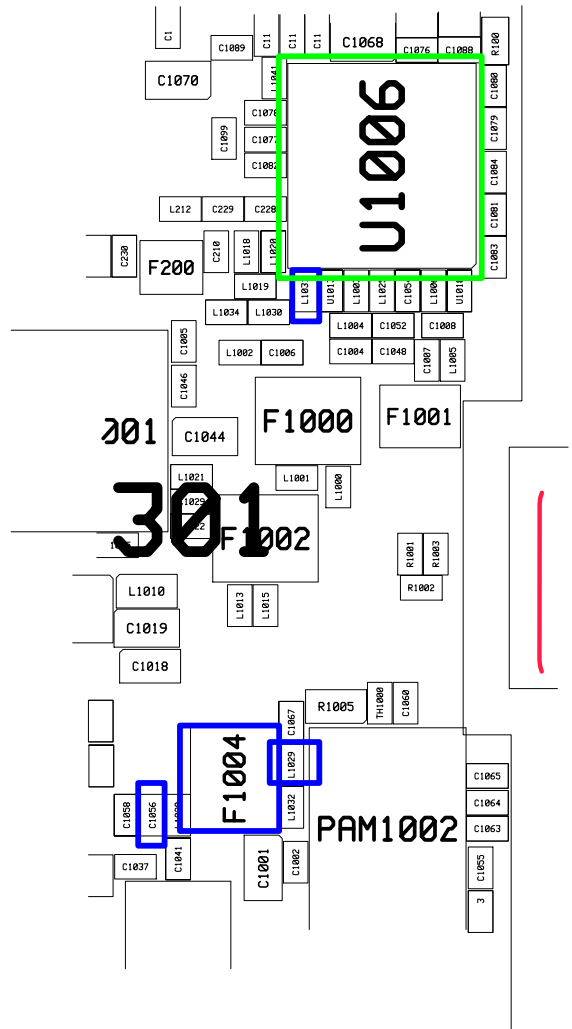
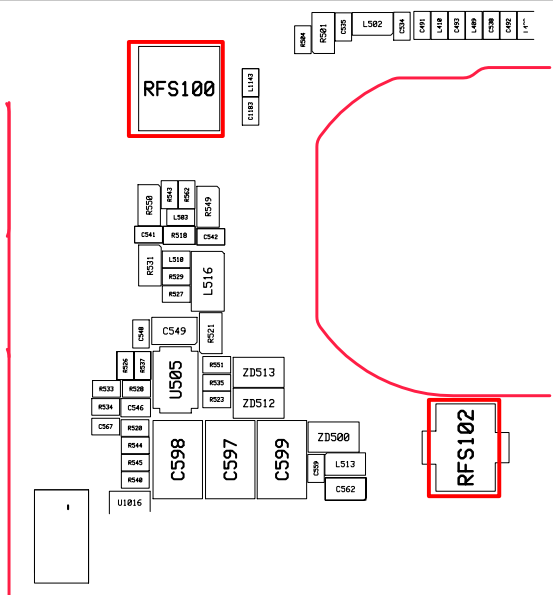
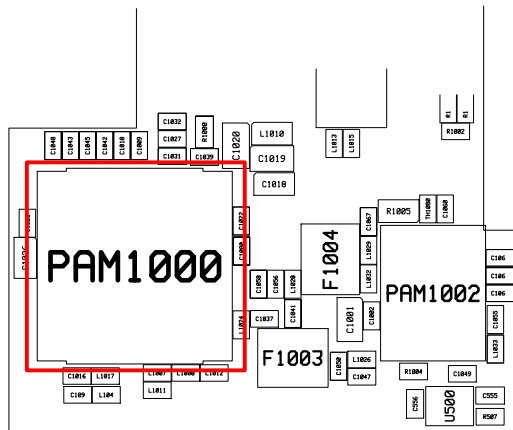
TSP LDO



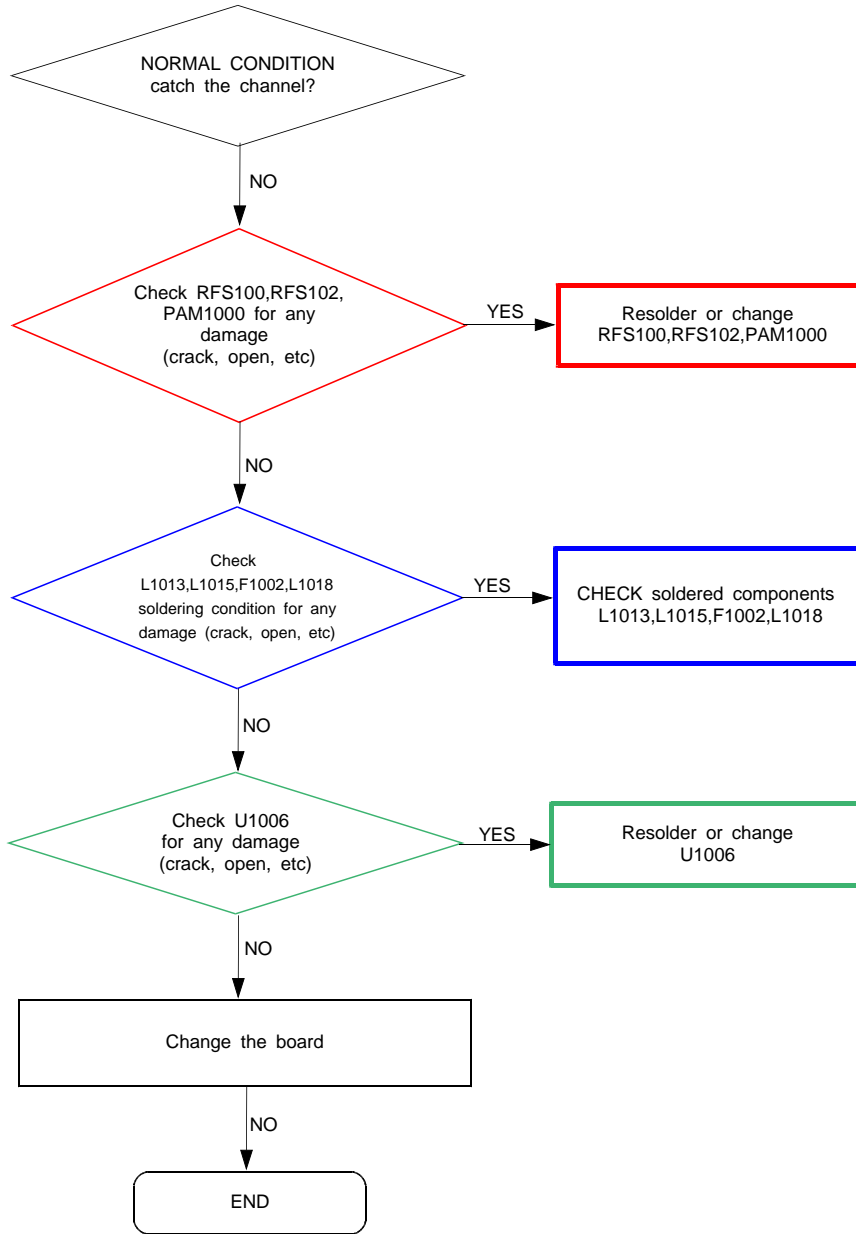
8-3-18. GSM850 / WCDMA B5 RX

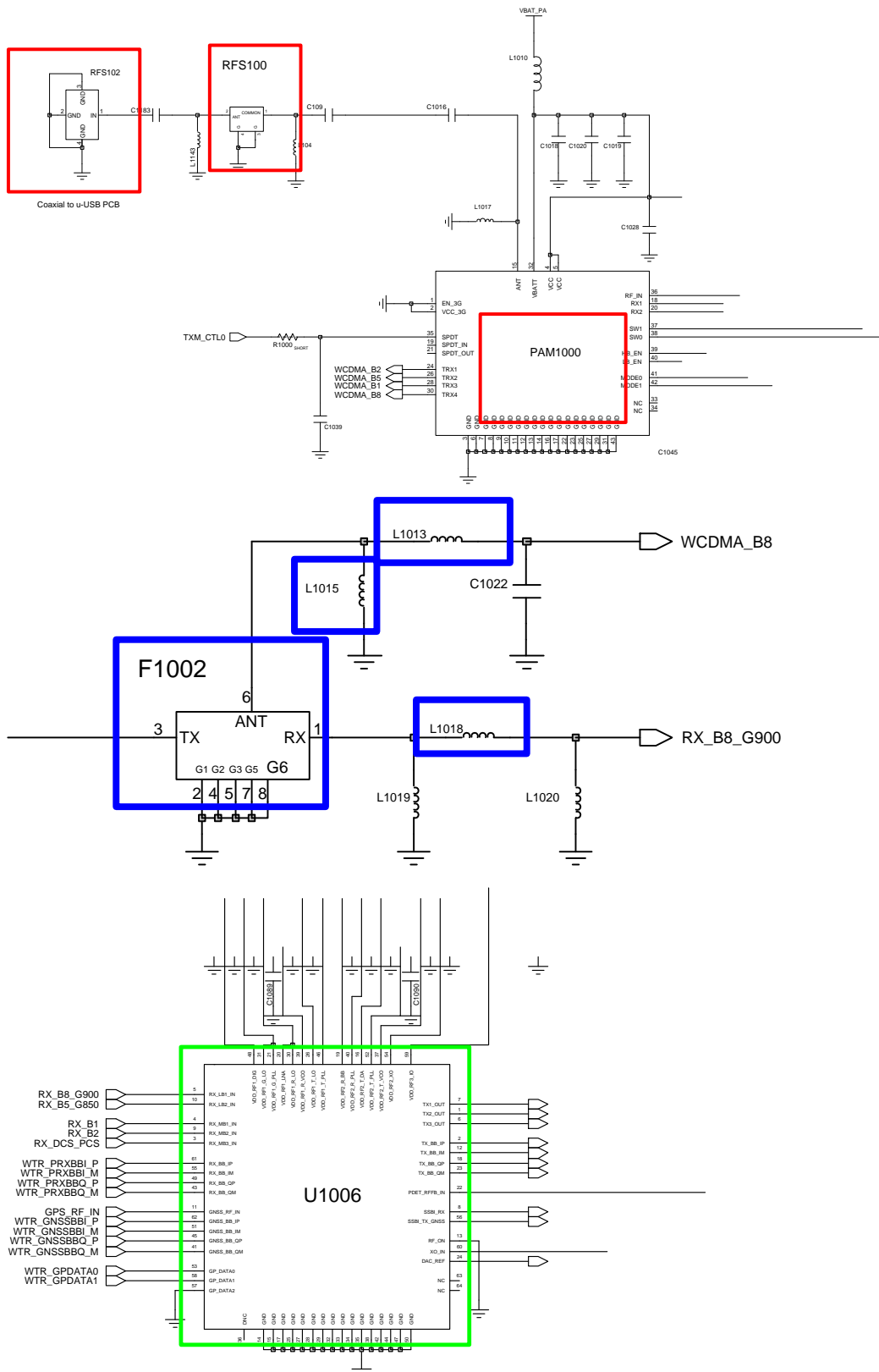


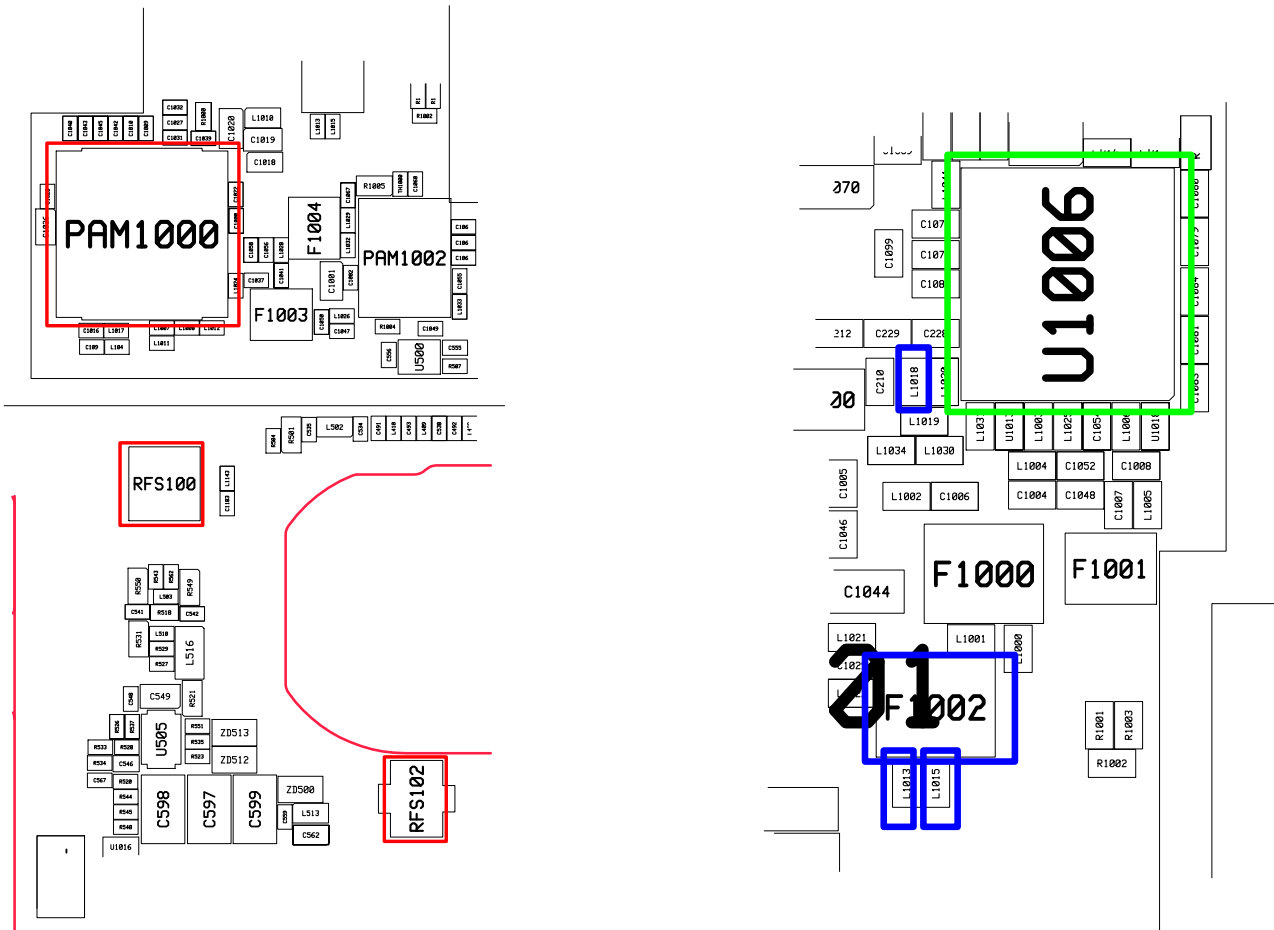




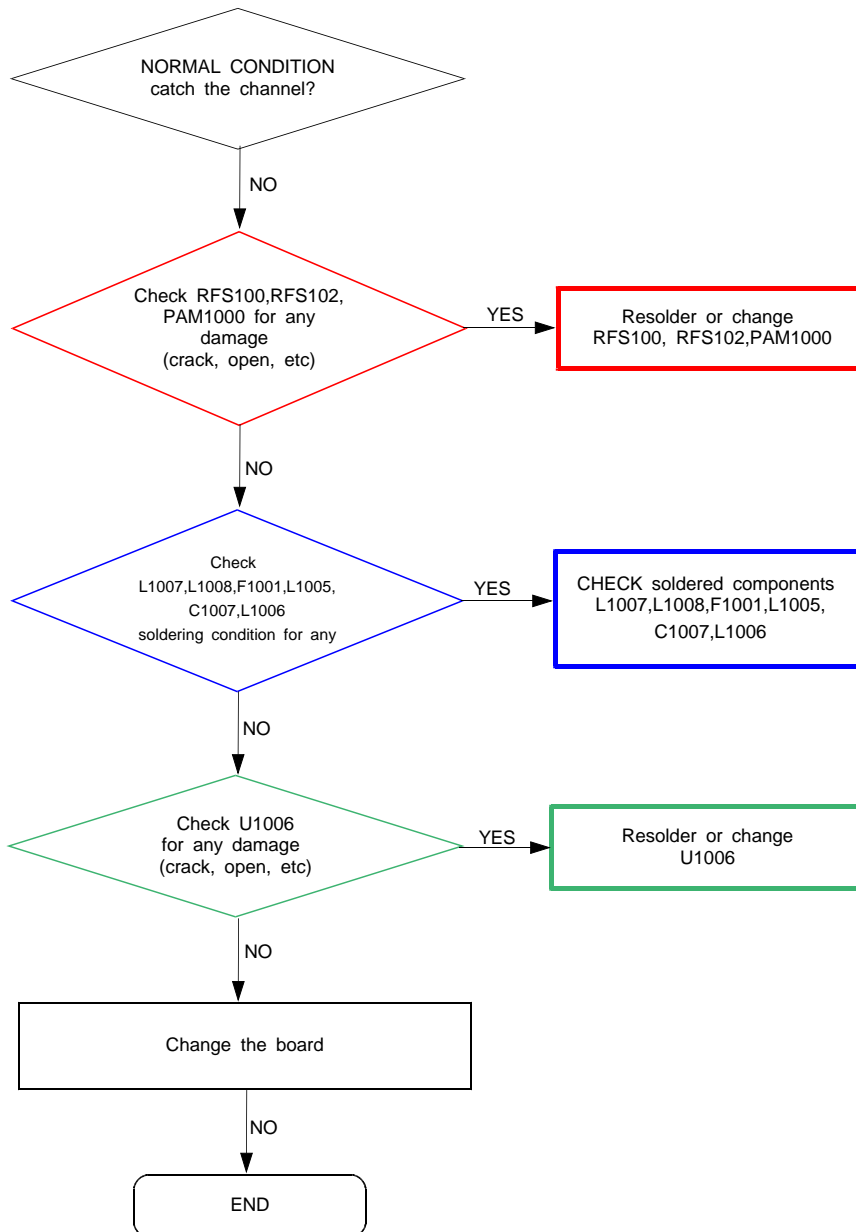
8-3-19. GSM900 / WCDMA B8 RX

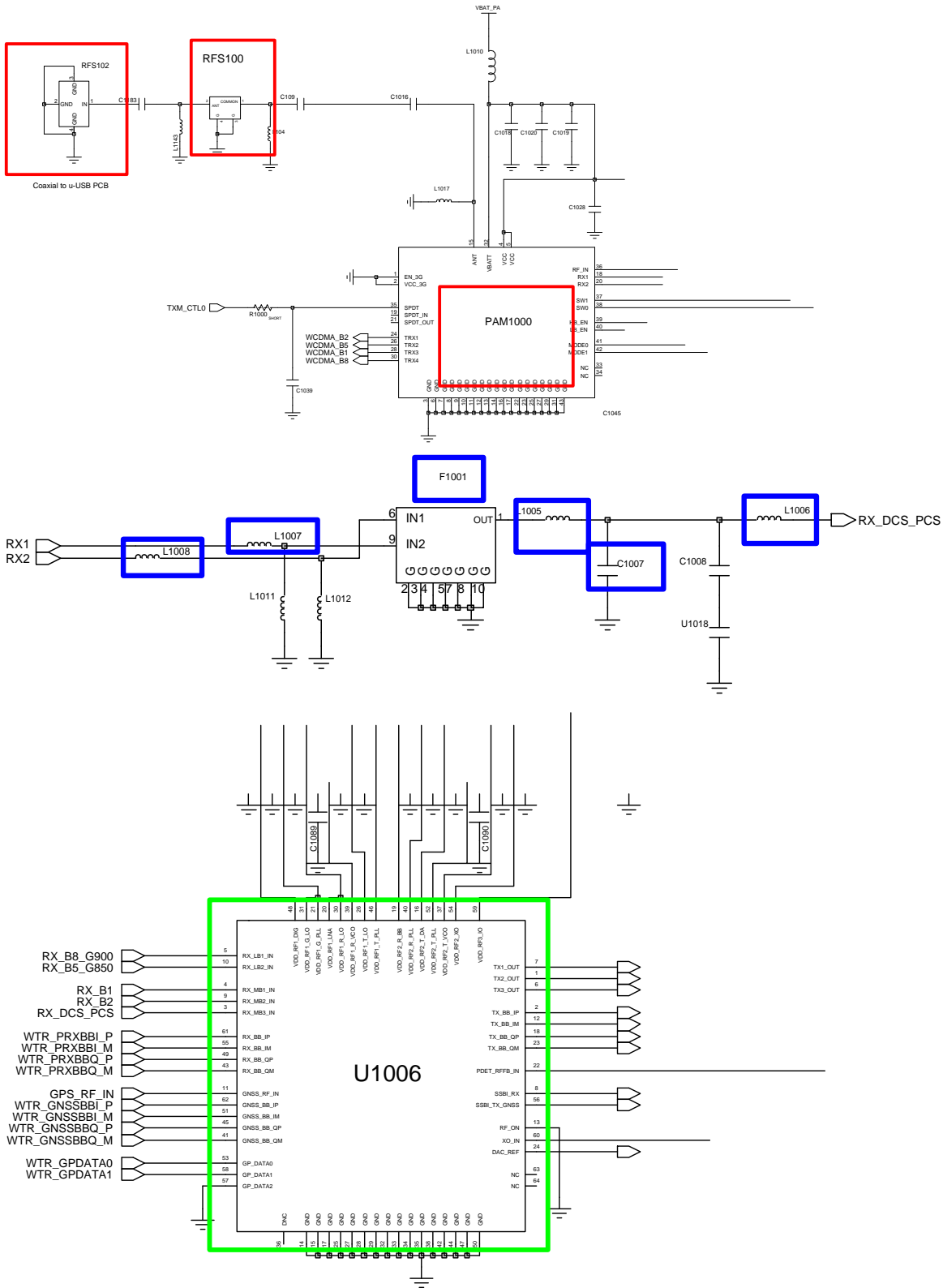


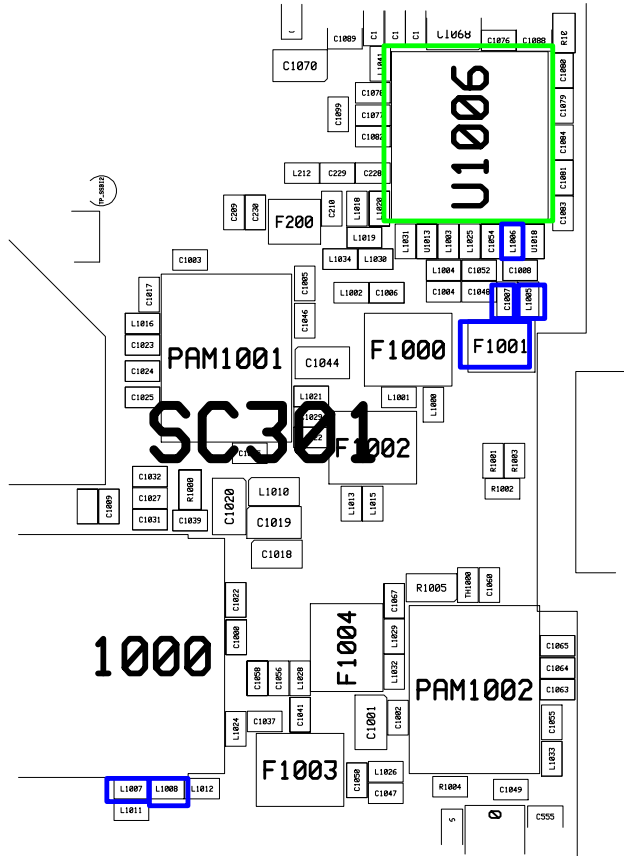
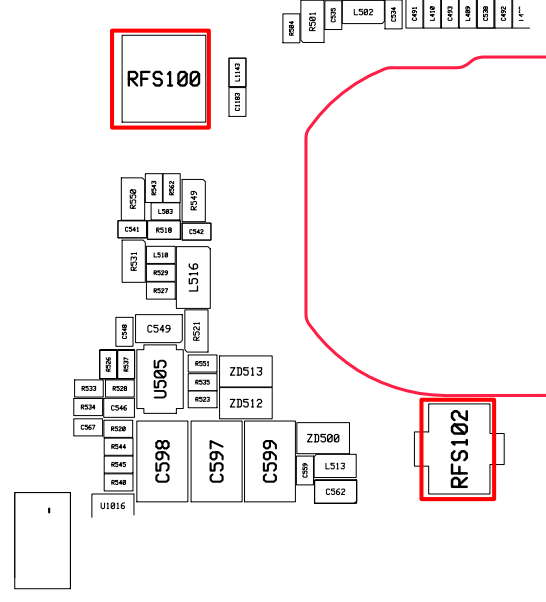
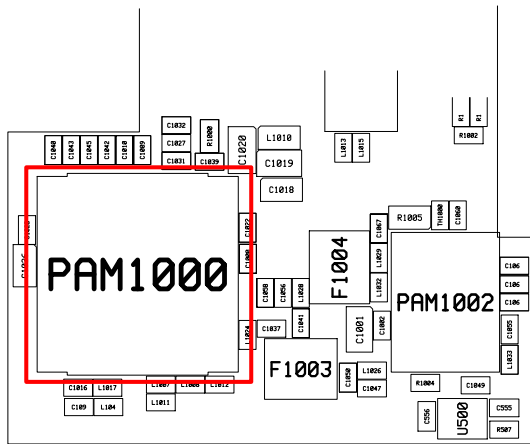




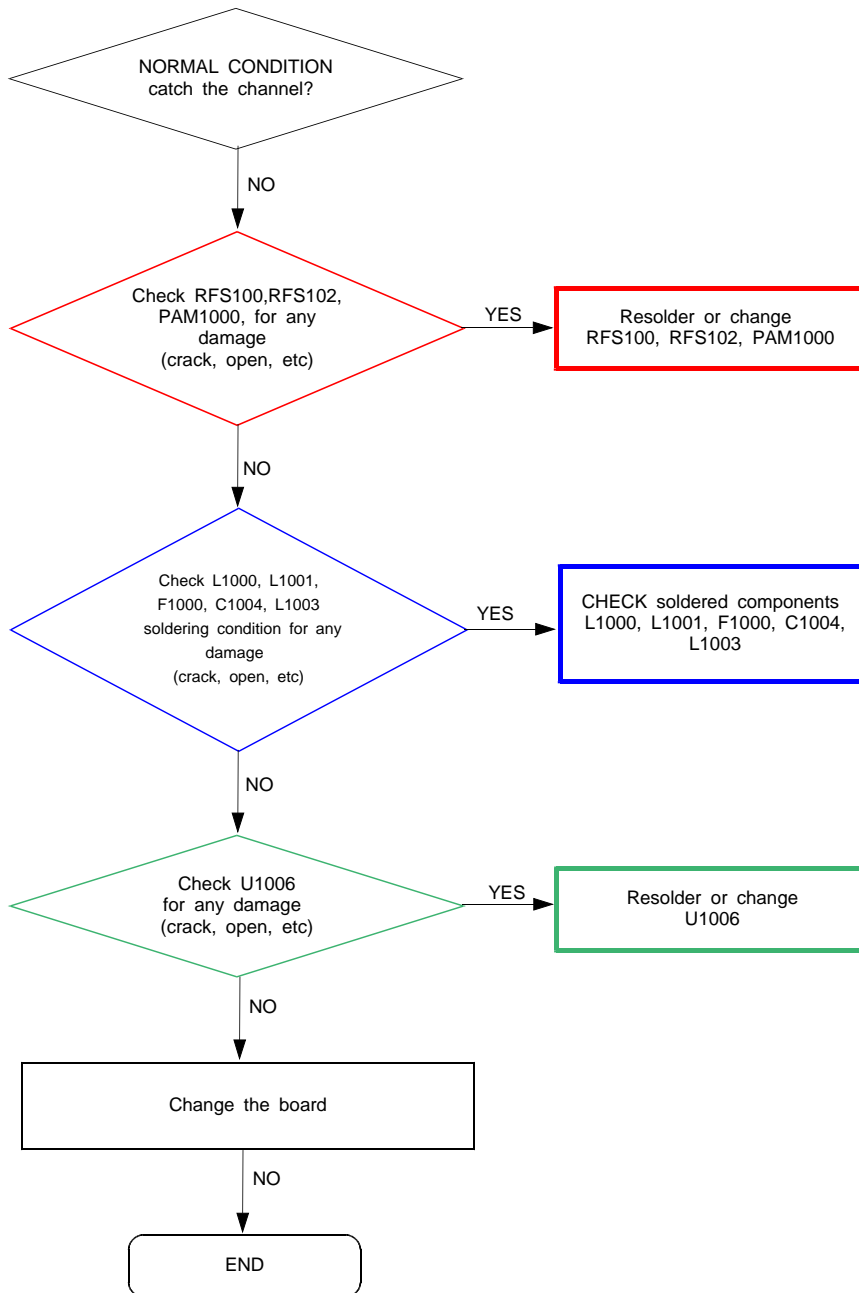
8-3-20. GSM1800 / GSM1900 RX

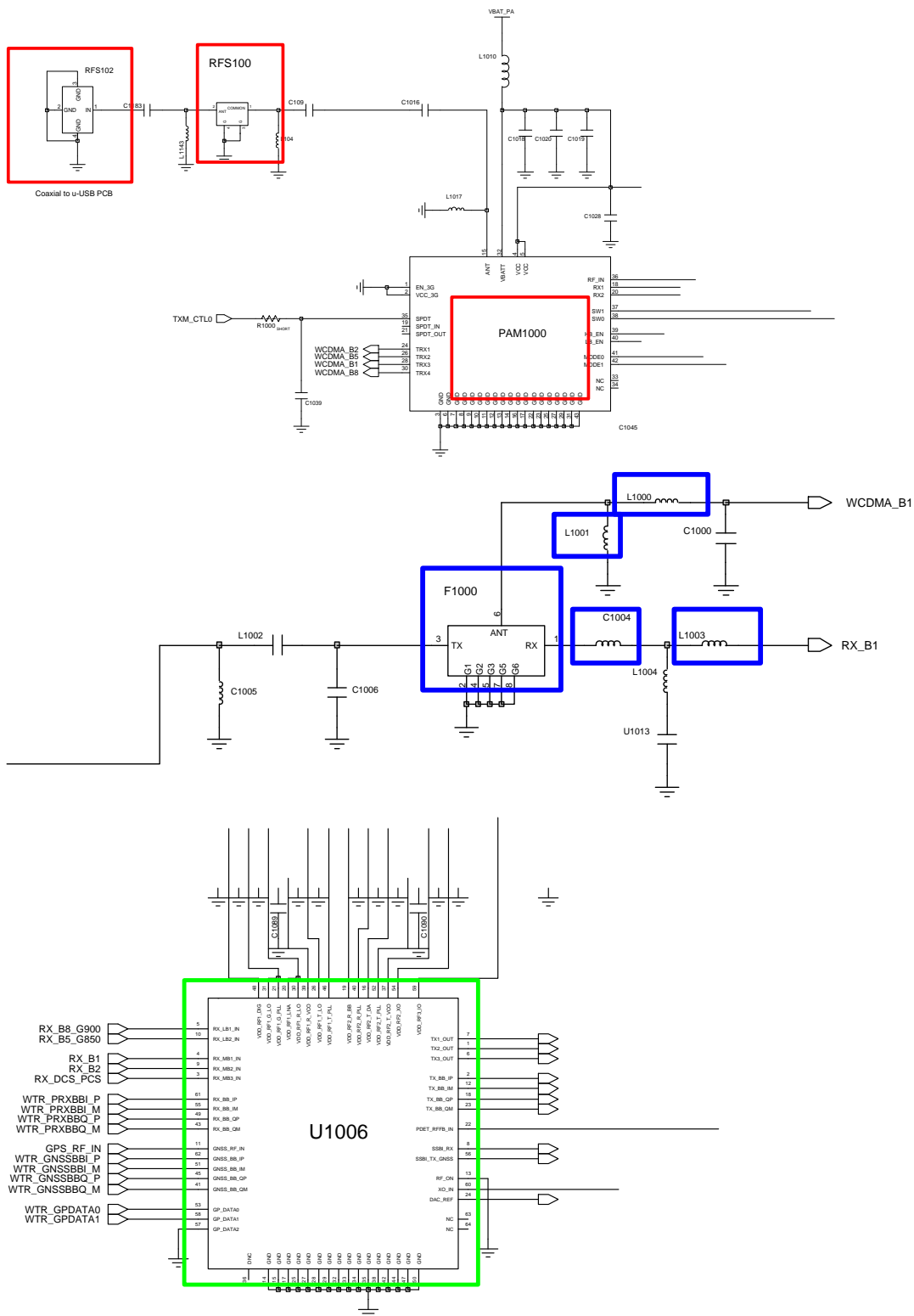


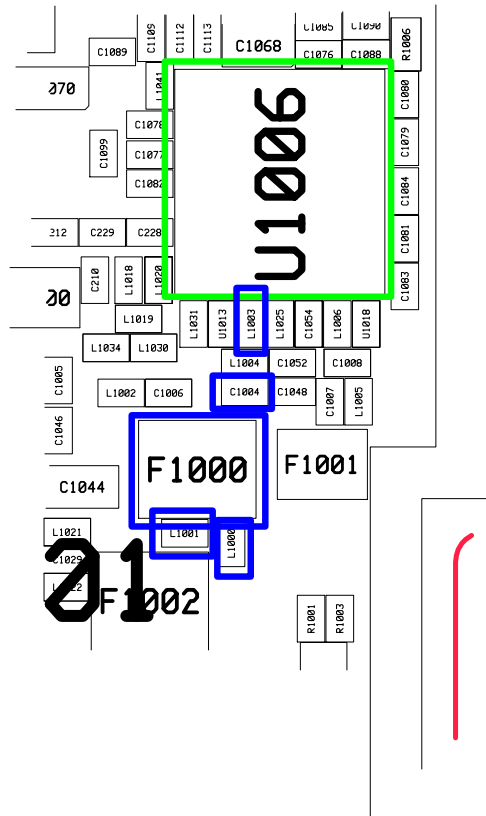
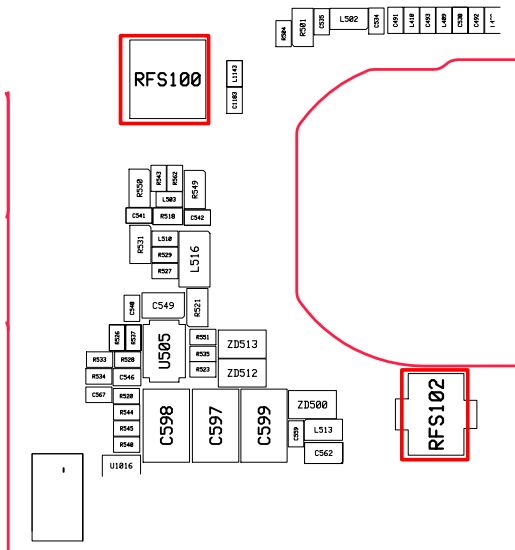
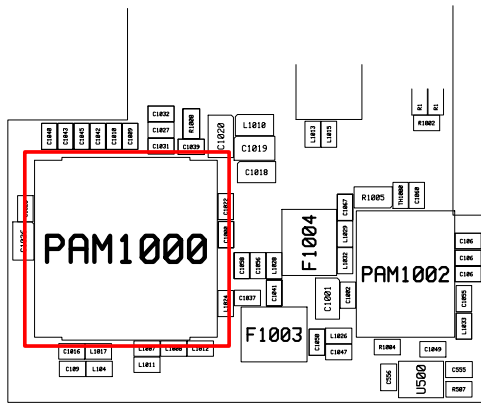




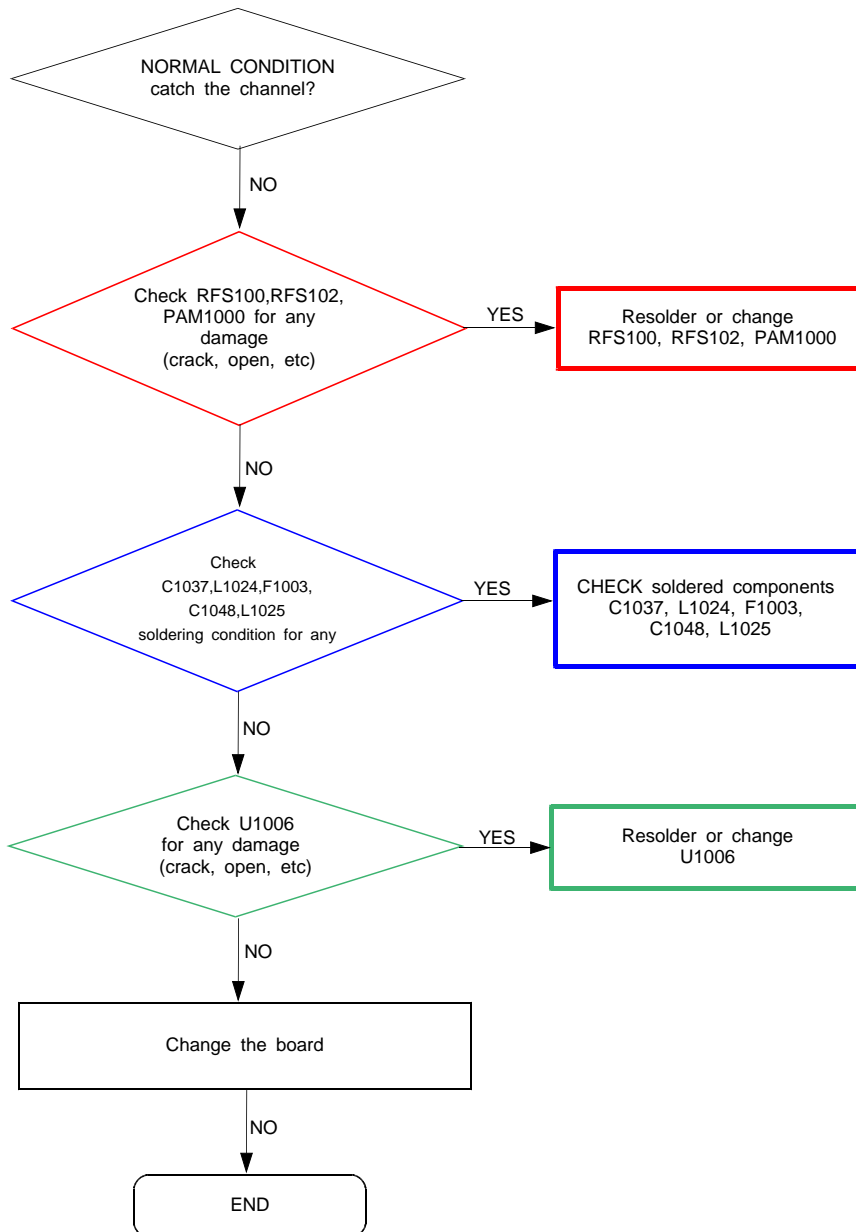
8-3-21. WCDMA B1 RX

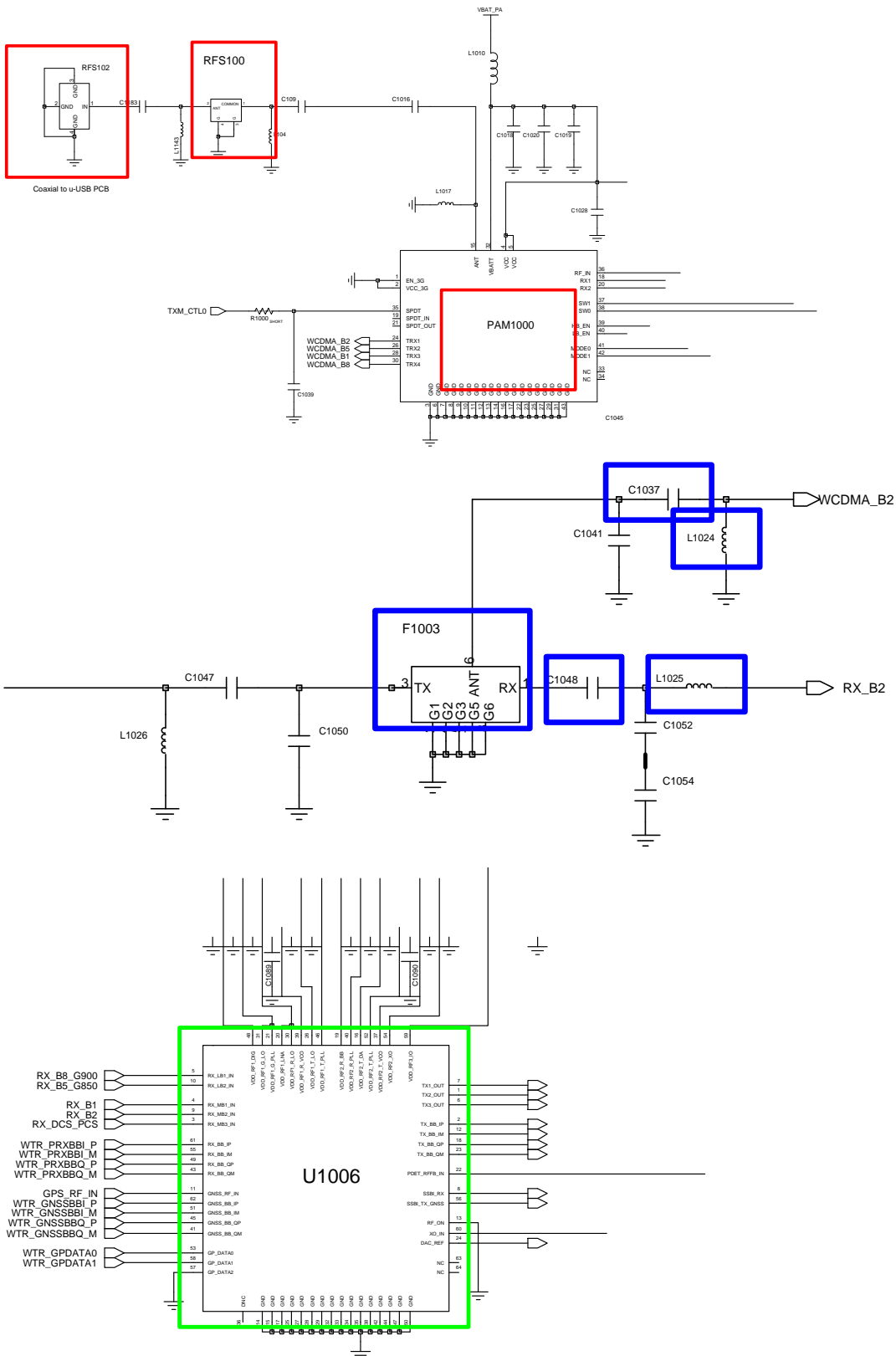


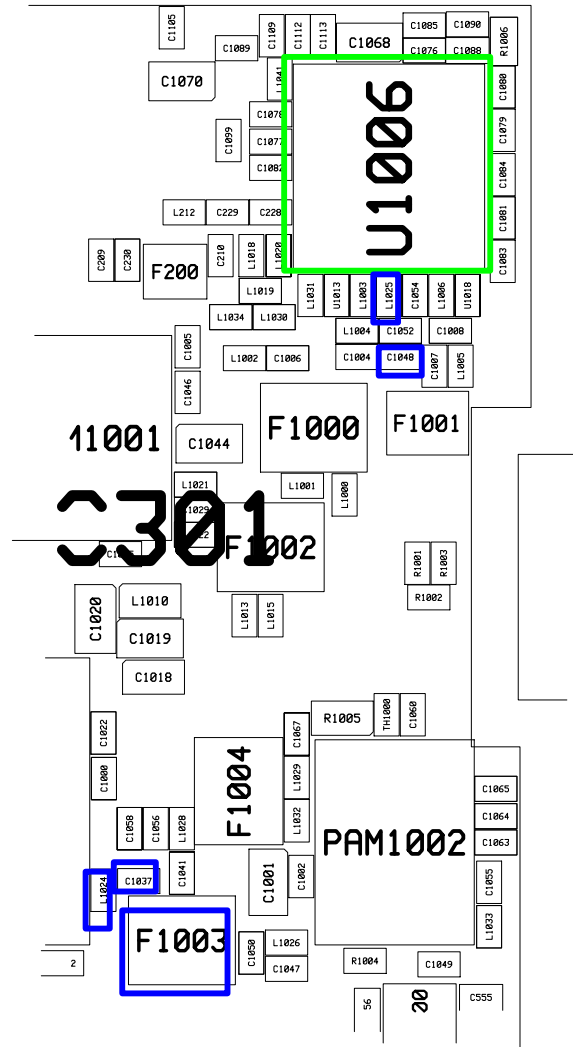
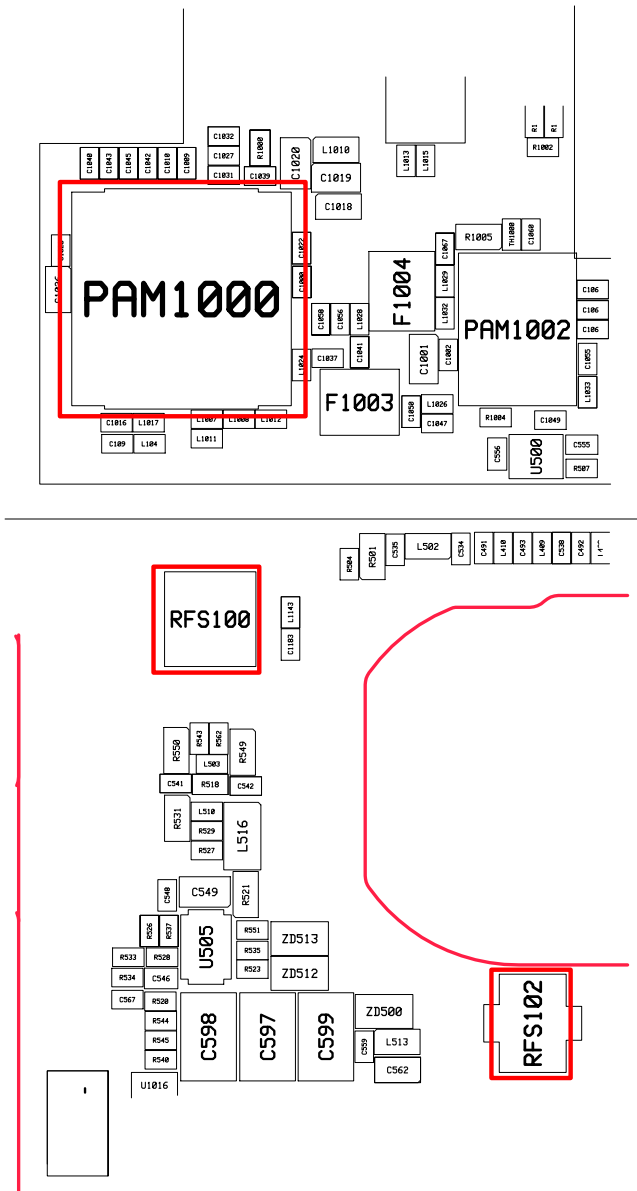




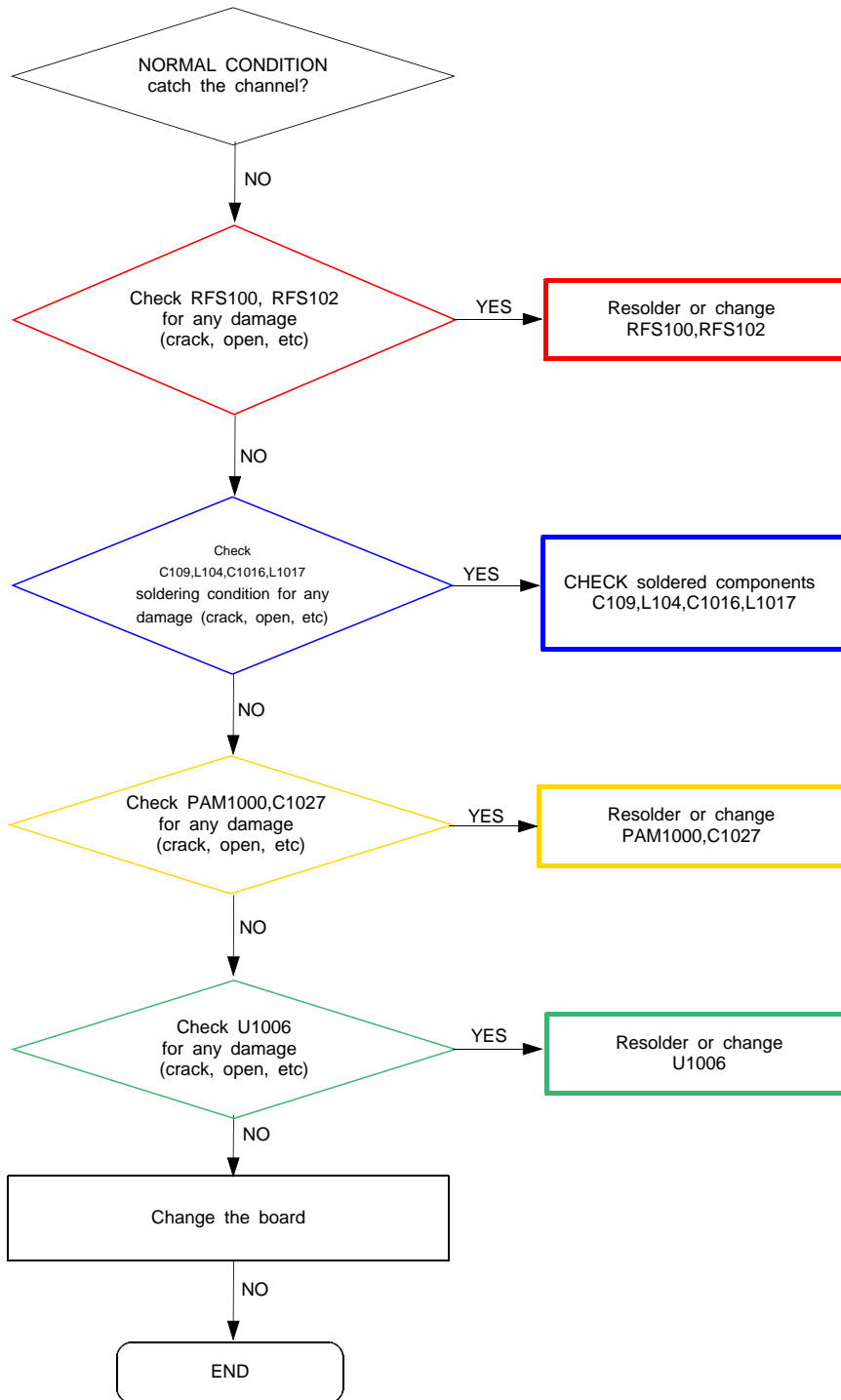
8-3-22. WCDMA B2 RX

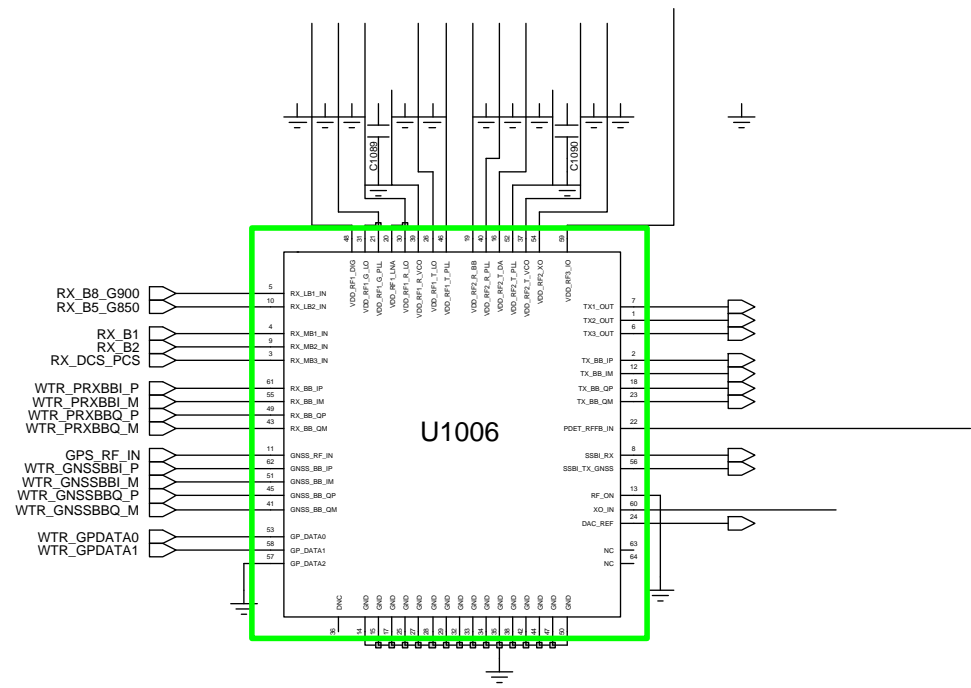
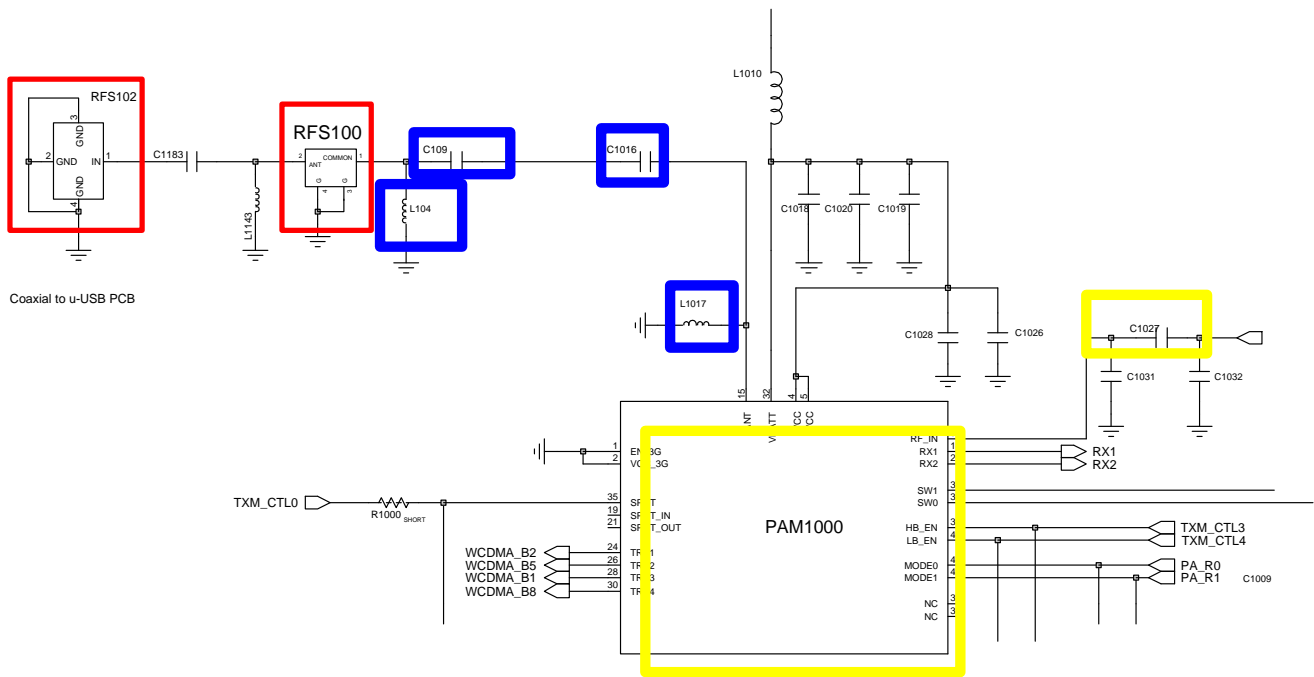


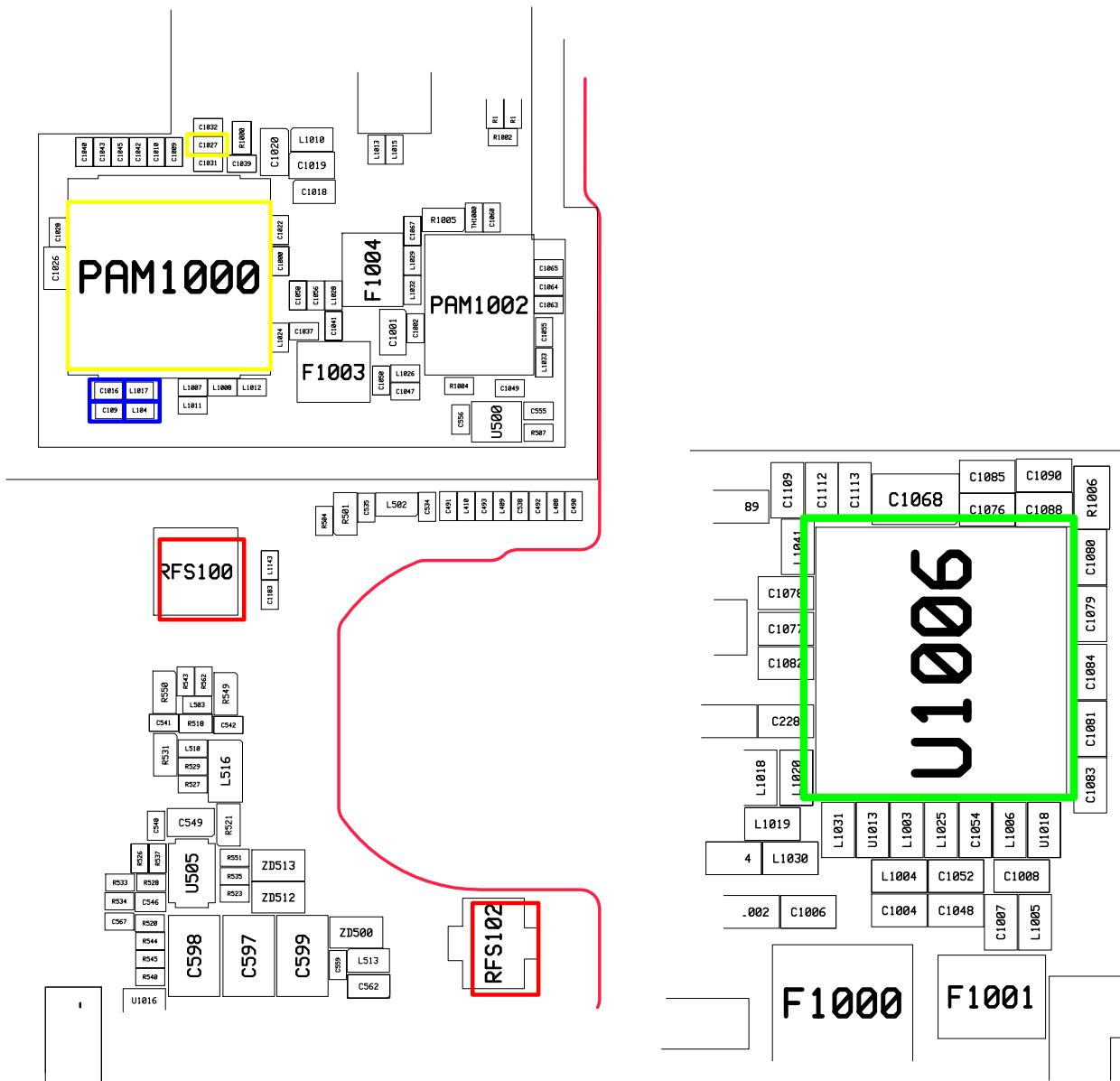




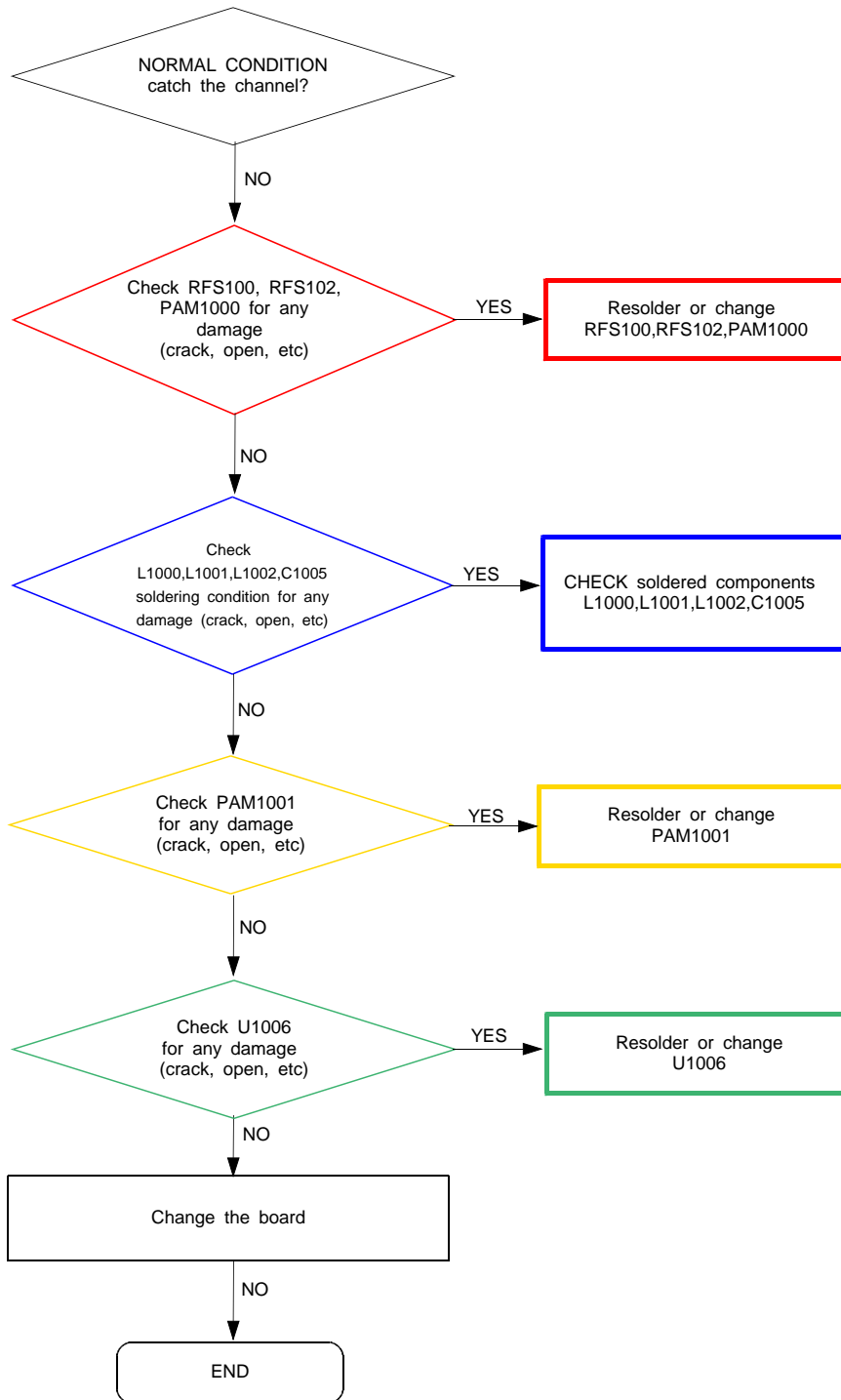
8-3-25. GSM850 / GSM900 / GSM1800 / GSM1900 TX

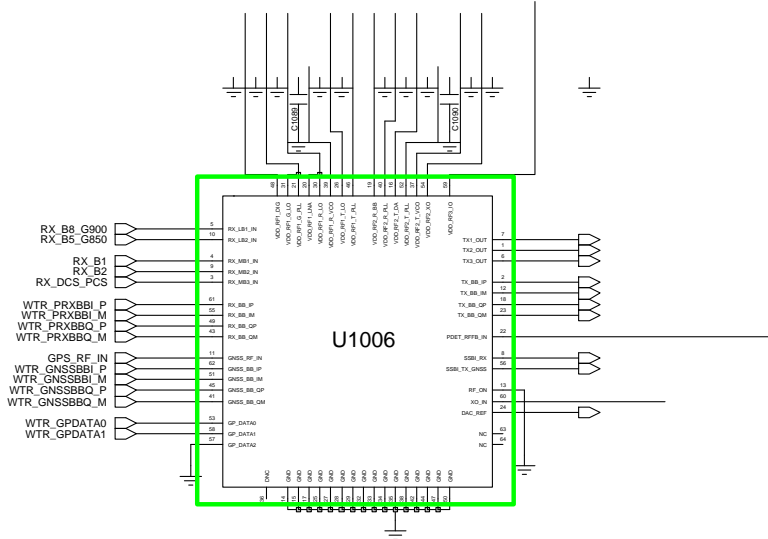
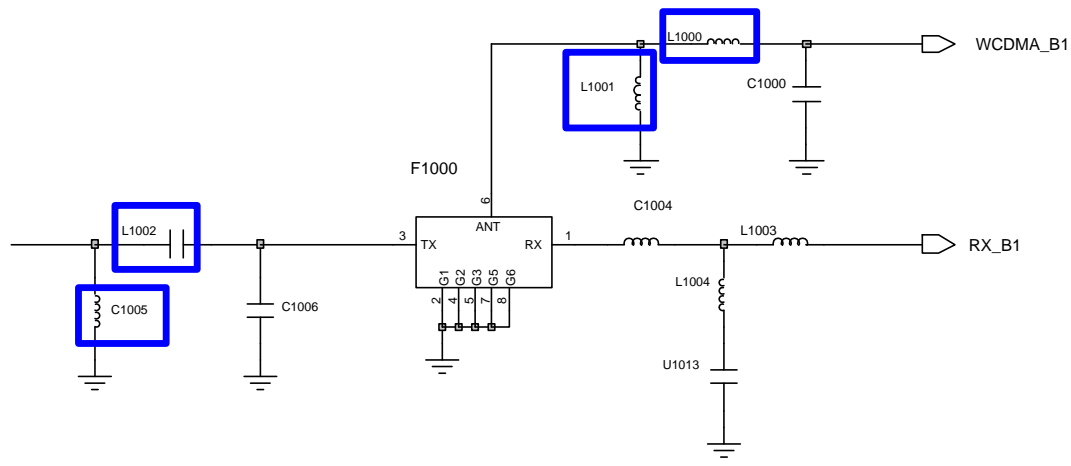
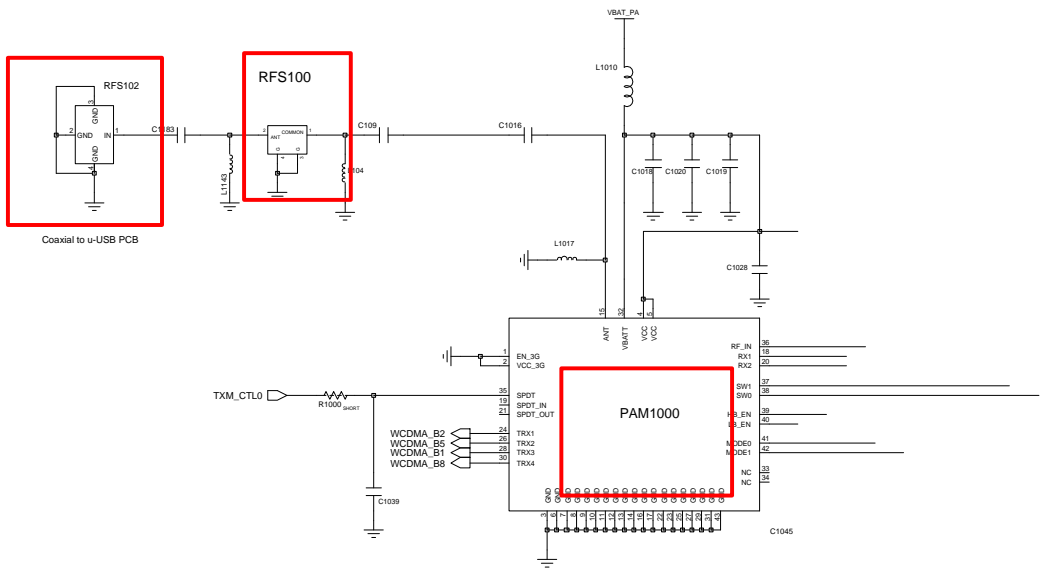


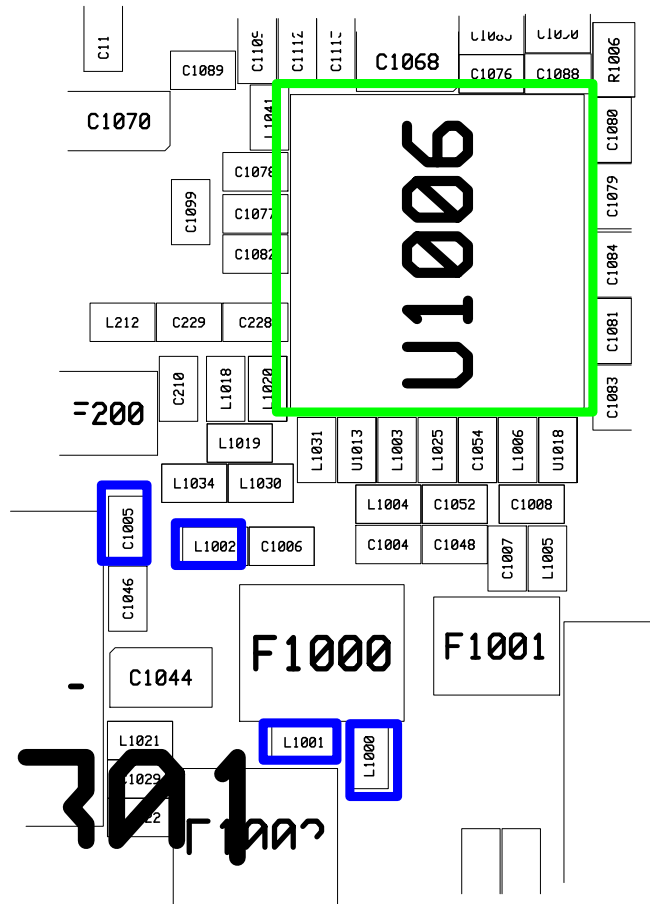
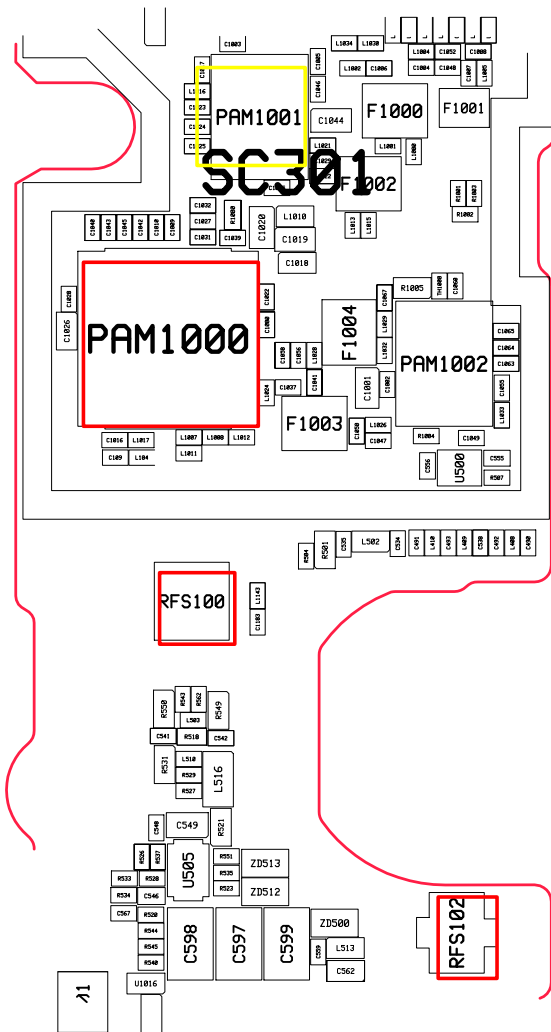




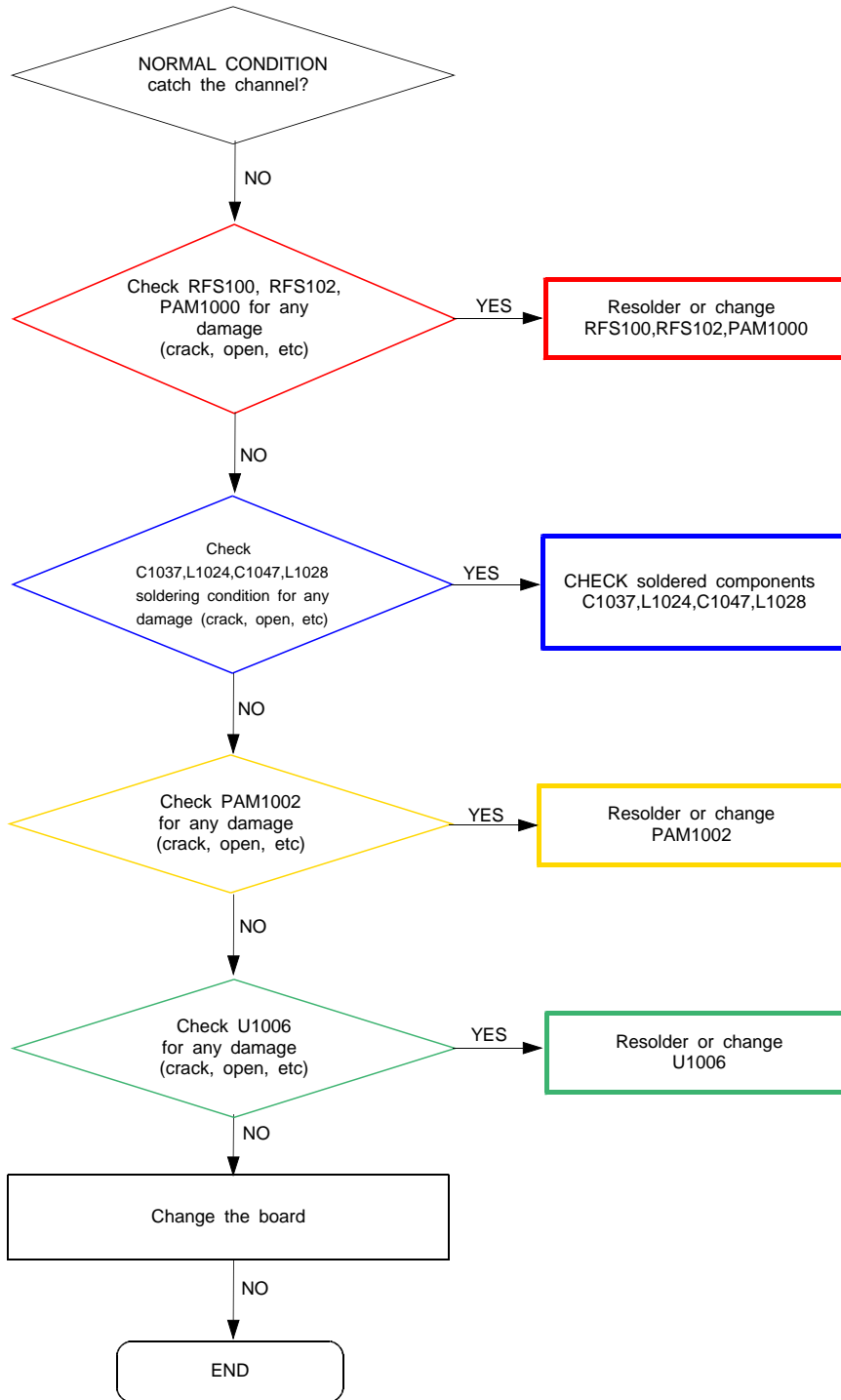
8-3-27. WCDMA B1 TX

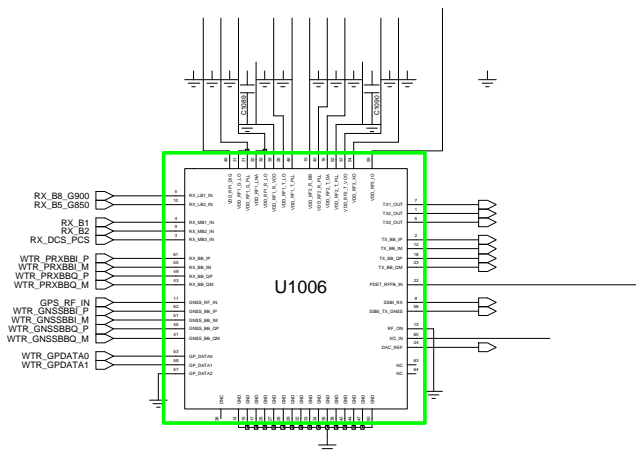
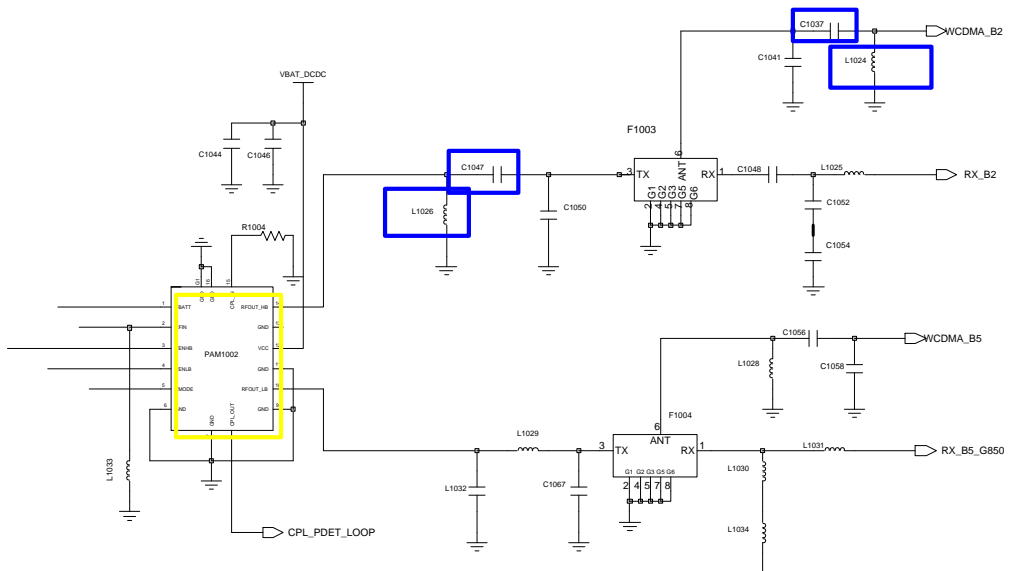
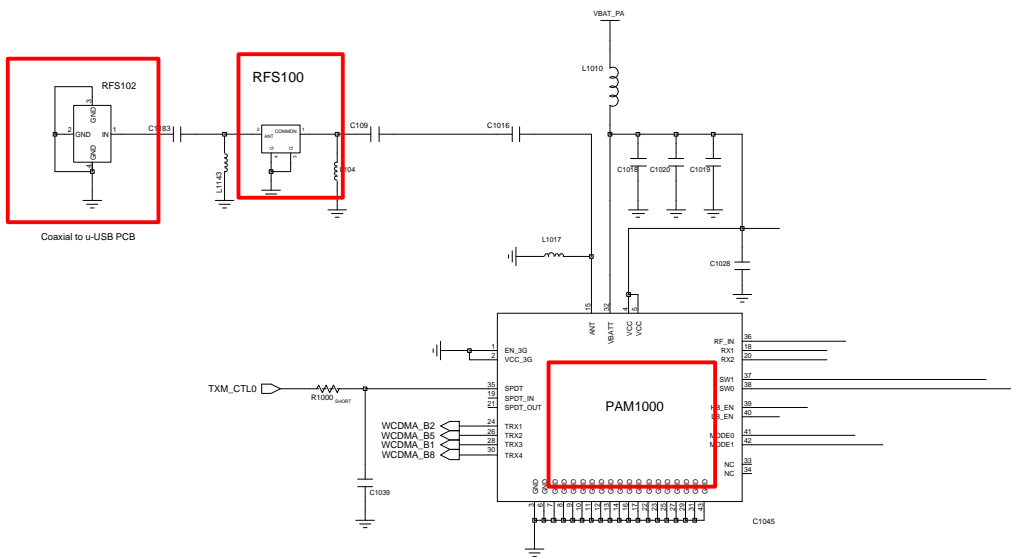




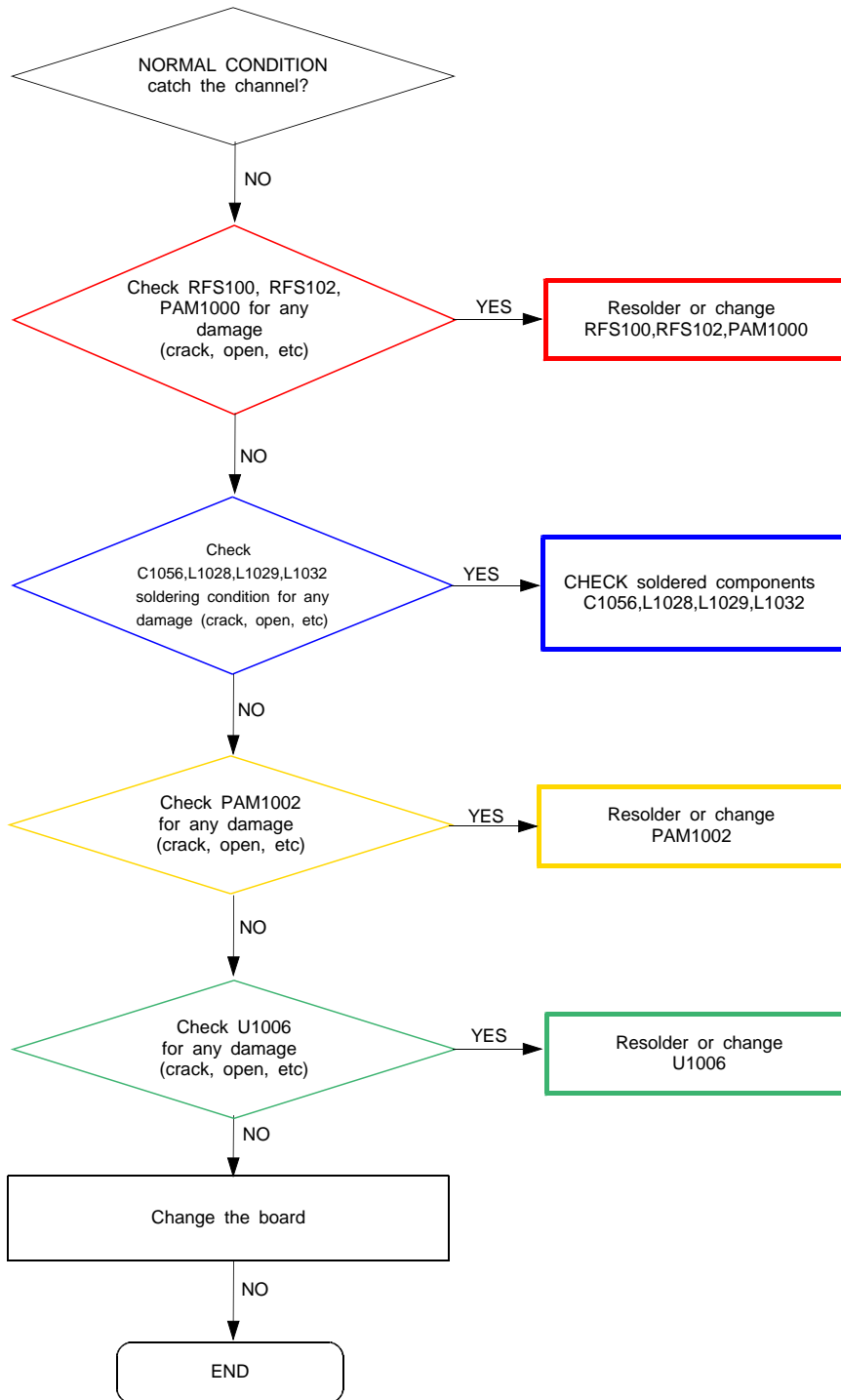


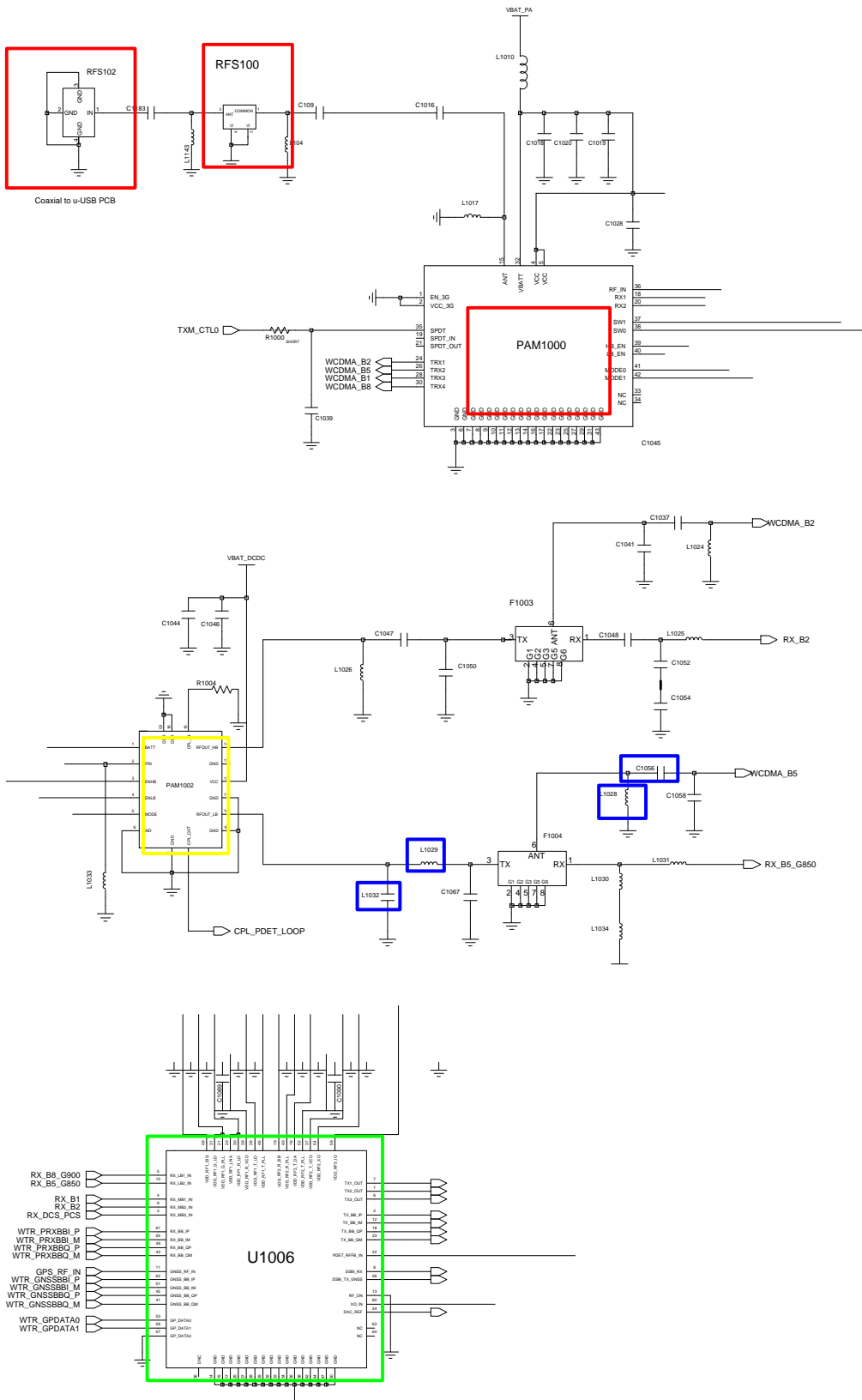
8-3-28. WCDMA B2 TX

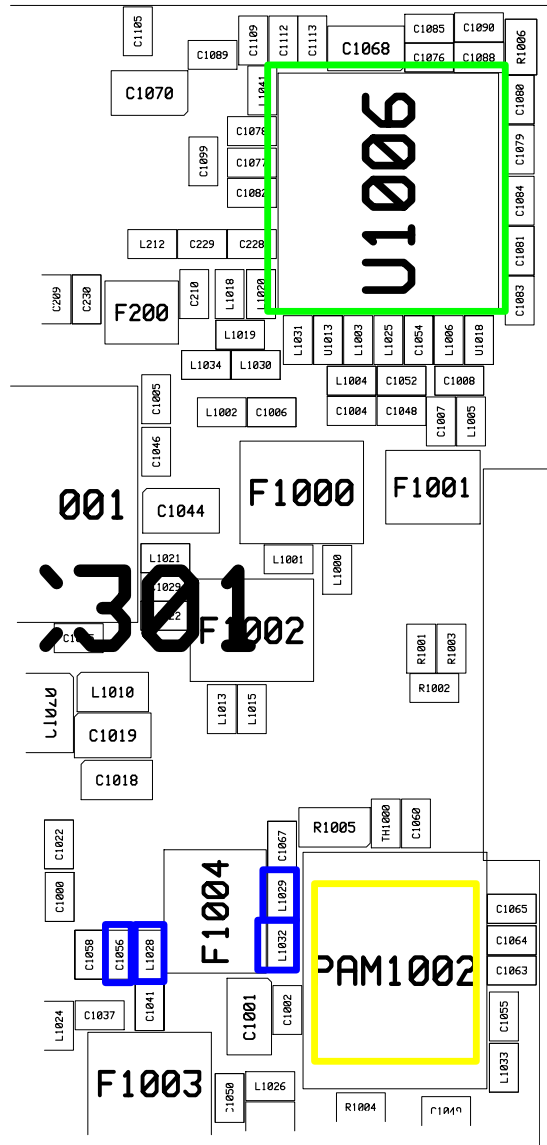
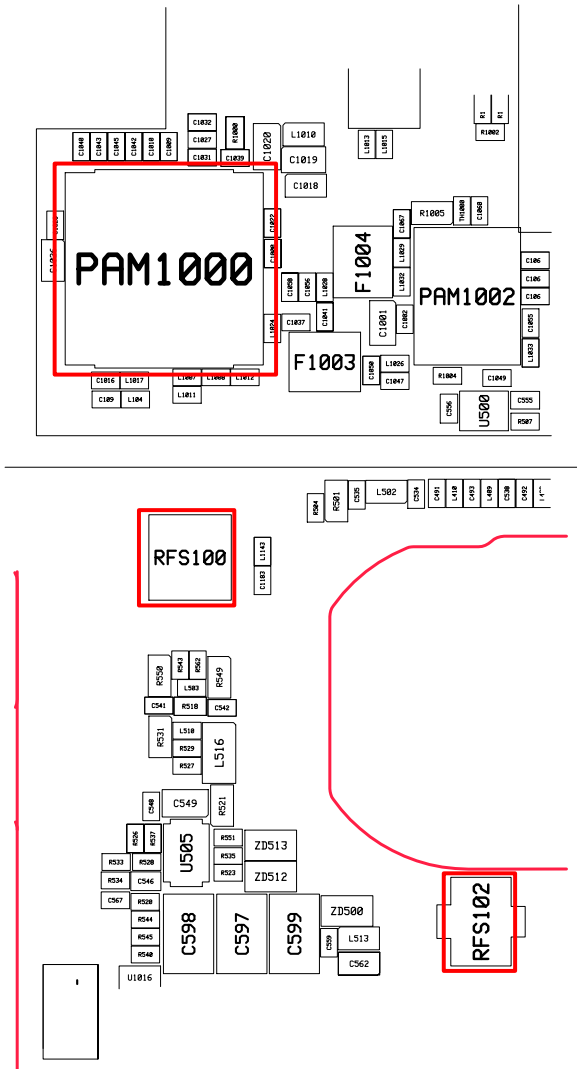




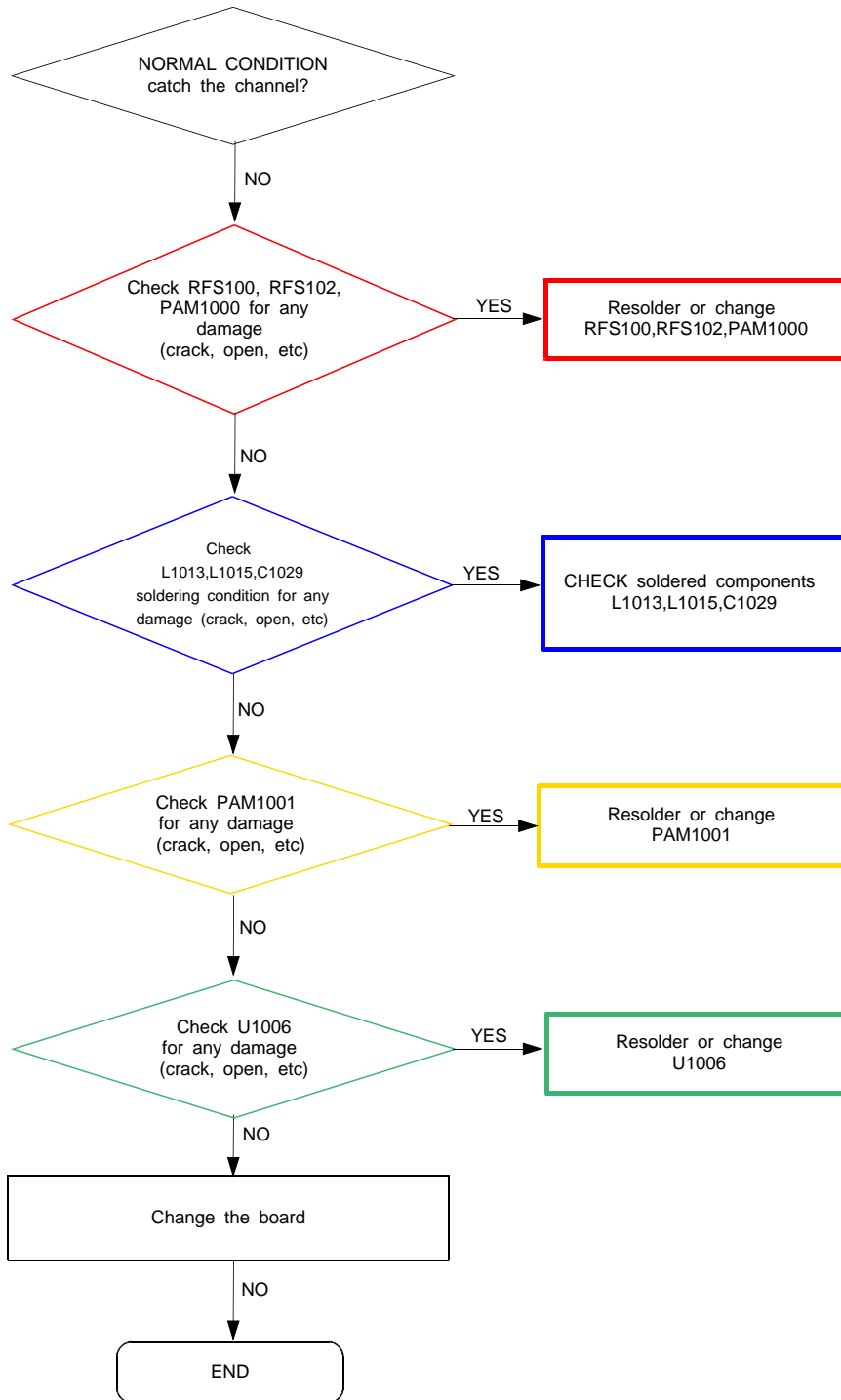
8-3-29. WCDMA B5 TX

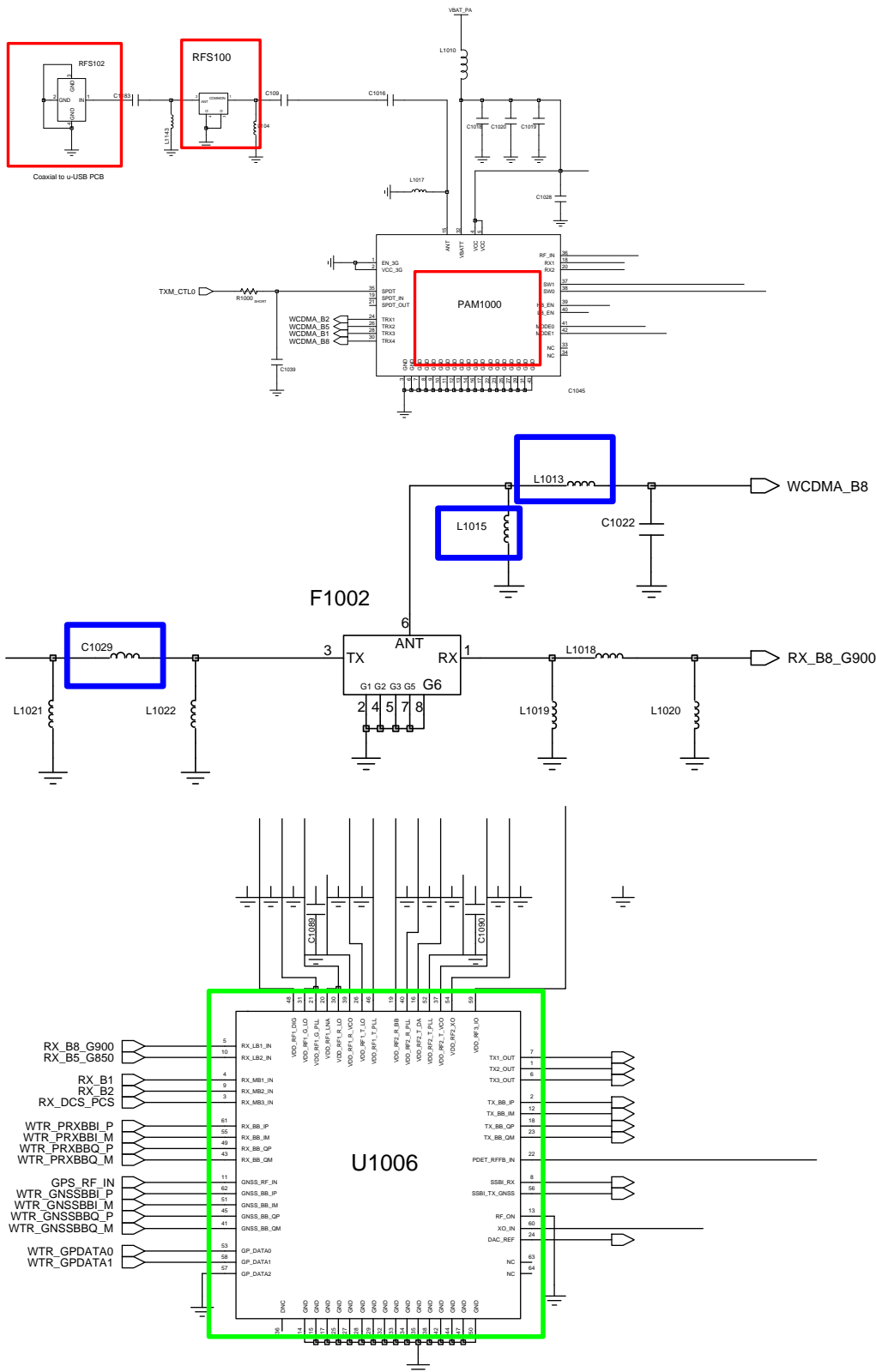


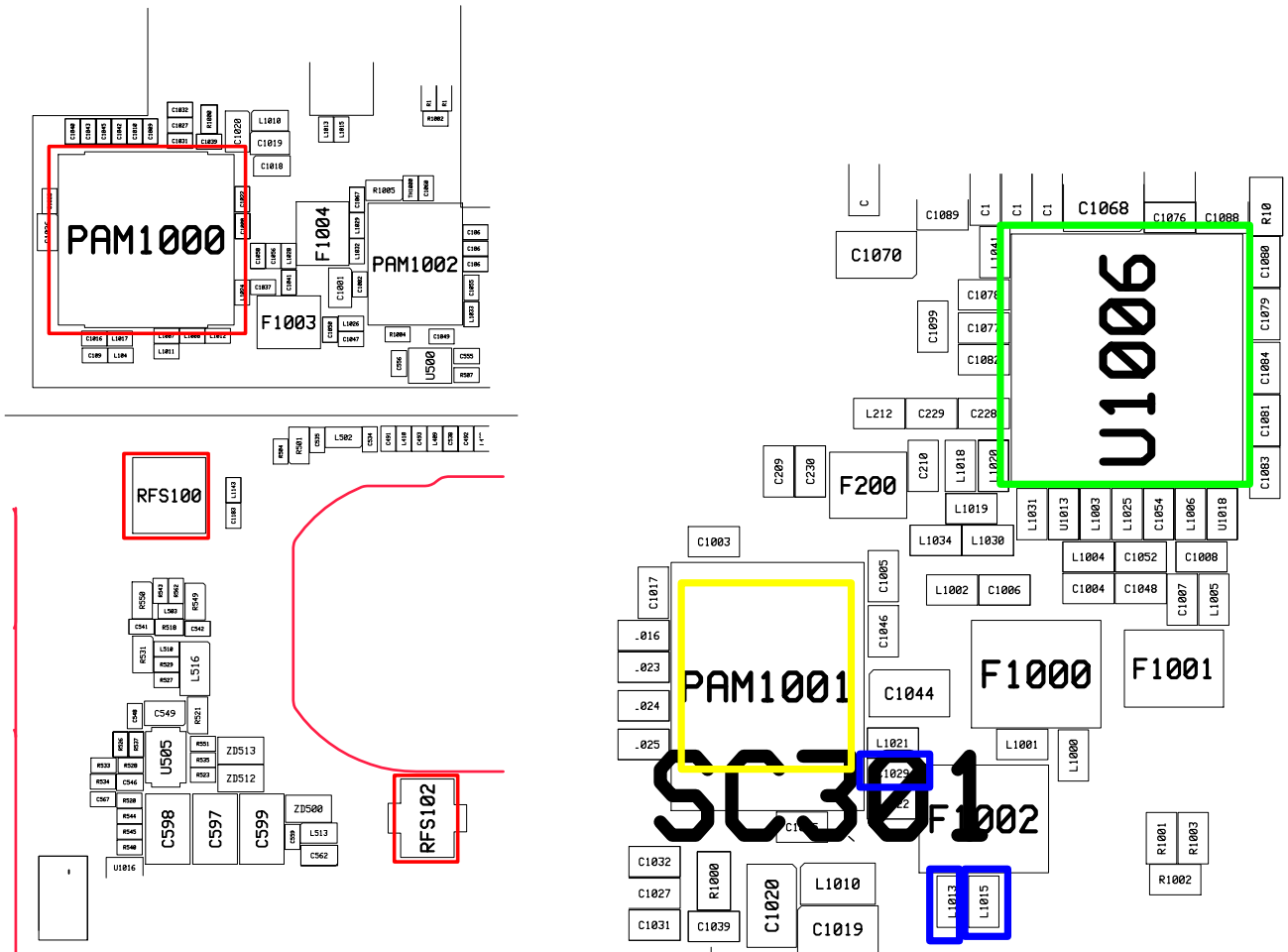




8-3-30. WCDMA B8 TX





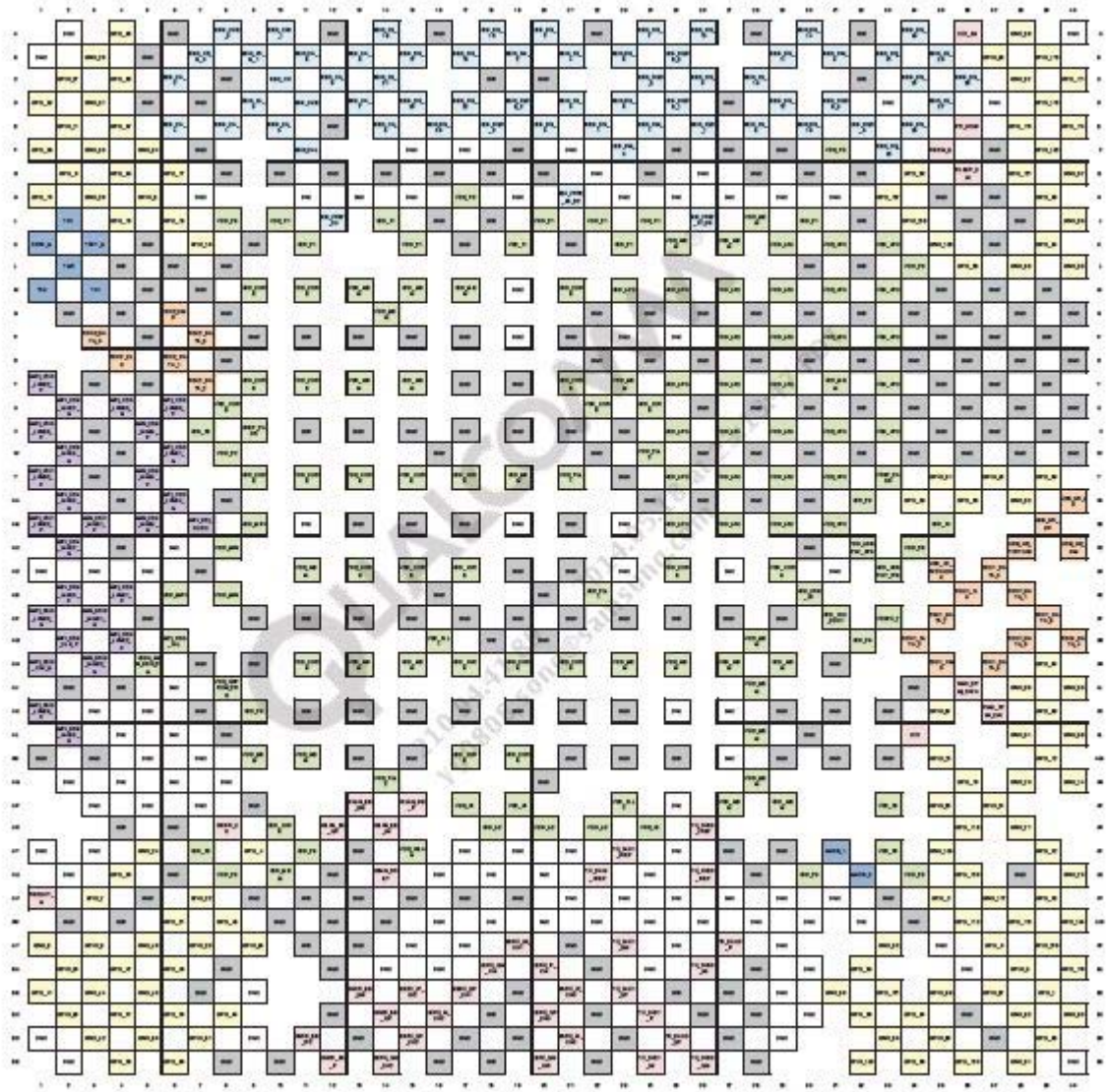


-NC Point(Top View)

●: NC

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A														
B														
C	●													●
D	●							●	●	●	●	●	●	●
E	●	●	●	●	●	●	●	●	●	●	●	●	●	●
F	●					●	●							●
G	●					●	●							●
H	●					●	●							●
I	●					●	●							●
J	●					●	●							●
K	●					●	●							●
L	●					●	●							●
M	●					●	●							●
N	●					●	●							●
P	●					●	●							●
R	●					●	●							●
T	●					●	●							●
U	●					●	●							●
V	●					●	●							●
W	●					●	●							●
Y	●					●	●							●
AA						●	●							
AB						●	●							

UME400



UCP300

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
<u>A</u>														
<u>B</u>														
<u>C</u>									●					
<u>D</u>							●	●						
<u>E</u>					●									
<u>F</u>			●		●									
<u>G</u>														
<u>H</u>	●		●					●						●
<u>J</u>								●						
<u>K</u>					●	●					●			
<u>L</u>				●	●	●		●						
<u>M</u>														●
<u>N</u>														
<u>P</u>										●				

U400