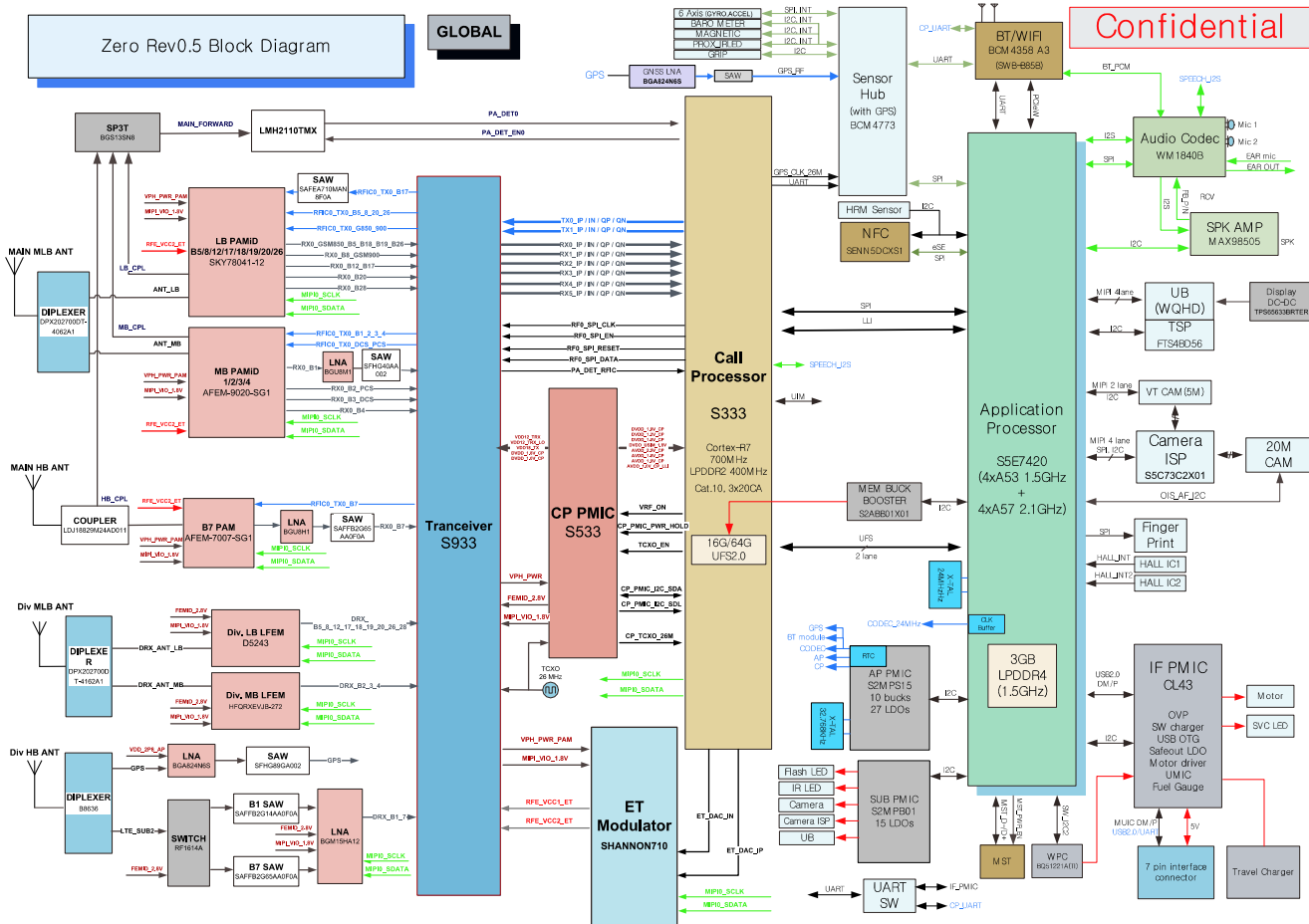
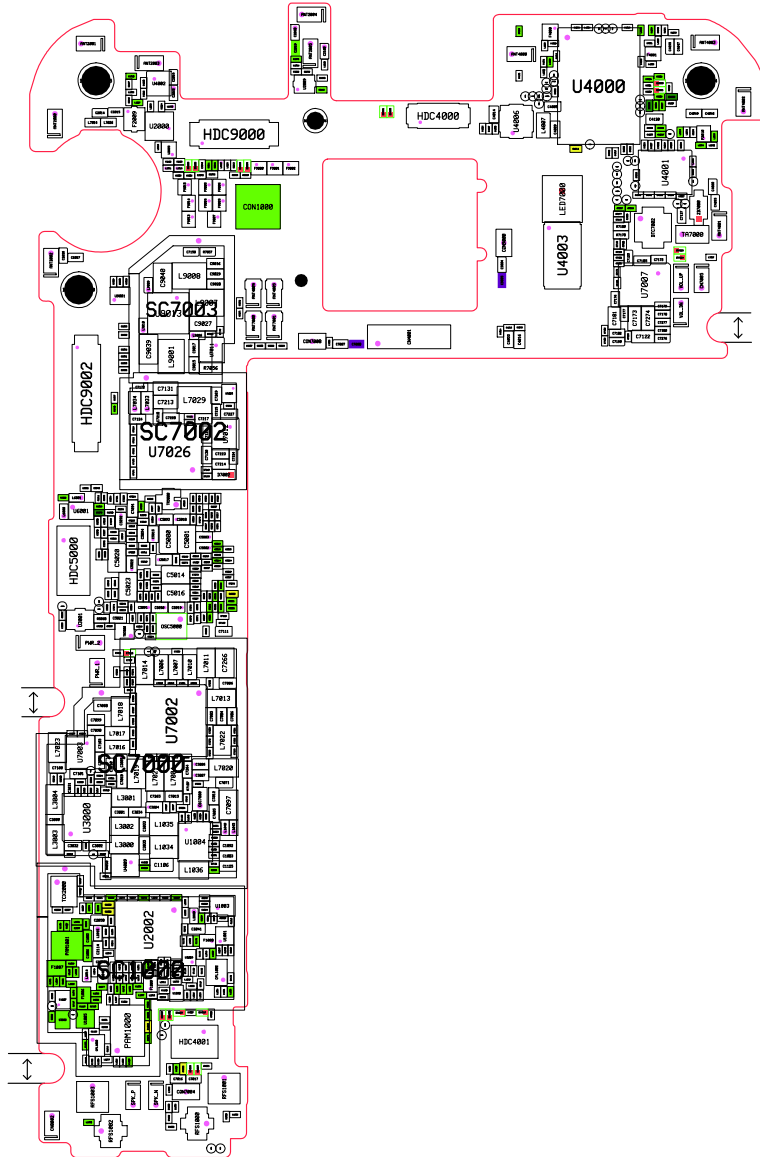


# 8. Level 3 Repair

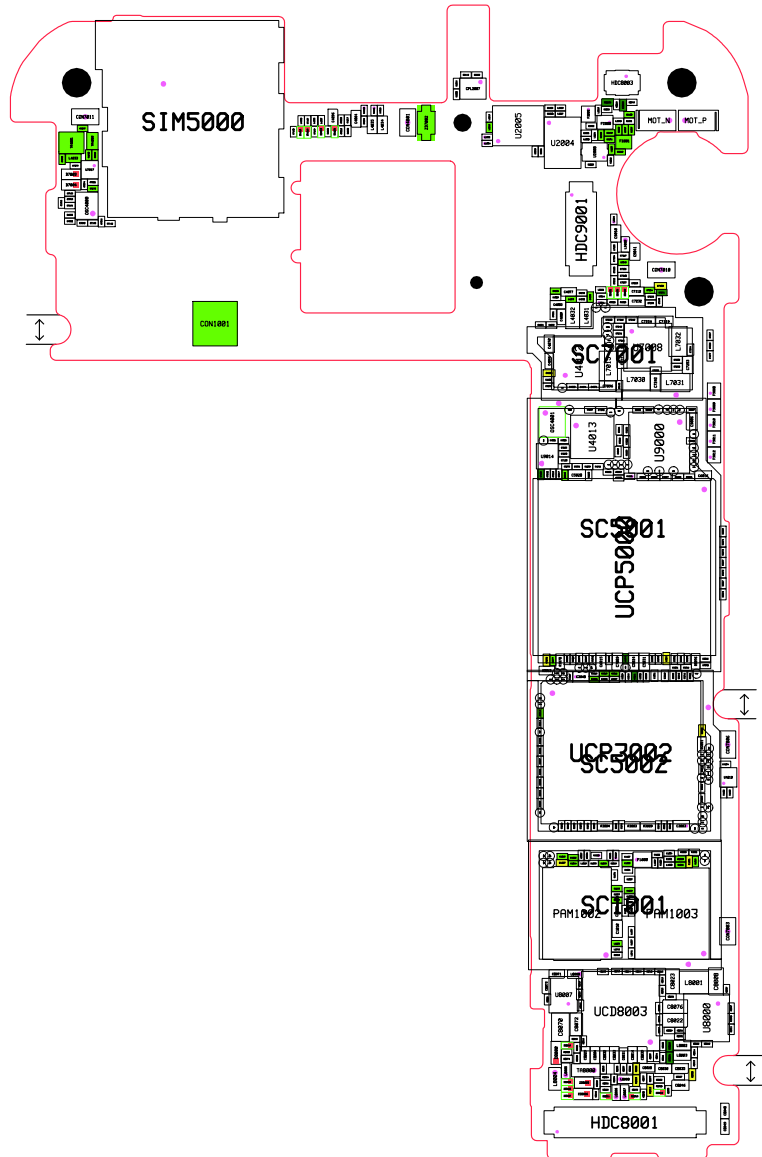
## 8-1. Block Diagram



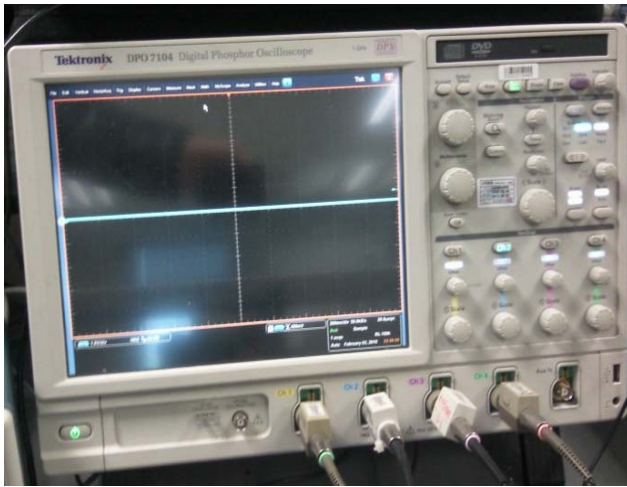
8-2. PCB Diagrams  
8-2-1. Main PCB Top



8-2-2. Bottom



### 8-2-3. Equipments



↑ Oscilloscope



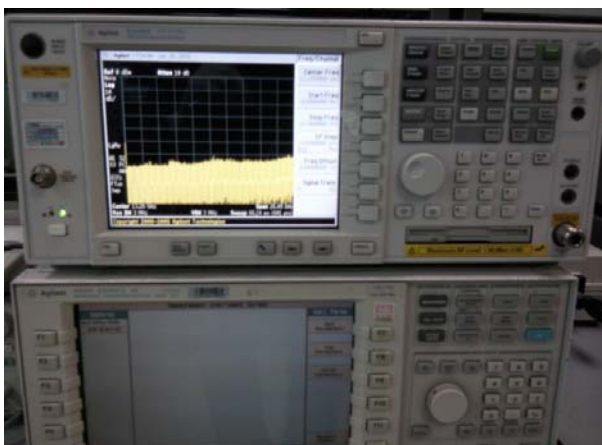
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer



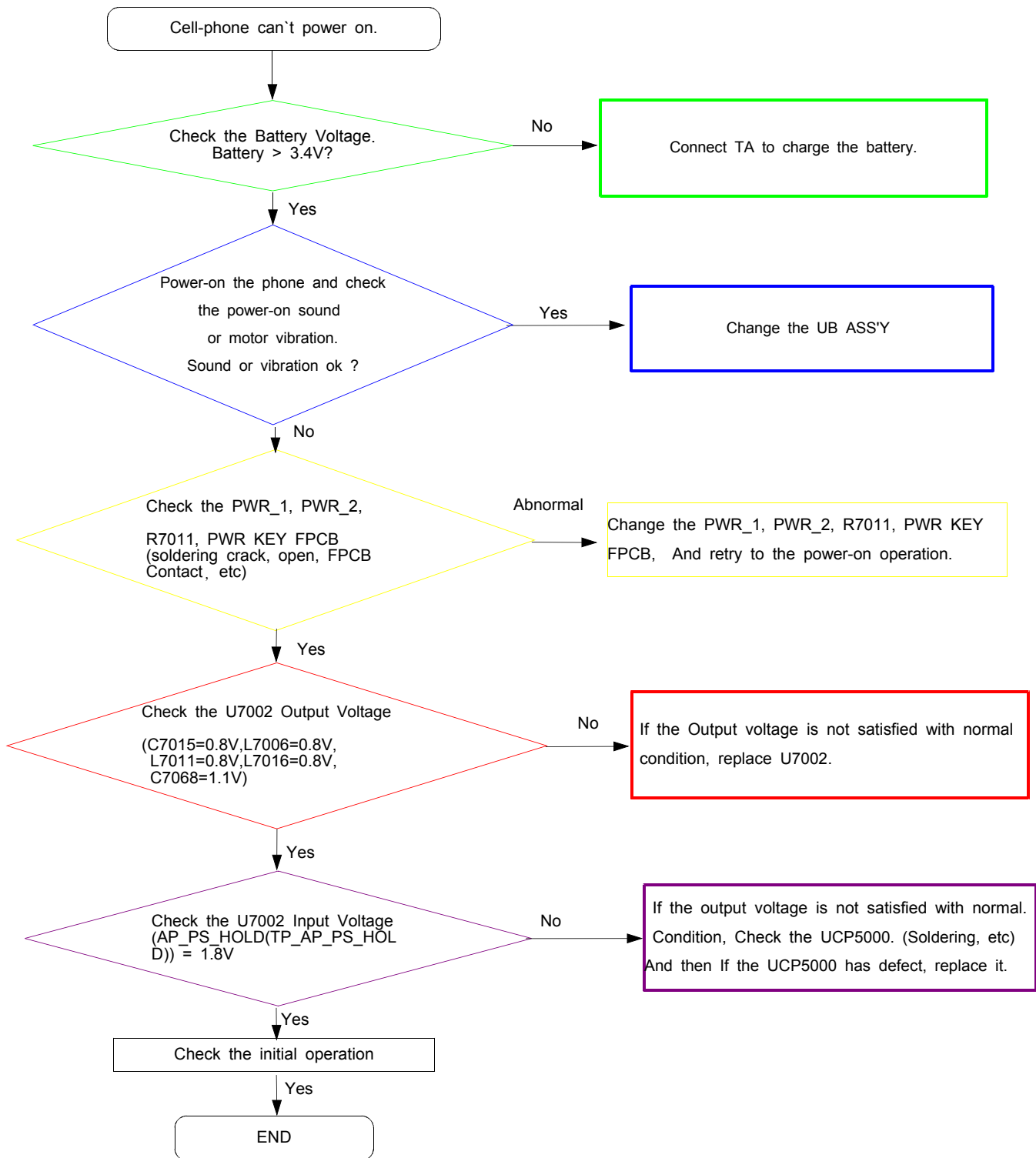
↑ 8960 & Spectrum Analyzer

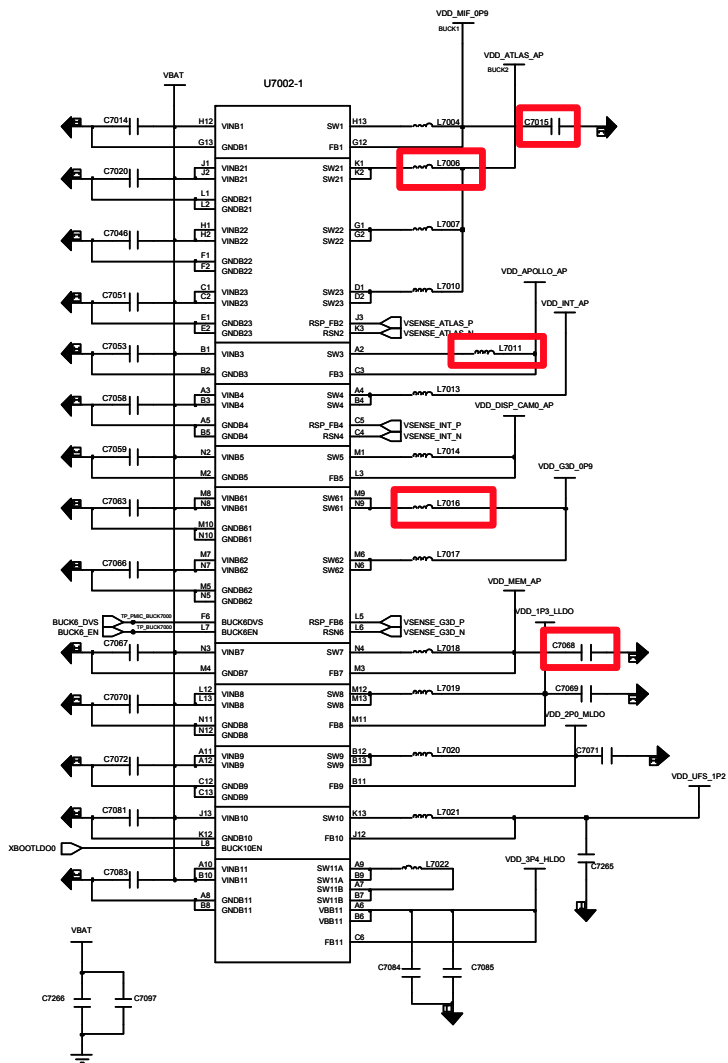
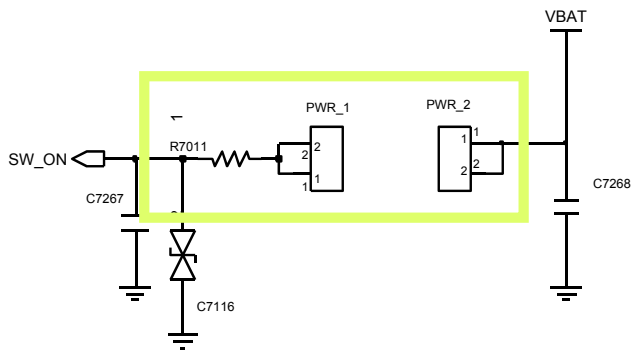


↑ Soldering iron

### 8-3. Flow Chart of Troubleshooting

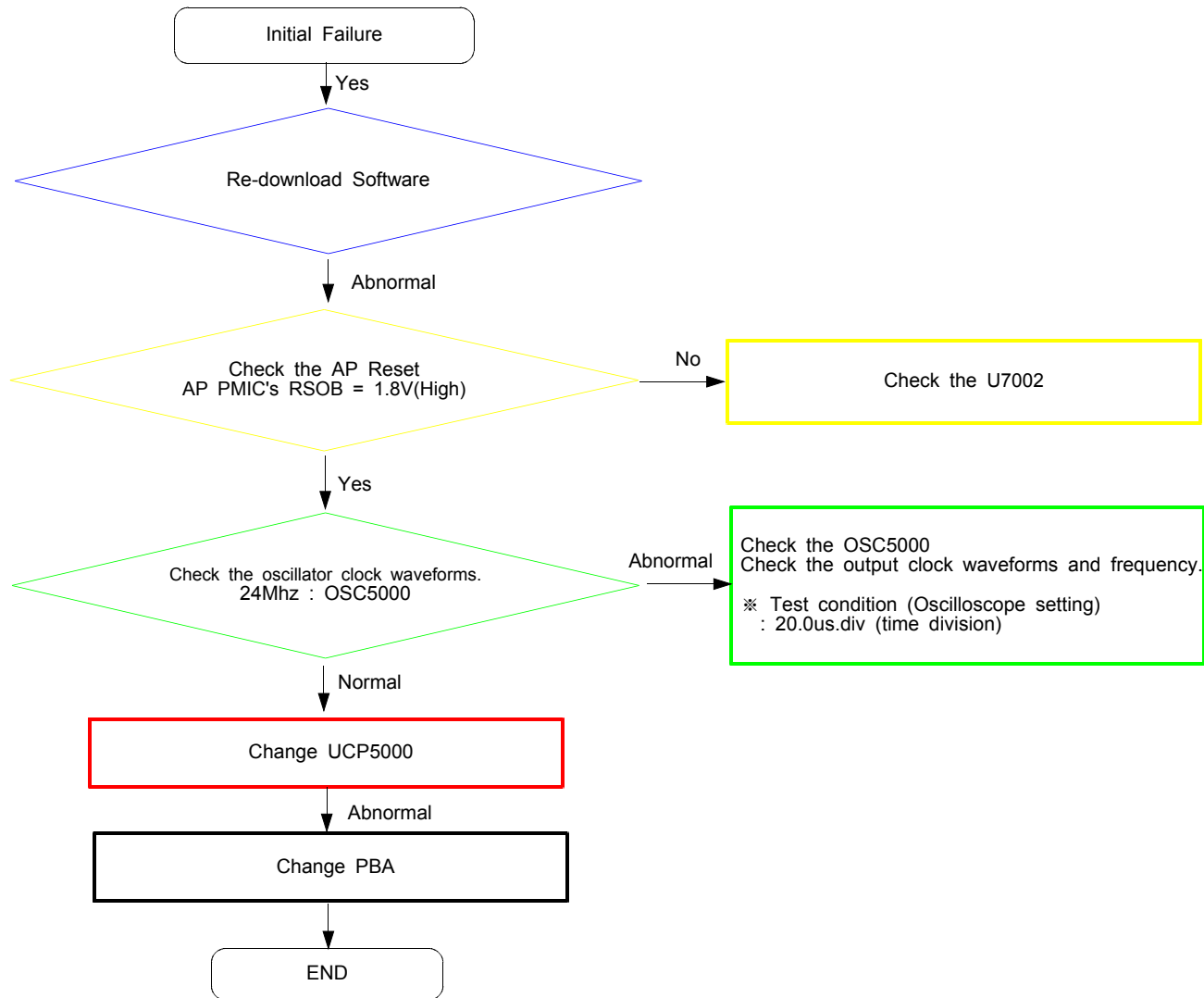
#### 8-3-1. Power On



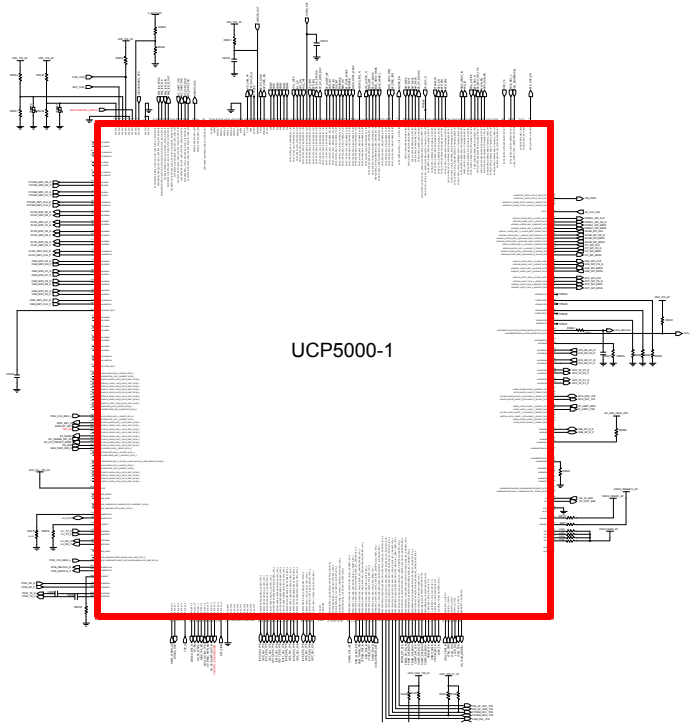
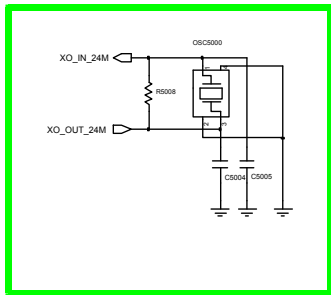
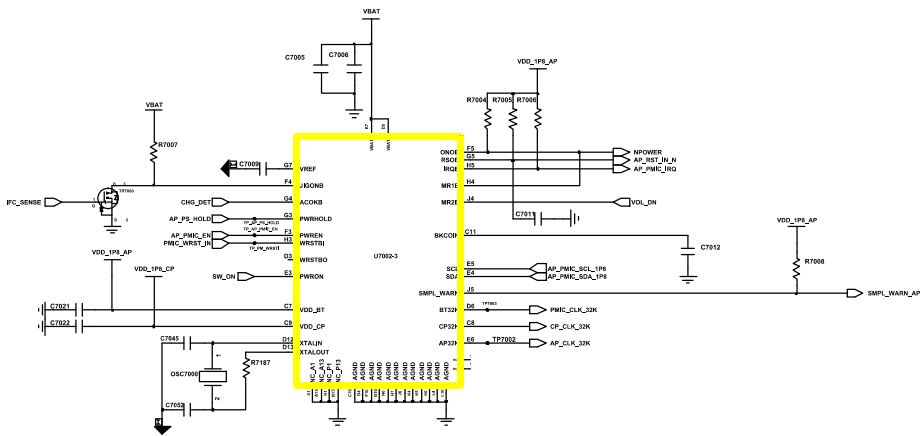


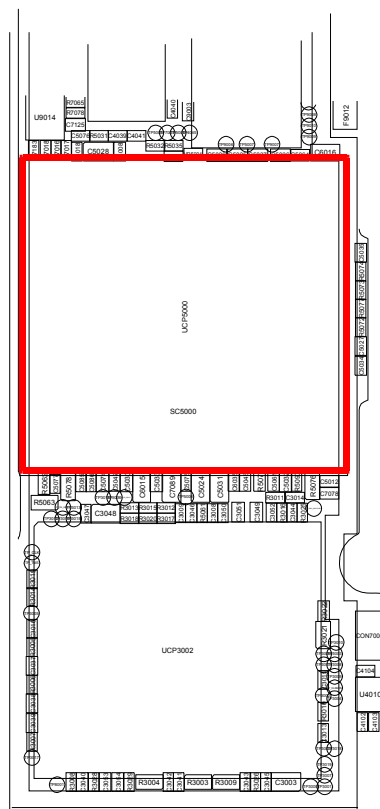
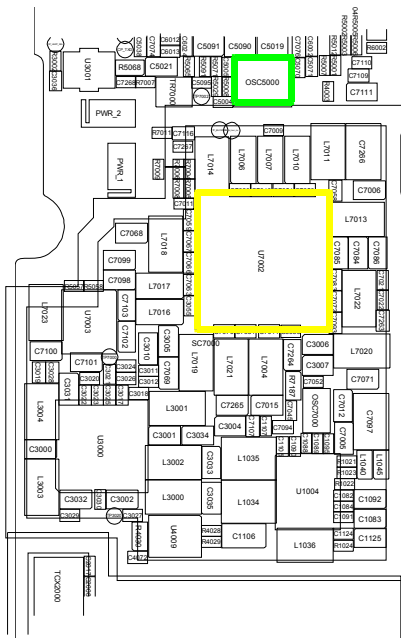


8-3-2. Initial

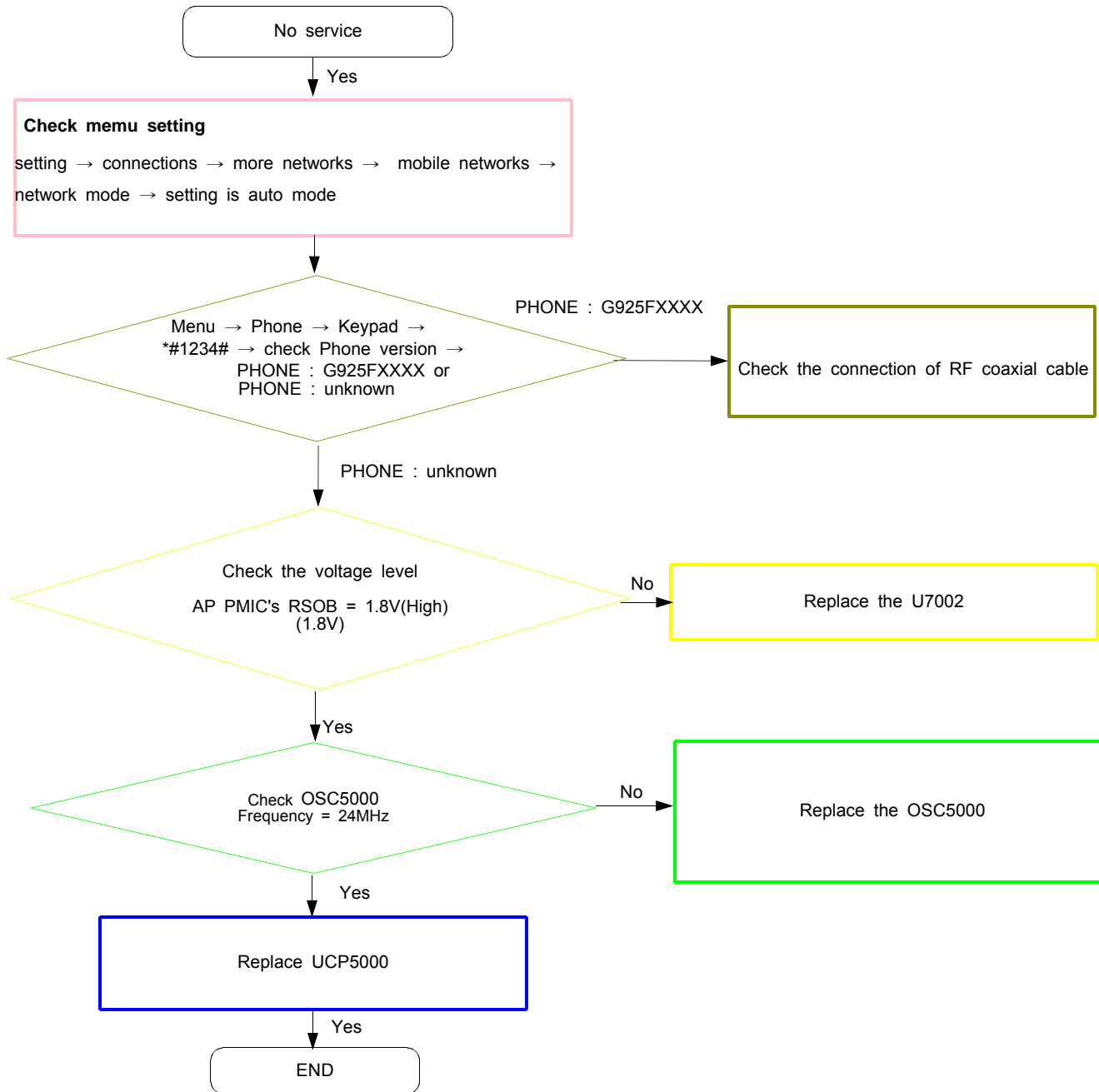


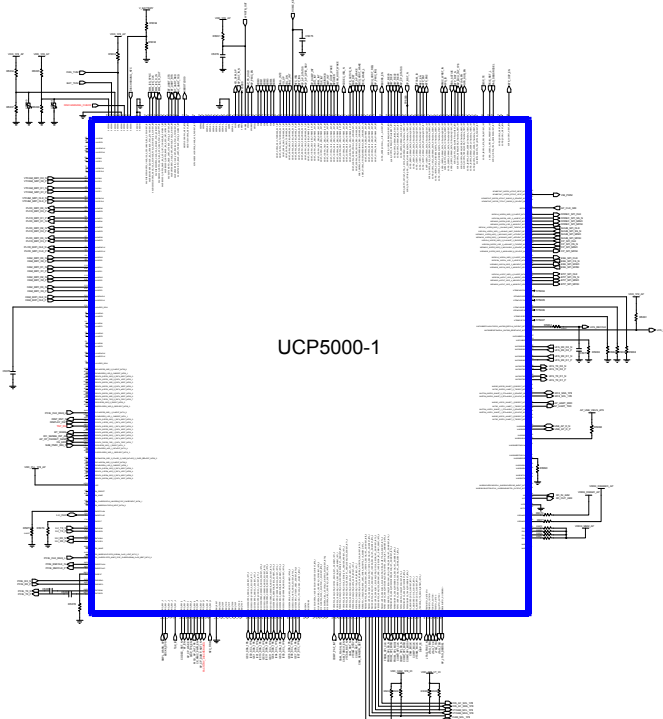
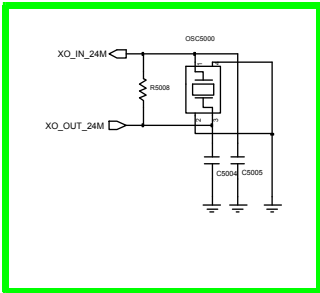
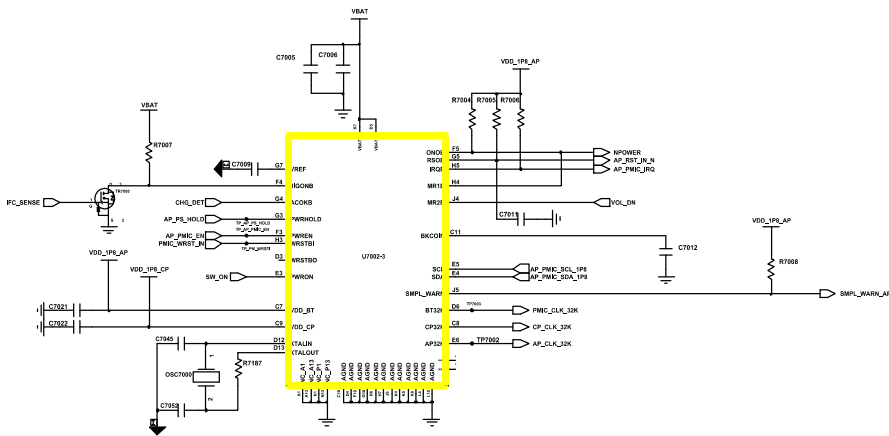






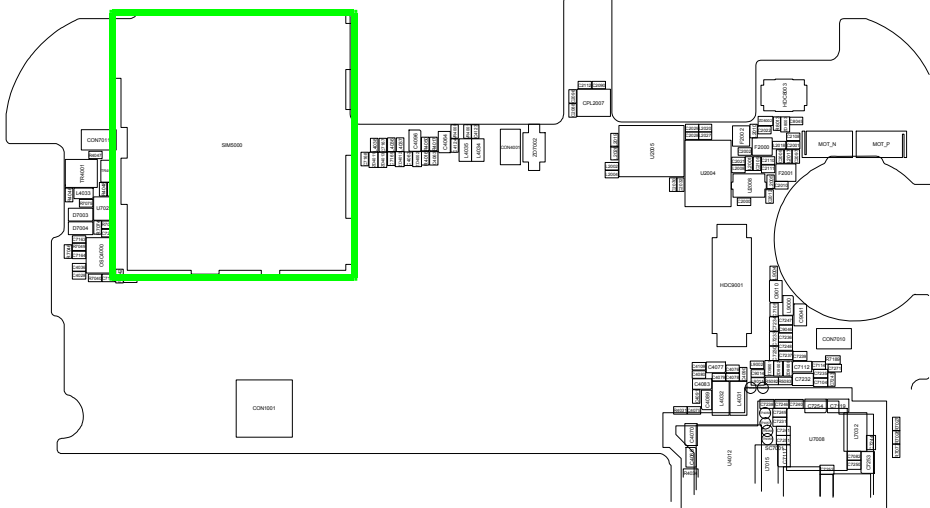
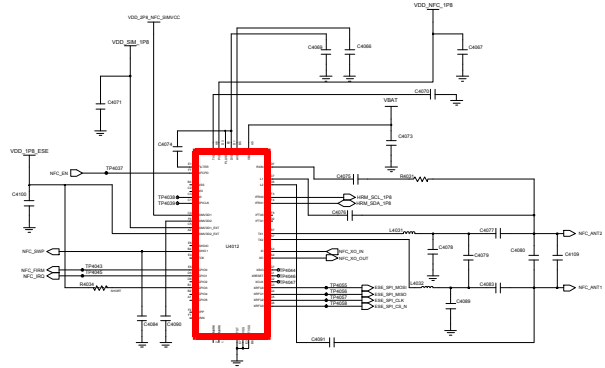
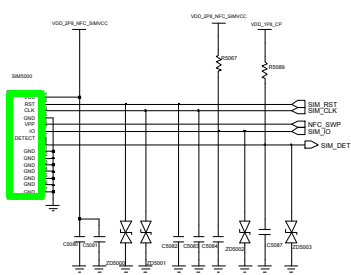
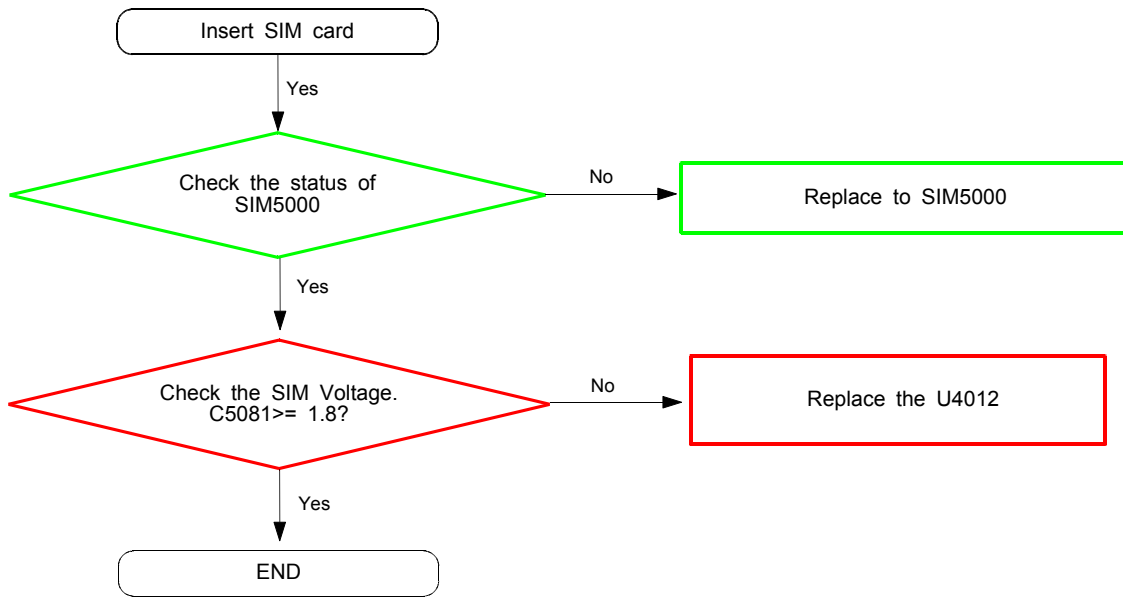
### 8-3-3. No Service



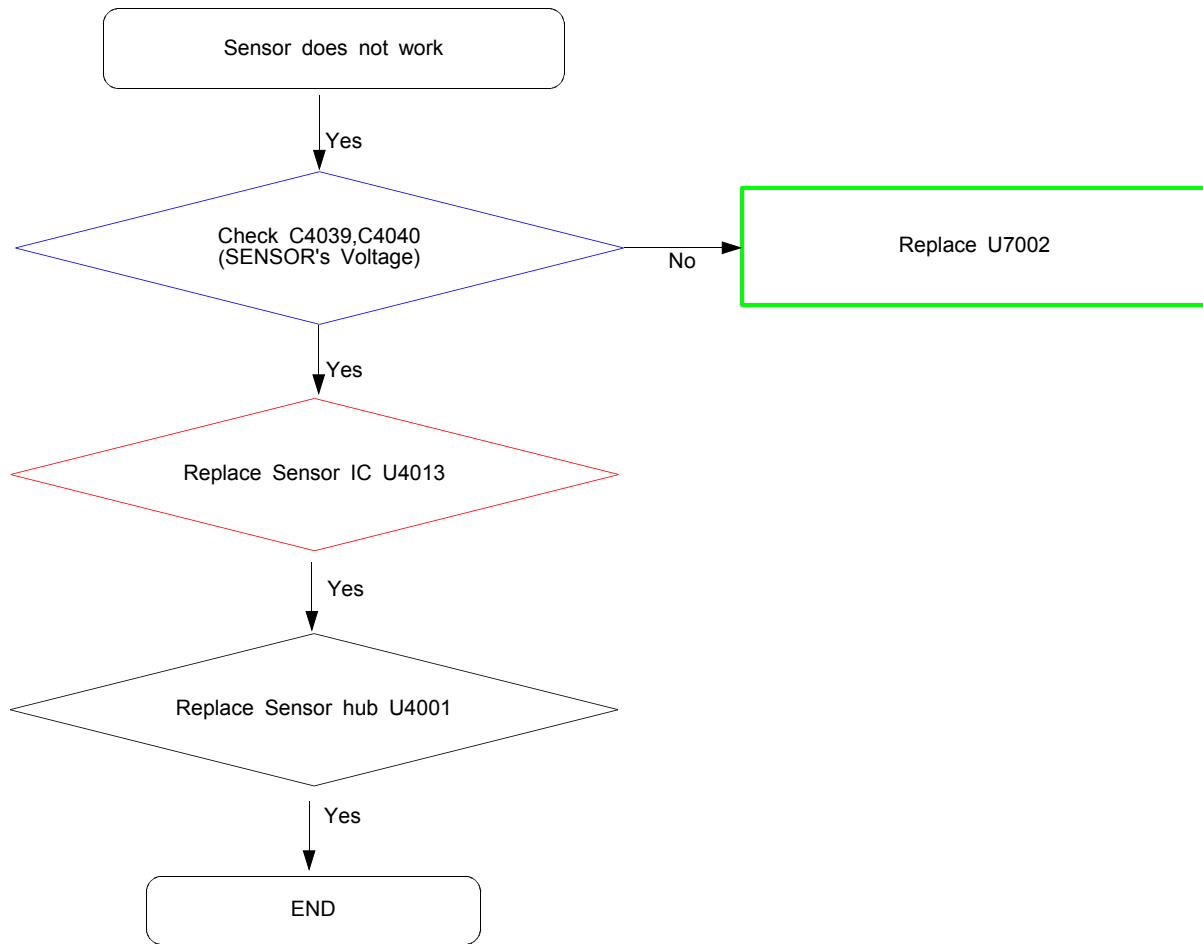


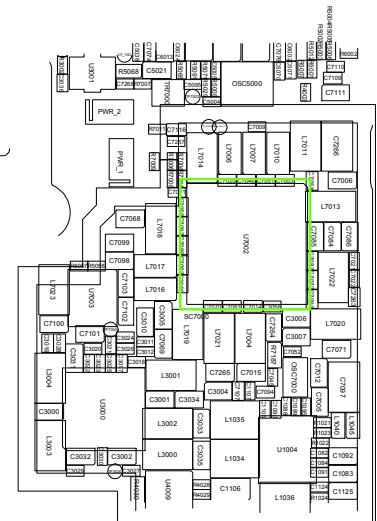
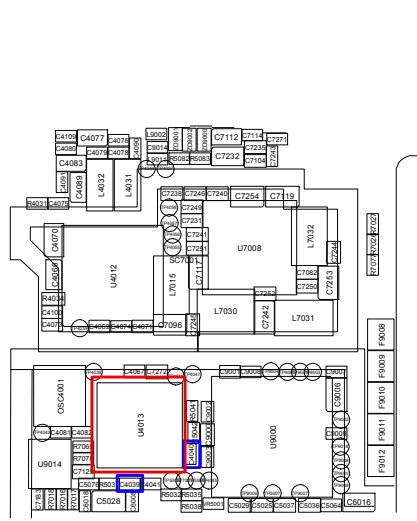
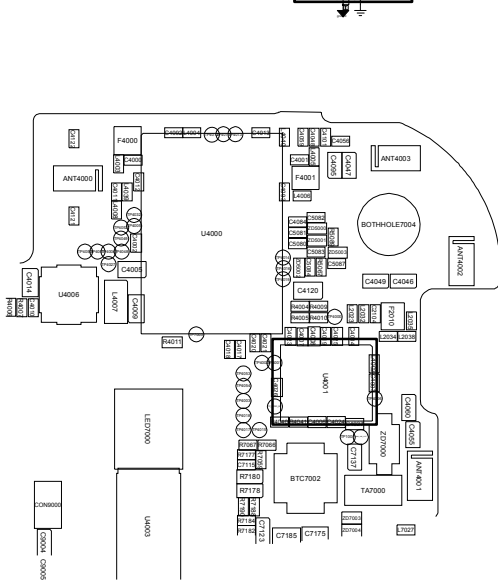
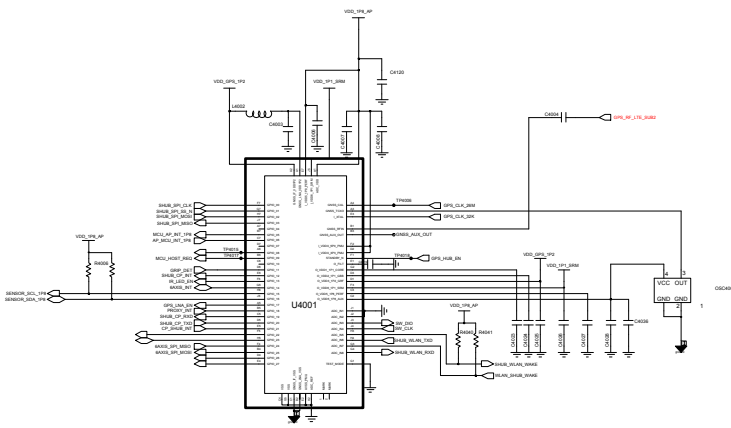
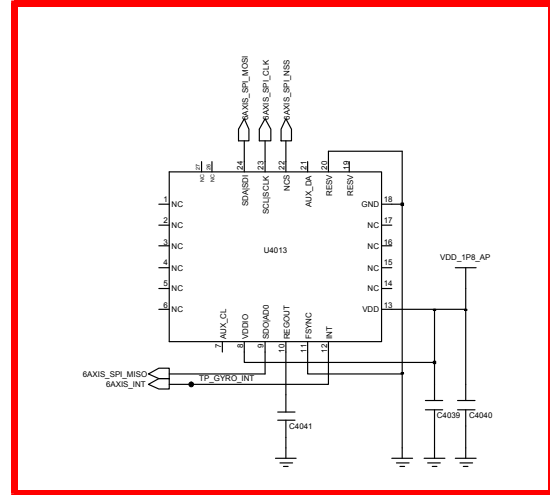
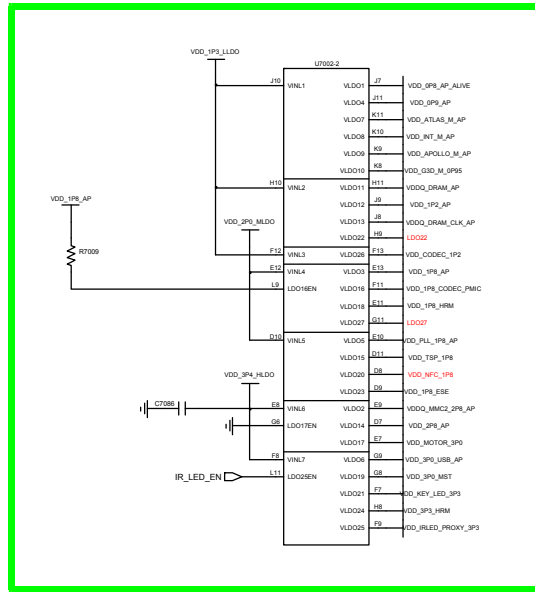


8-3-4. SIM Part



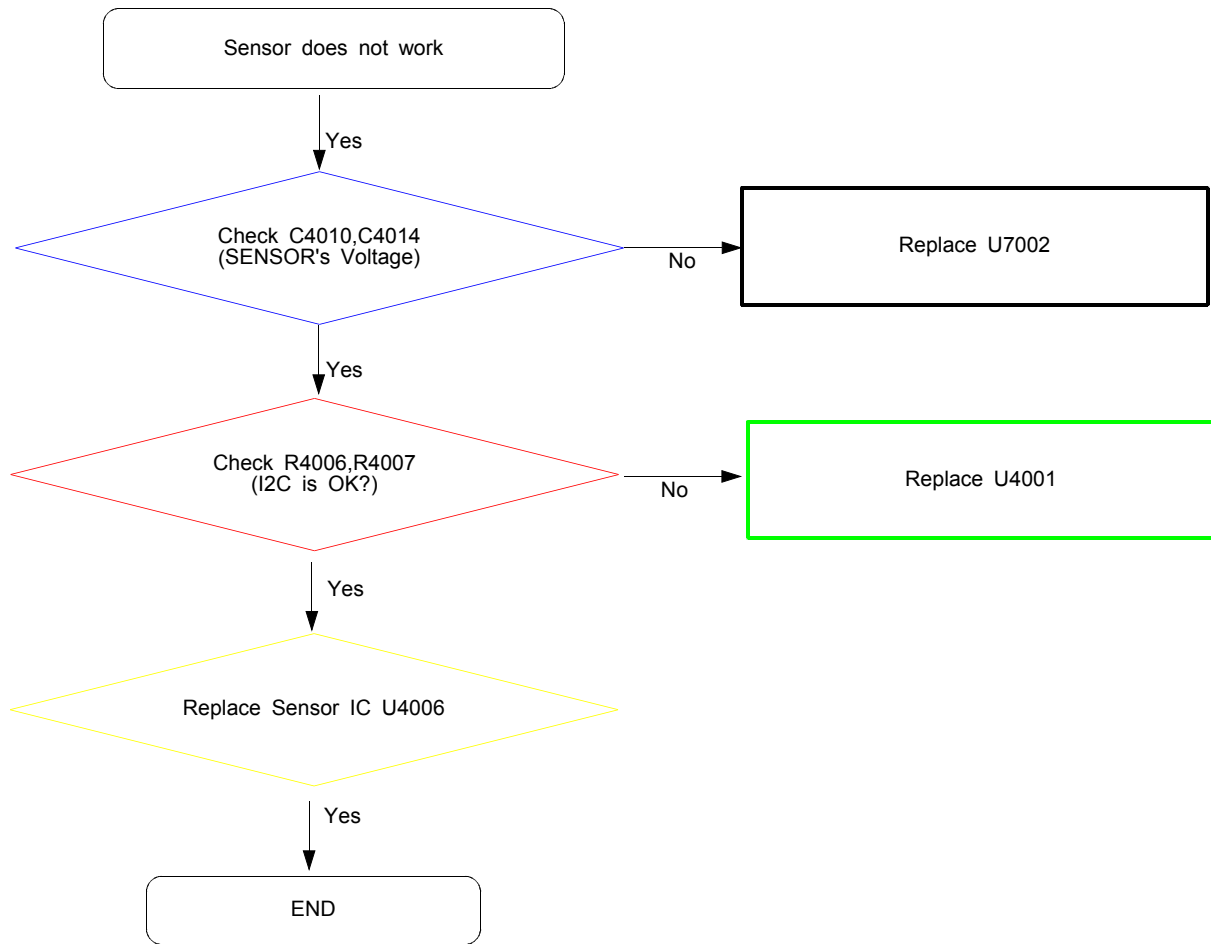
### 8-3-5. 6Axes Sensor





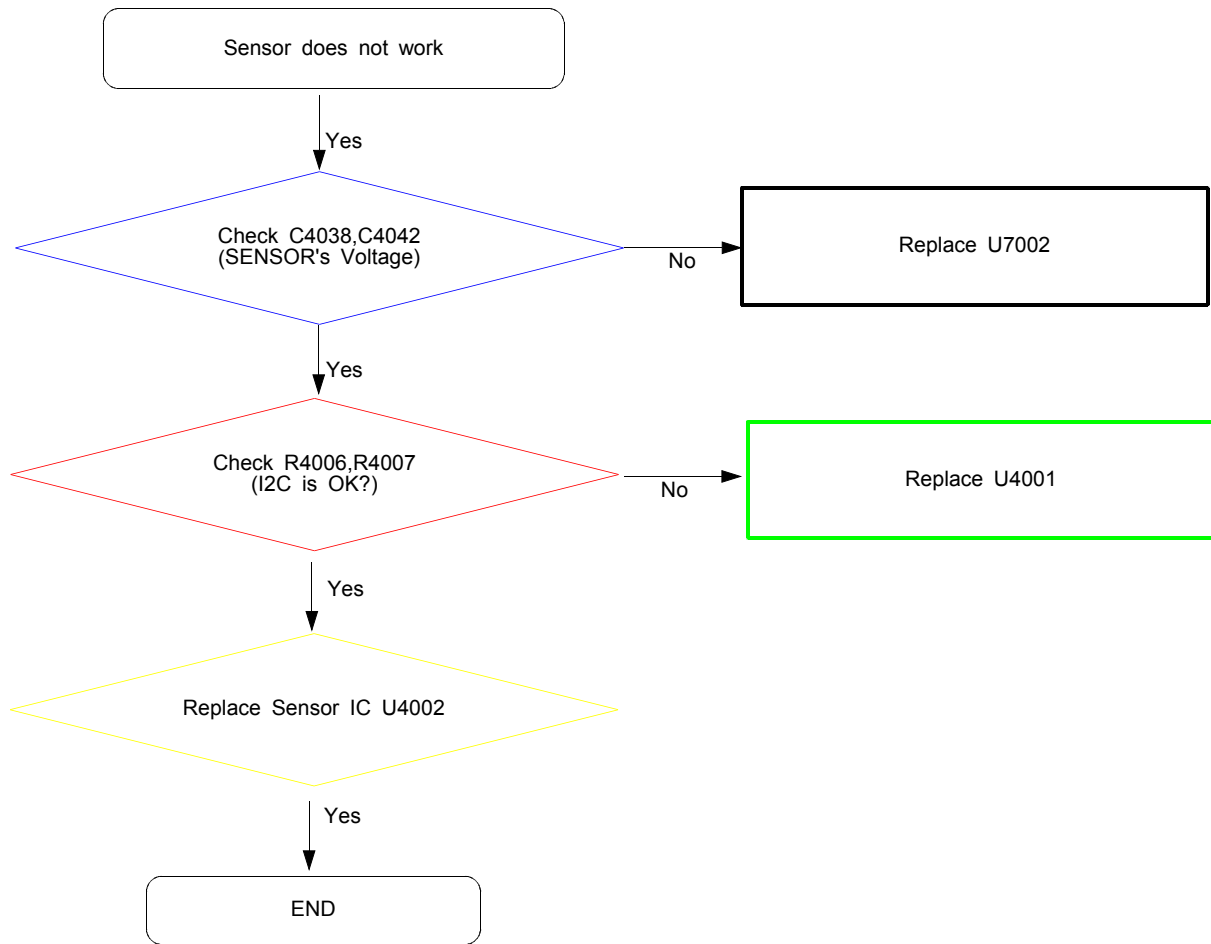


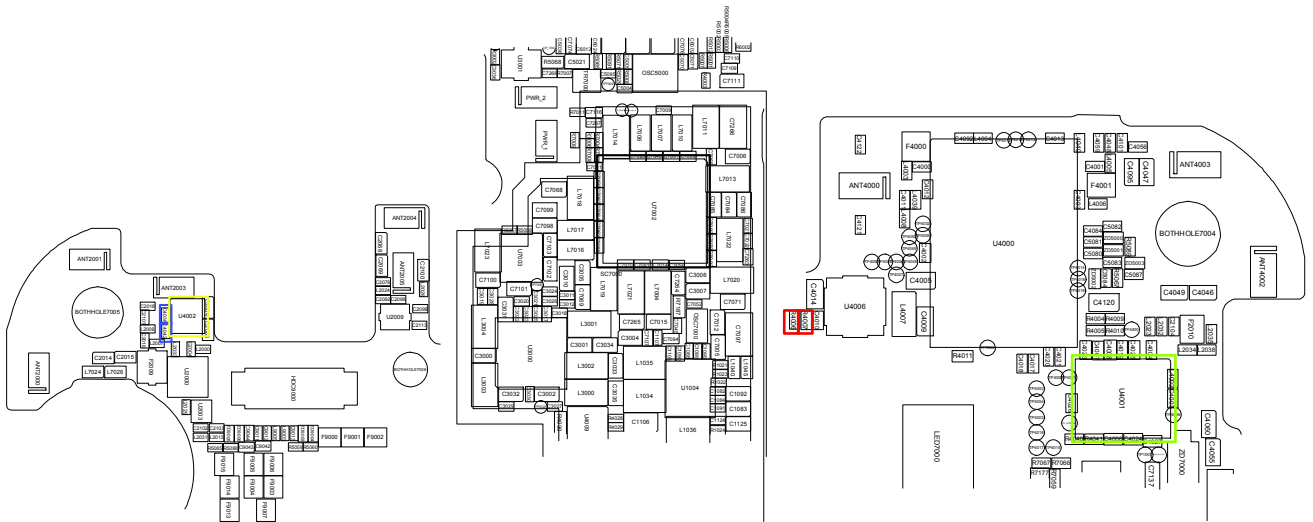
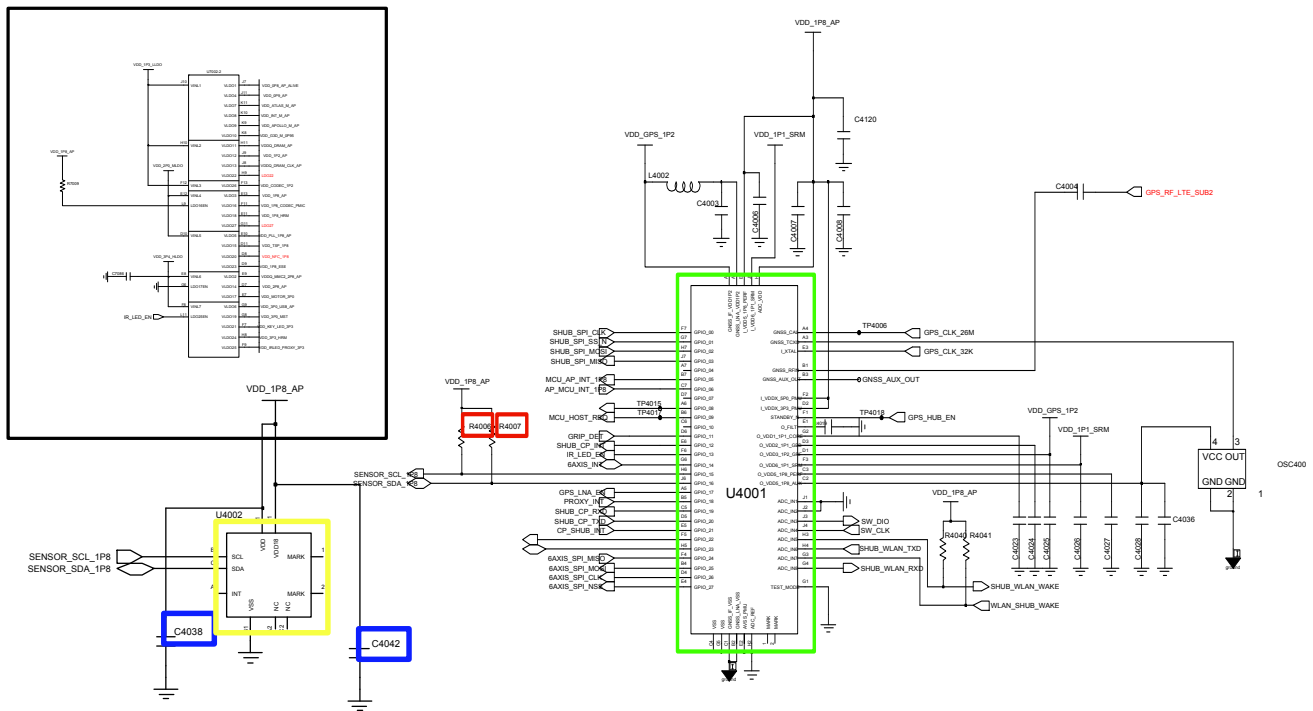
### 8-3-6. Barometer sensor



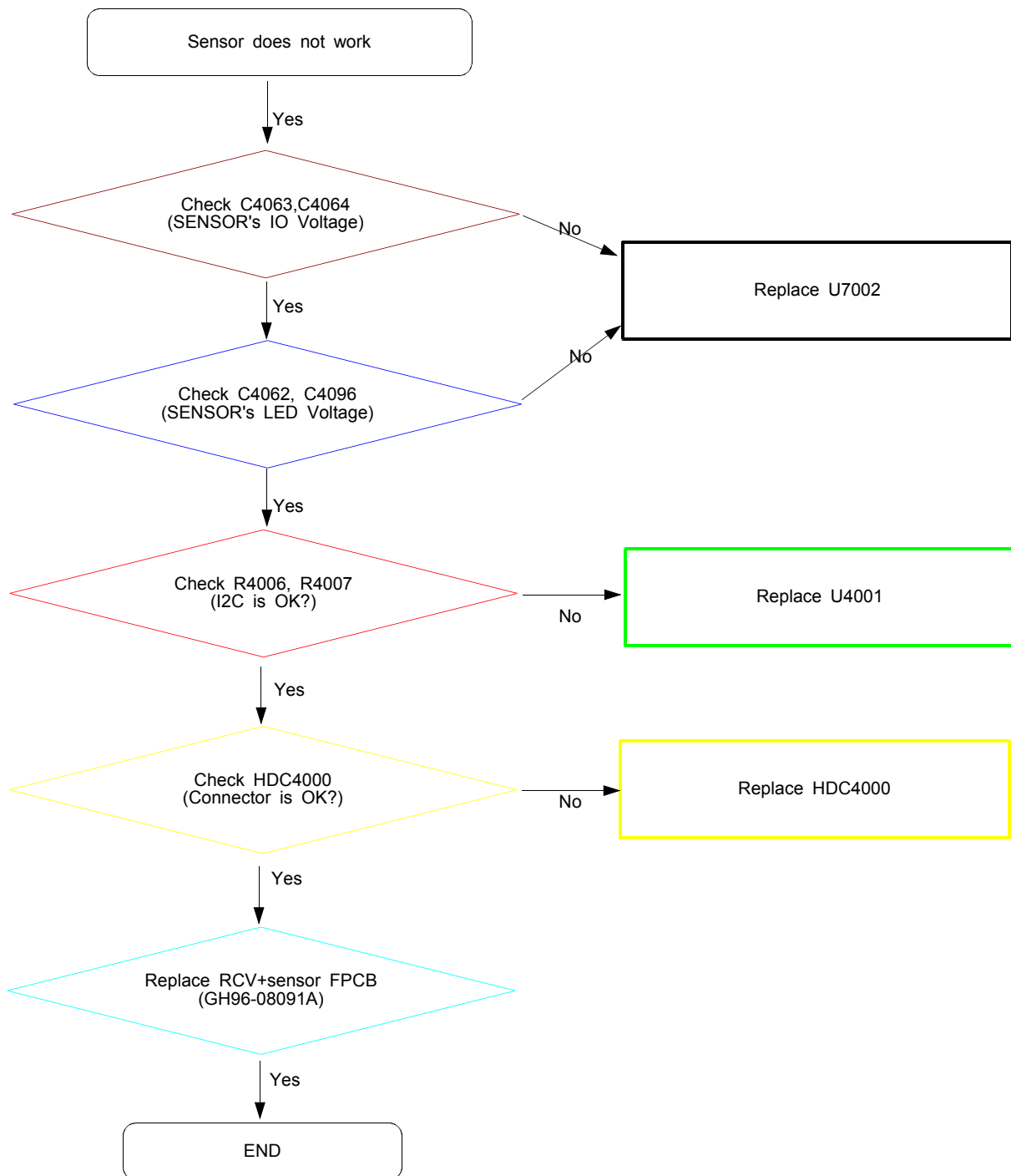


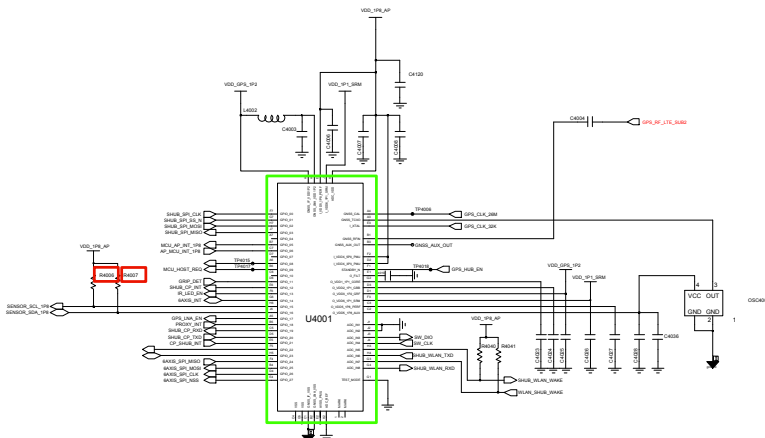
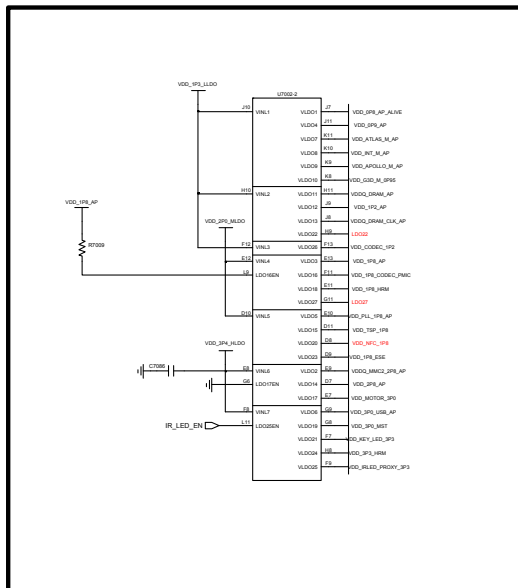
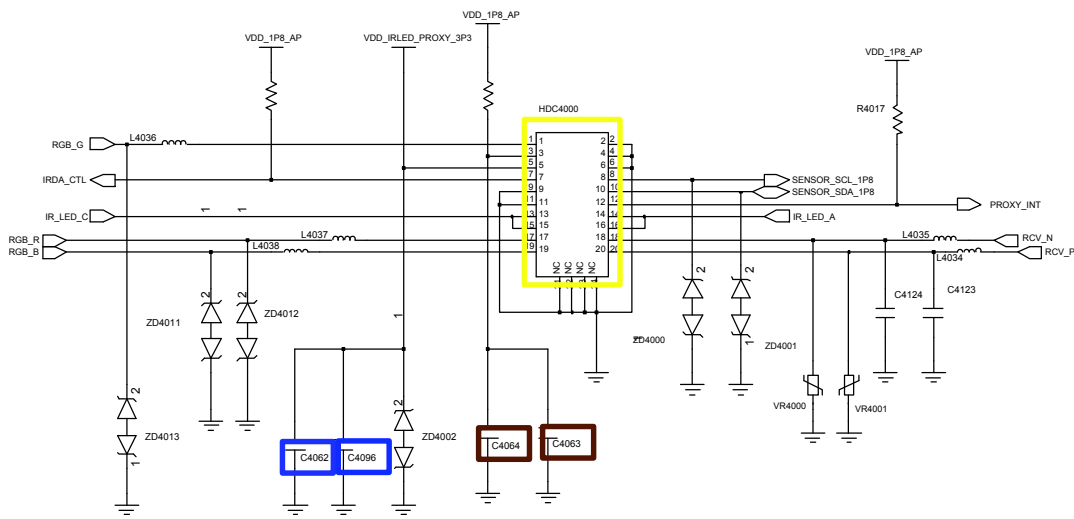
### 8-3-7. magnetic sensor

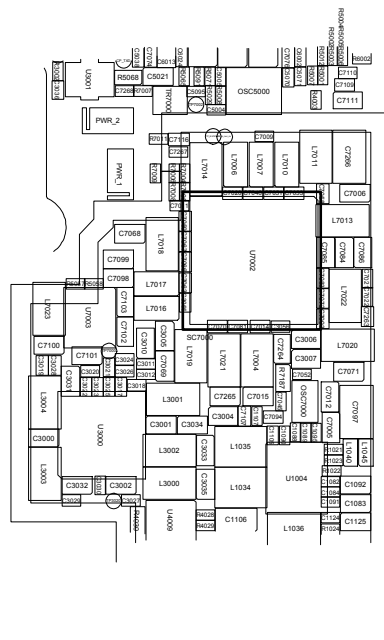
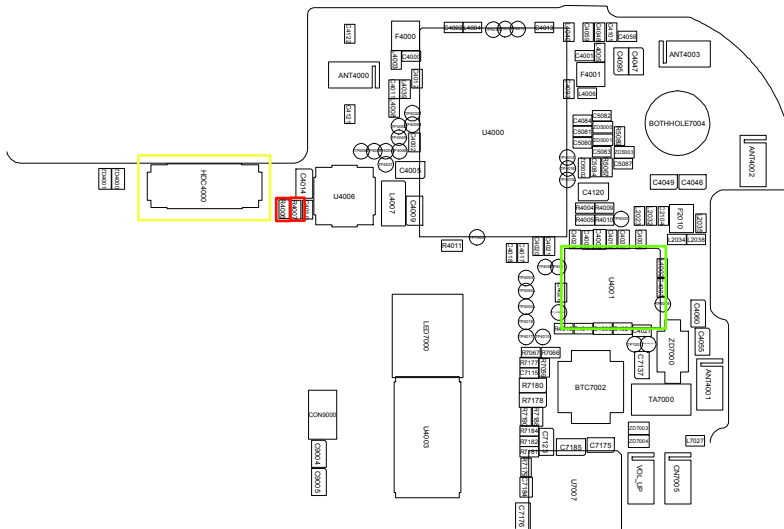
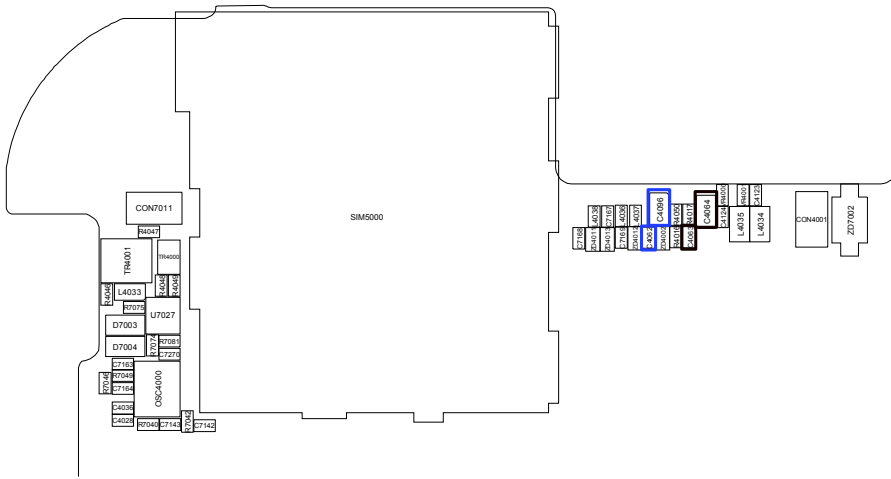




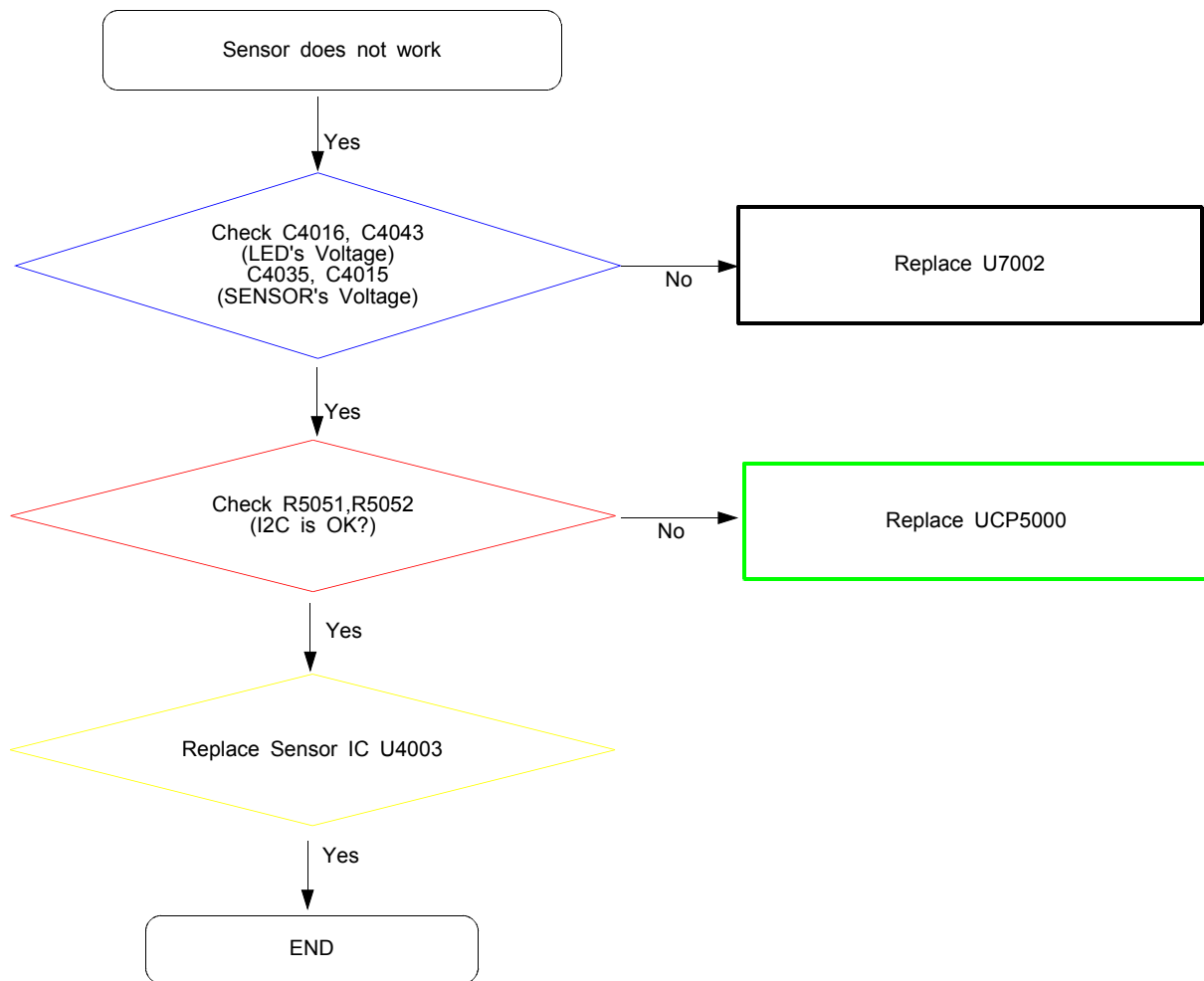
### 8-3-8. Proximity+RGB sensor



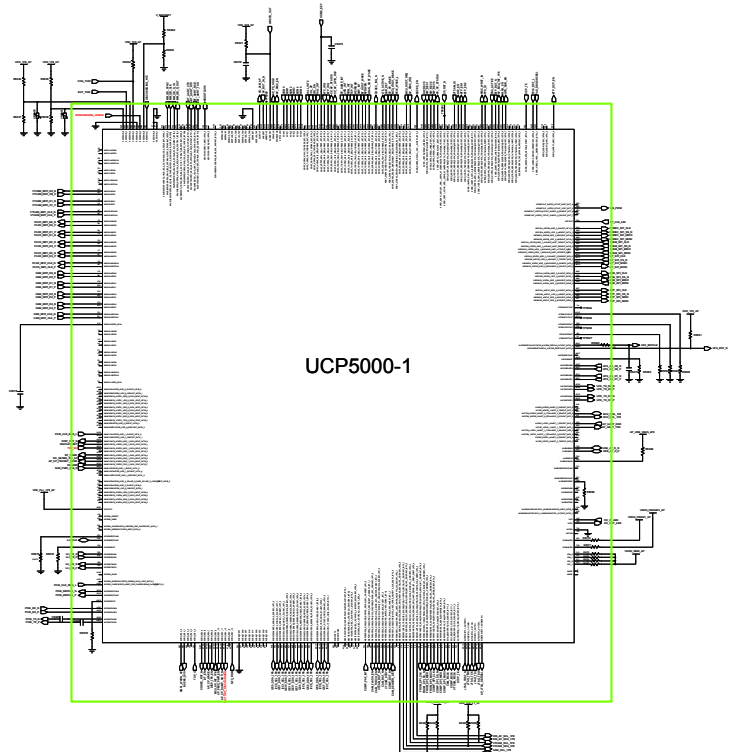
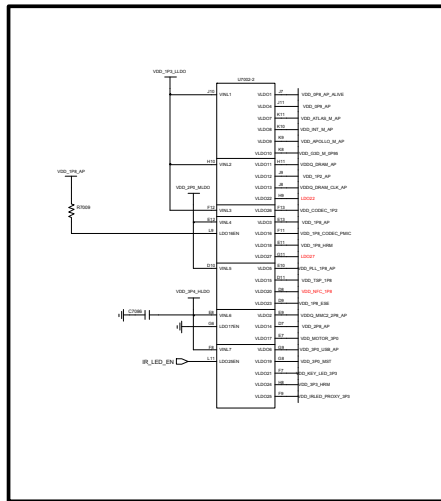
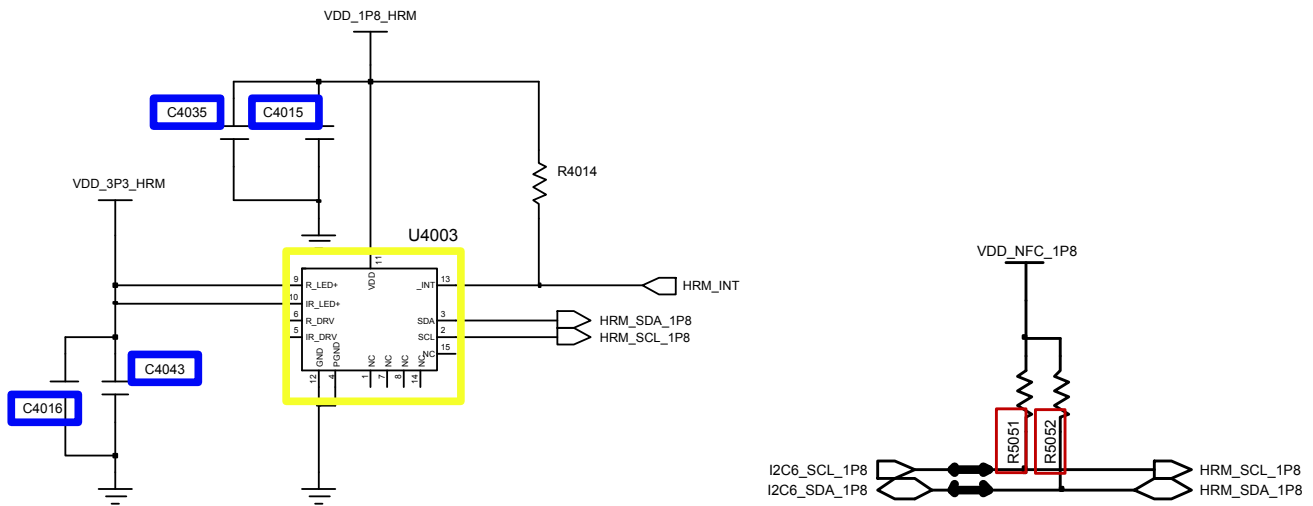


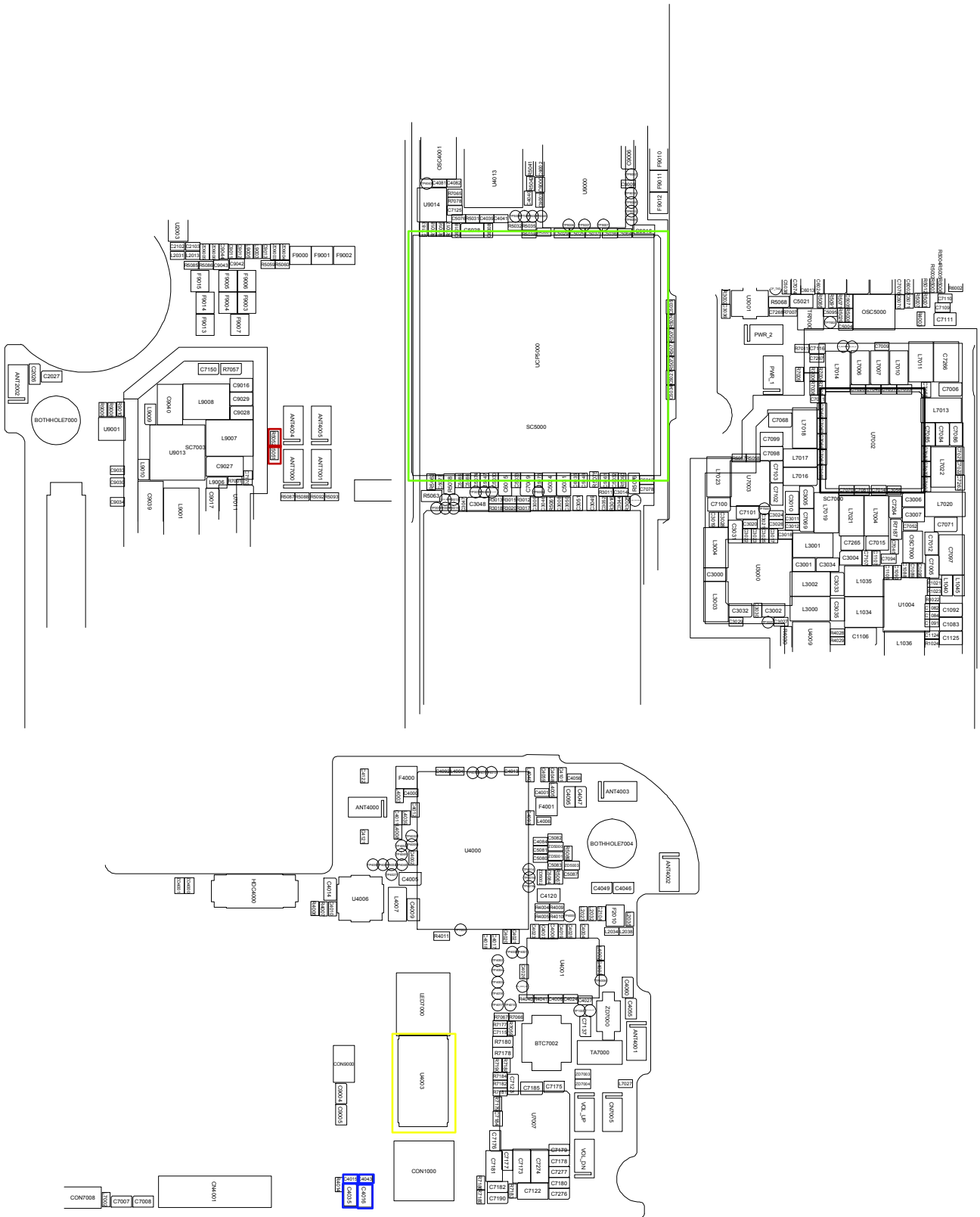


8-3-9. HRM Sensor

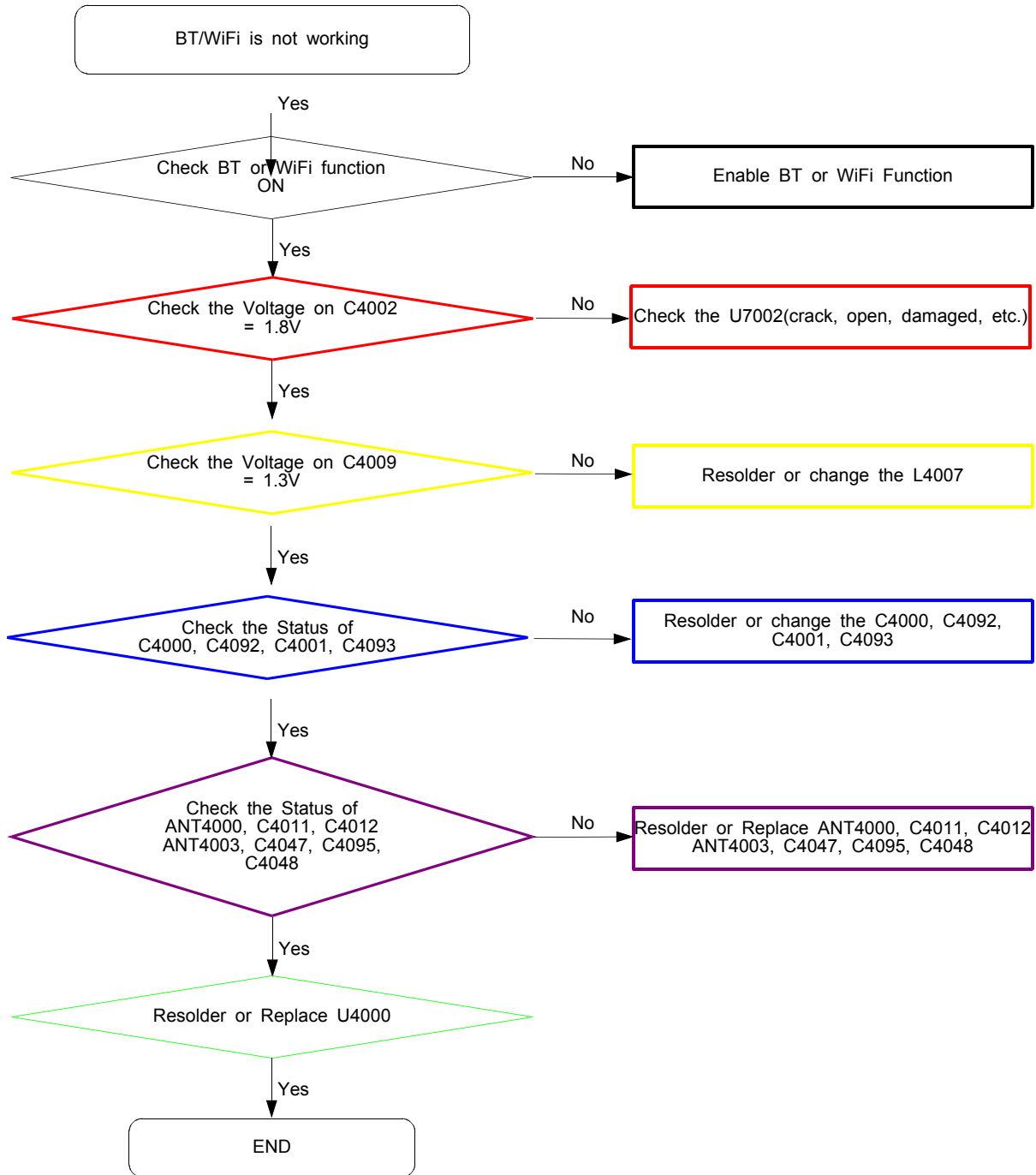


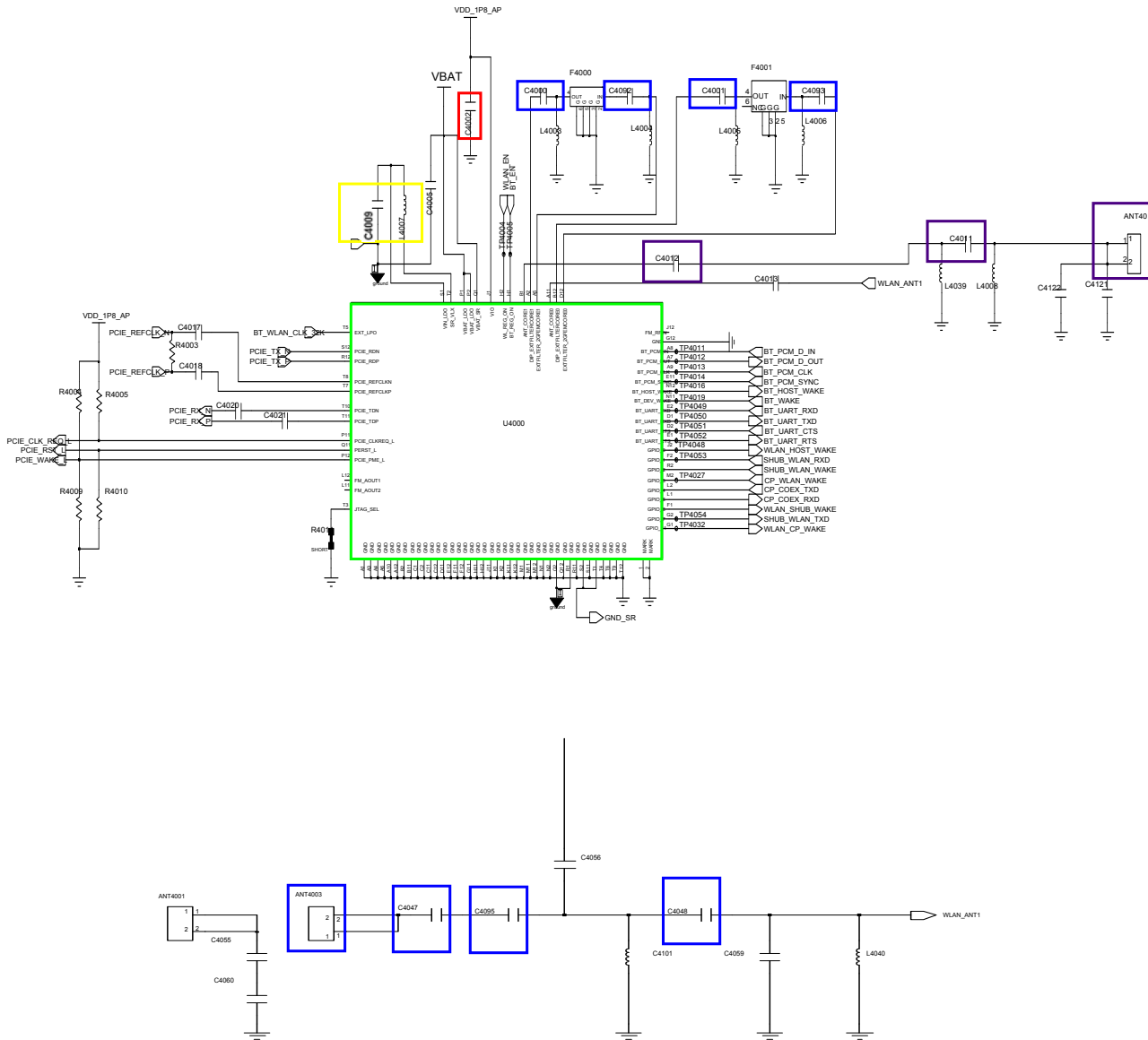






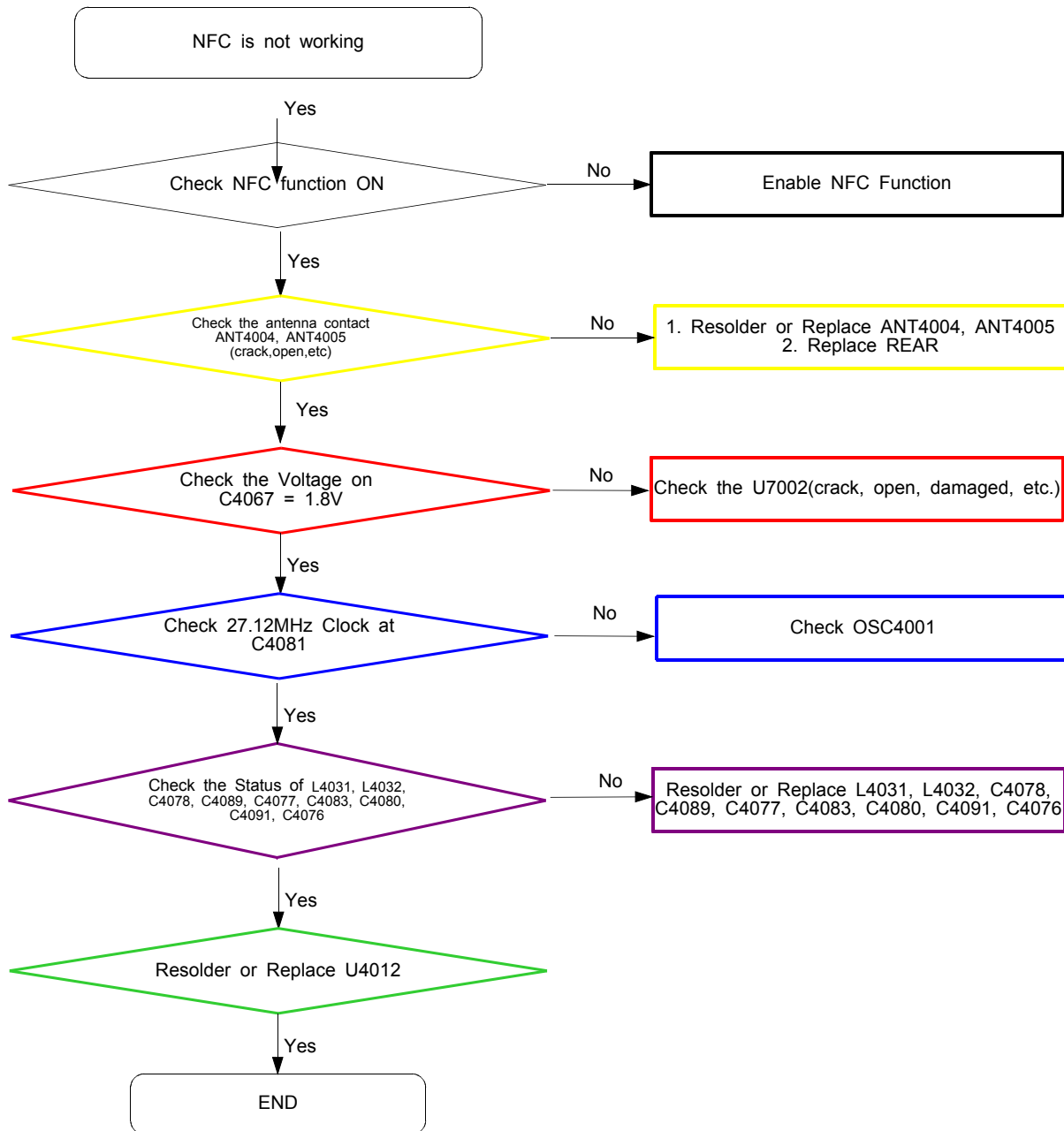
8-3-10. BT/WIFI

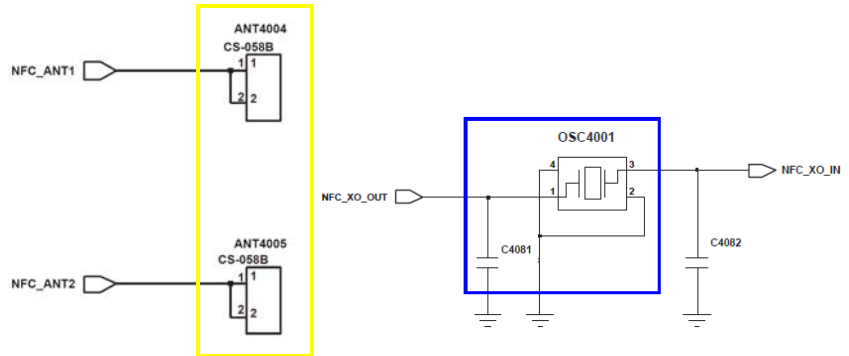
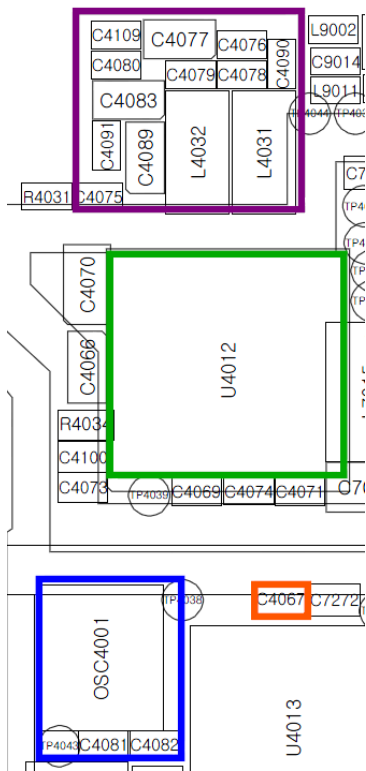
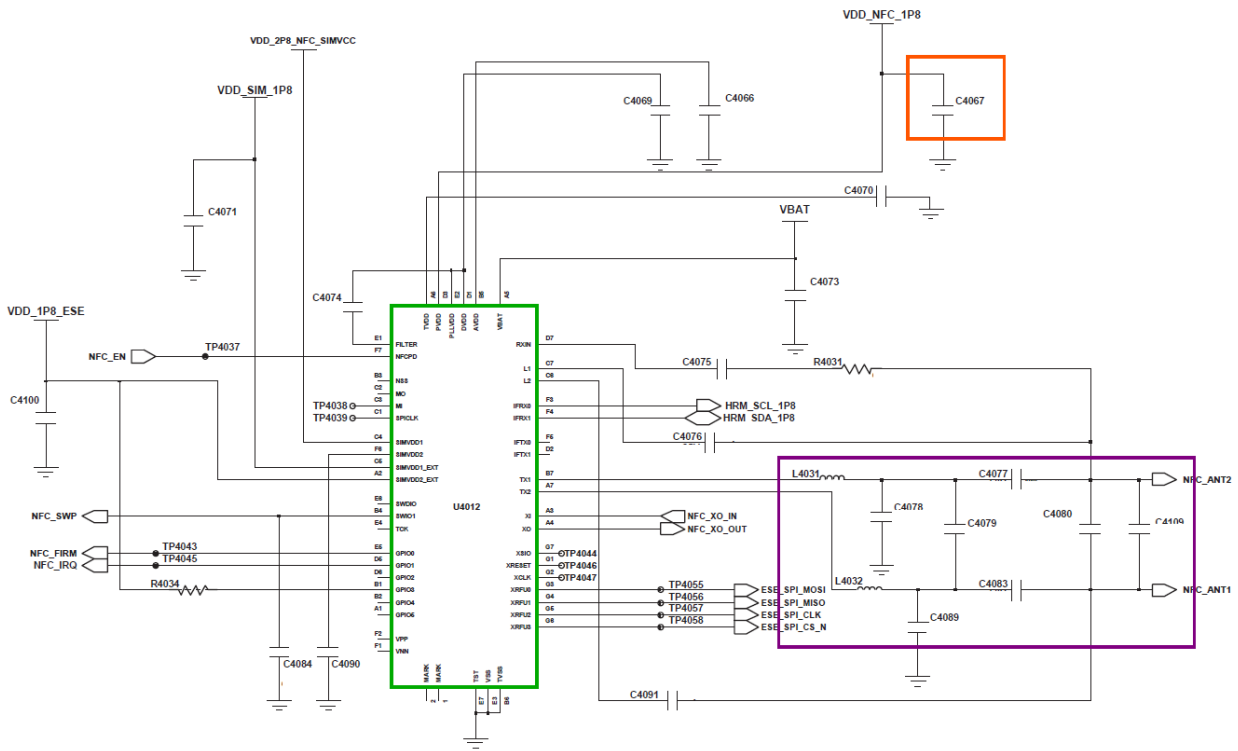




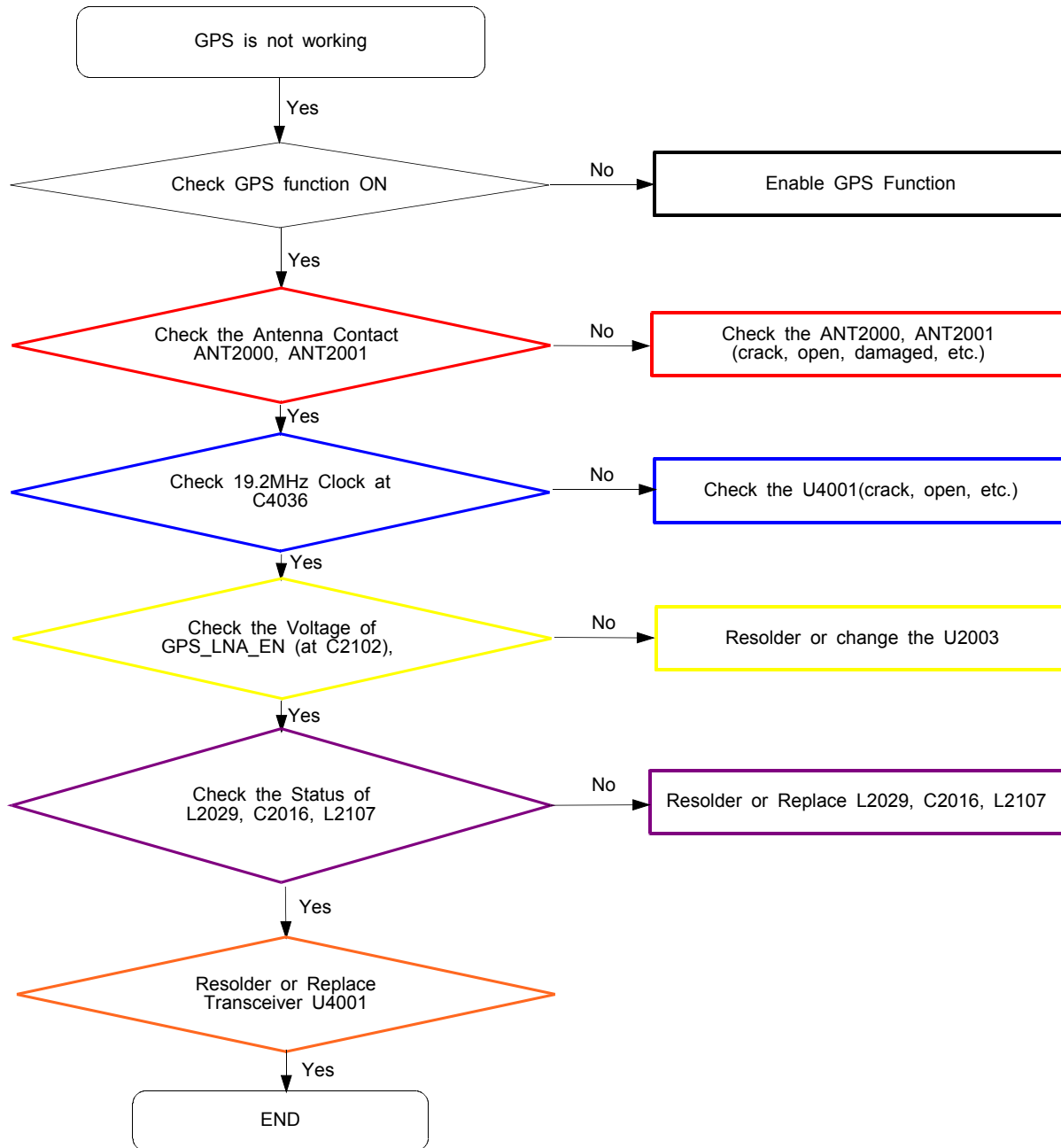


8-3-11. NFC

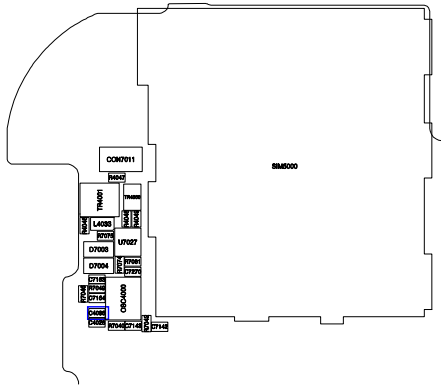
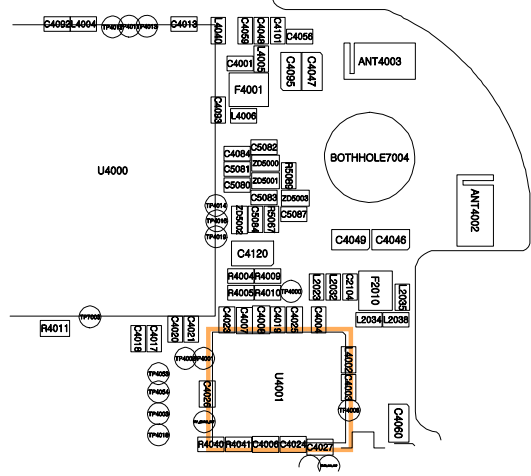
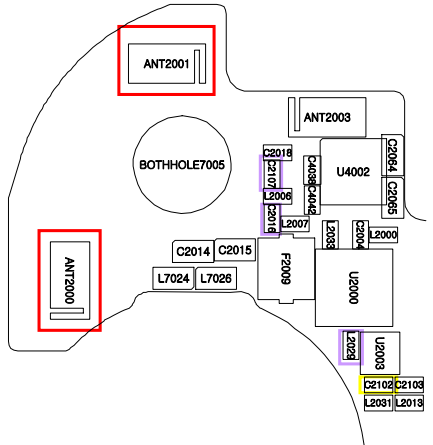
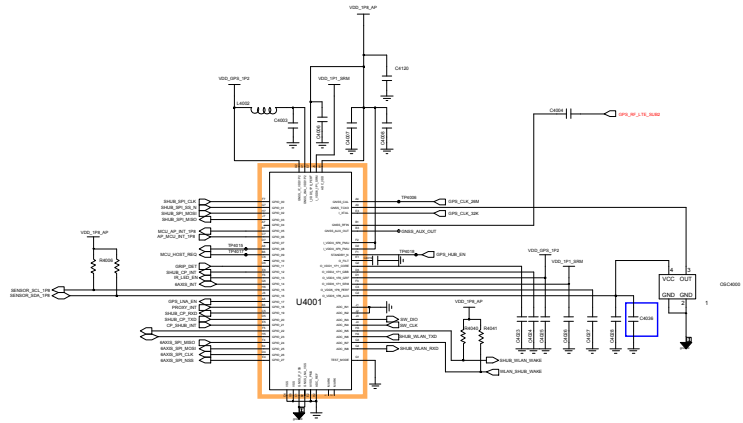
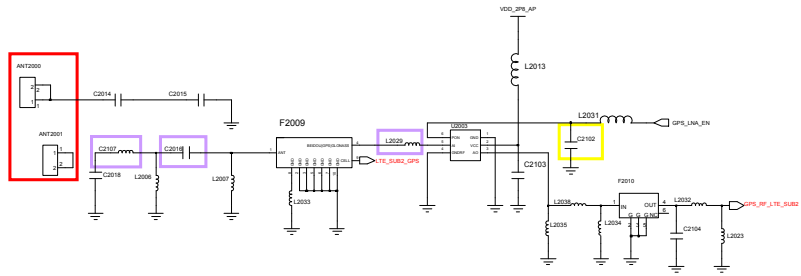




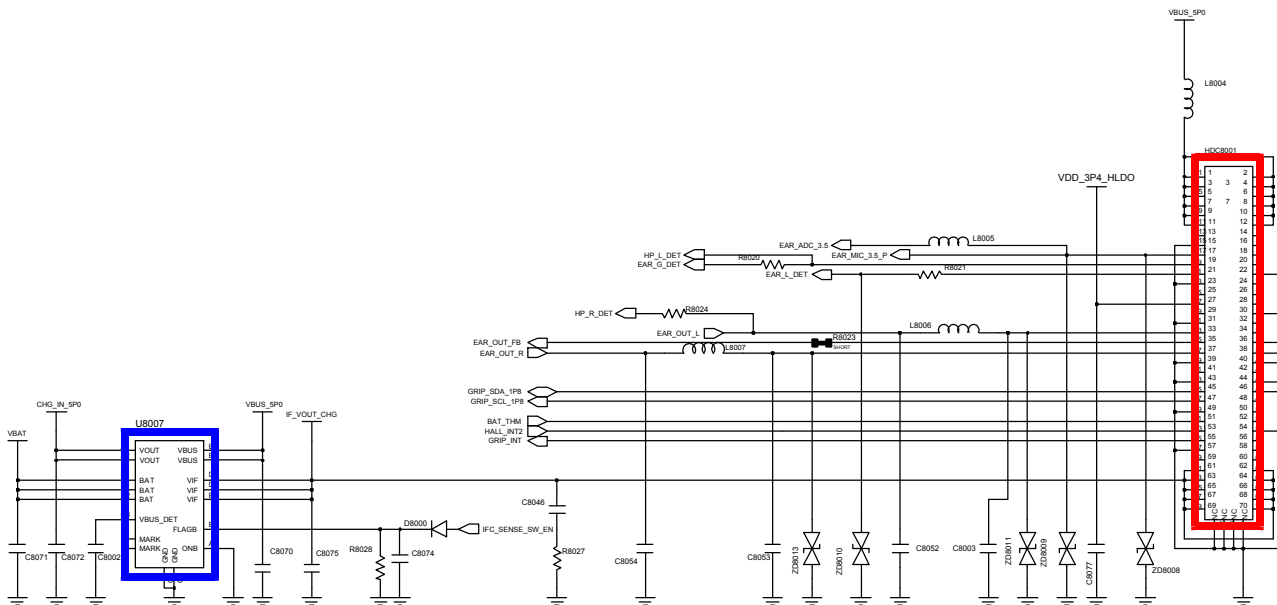
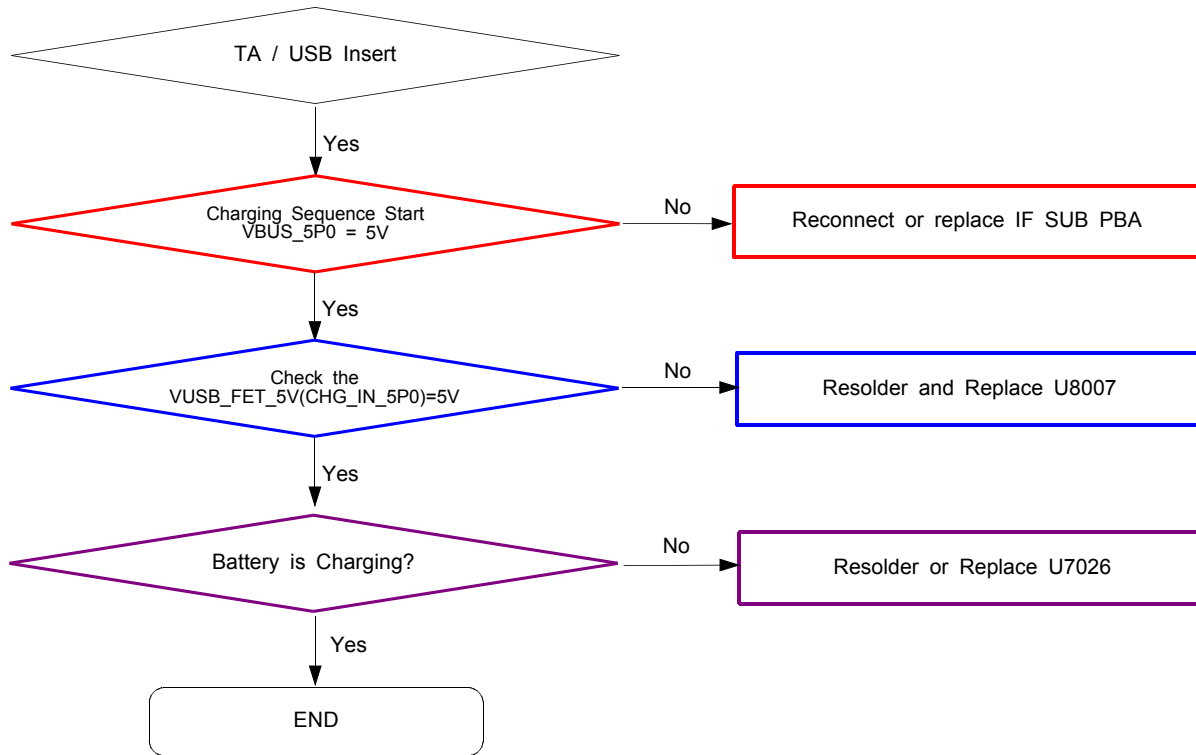
8-3-12. GPS Part

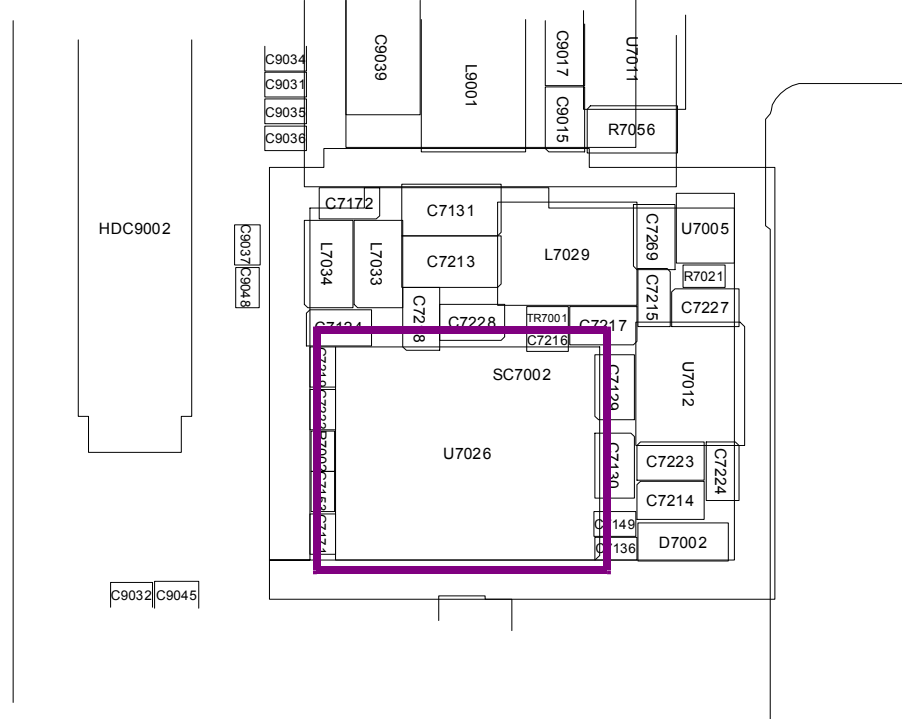
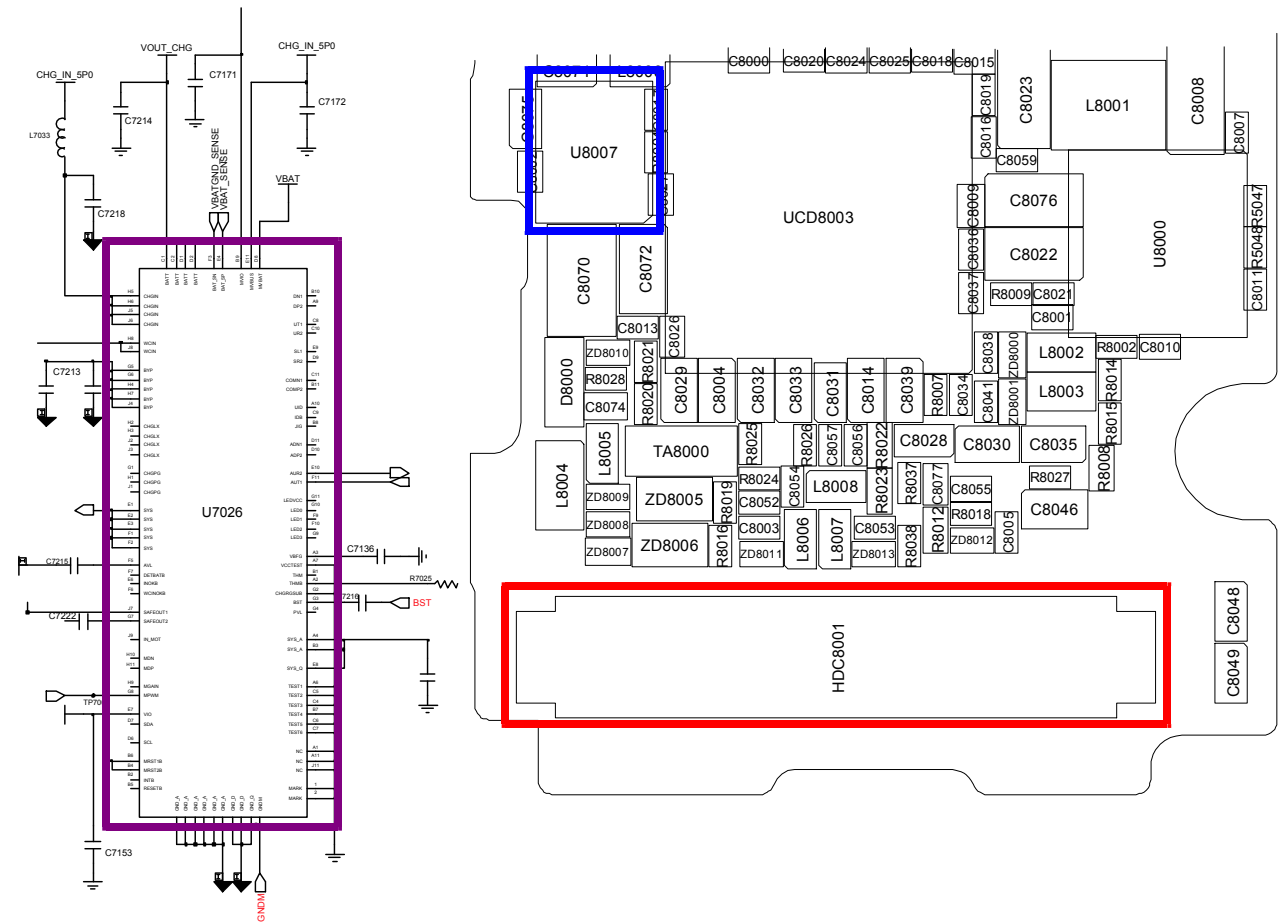




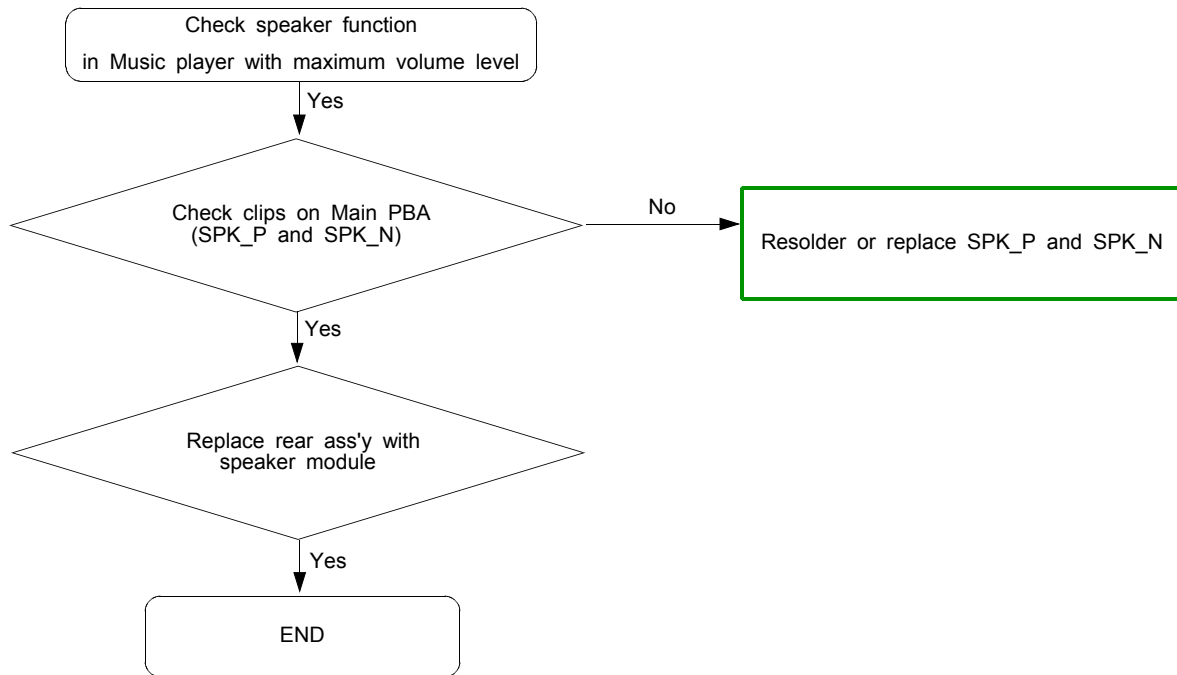


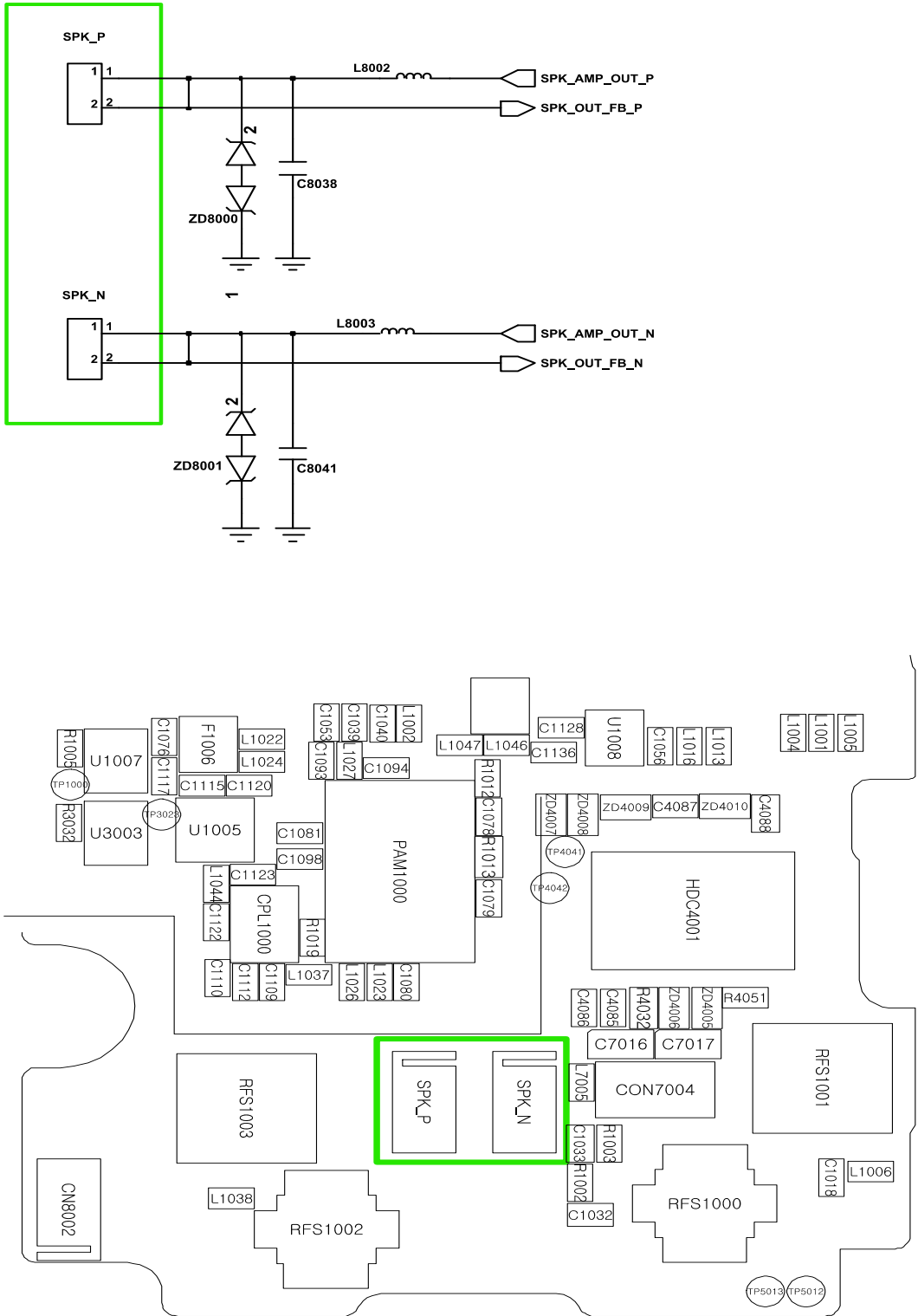
8-3-13. Charging Part



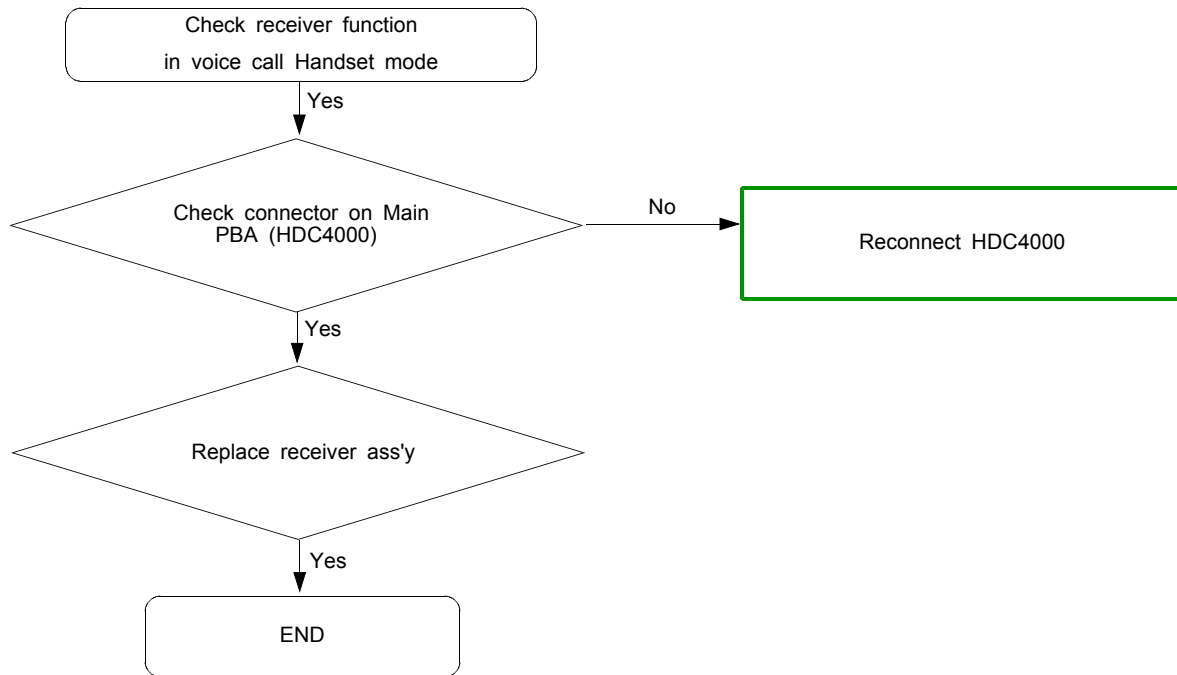


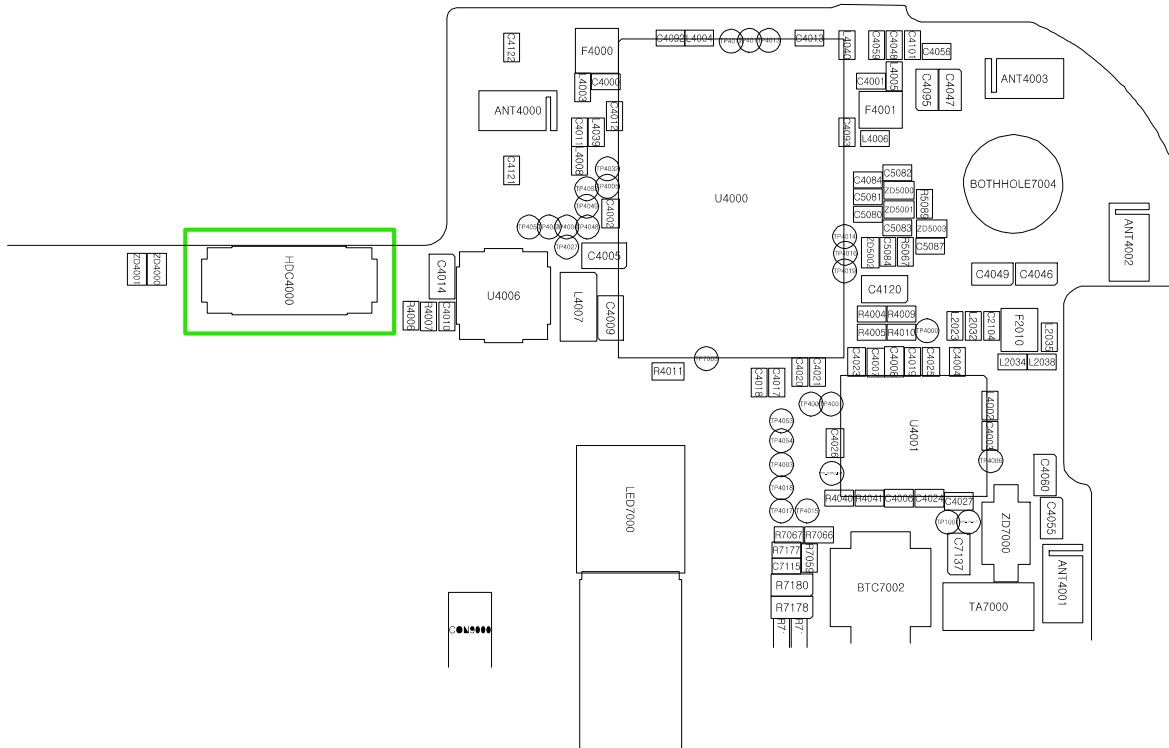
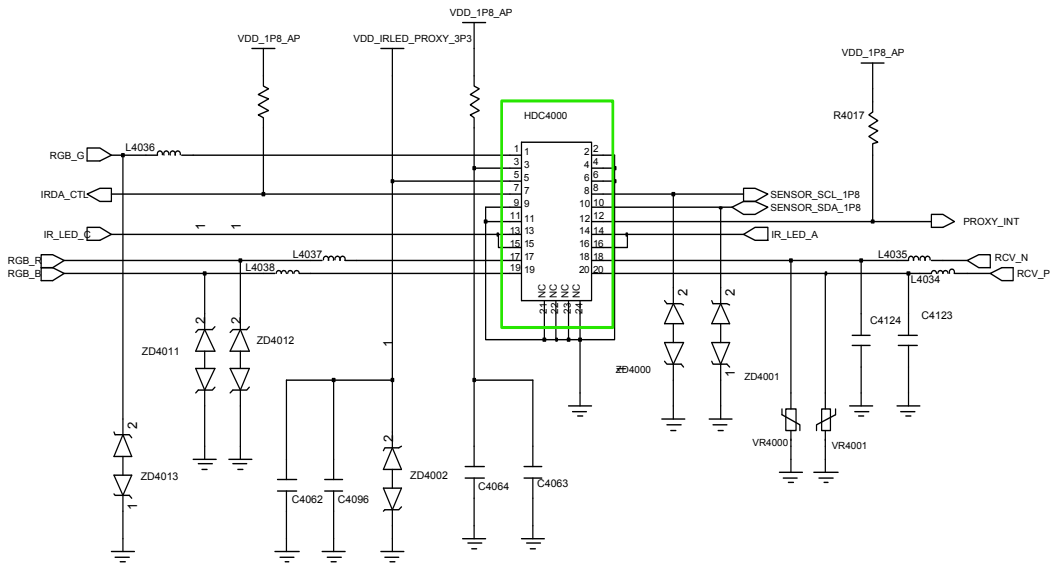
## 8-3-14. Speaker Part



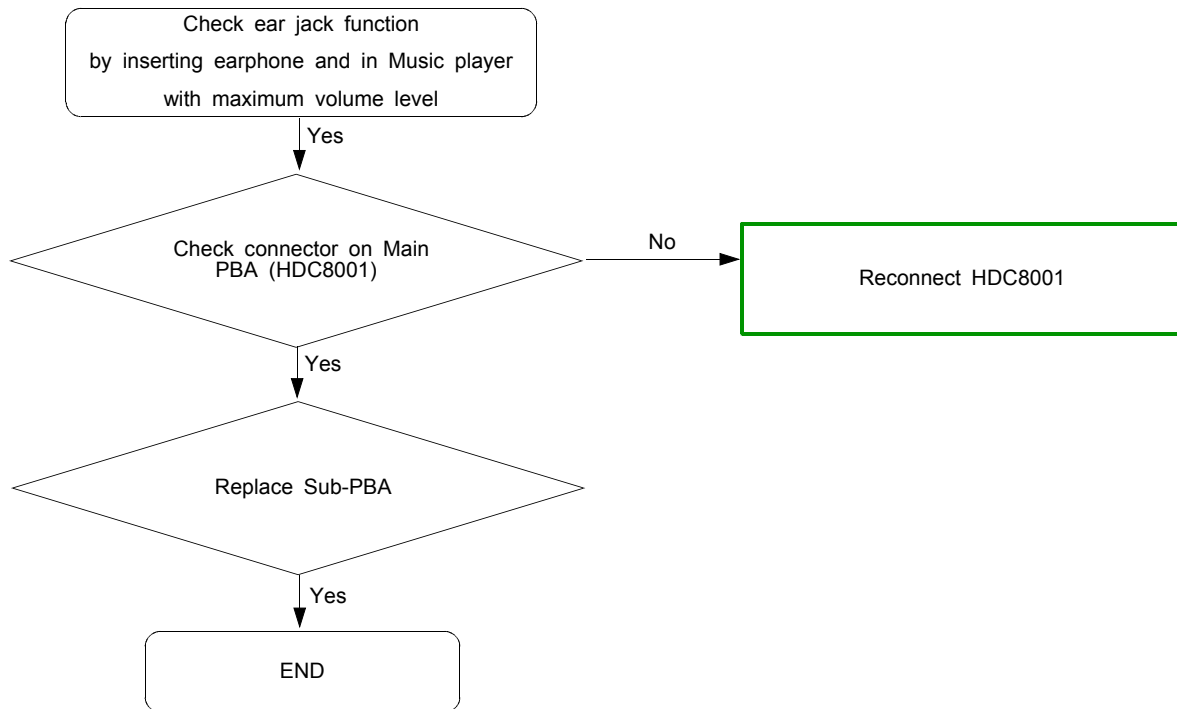


## 8-3-15. Receiver Part

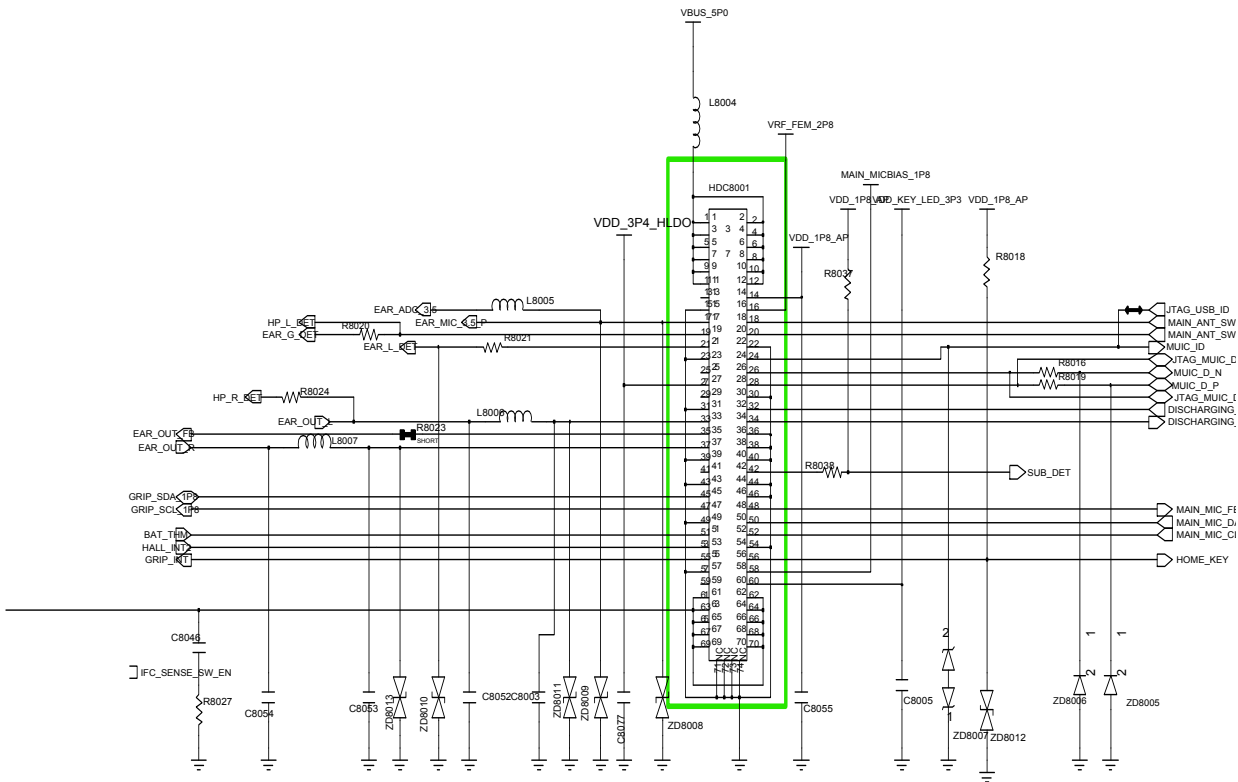




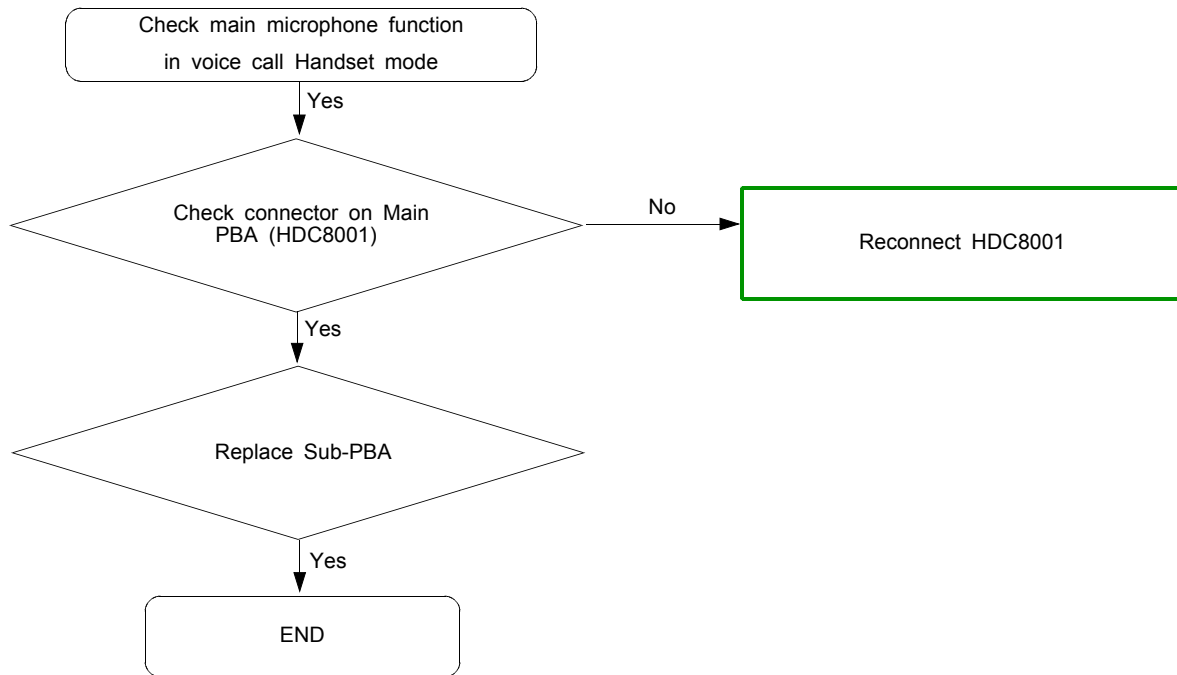
## 8-3-16. Ear Jack

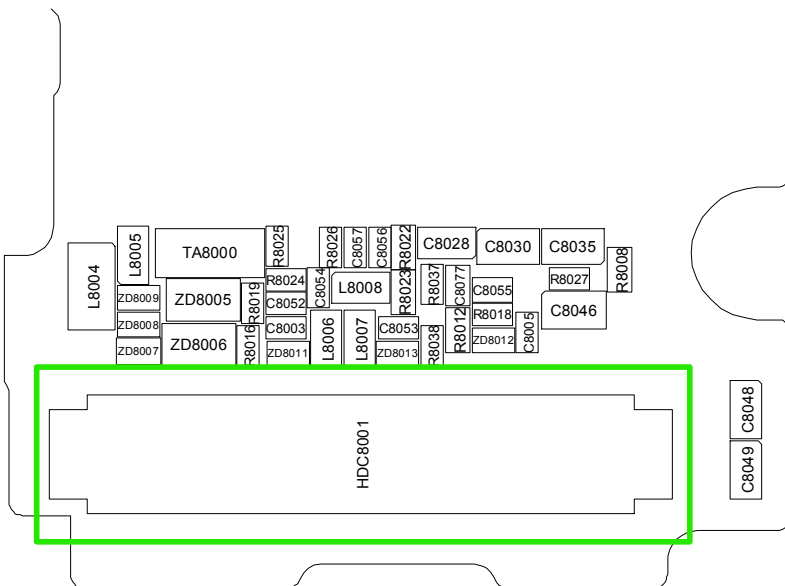
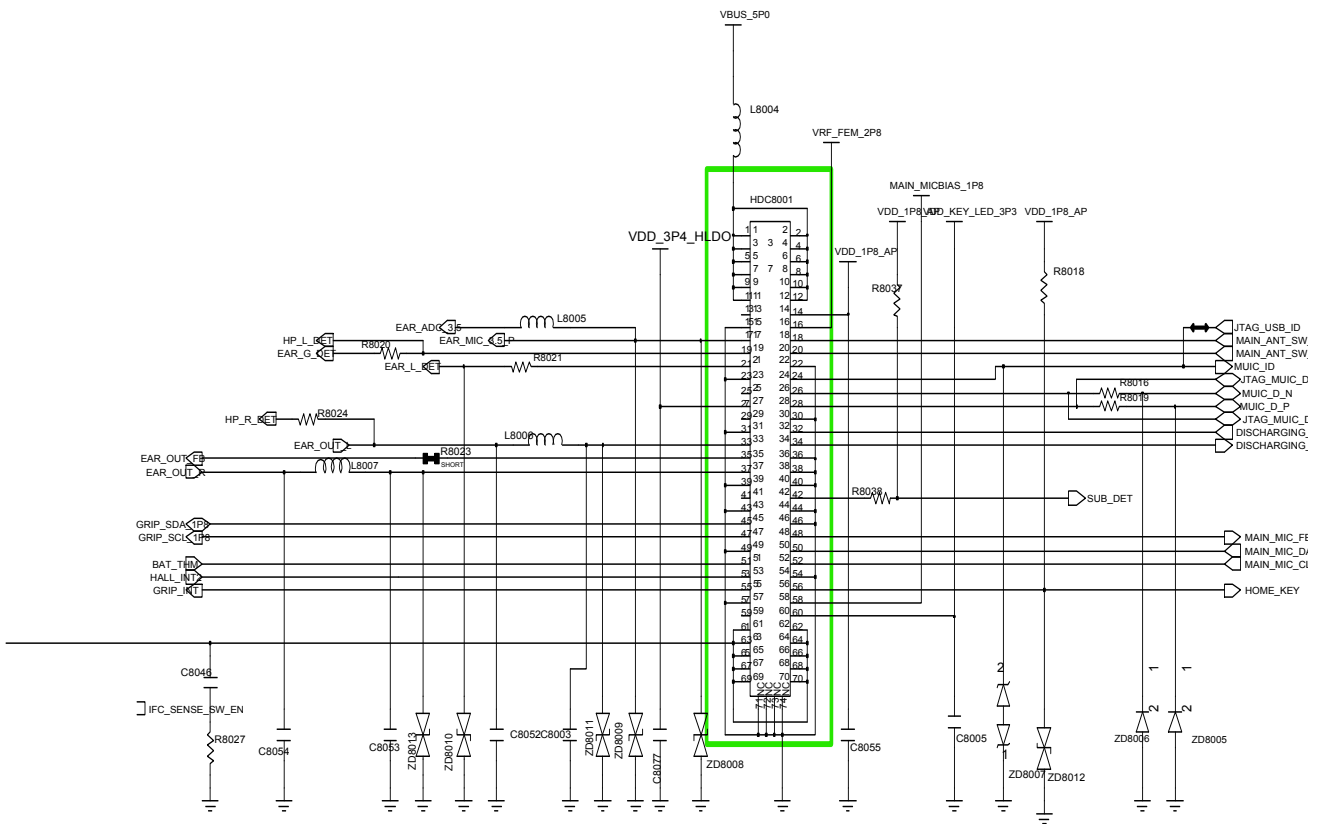




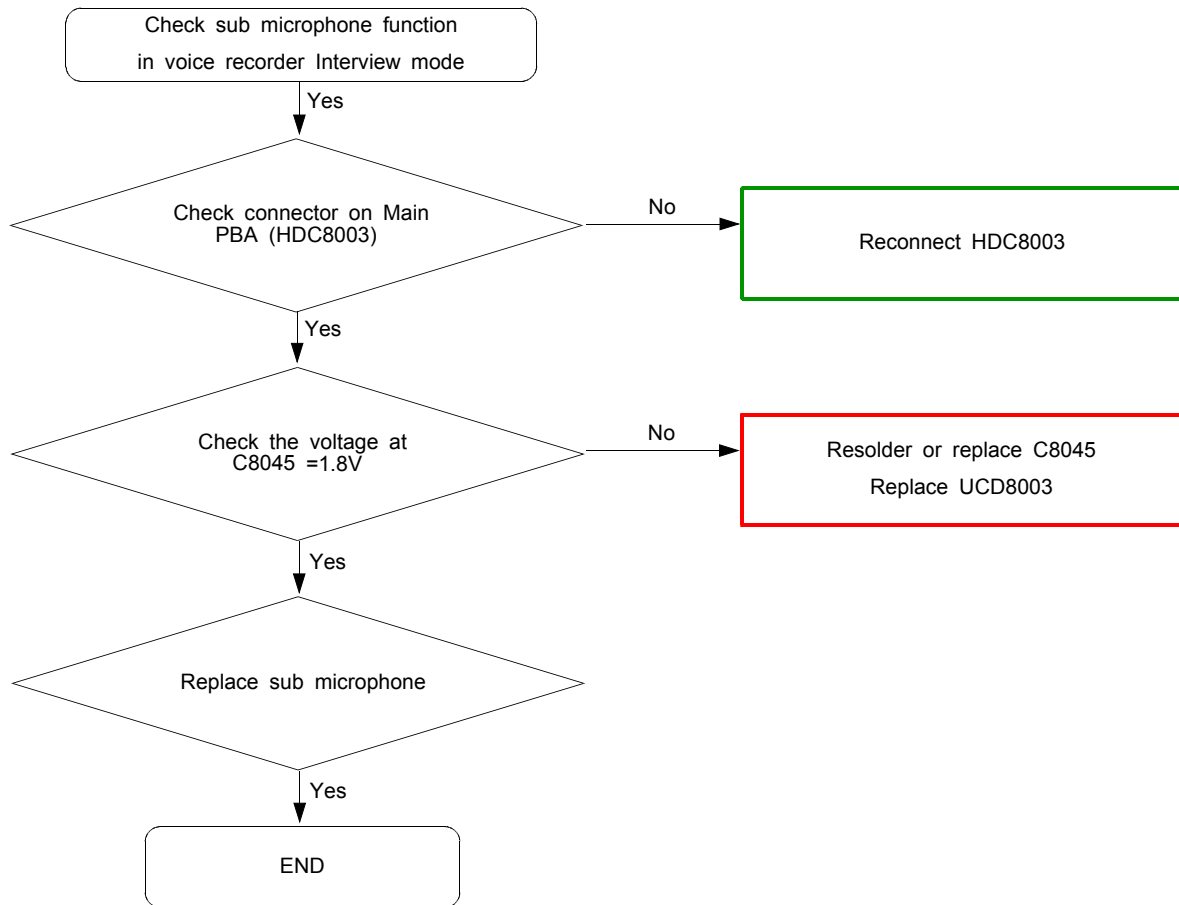


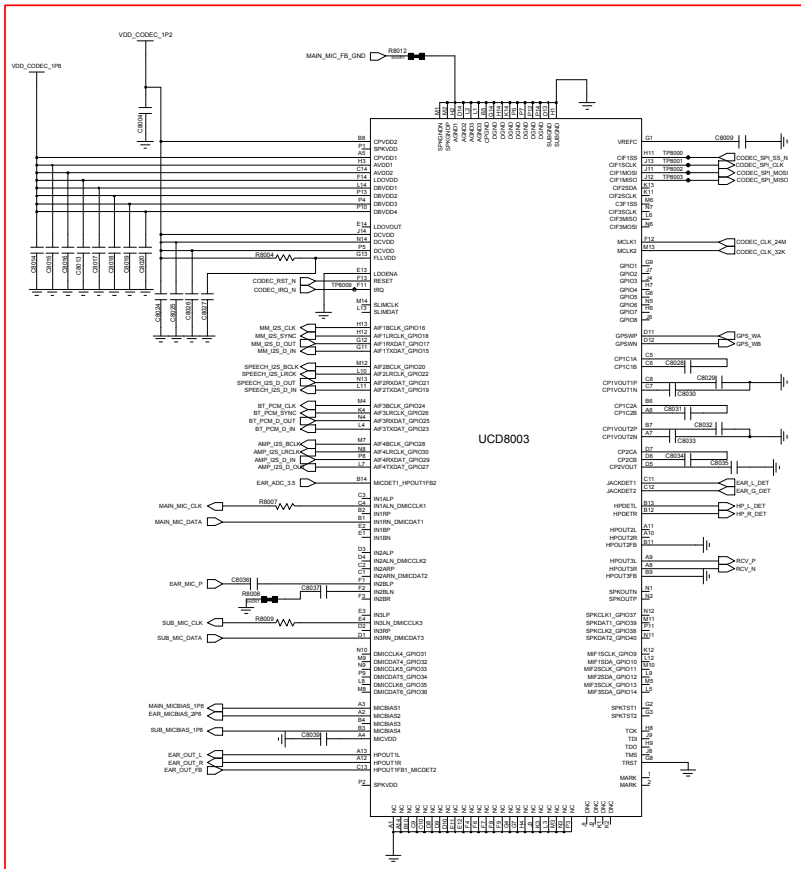
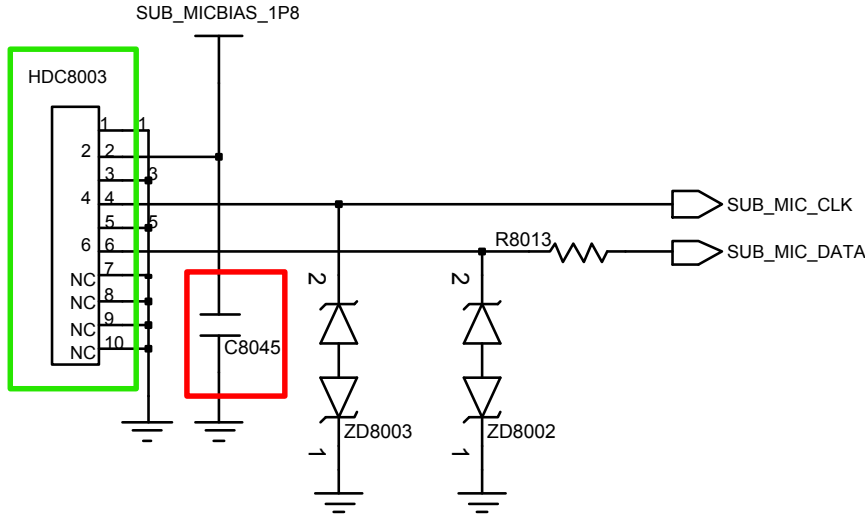
## 8-3-17. Microphone Part - Main MIC

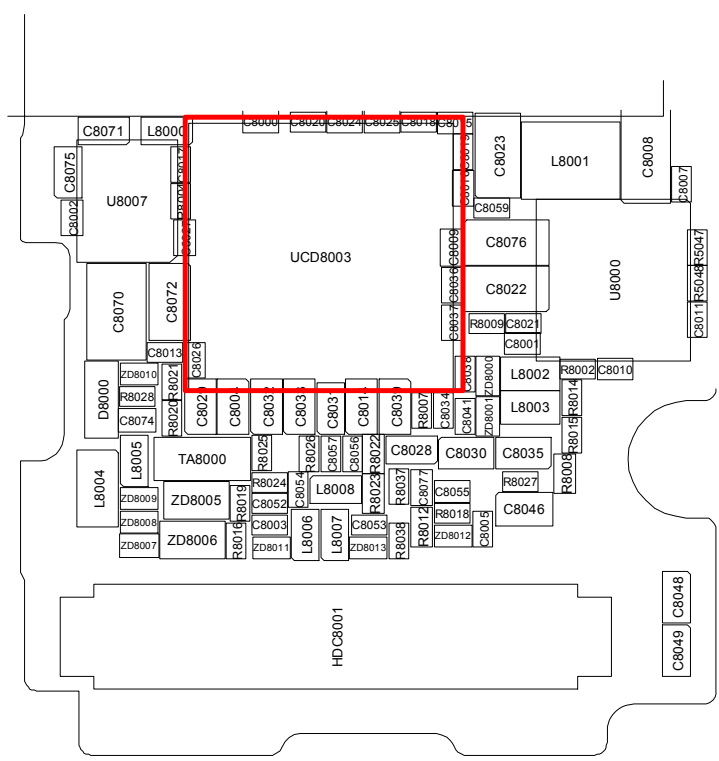
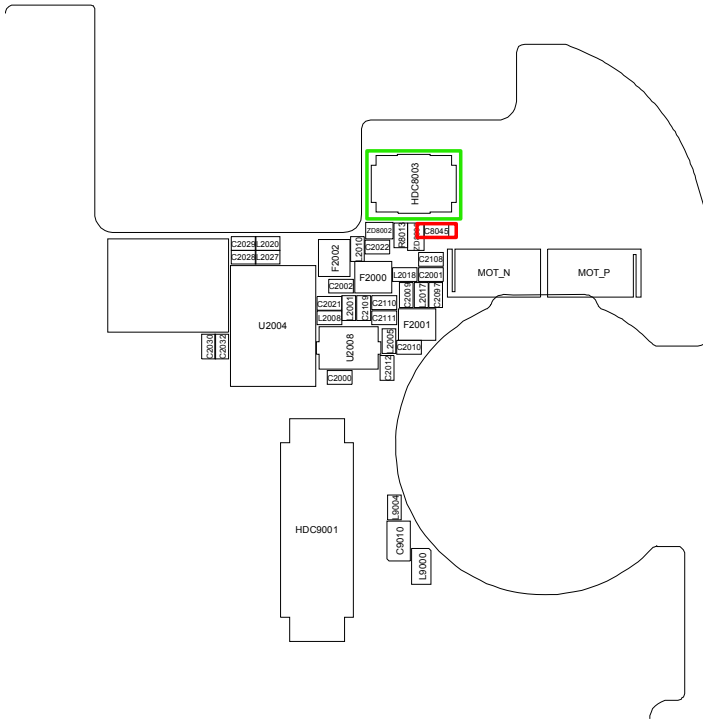




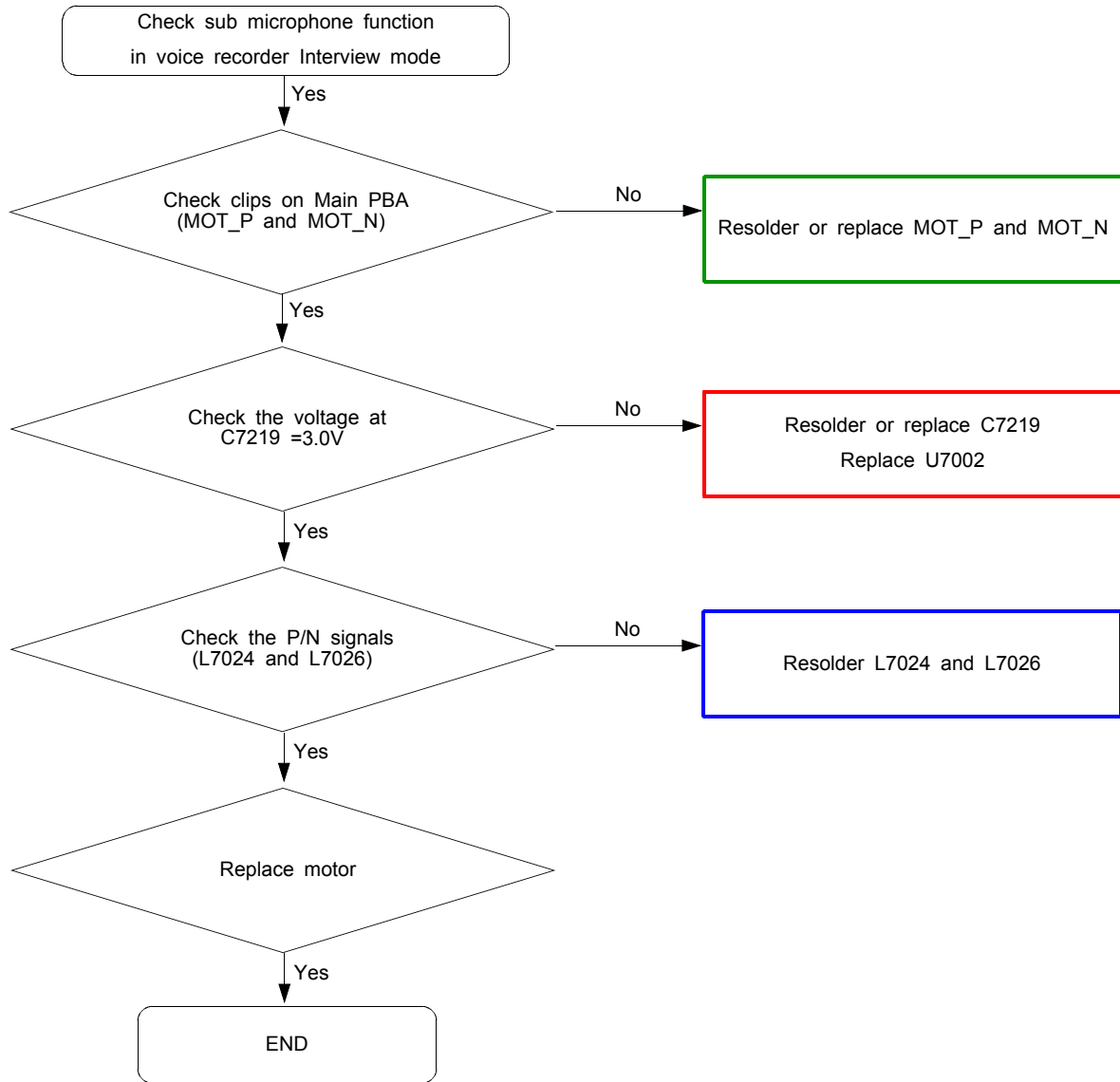
8-3-18. Microphone Part - Sub MIC

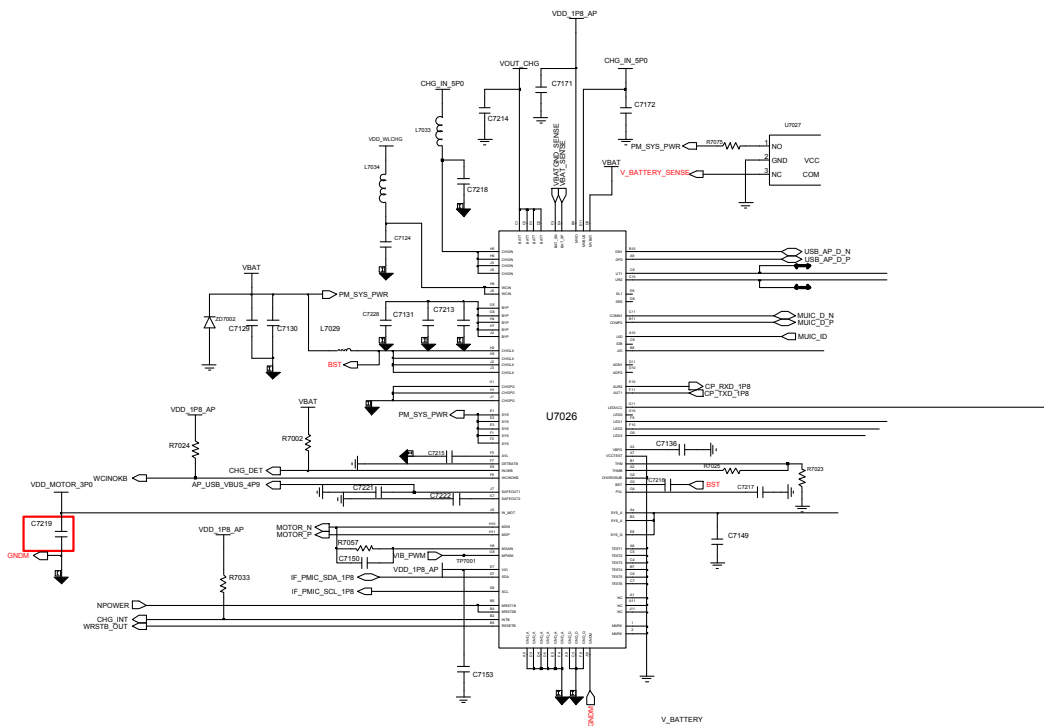
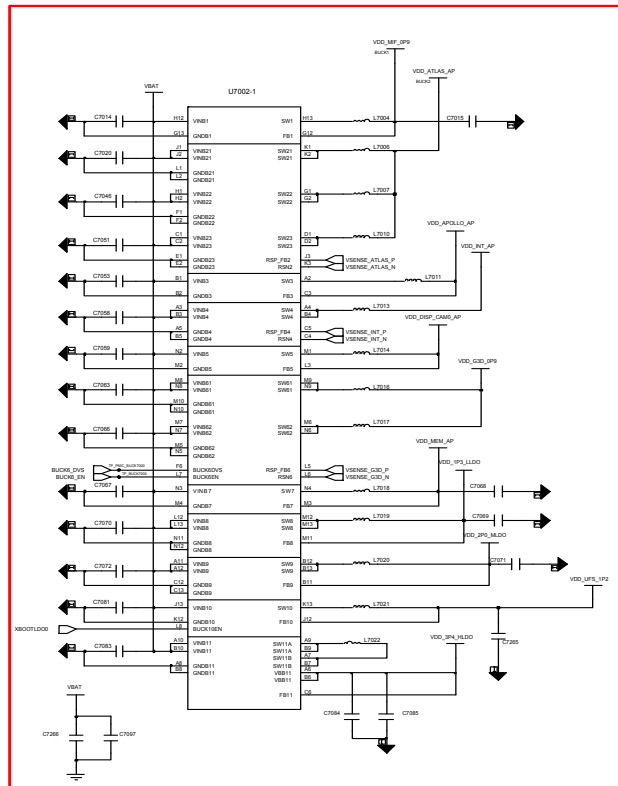
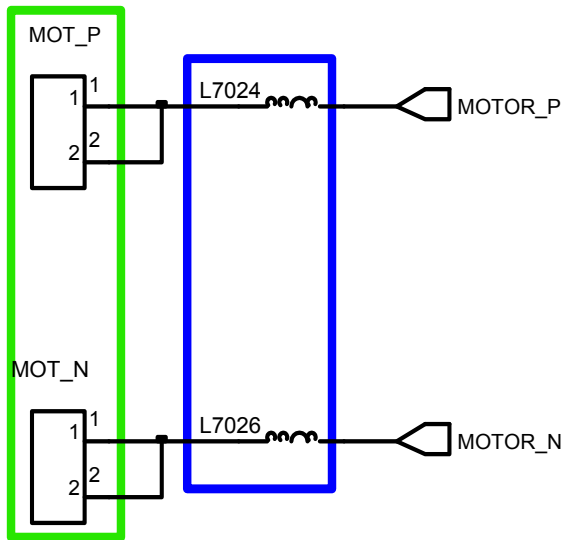






8-3-19. Motor

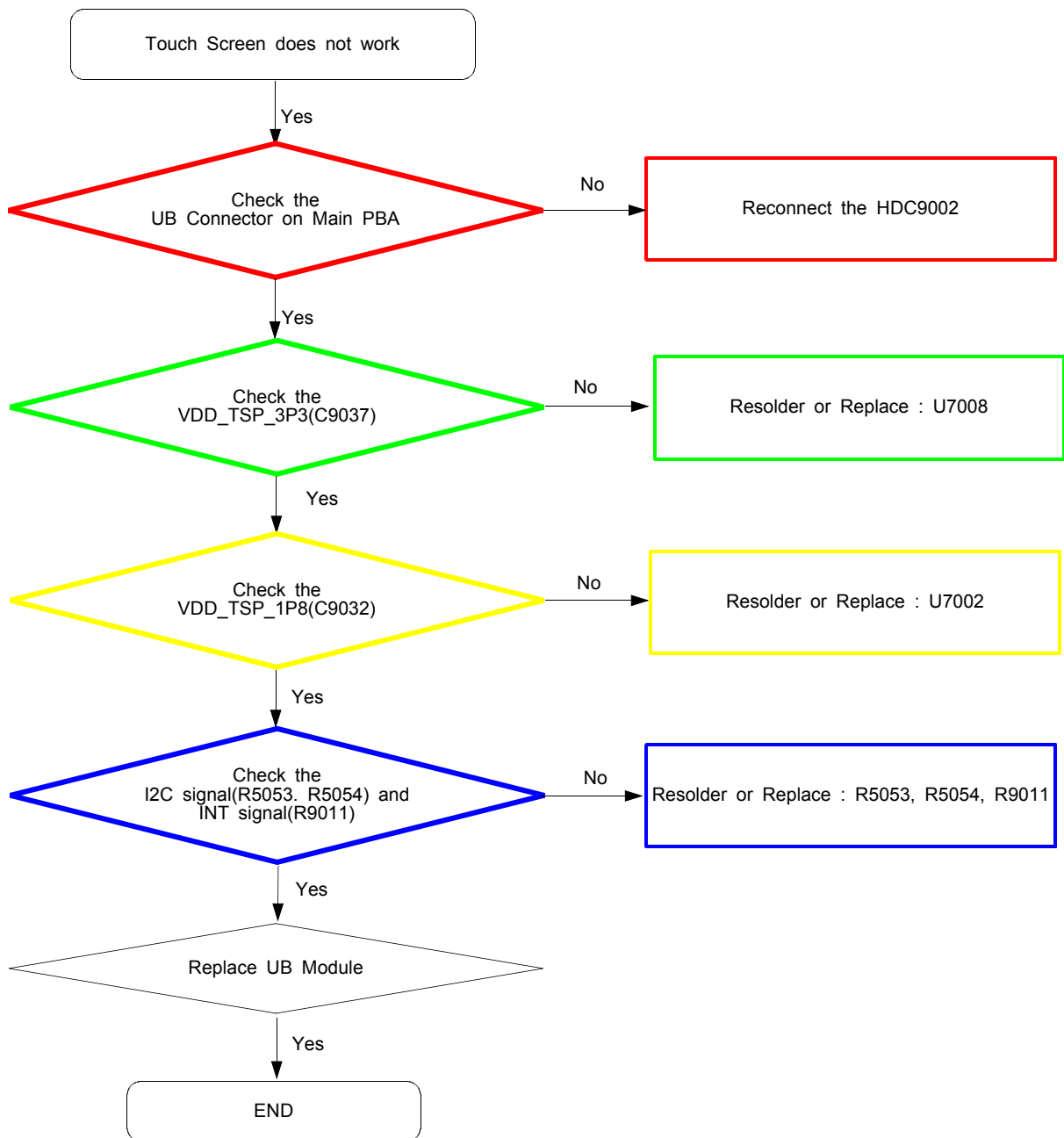


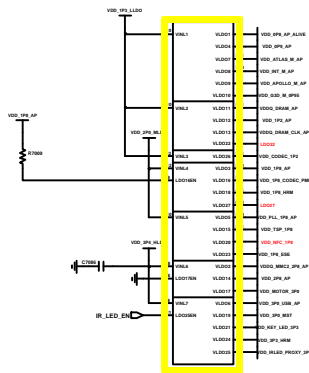
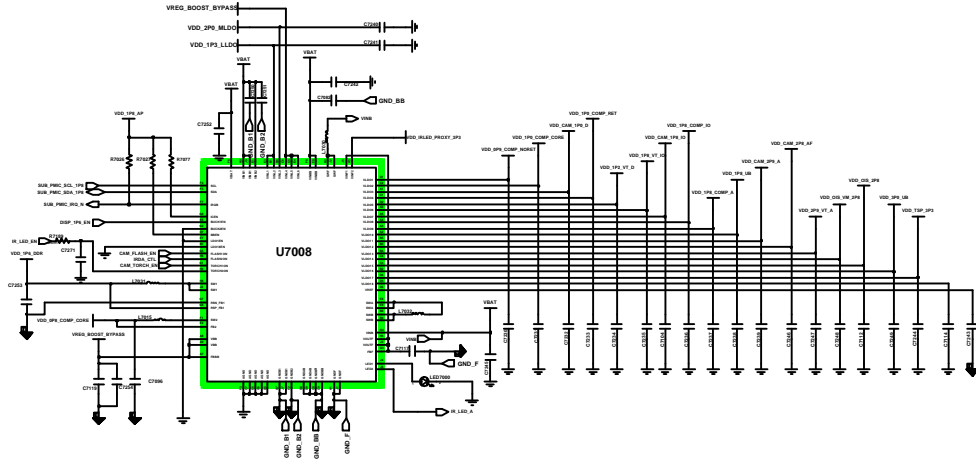
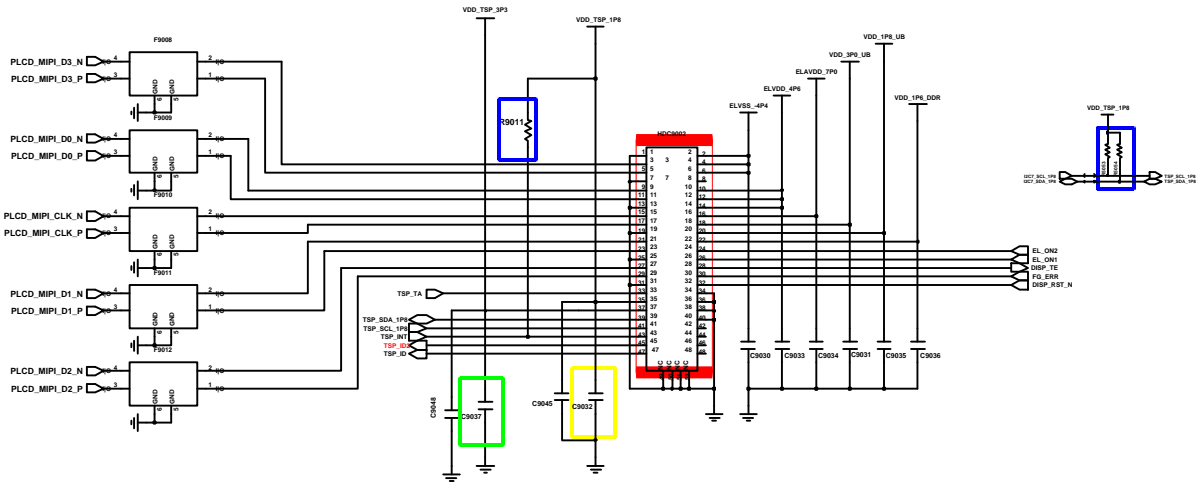






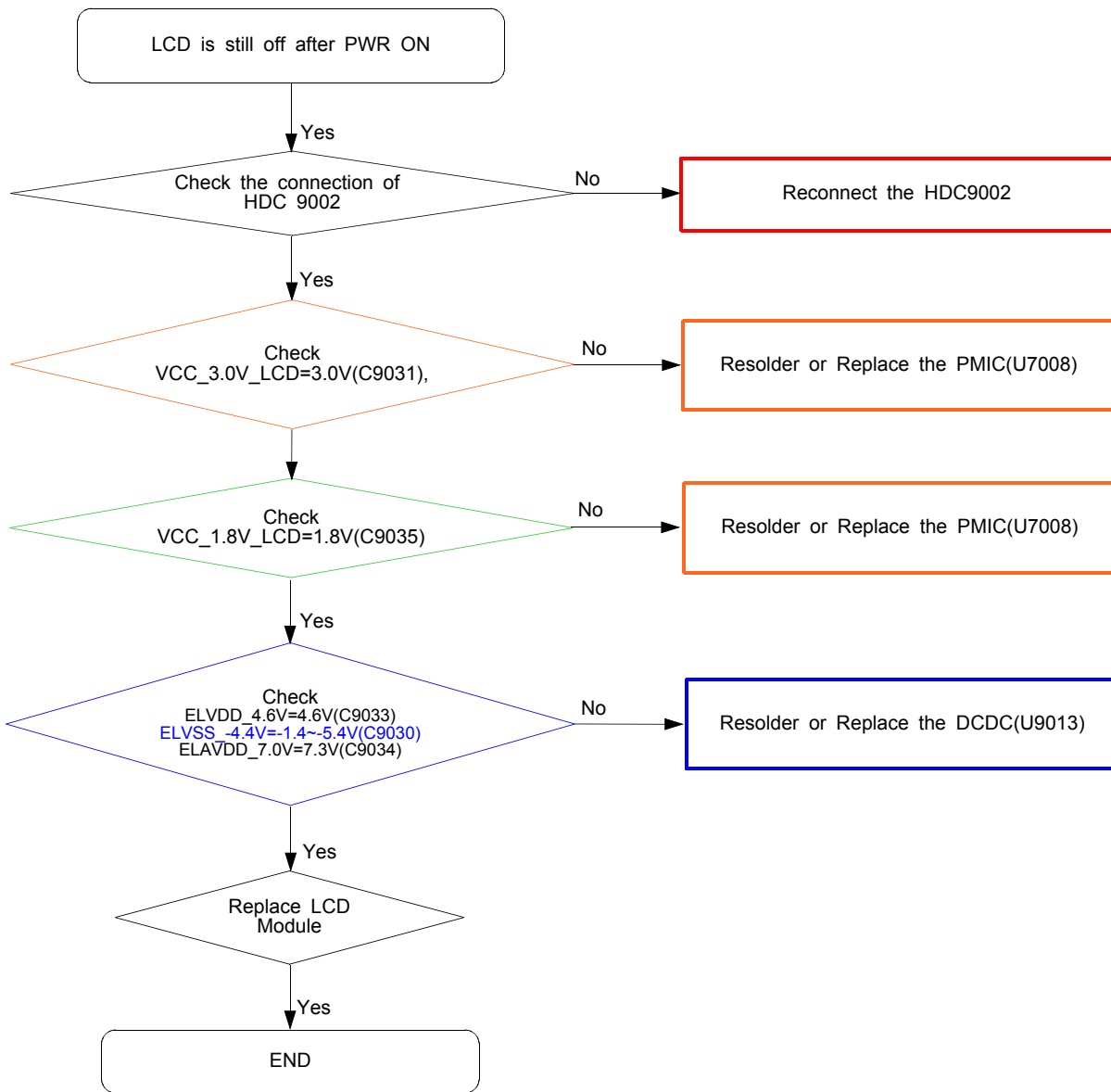
8-3-20. TSP

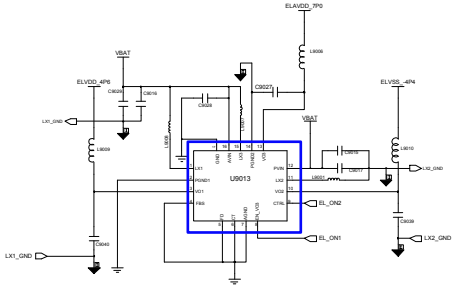
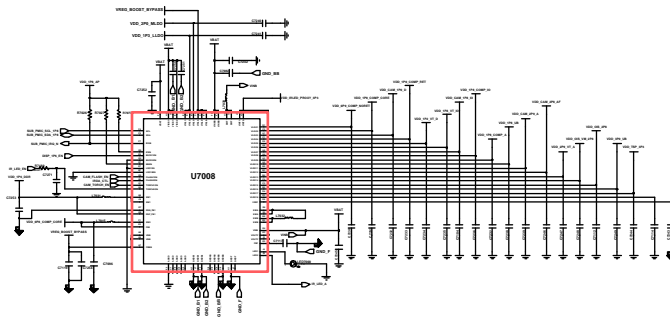
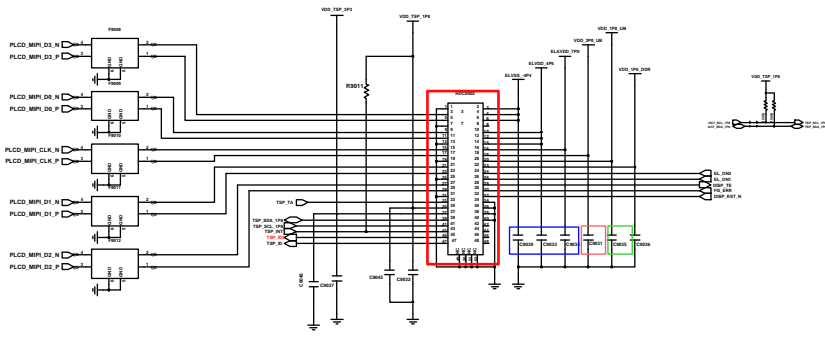


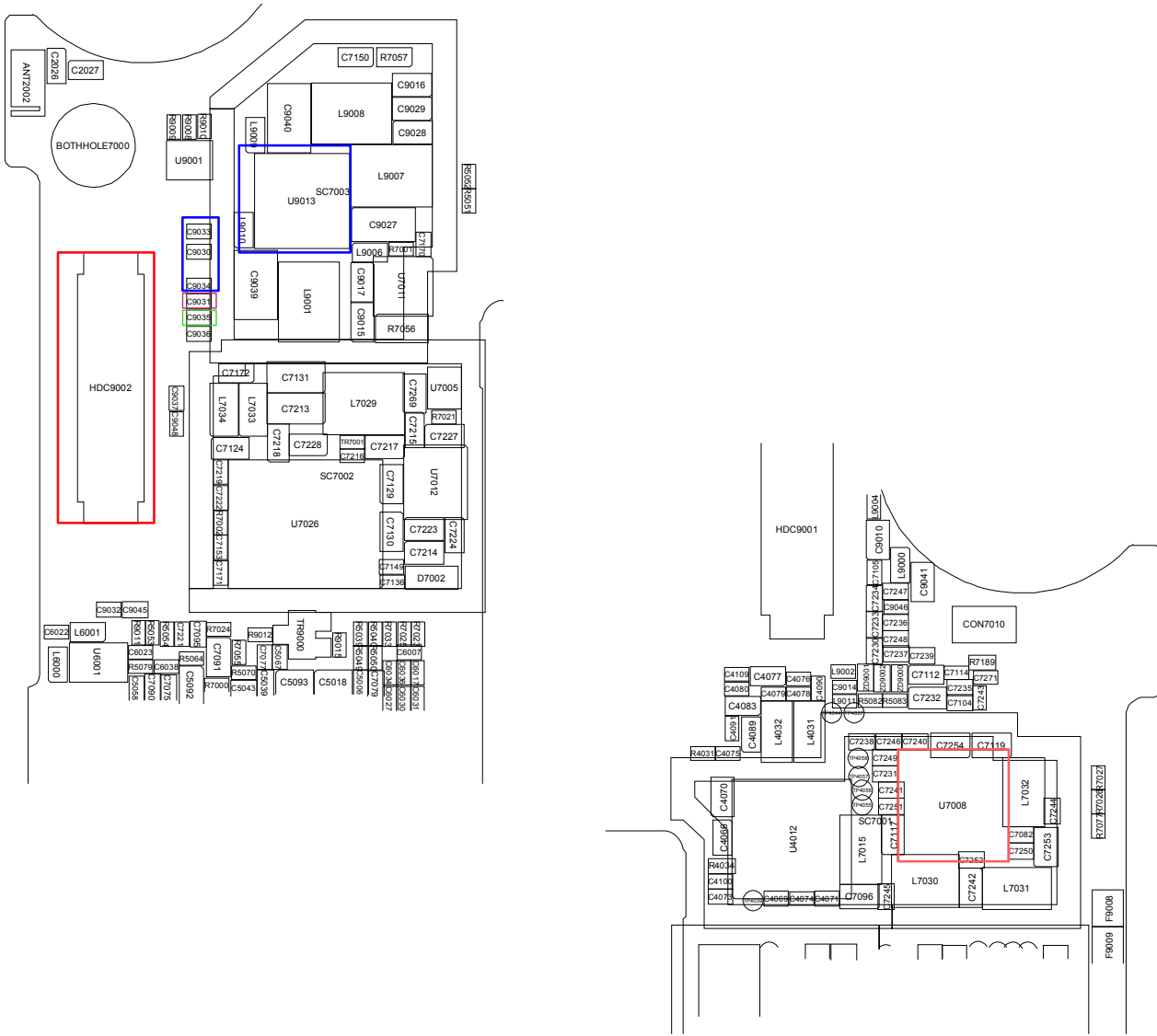


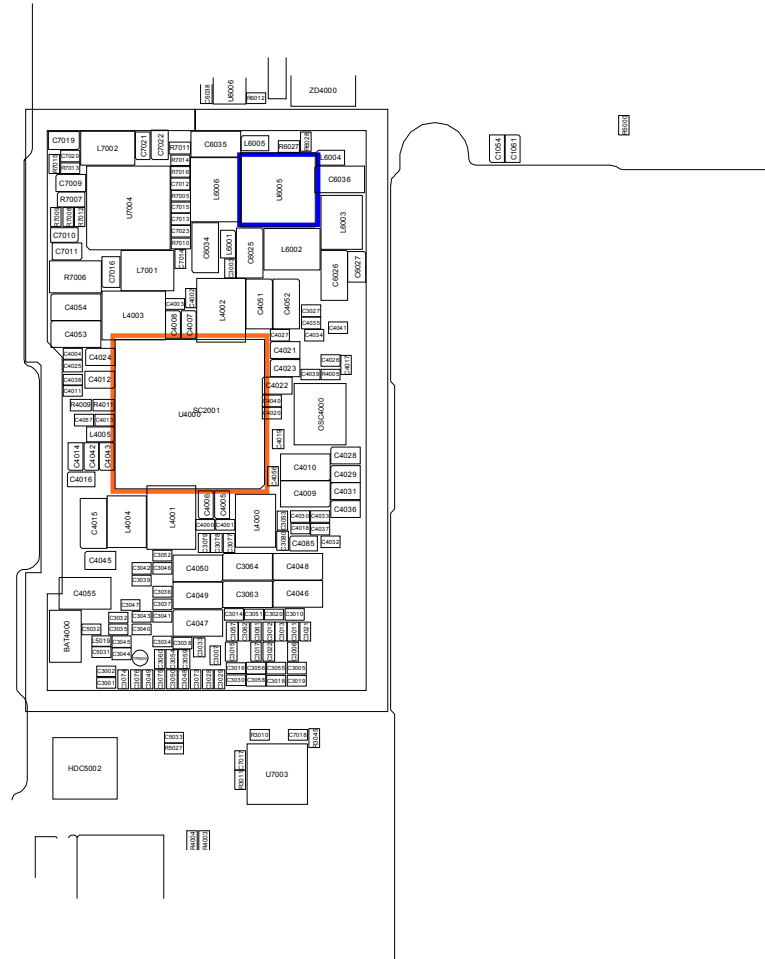


8-3-21. LCD



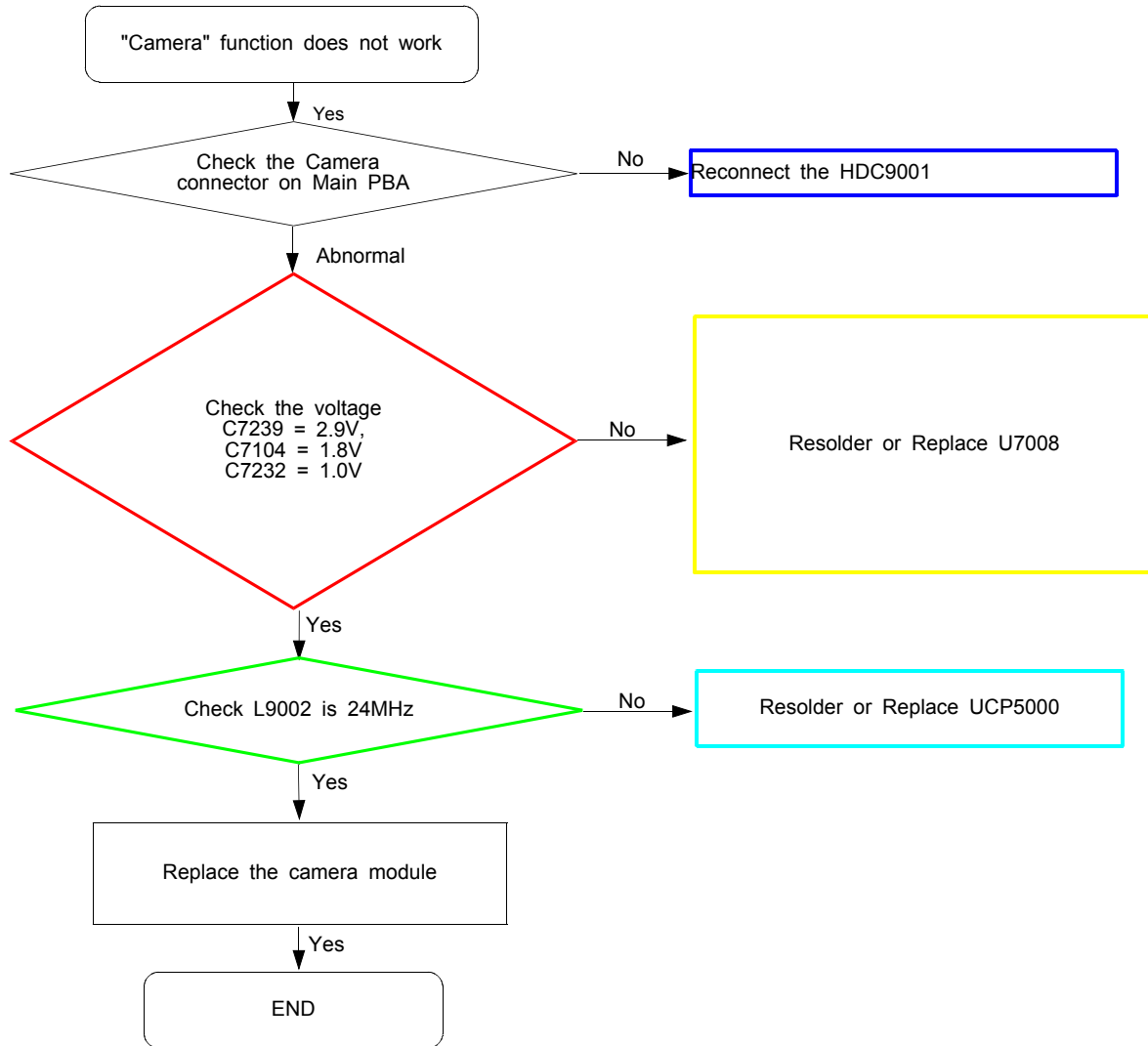




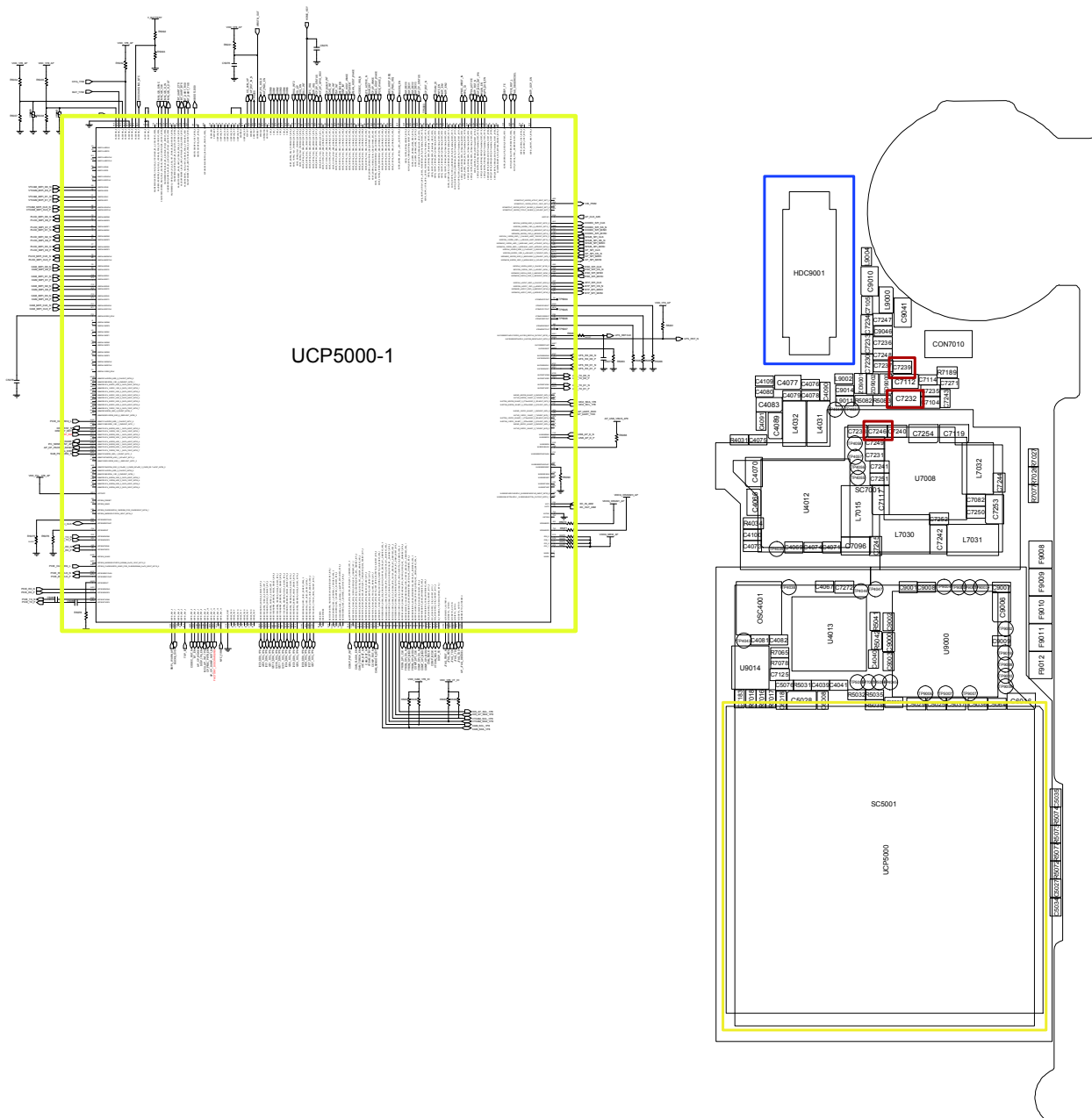




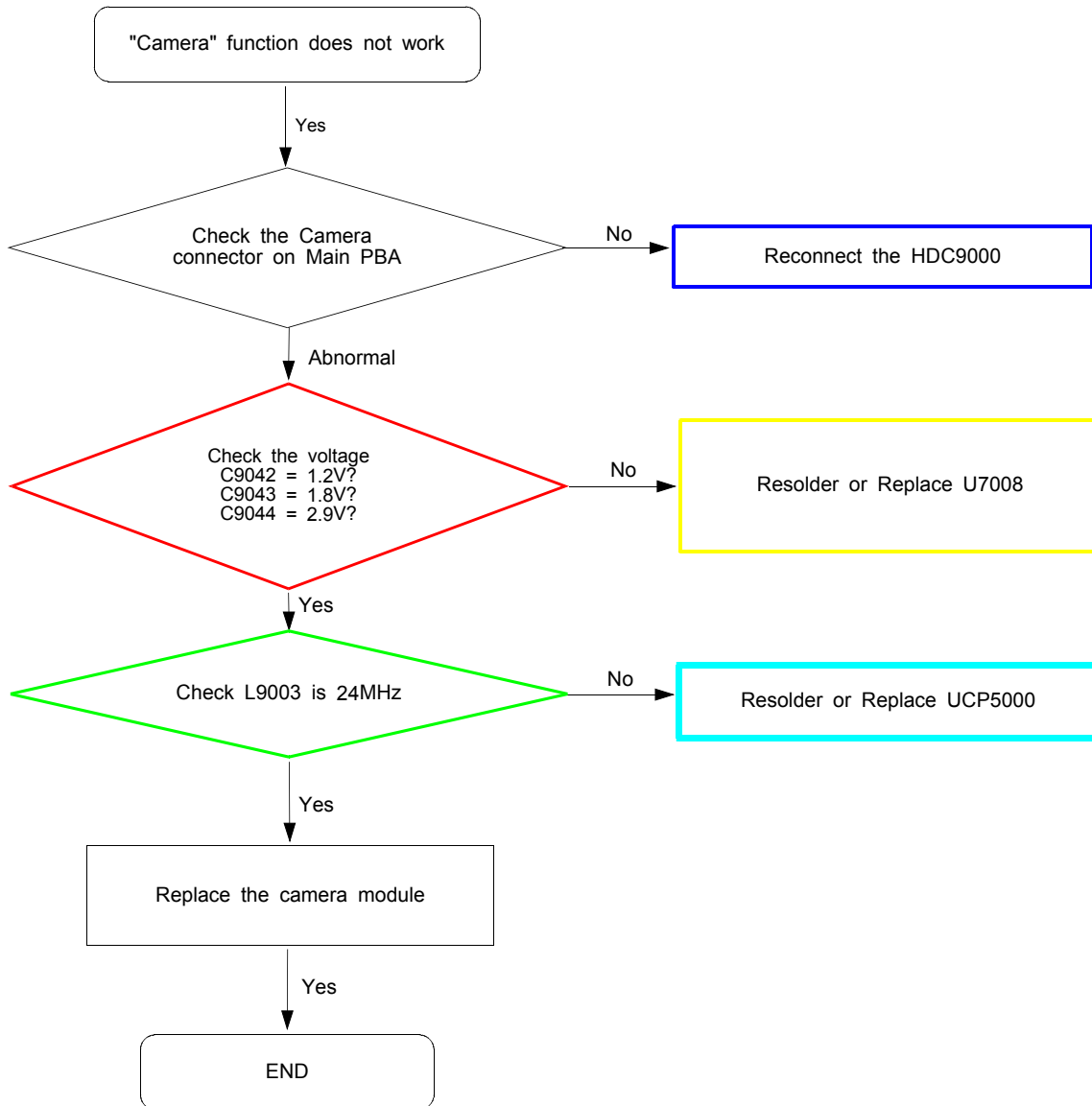
8-3-22. 16M CAM

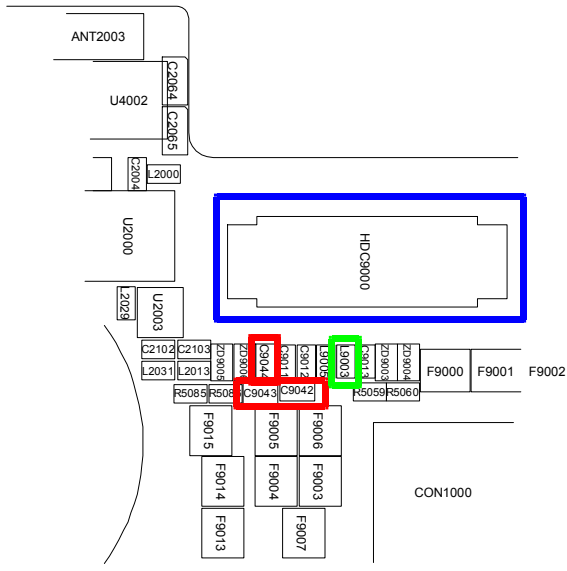
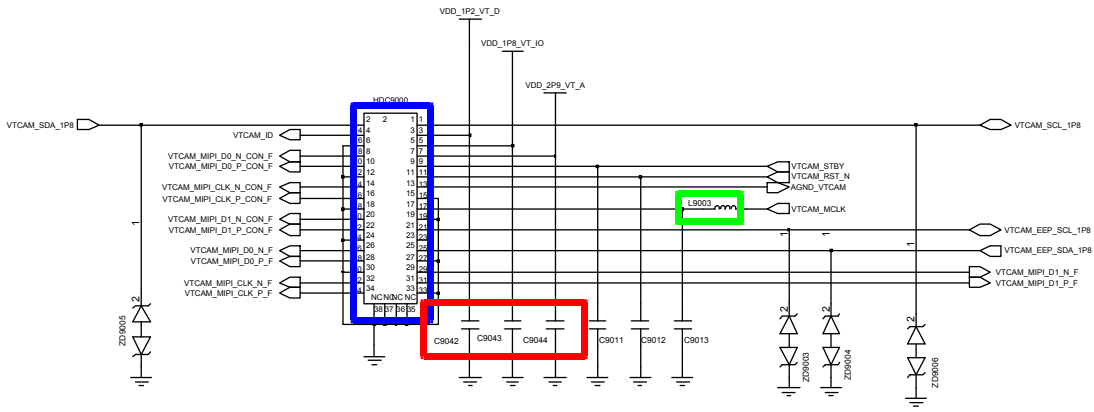


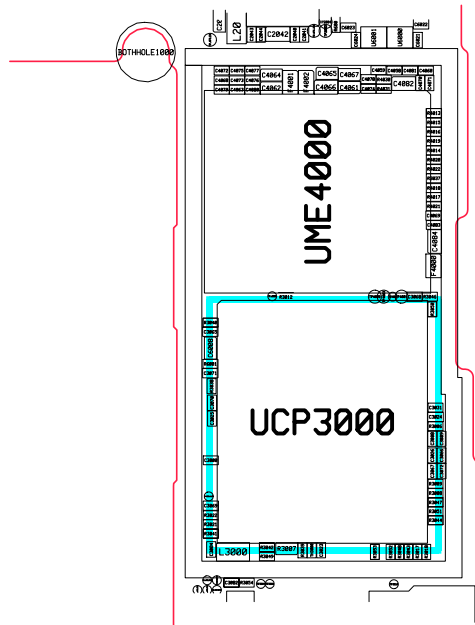
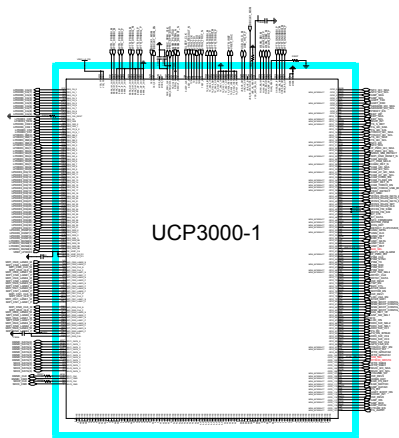
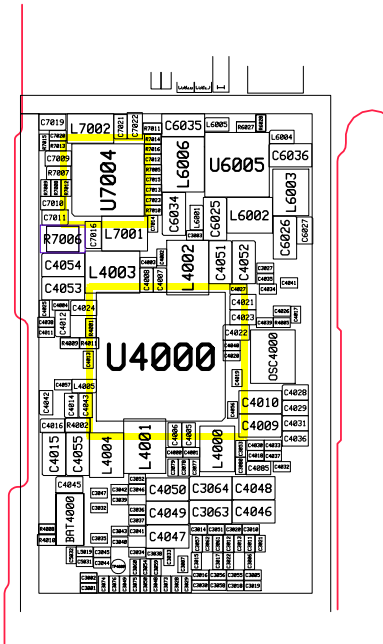
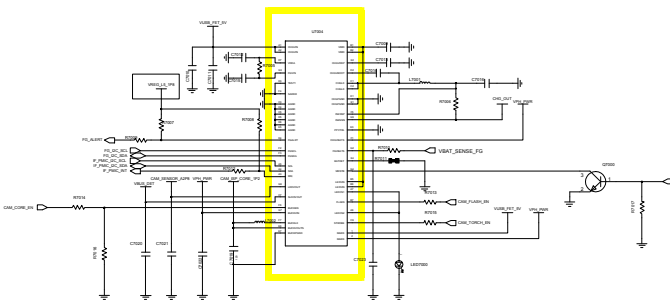
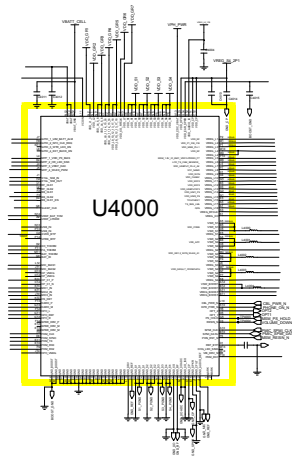




8-3-23. VT CAM

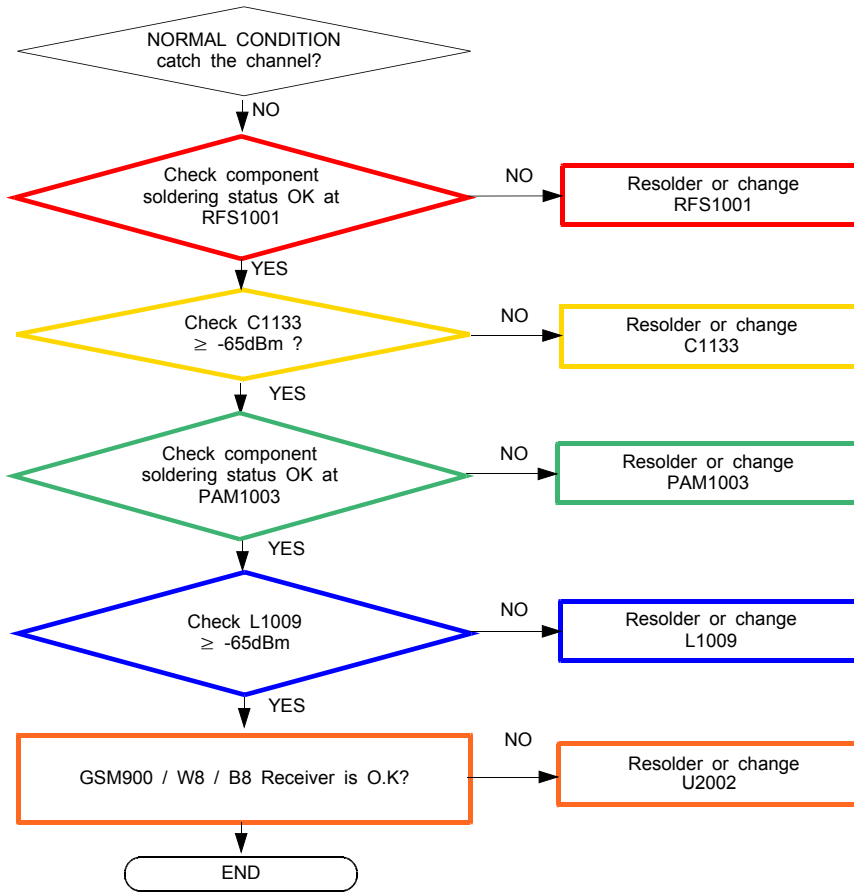


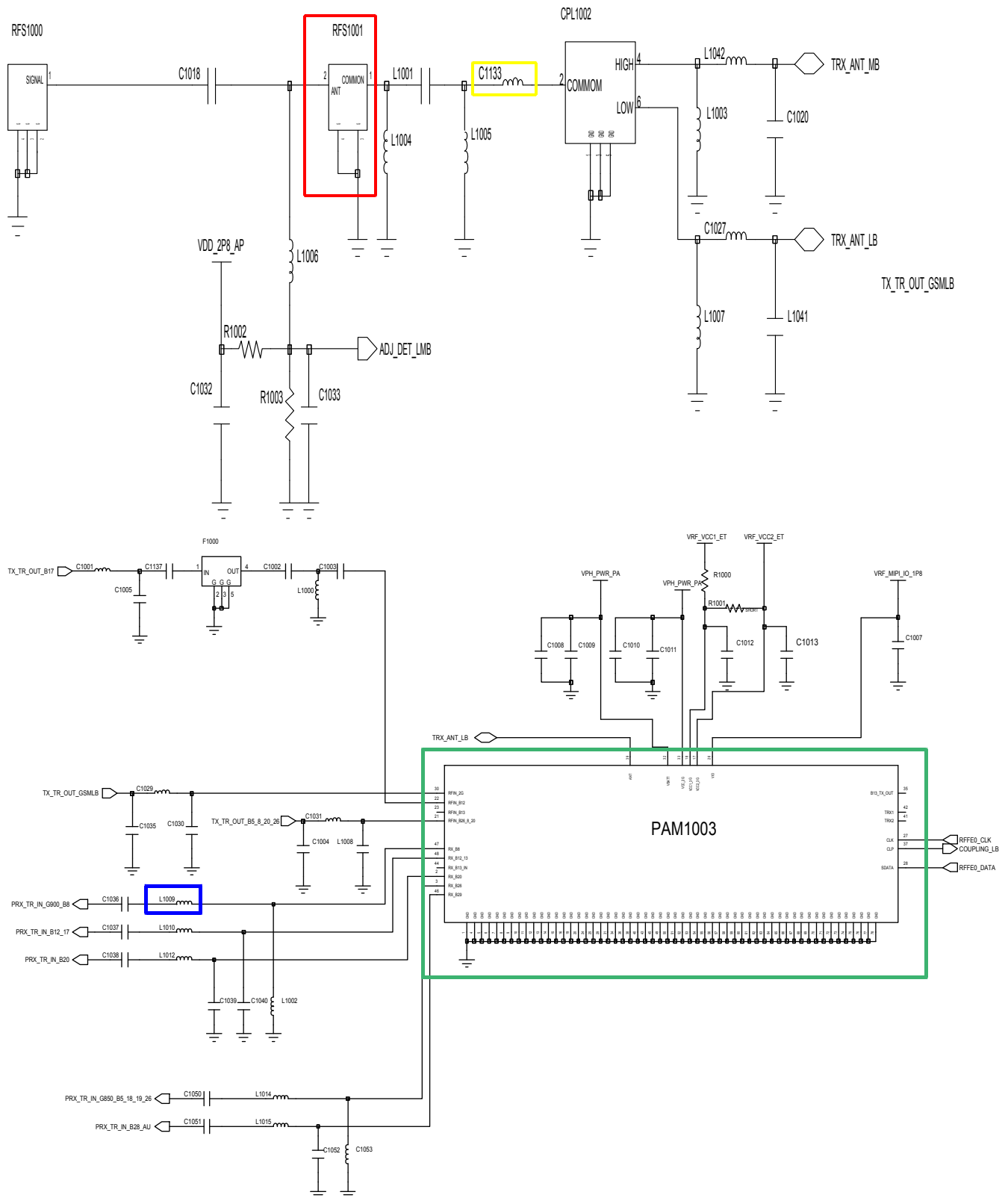




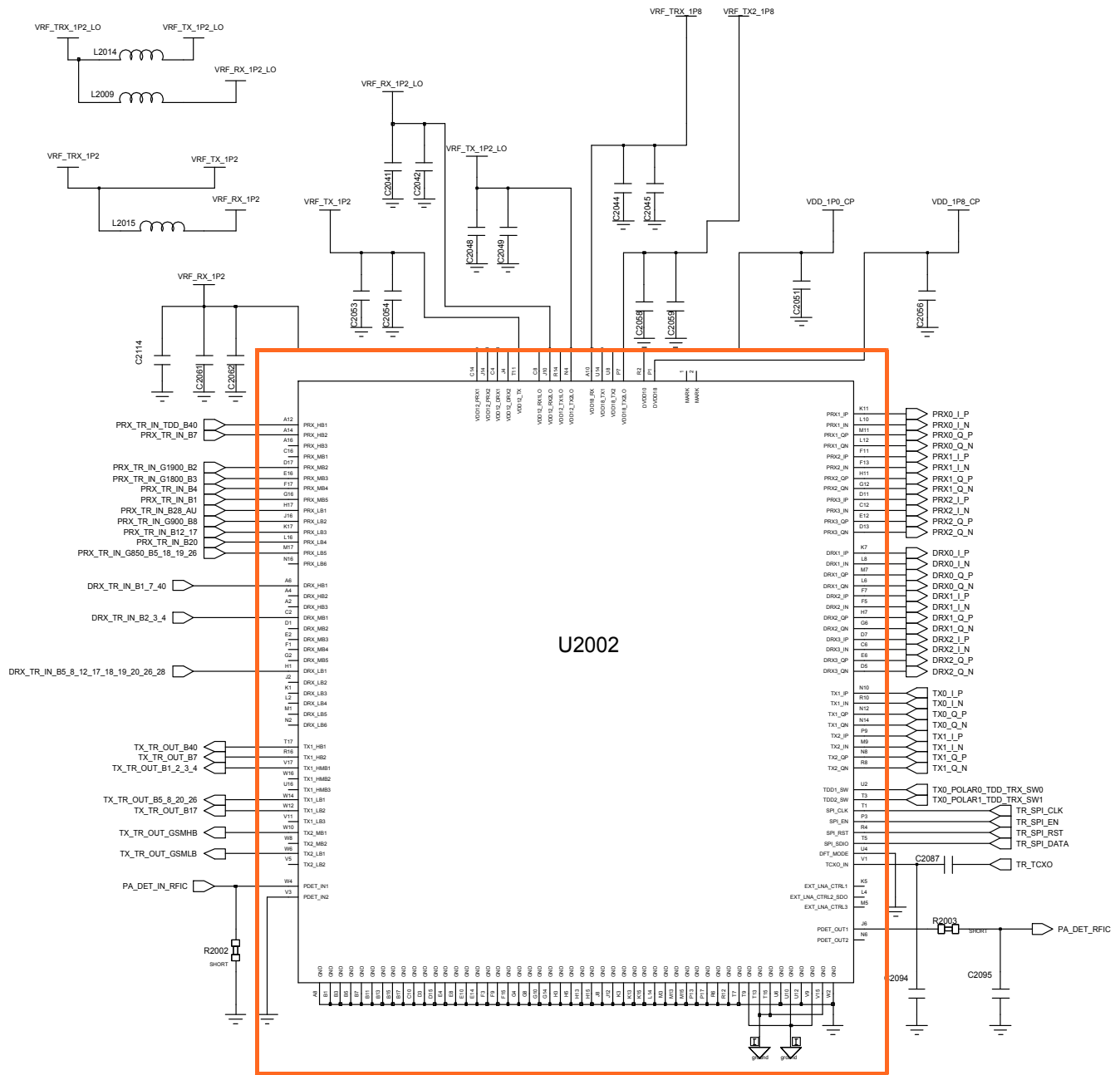
8-3-24. GSM900 / W8 / LTE B8 RX

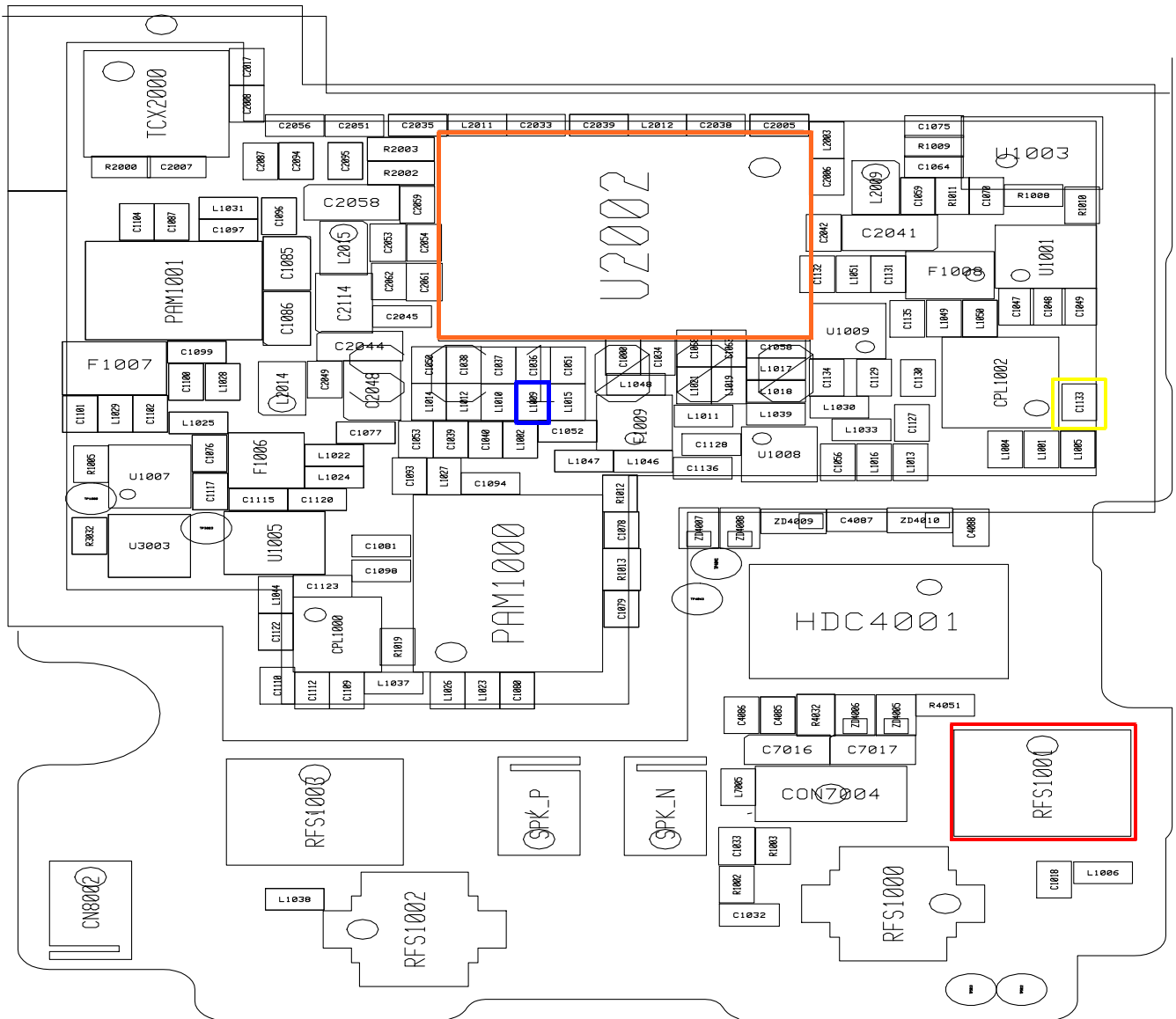
CONTINUOUS RX ON  
RF INPUT : 37CH, 3013CH,  
3625CH  
AMP : -50dBm

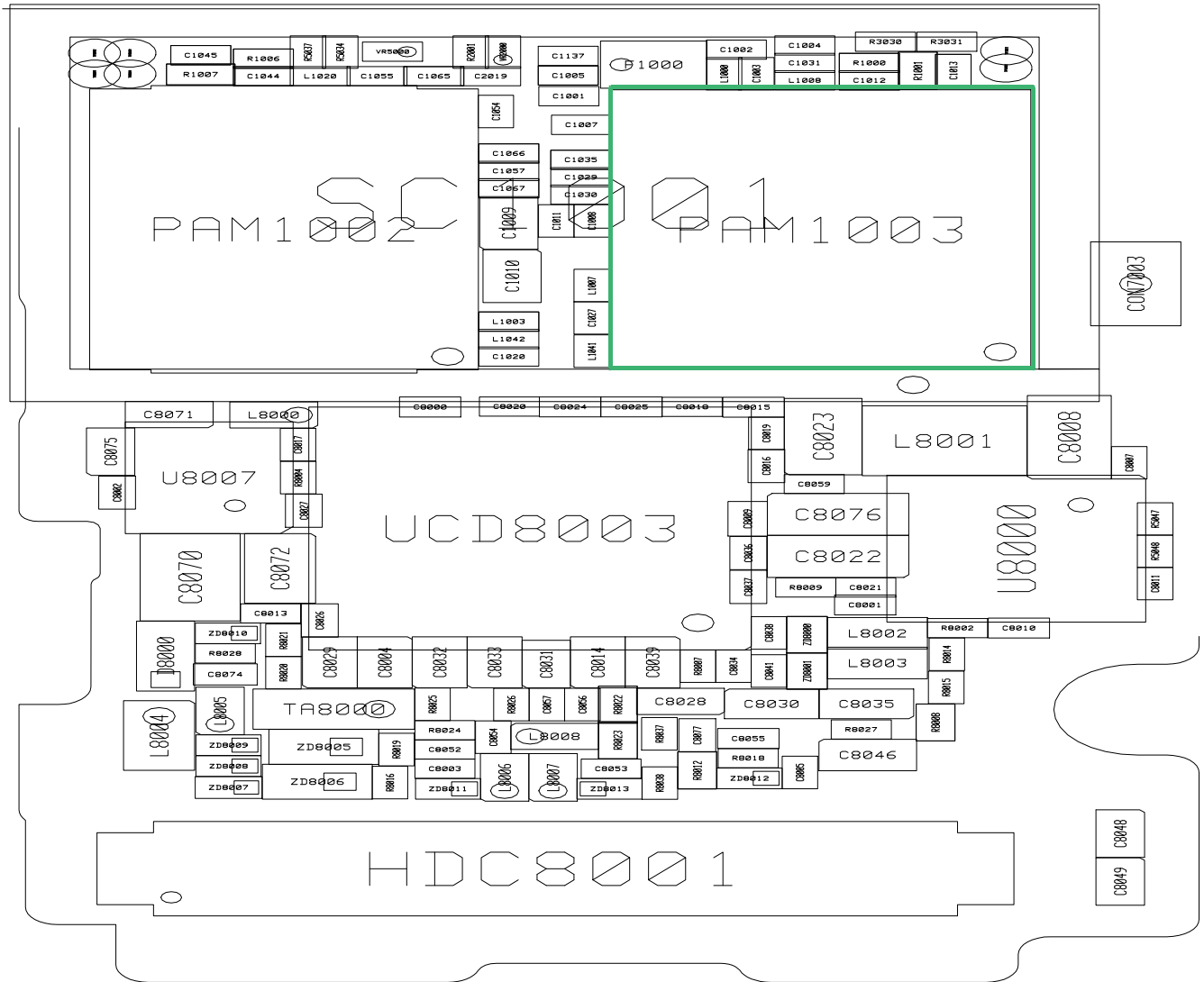






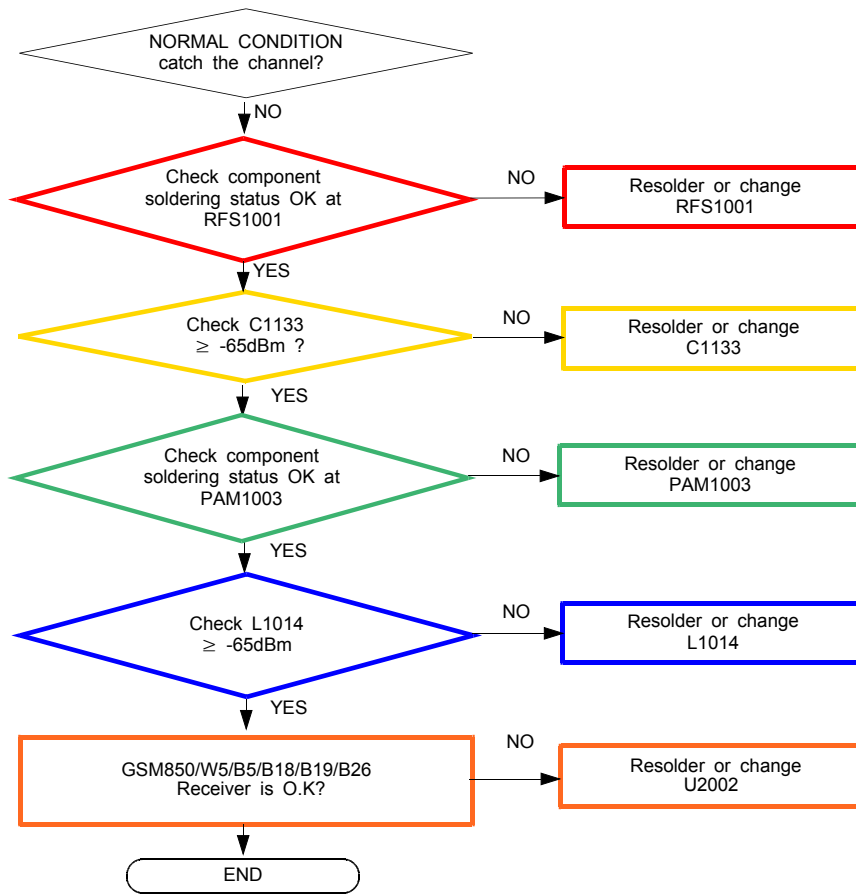


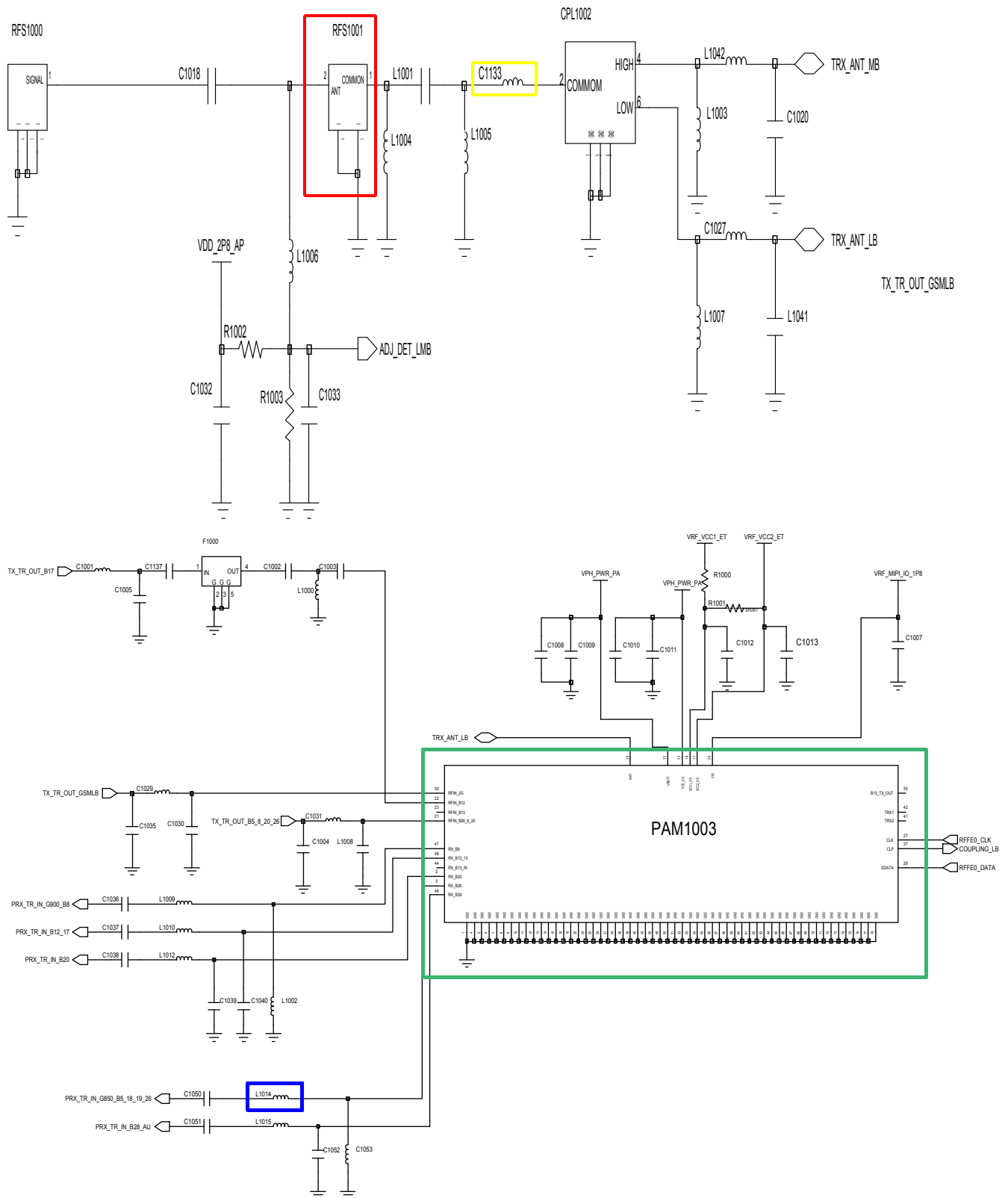


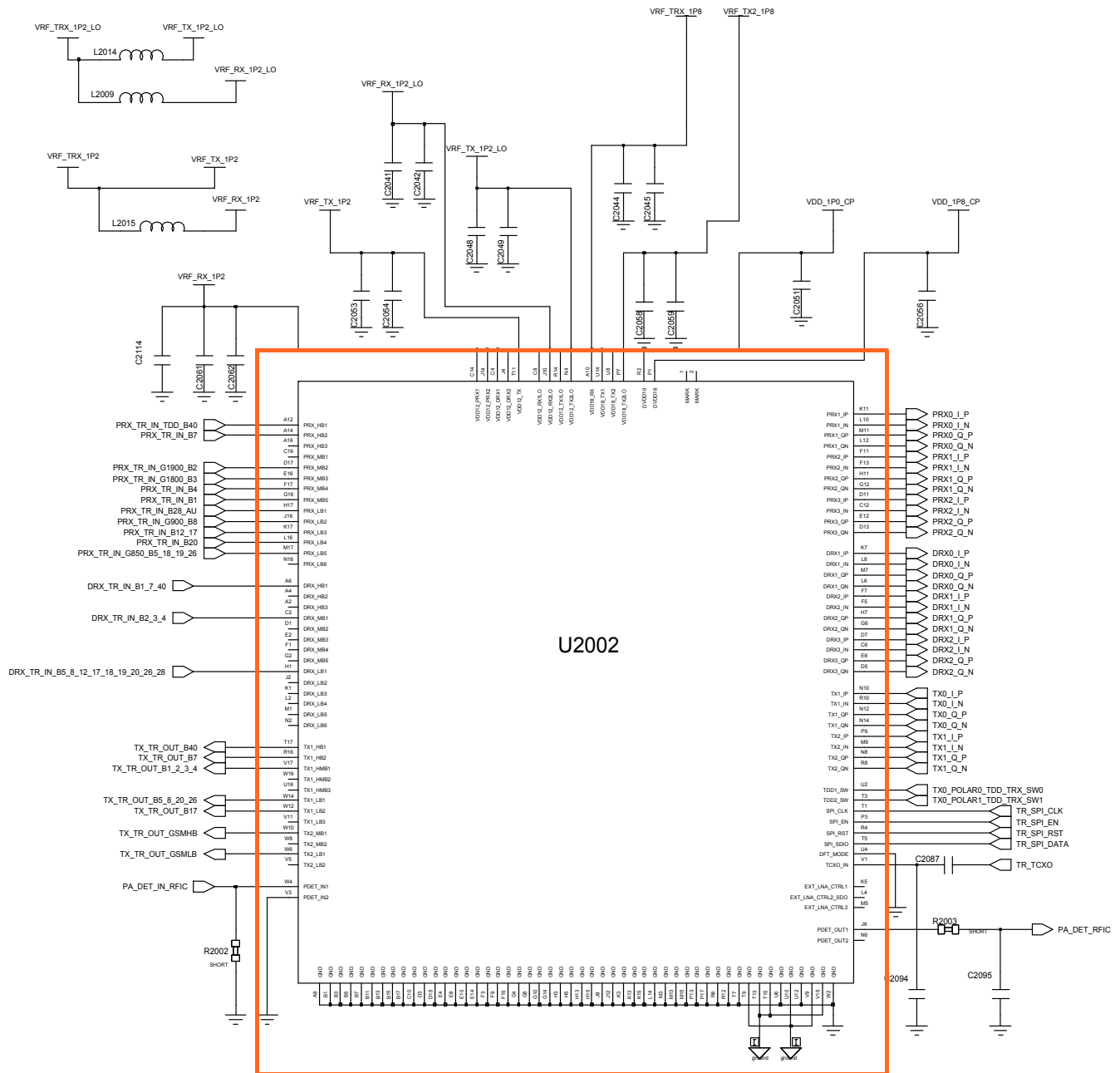


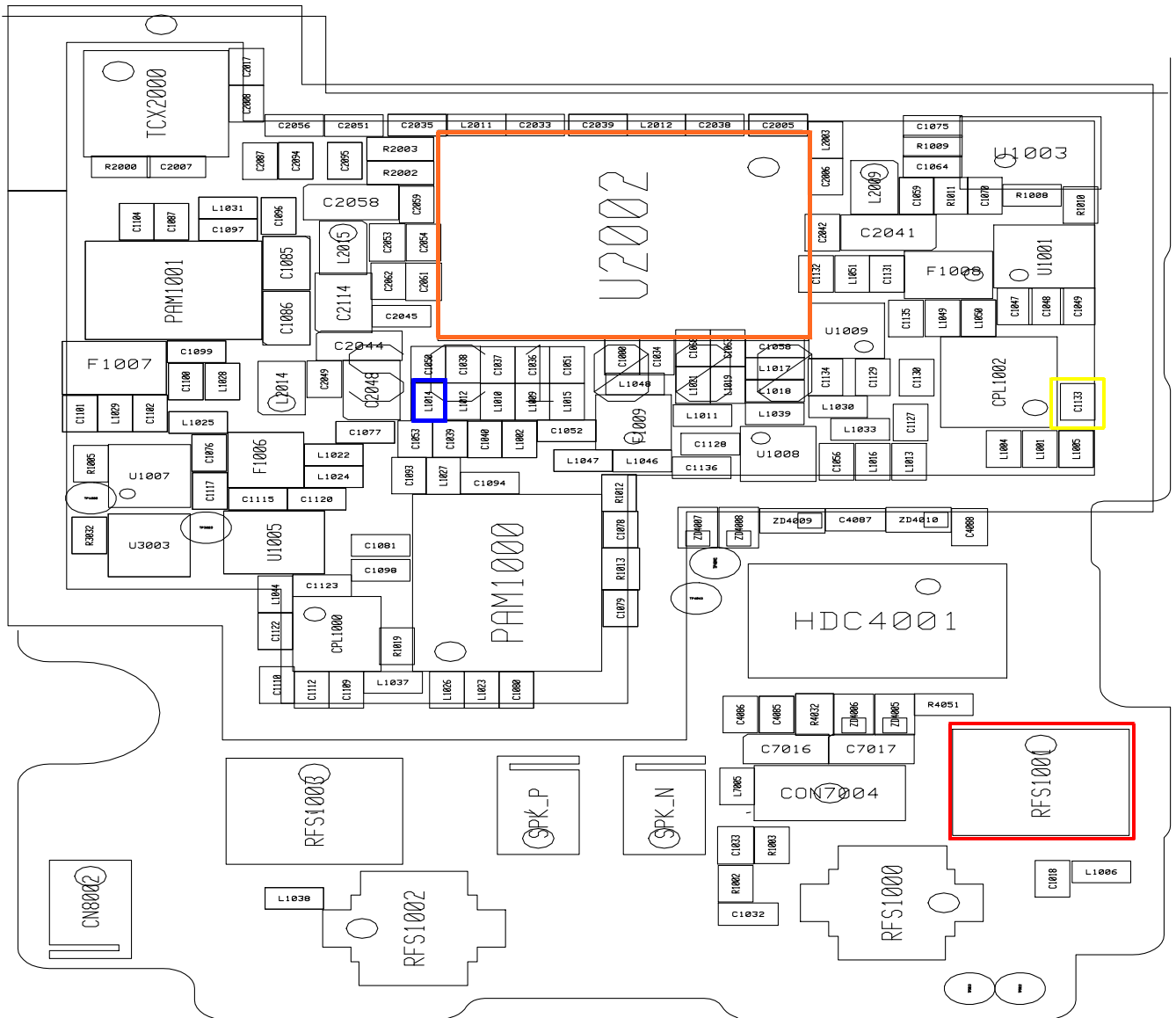
8-3-25. GSM850 / W5 / LTE B5 / LTE B18 / LTE B19 / LTE B26 RX

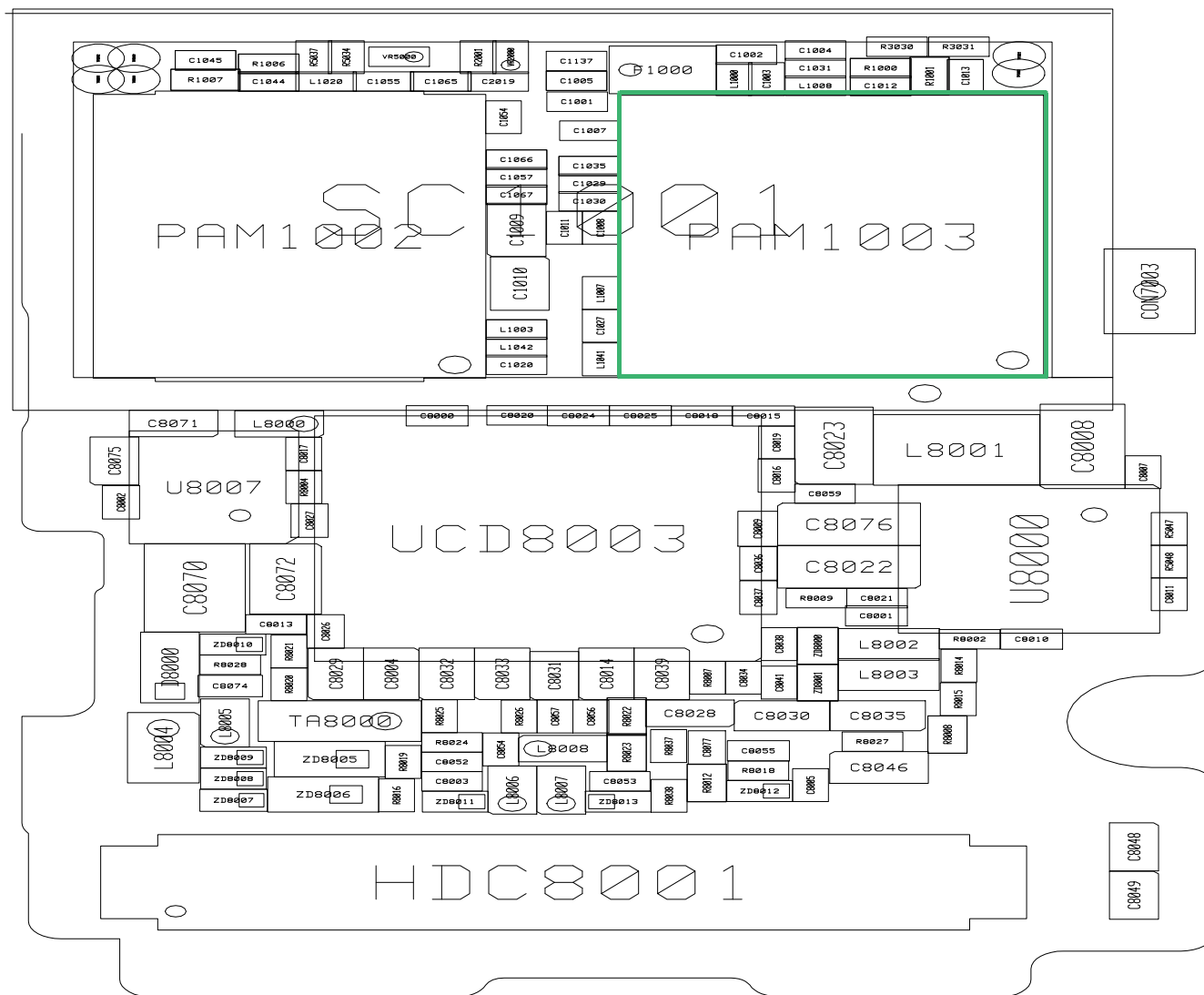
CONTINUOUS RX ON  
 RF INPUT :  
 190CH,4400CH,2525CH,  
 5925CH,6075CH  
 AMP : -50dBm







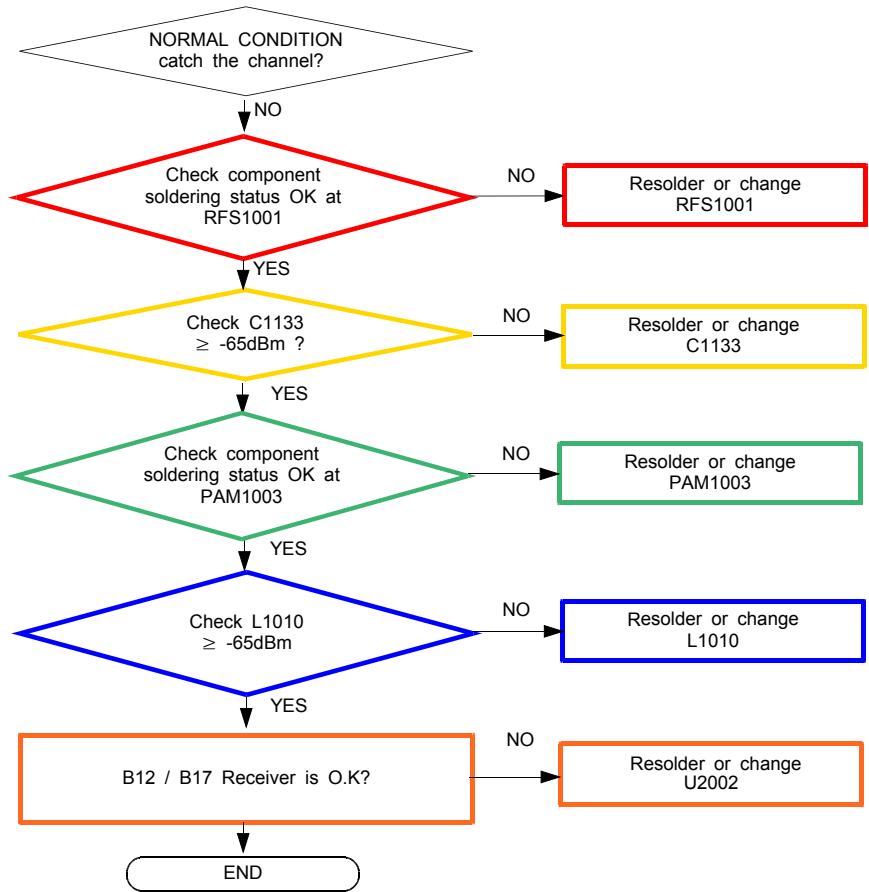


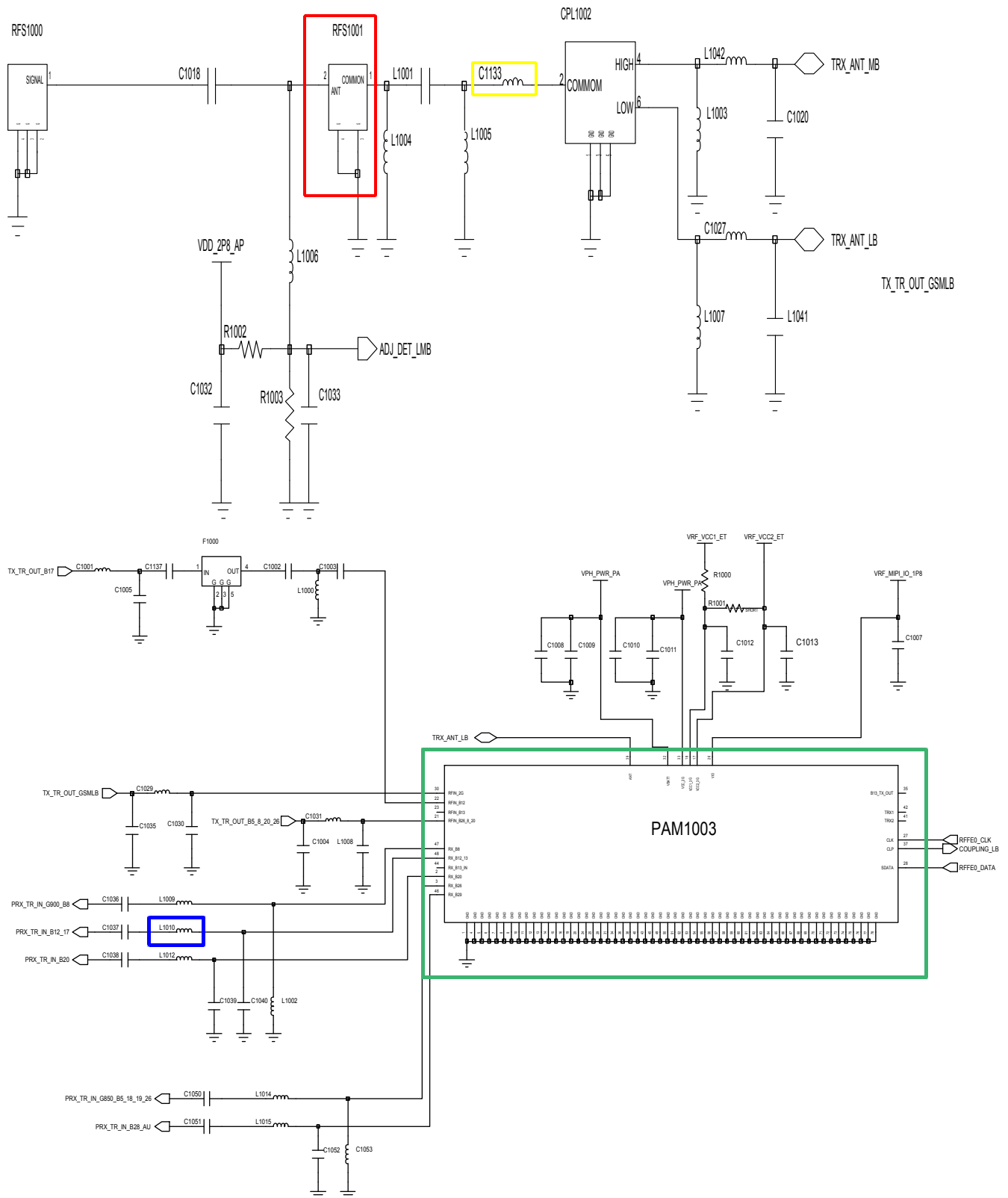


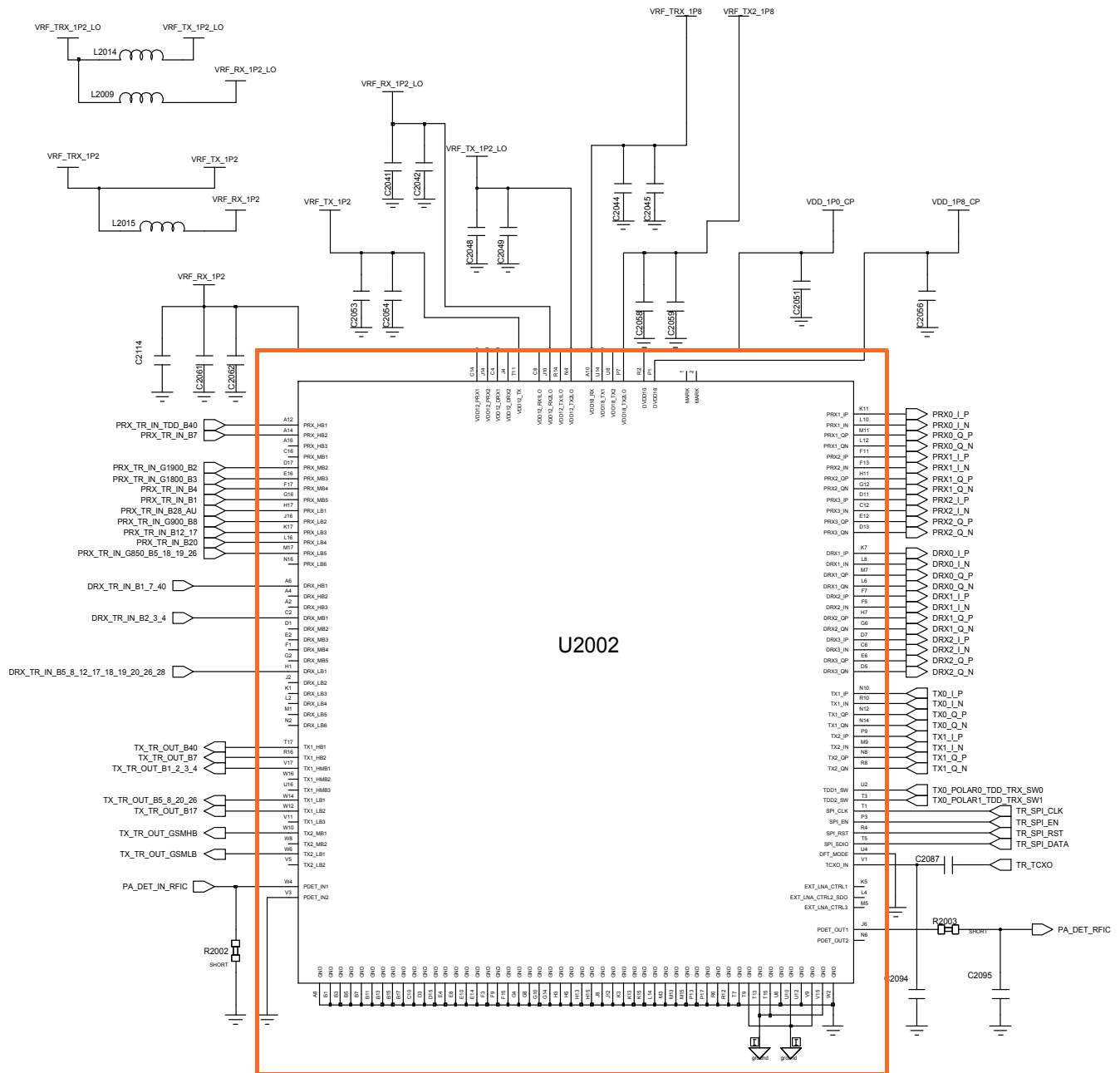


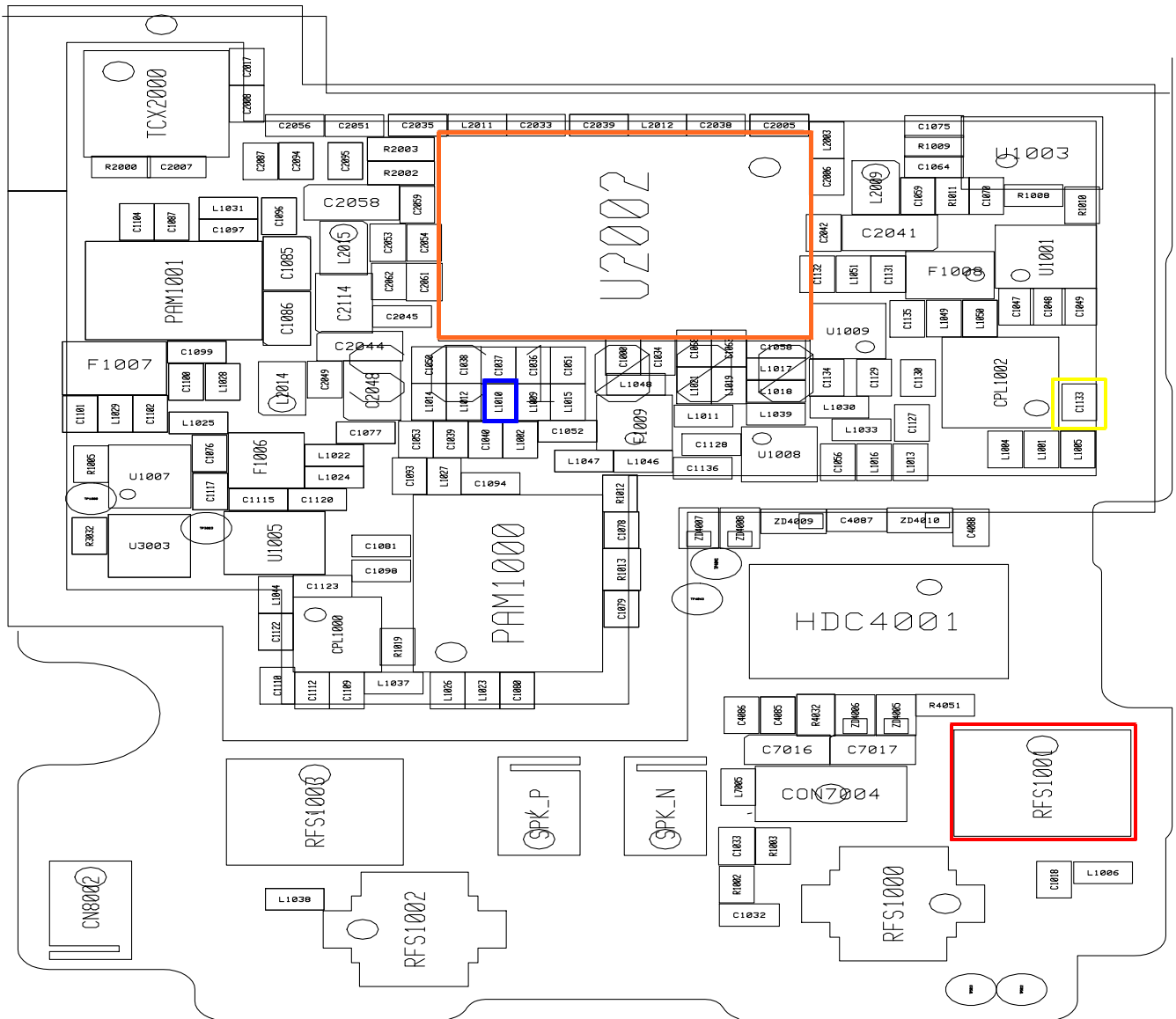
8-3-26. LTE B12 / LTE B17 RX

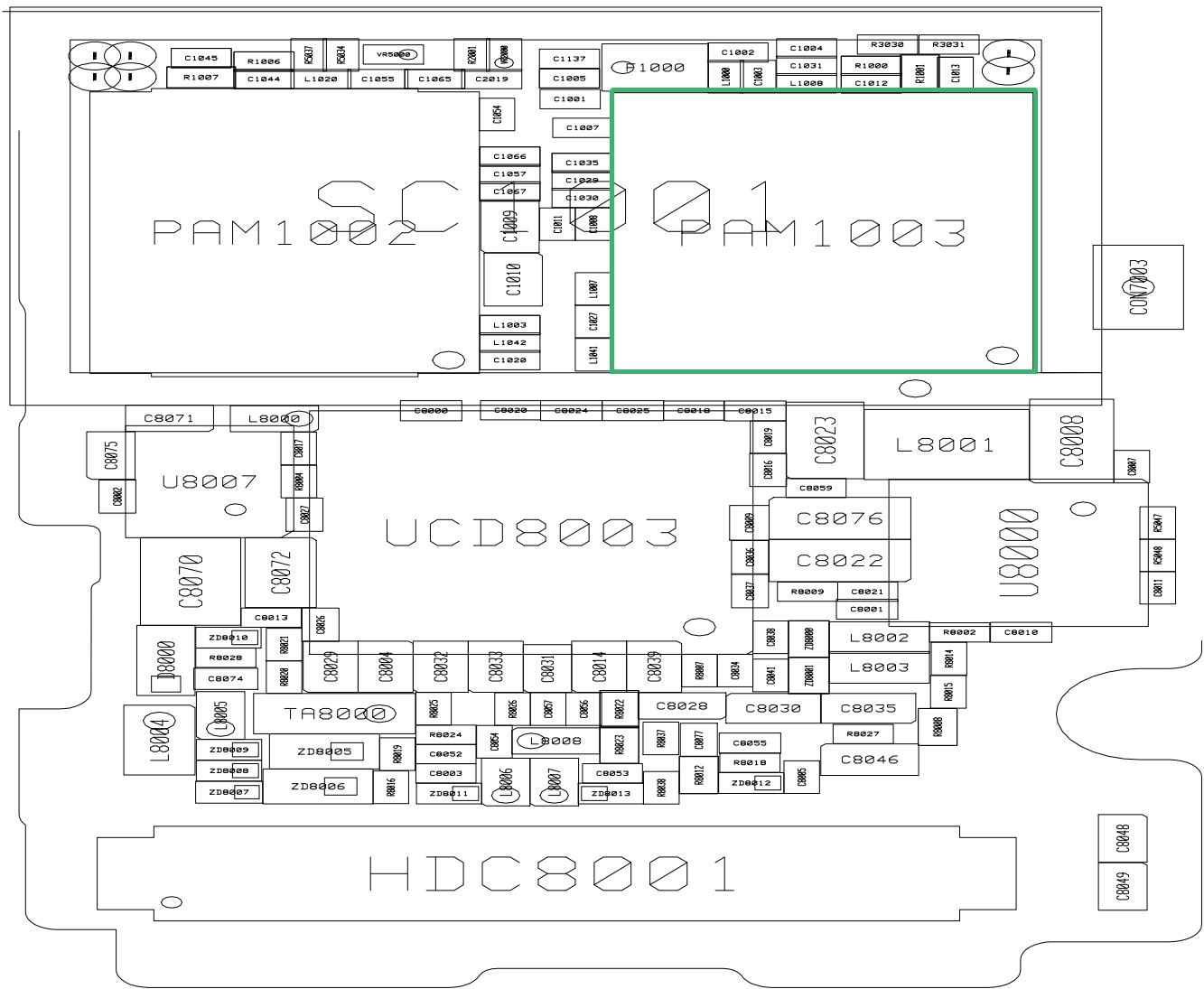
CONTINUOUS RX ON  
RF INPUT : 5095CH, 5790CH  
AMP : -50dBm







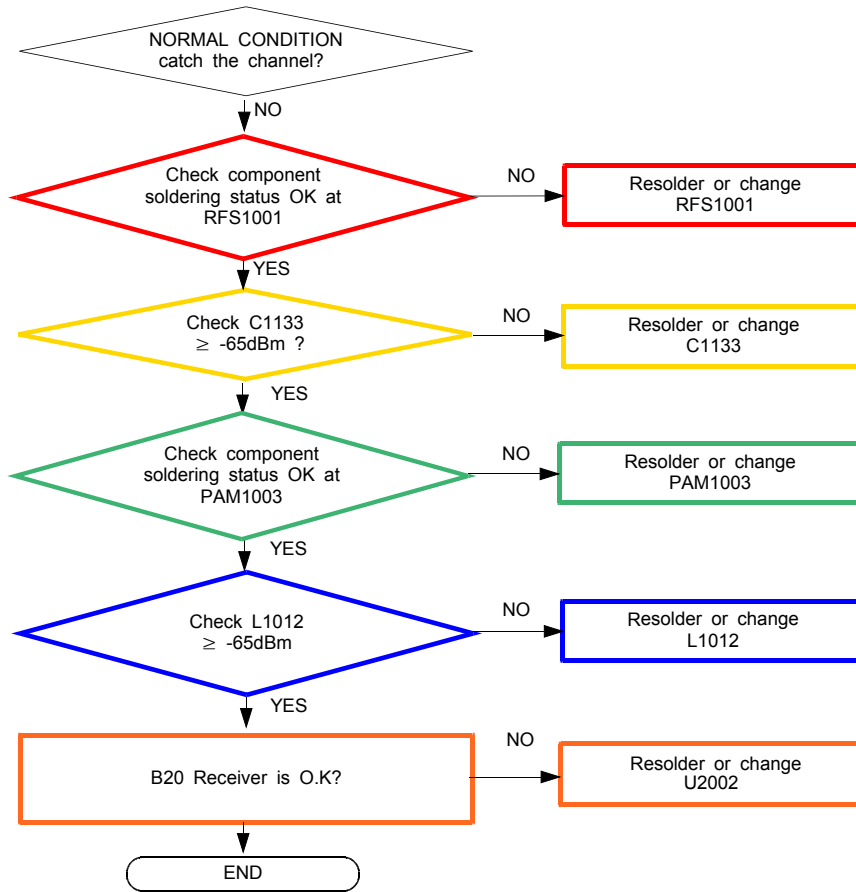


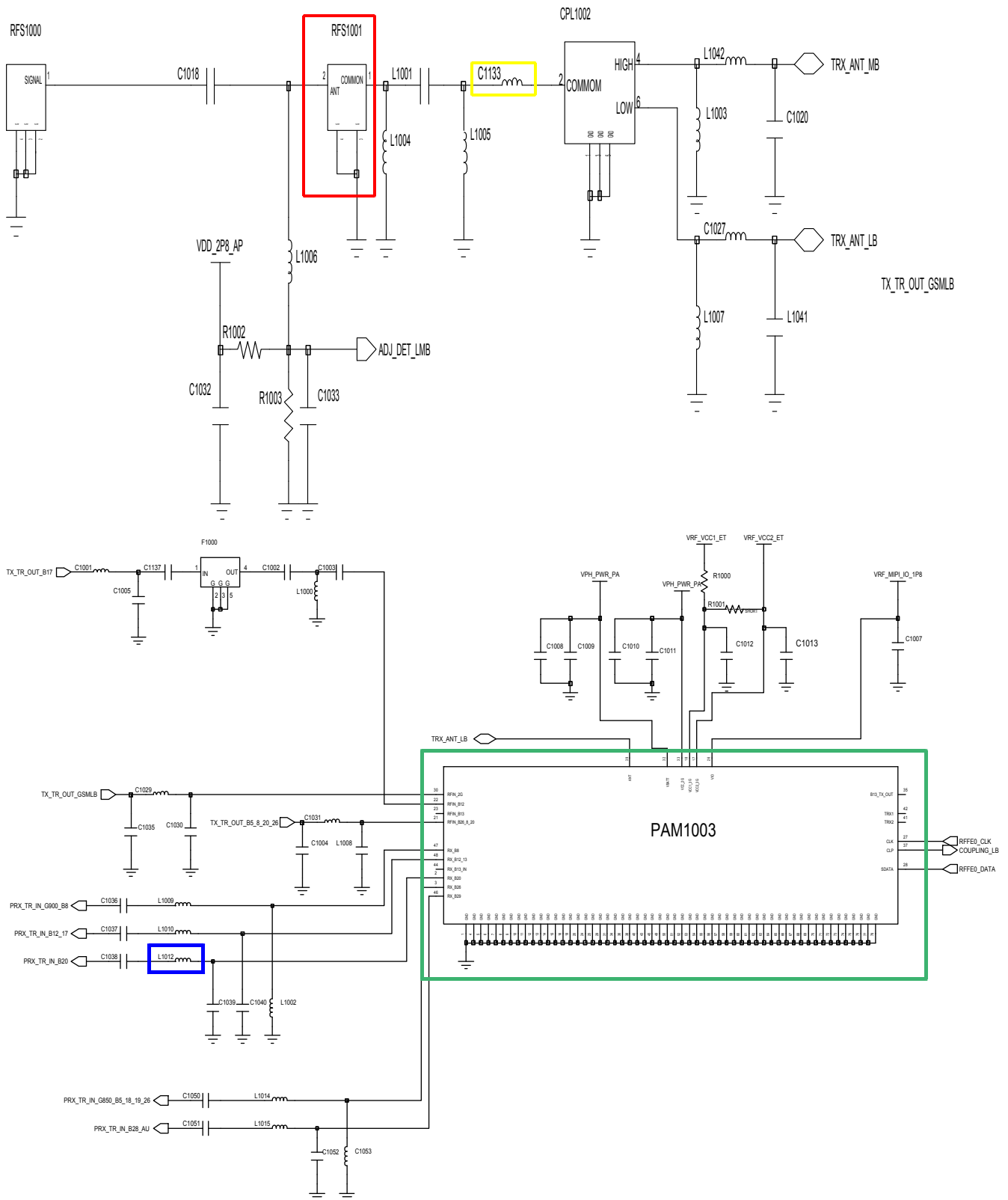


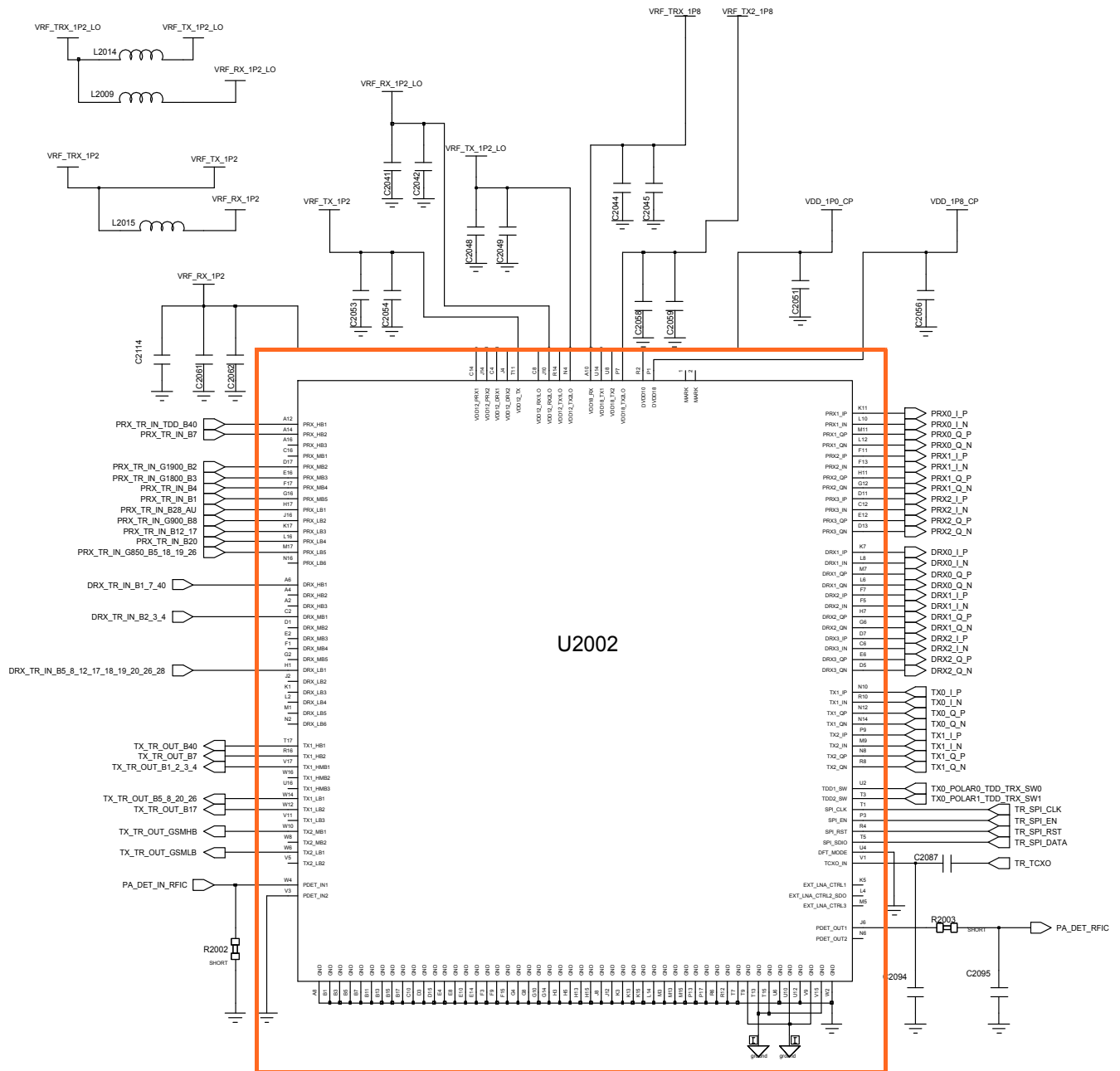
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8-3-27. LTE B20 RX

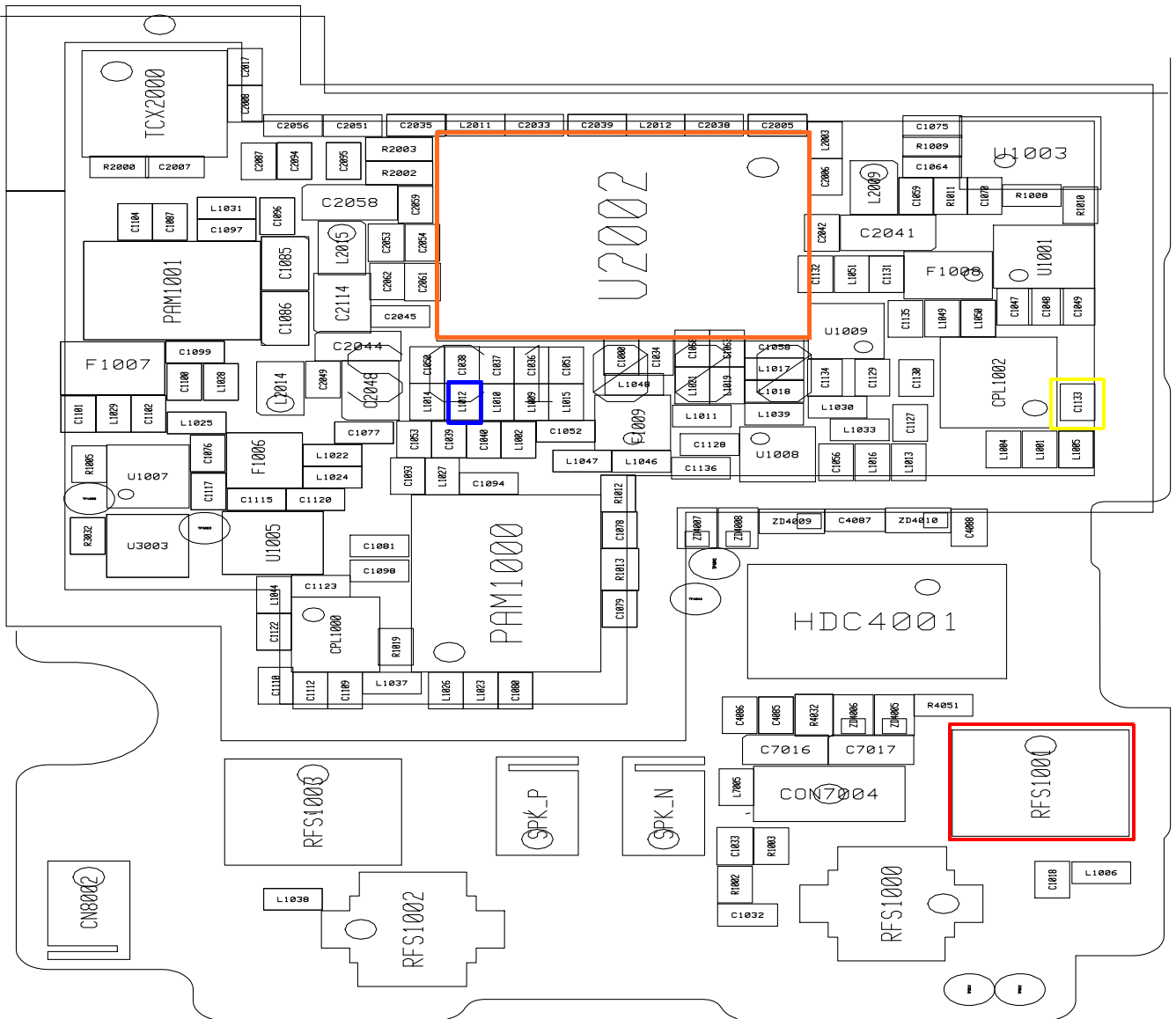
CONTINUOUS RX ON  
 RF INPUT : 6300CH  
 AMP : -50dBm







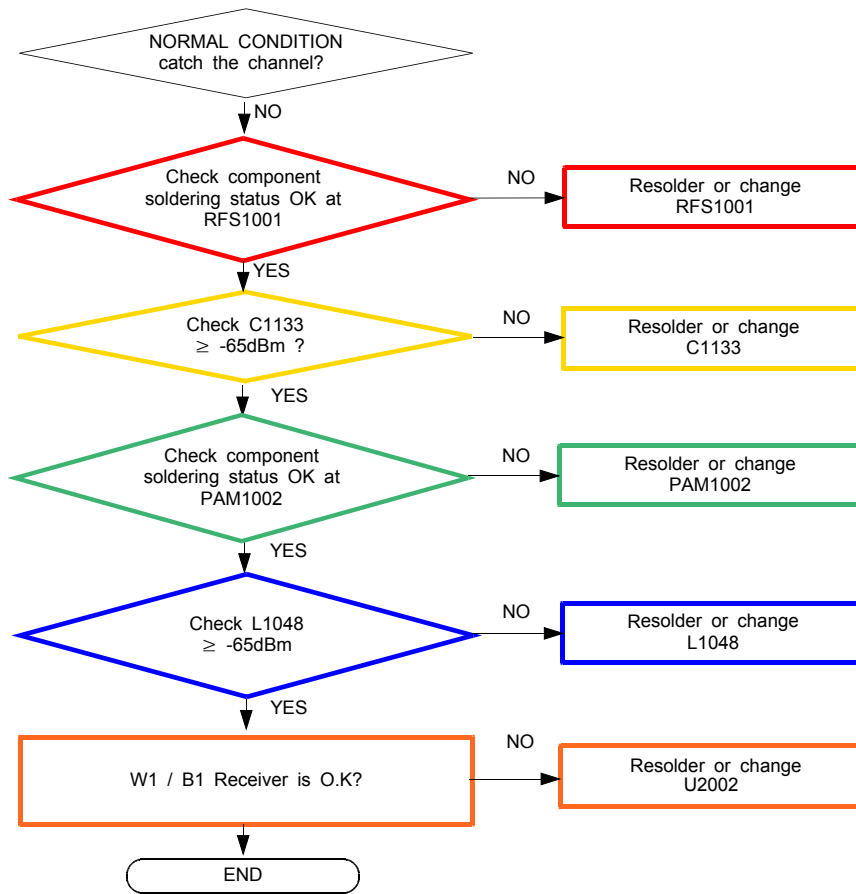


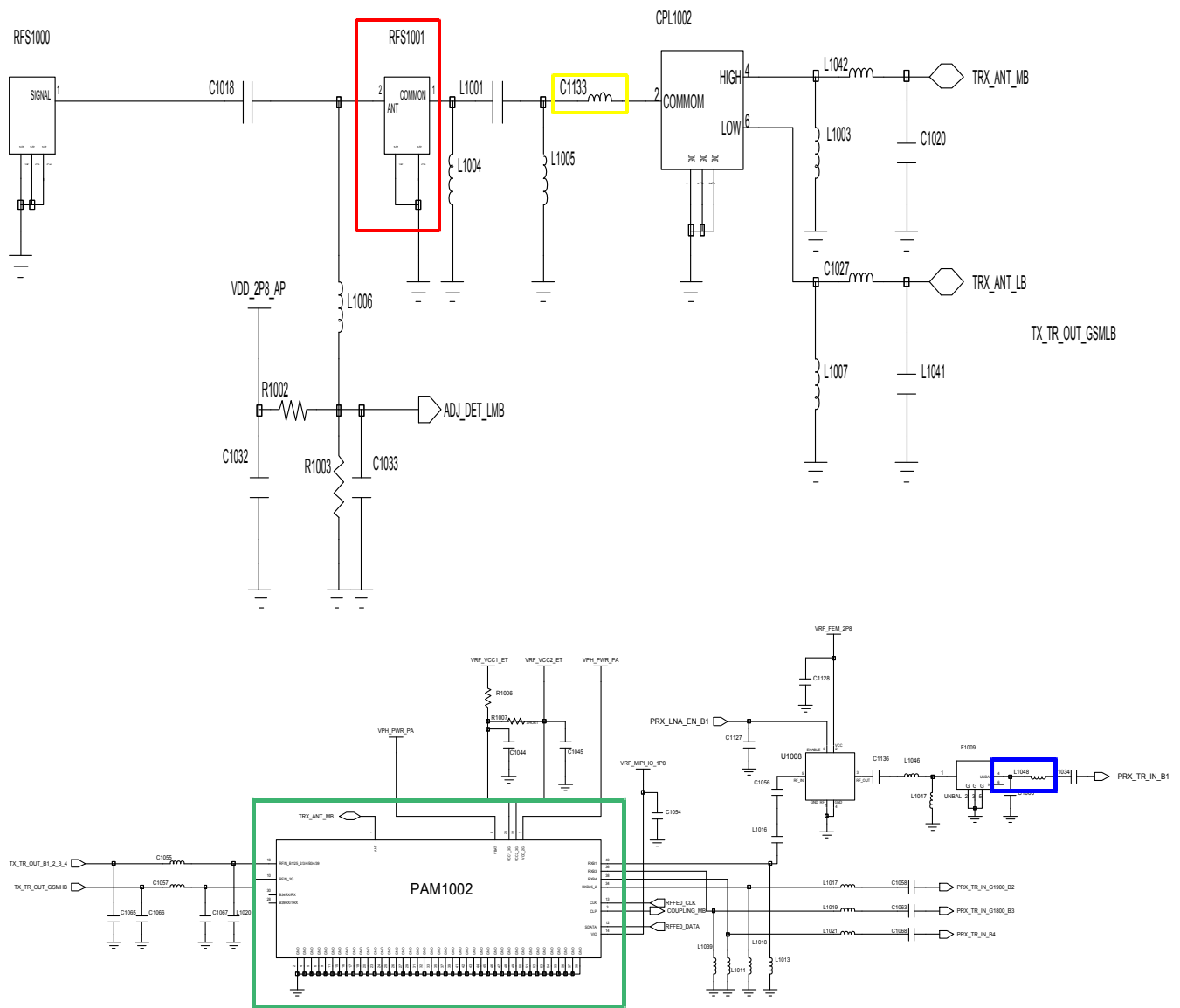


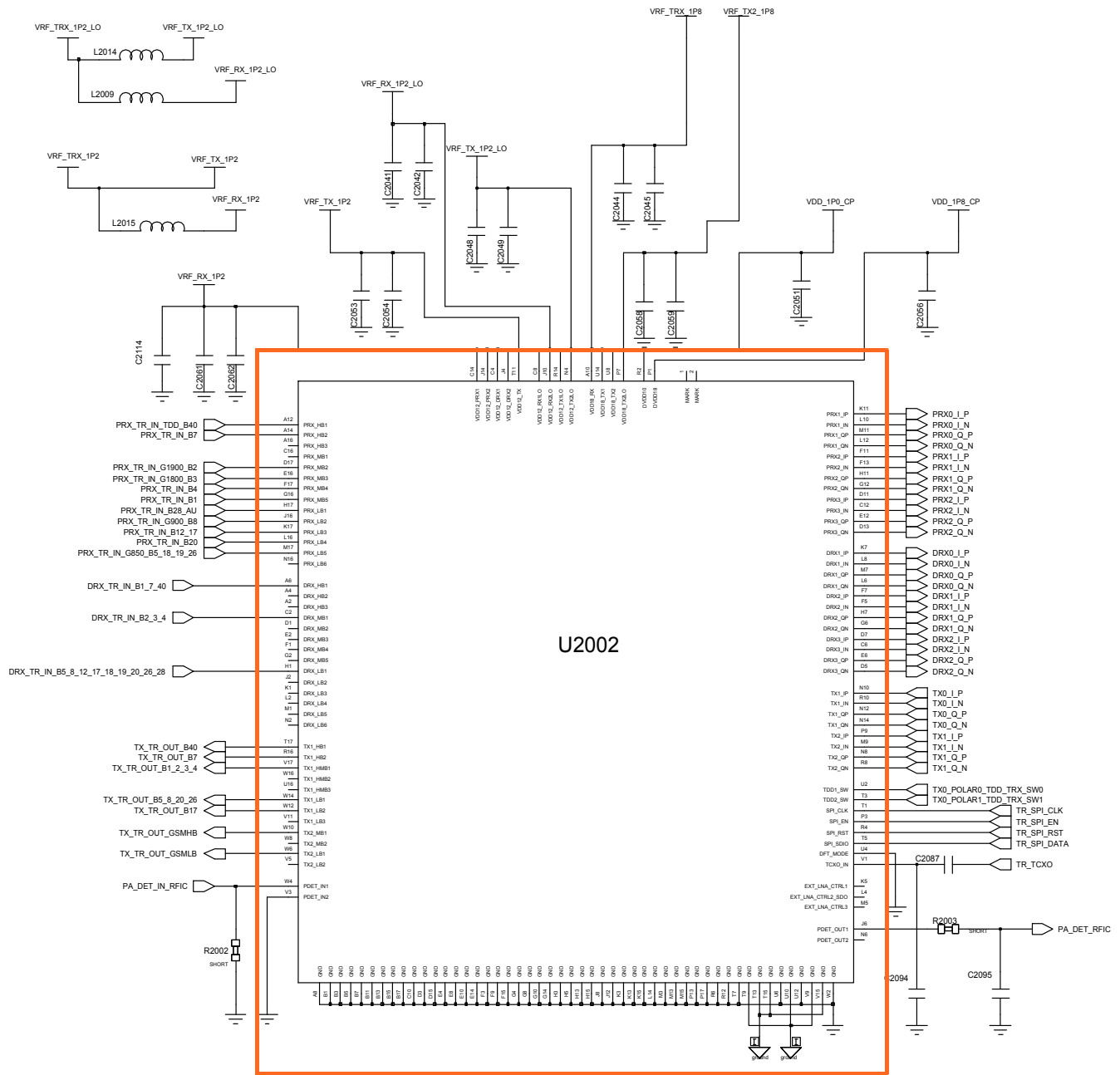


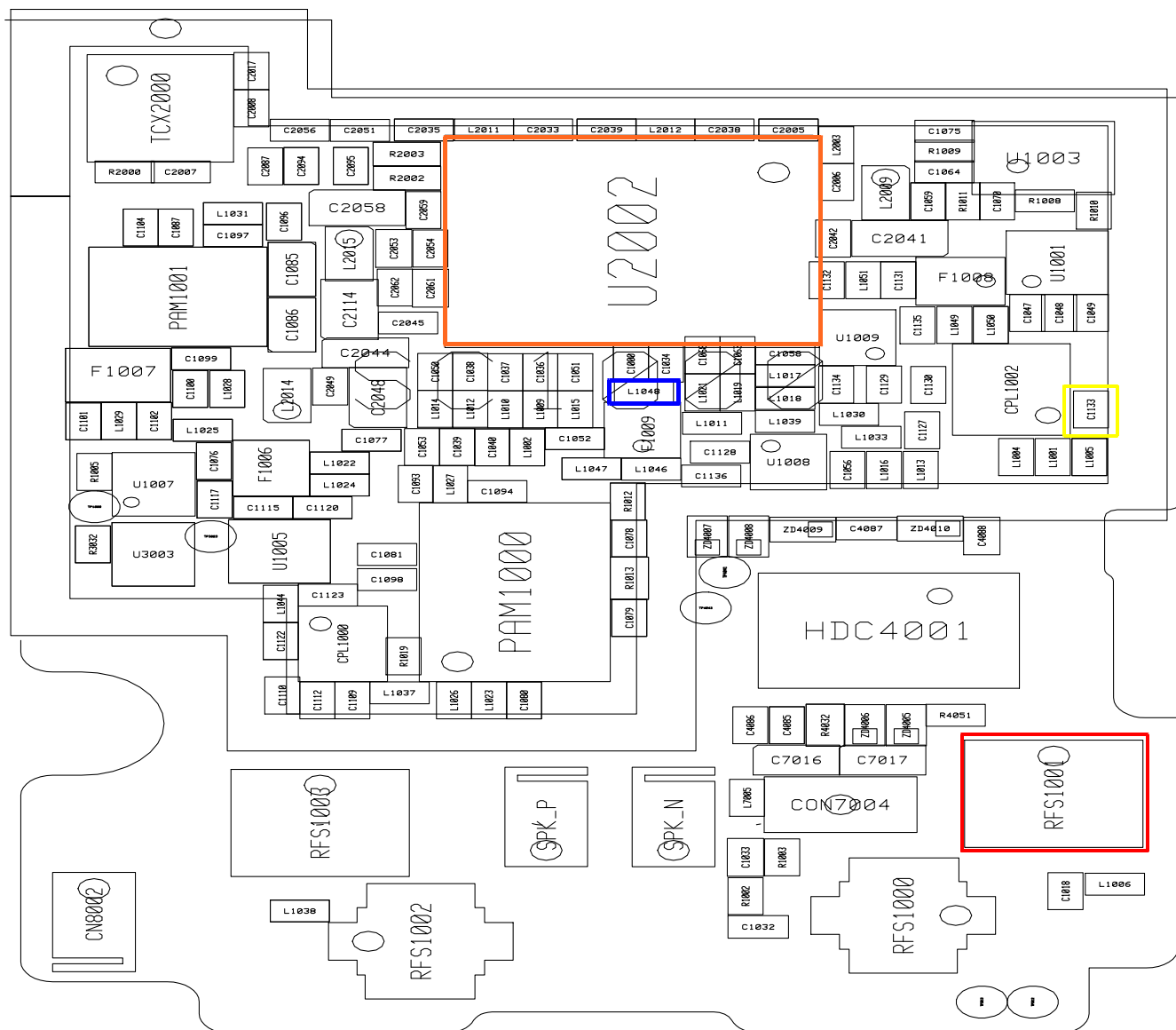
8-3-28. W1 / LTE B1 RX

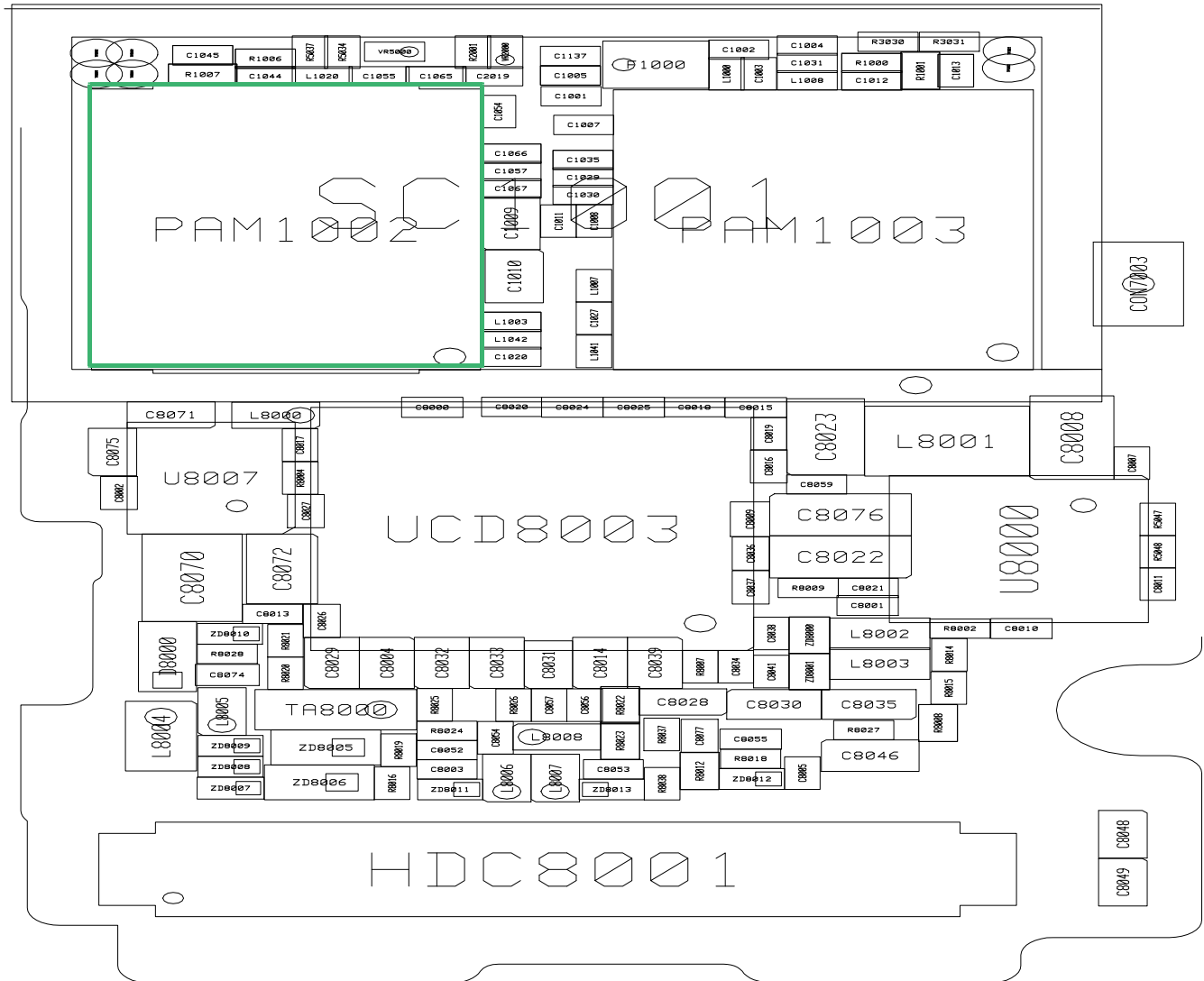
CONTINUOUS RX ON  
RF INPUT : 10700CH, 300CH  
AMP : -50dBm





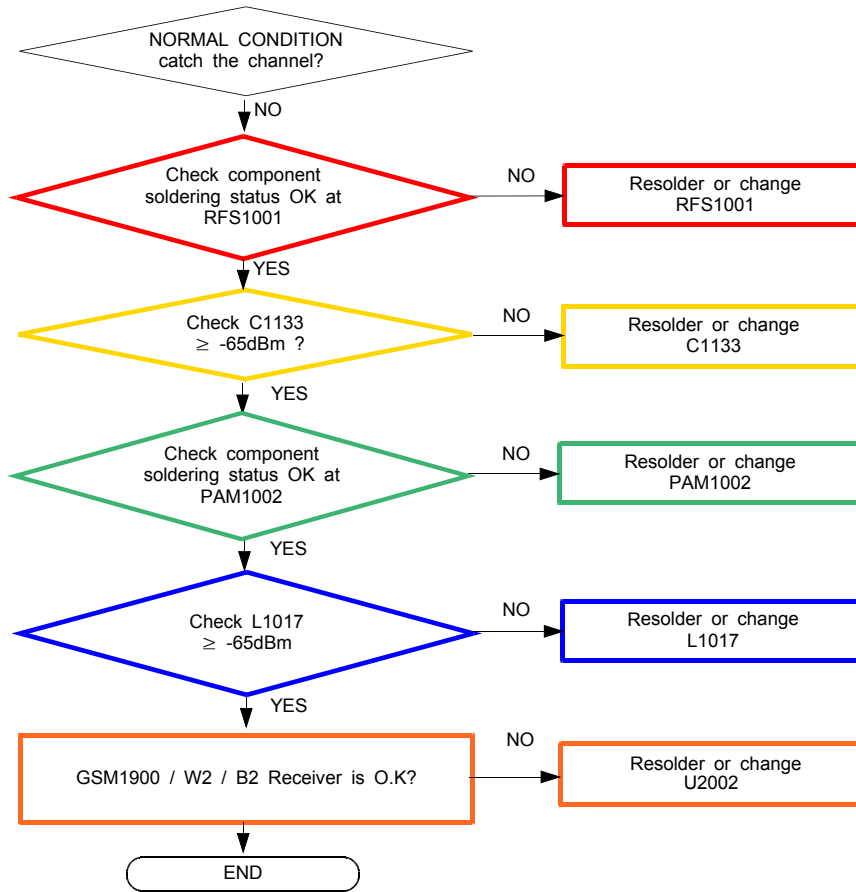




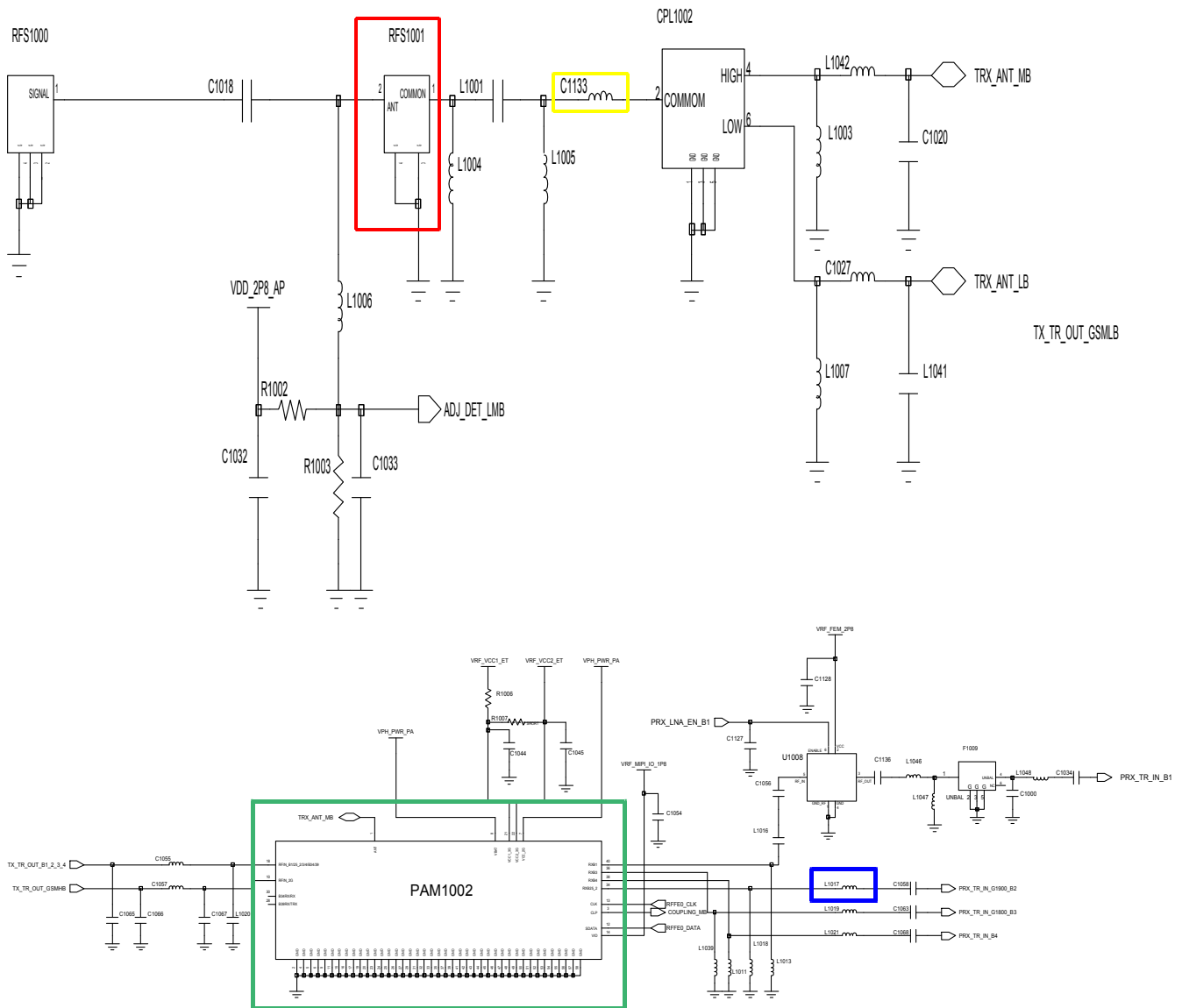


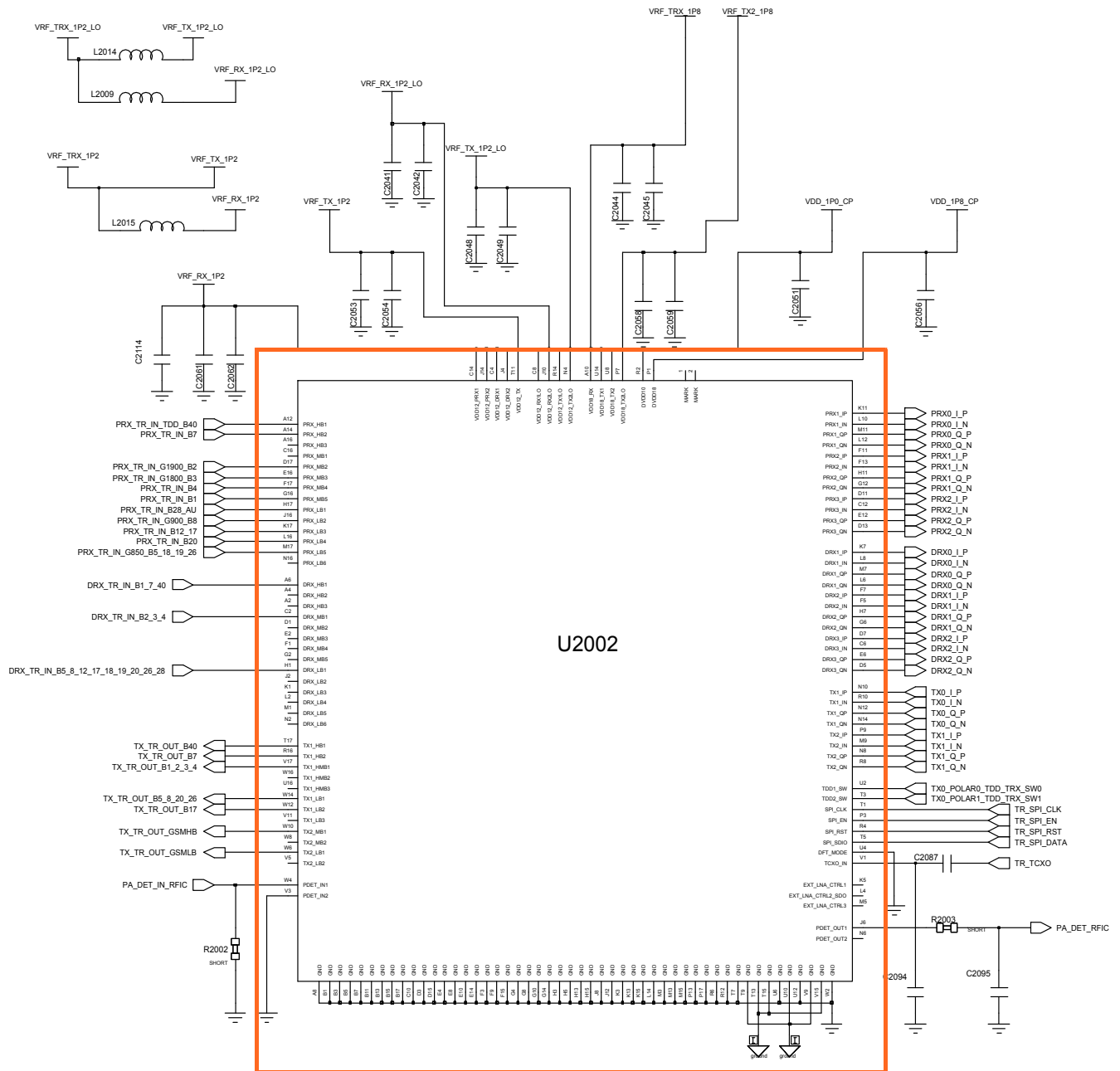
8-3-29. GSM1900 / W2 / LTE B2 RX

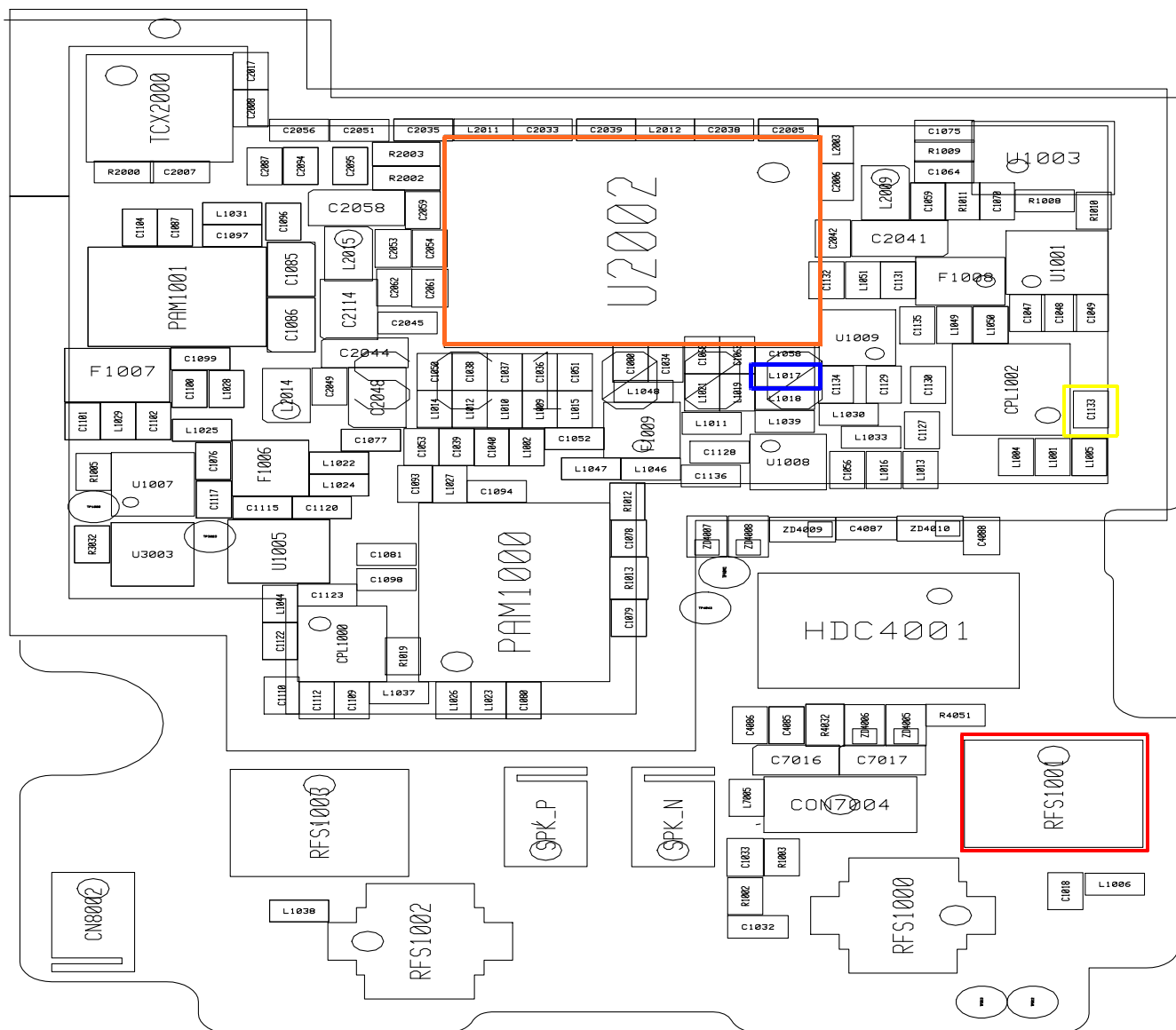
CONTINUOUS RX ON  
 RF INPUT : 661CH, 9800CH,  
 900CH  
 AMP : -50dBm

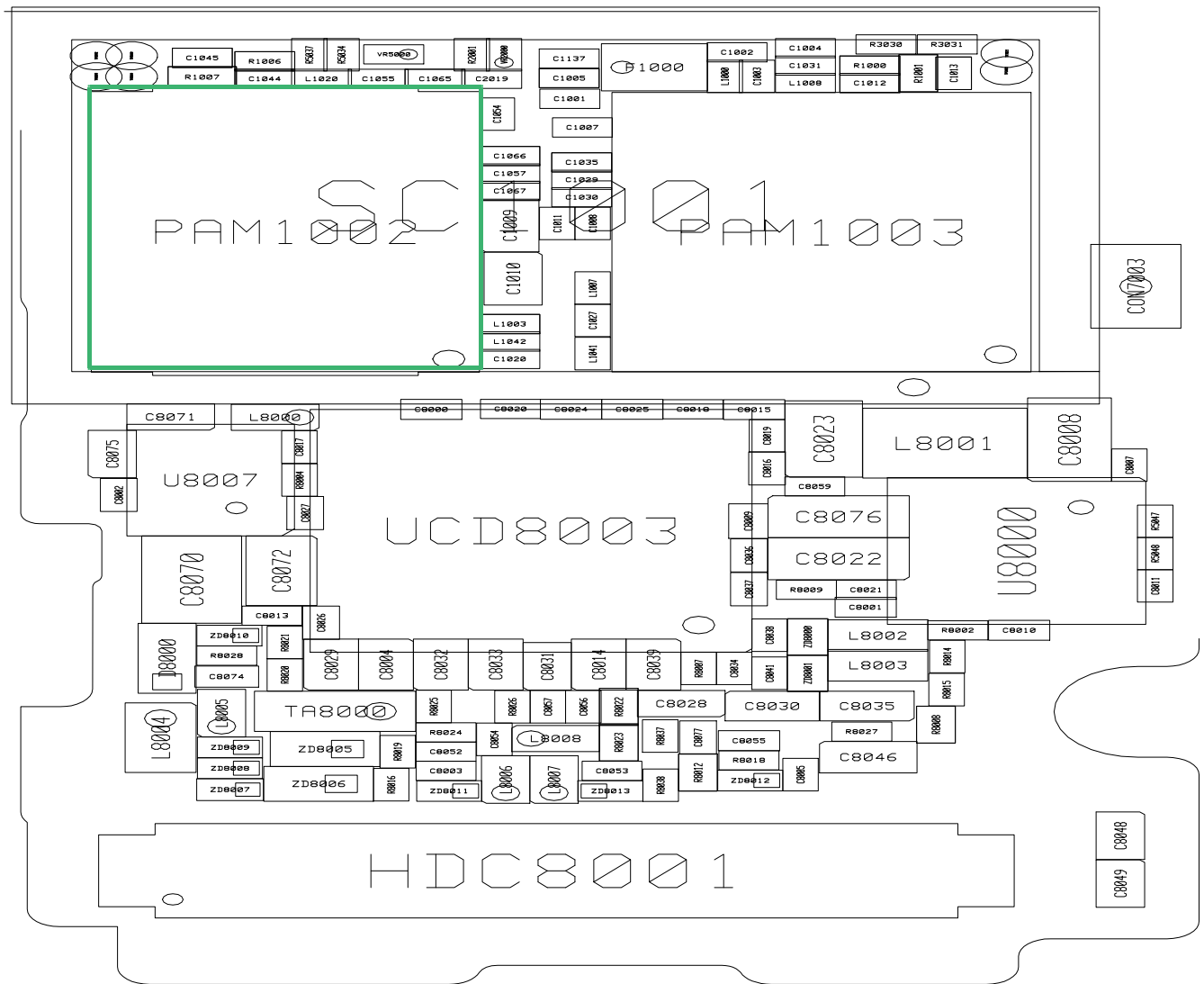






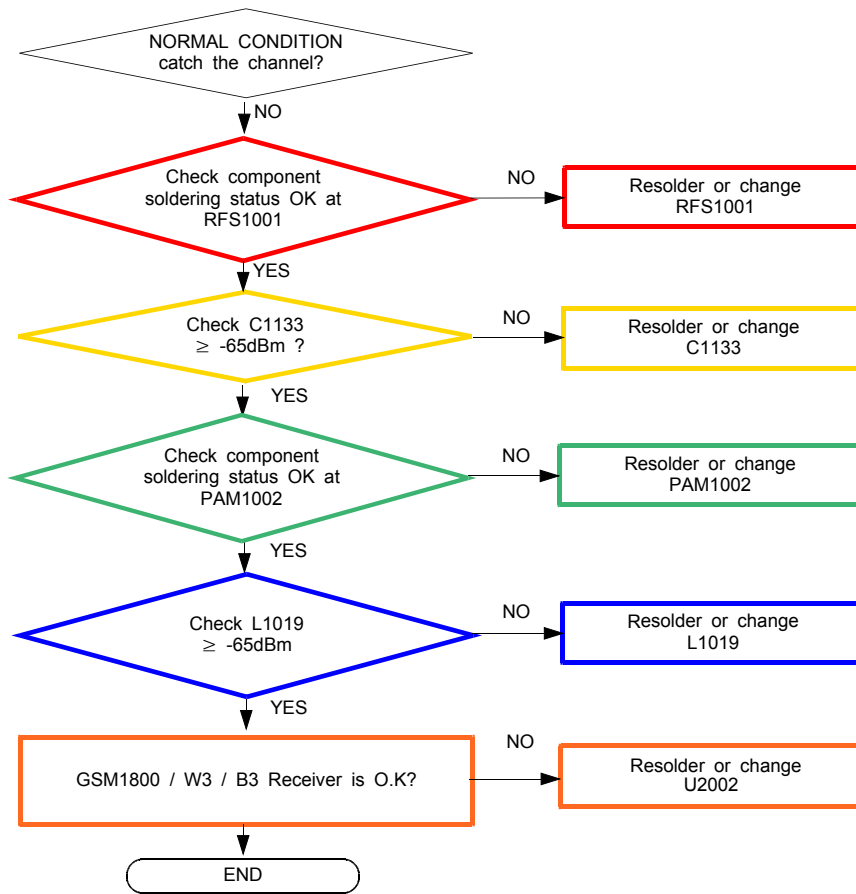


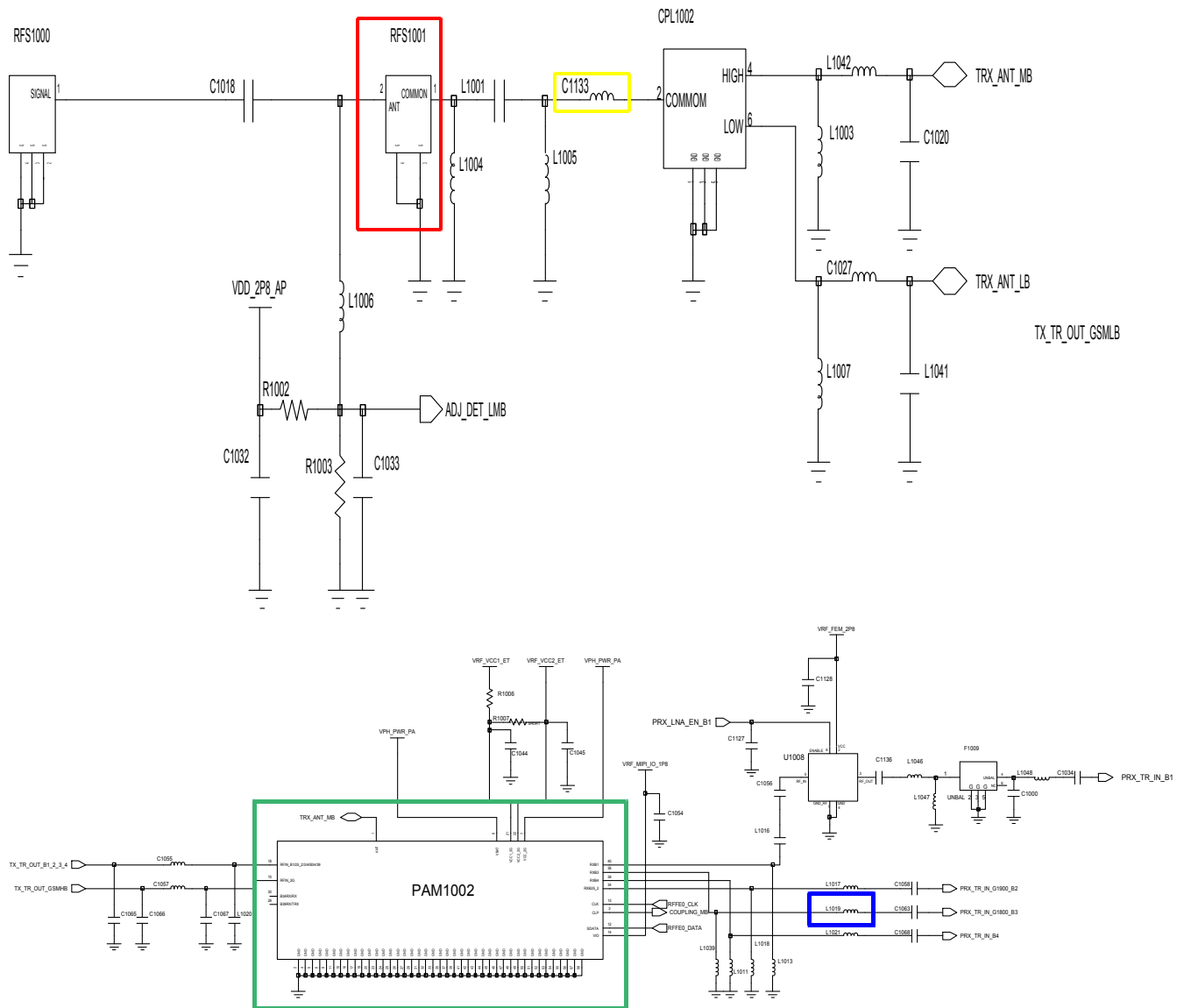


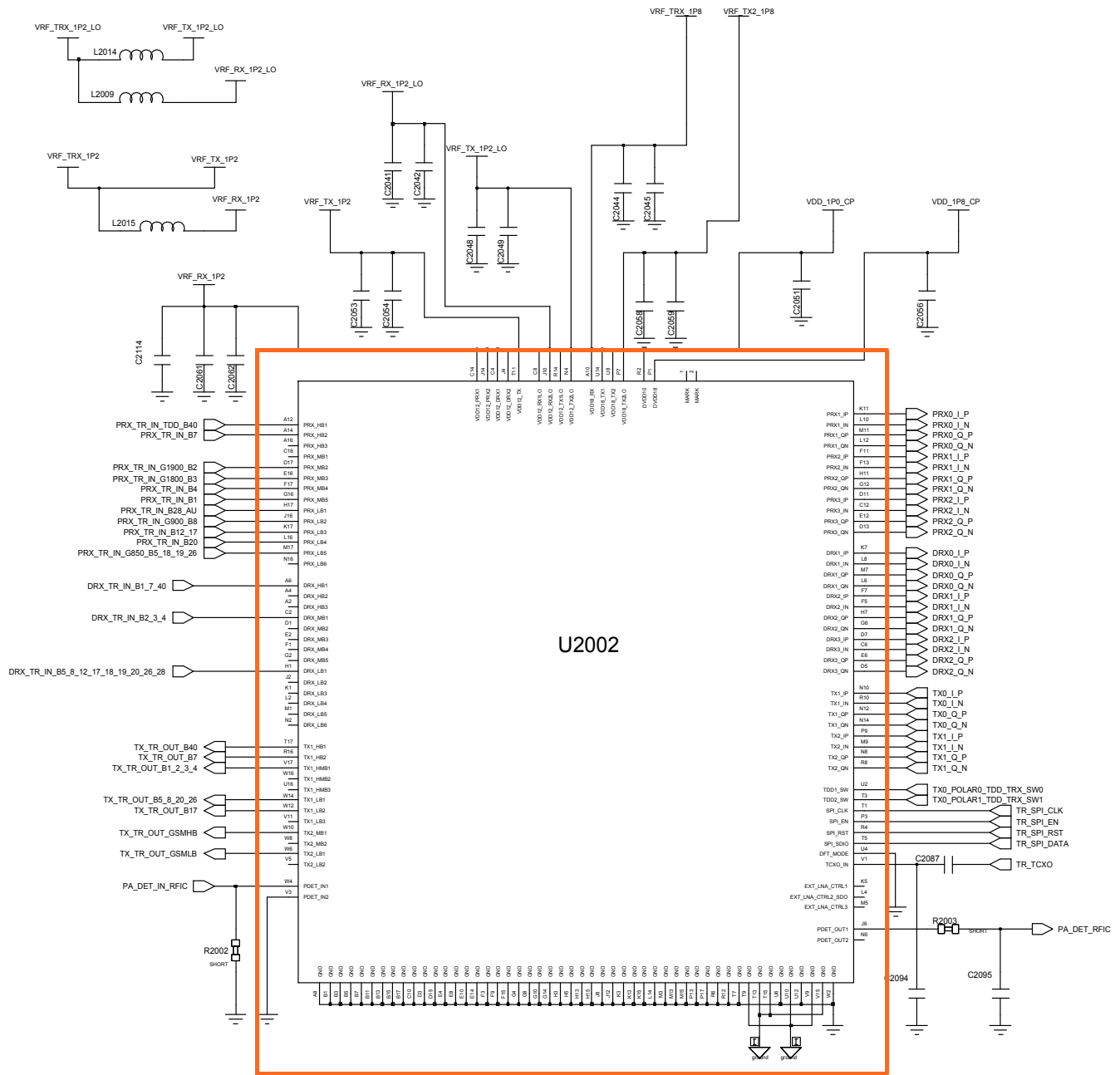


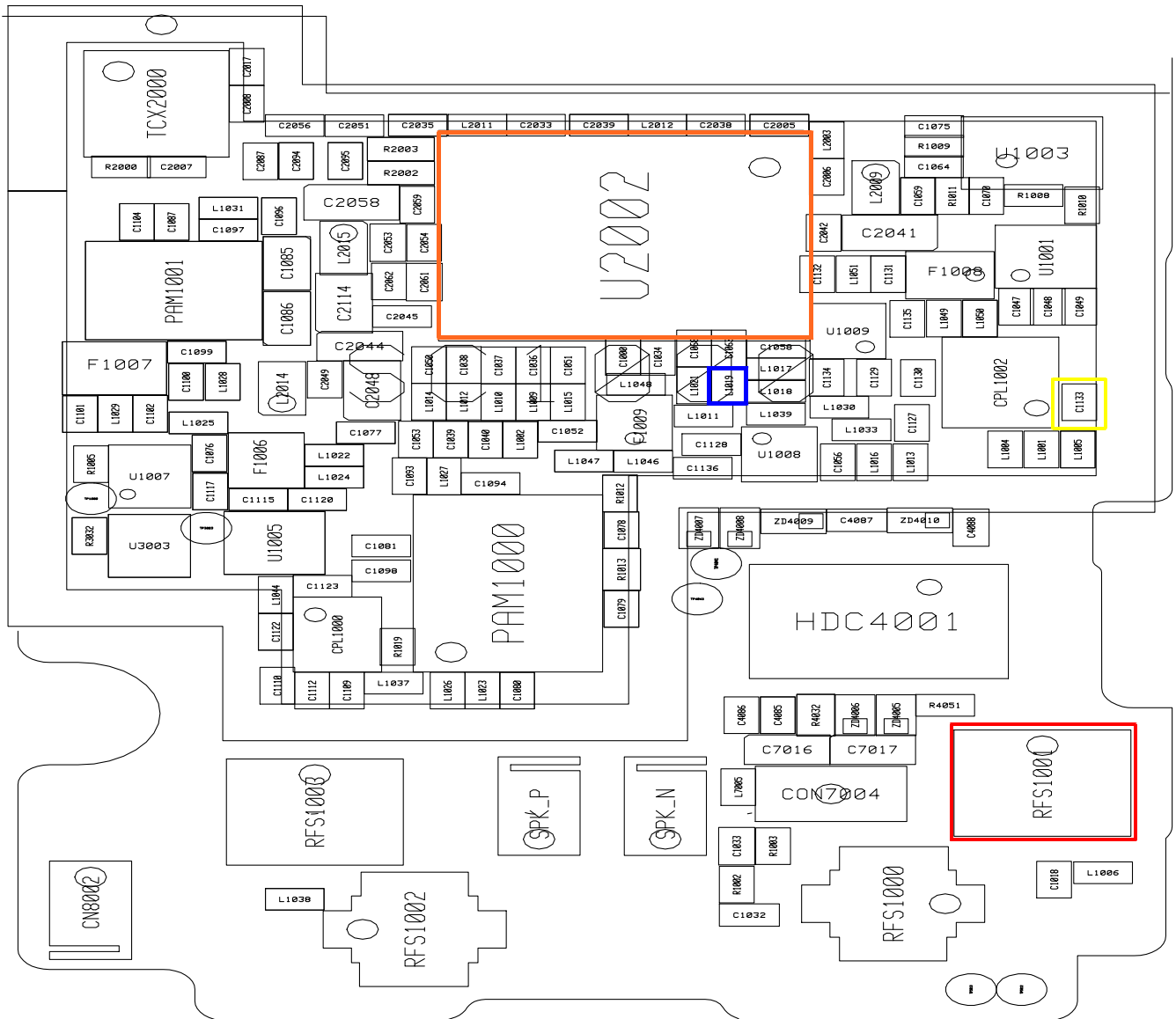
8-3-30. GSM1800 / W3 / LTE B3 RX

CONTINUOUS RX ON  
RF INPUT : 698CH, 1338CH,  
1575CH  
AMP : -50dBm







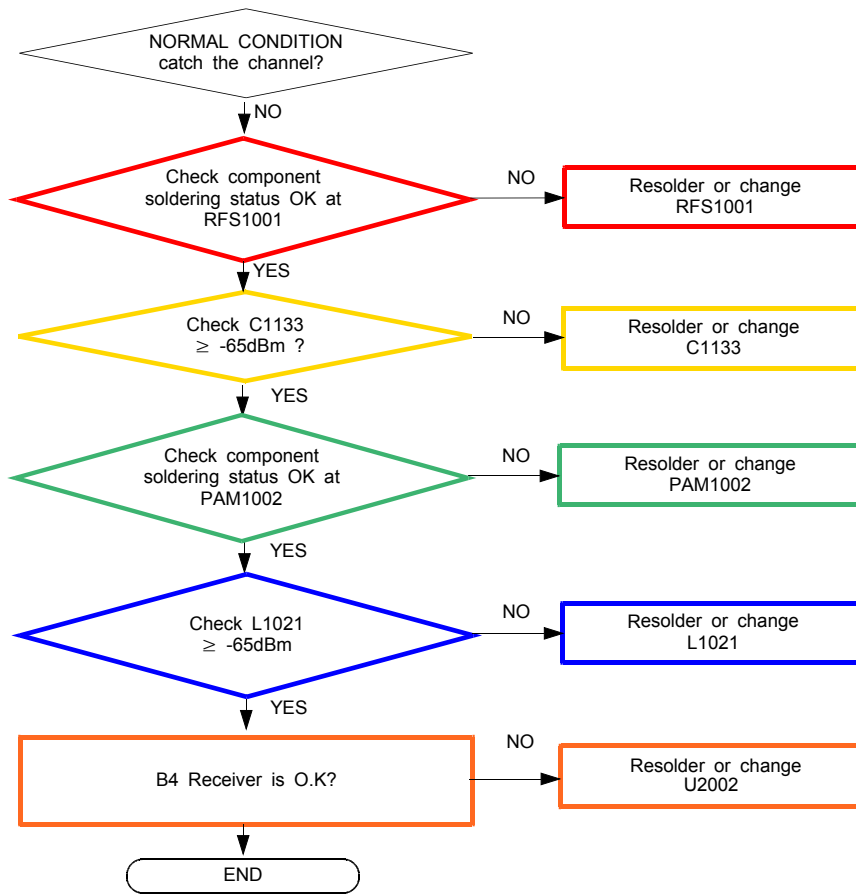


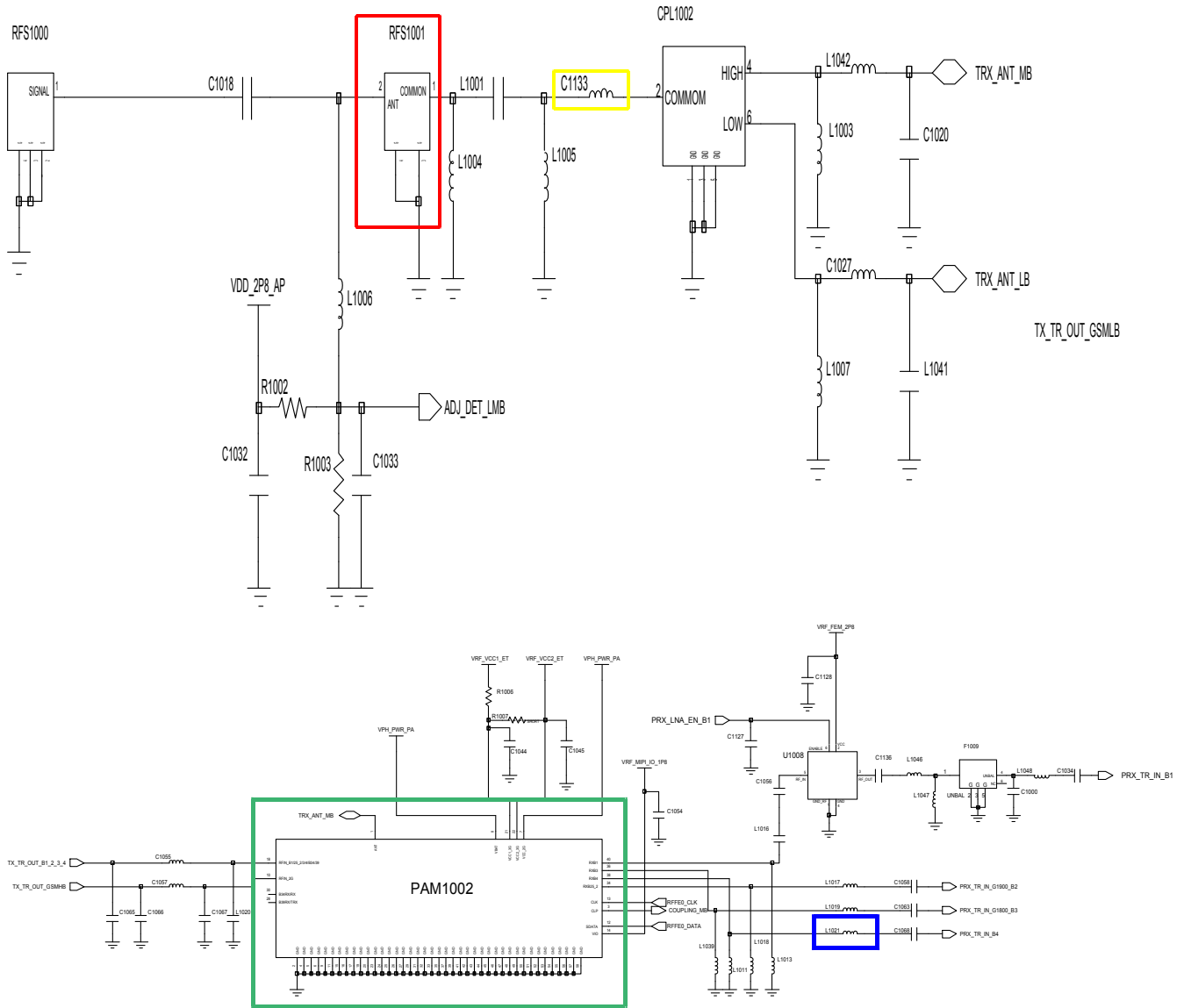


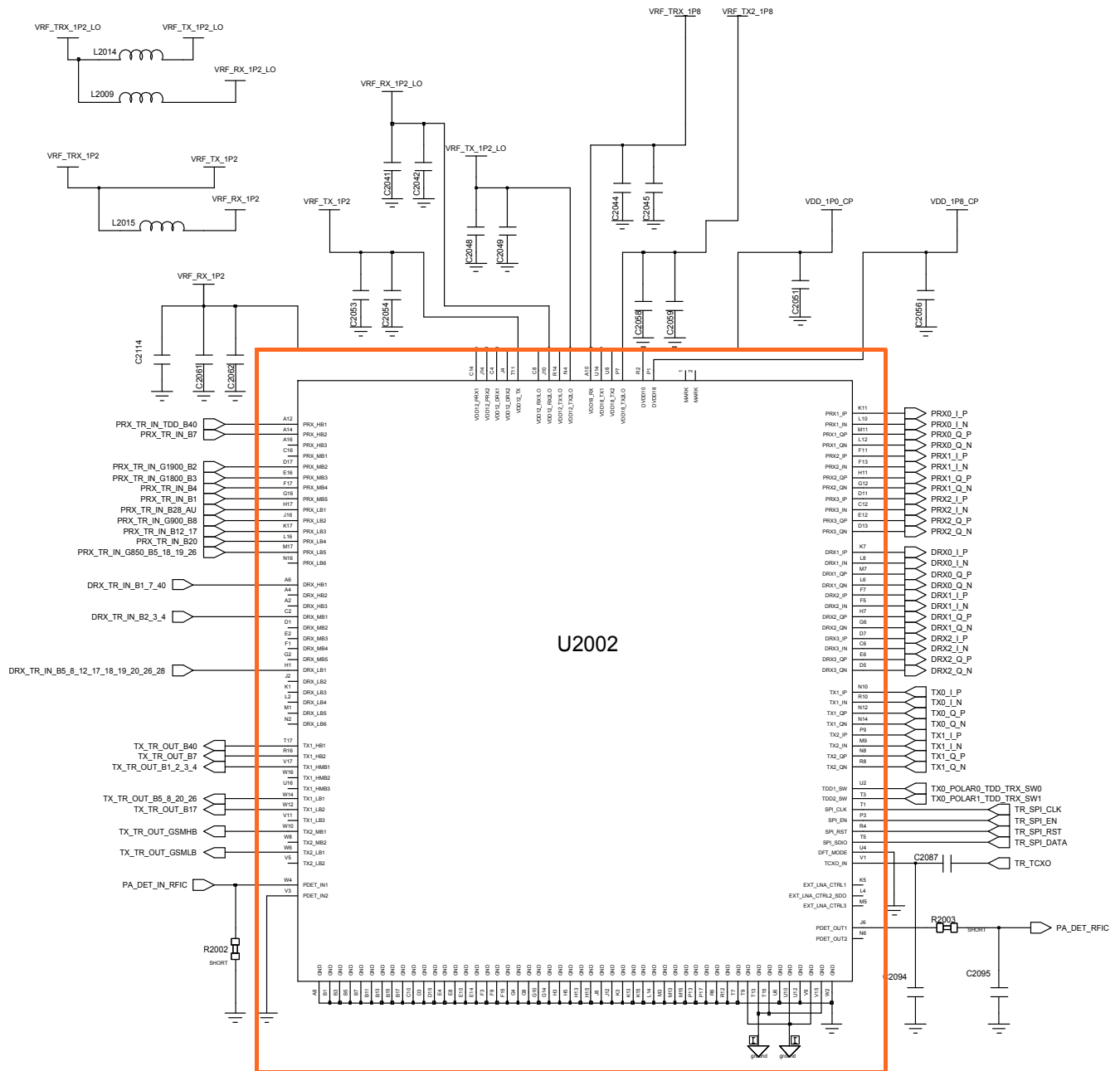


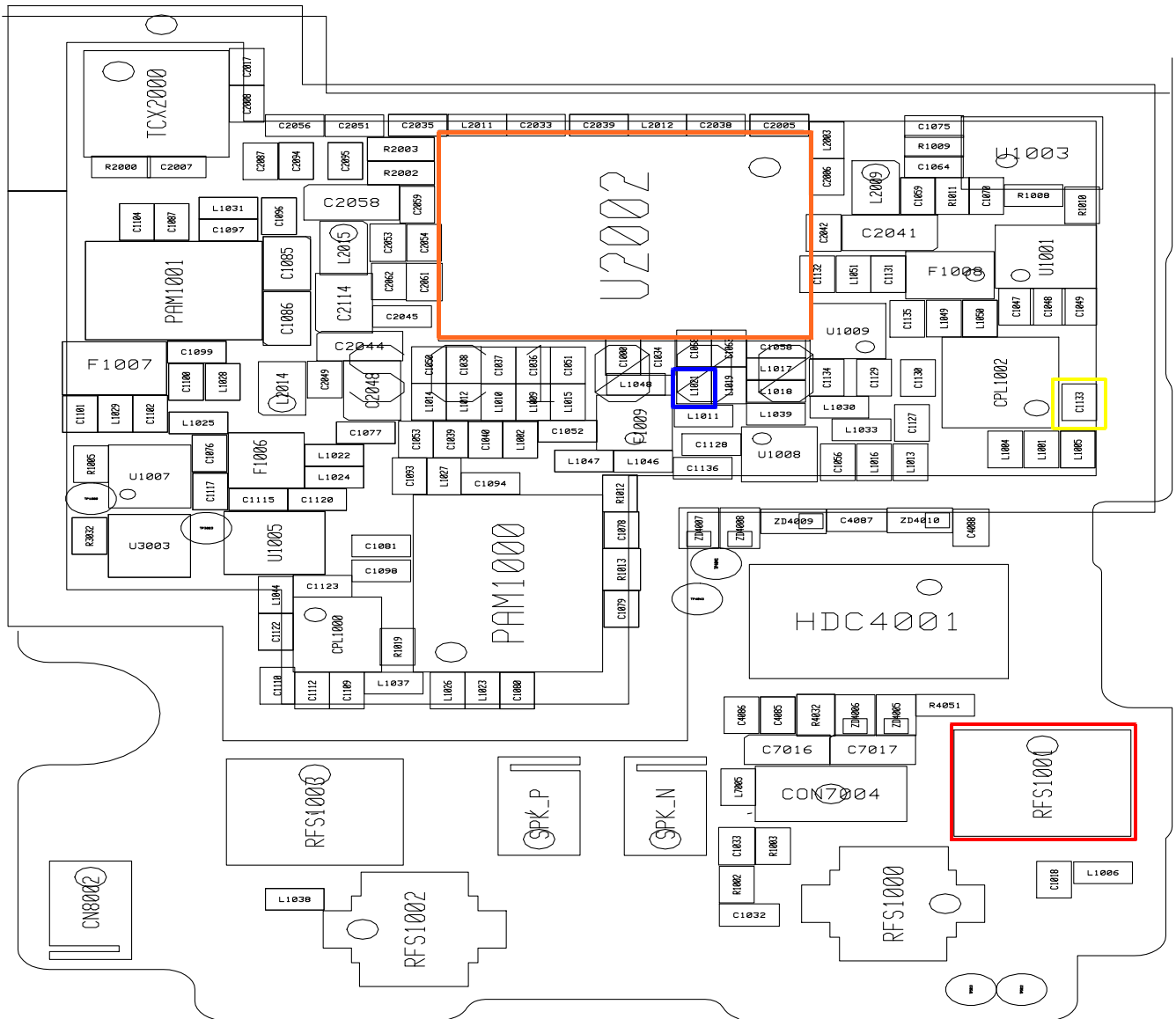
8-3-31. LTE B4 RX

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





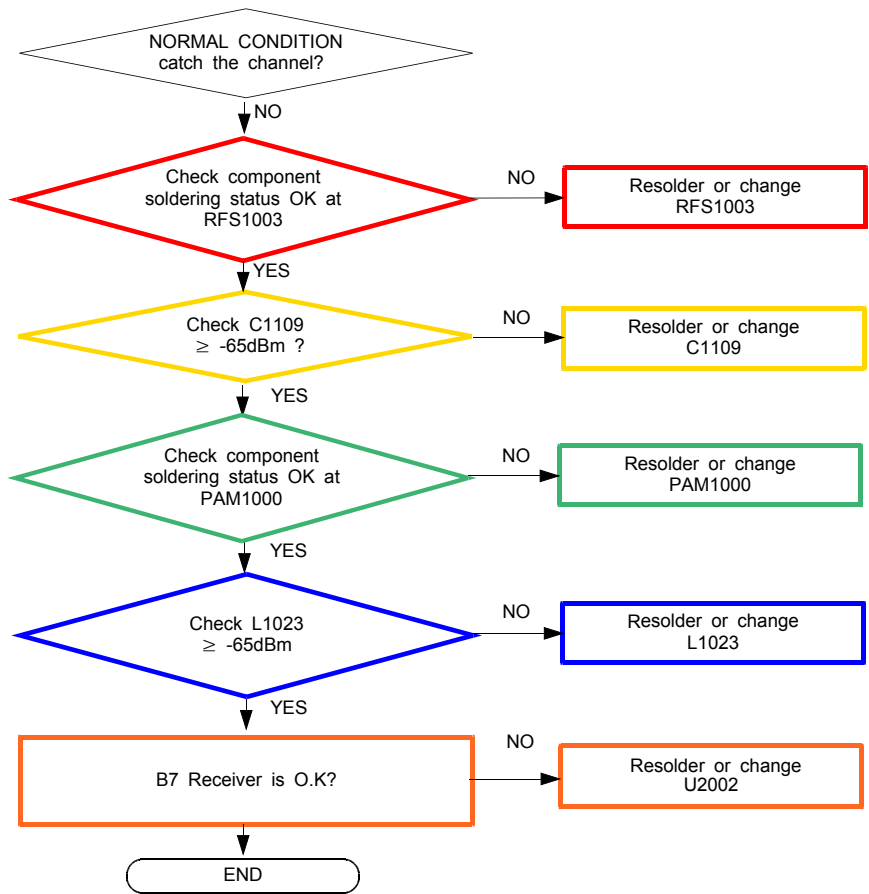


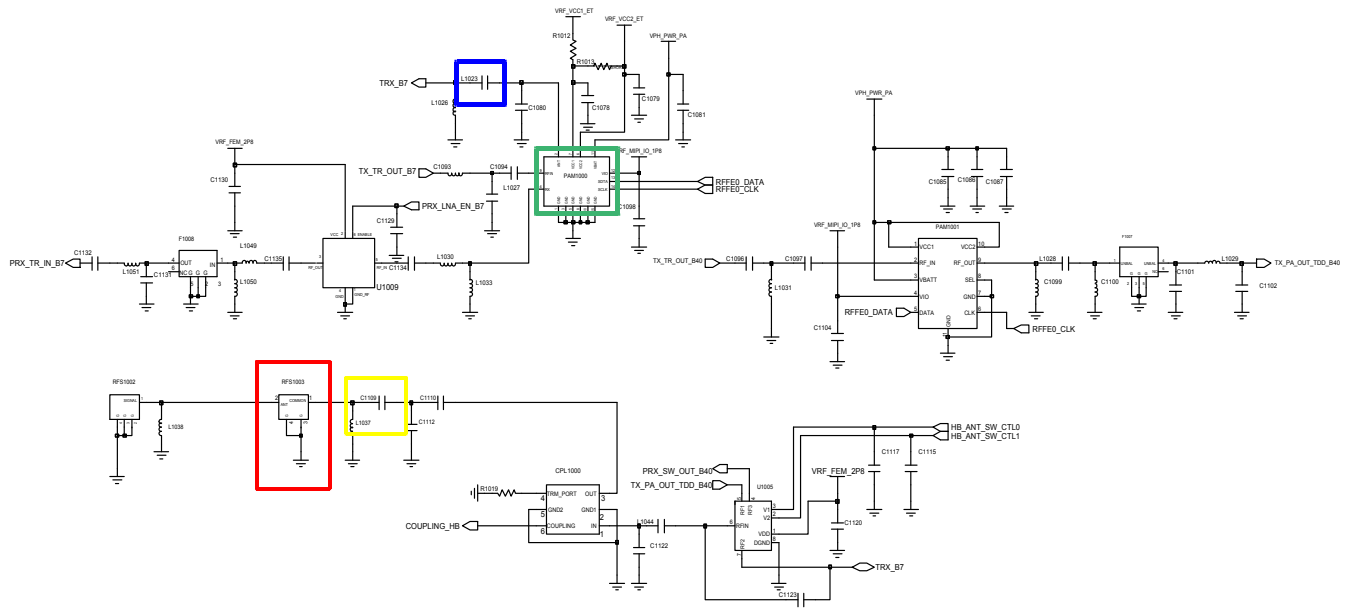




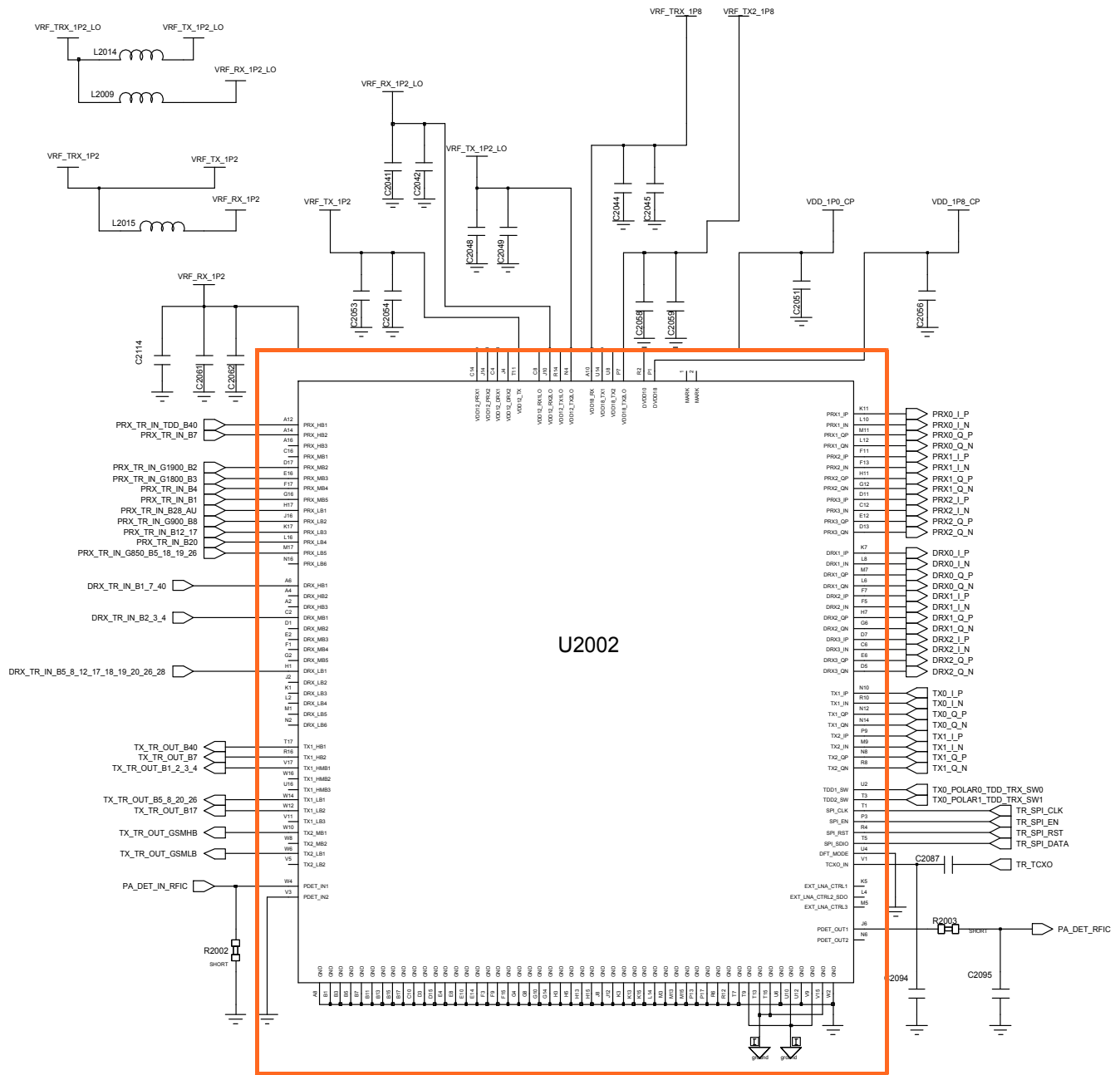
8-3-32. LTE B7 RX

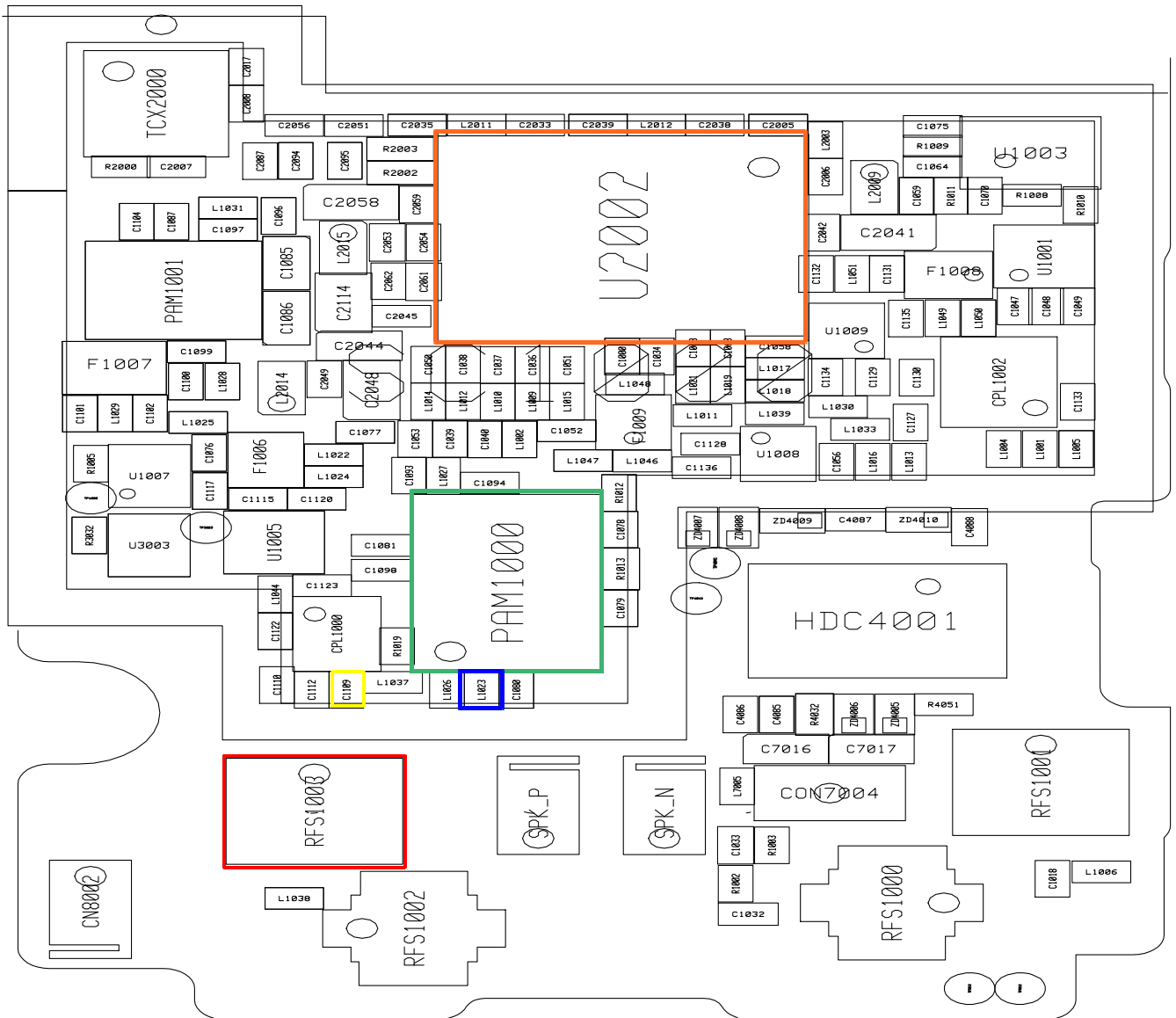
CONTINUOUS RX ON  
RF INPUT : 3100CH  
AMP : -50dBm





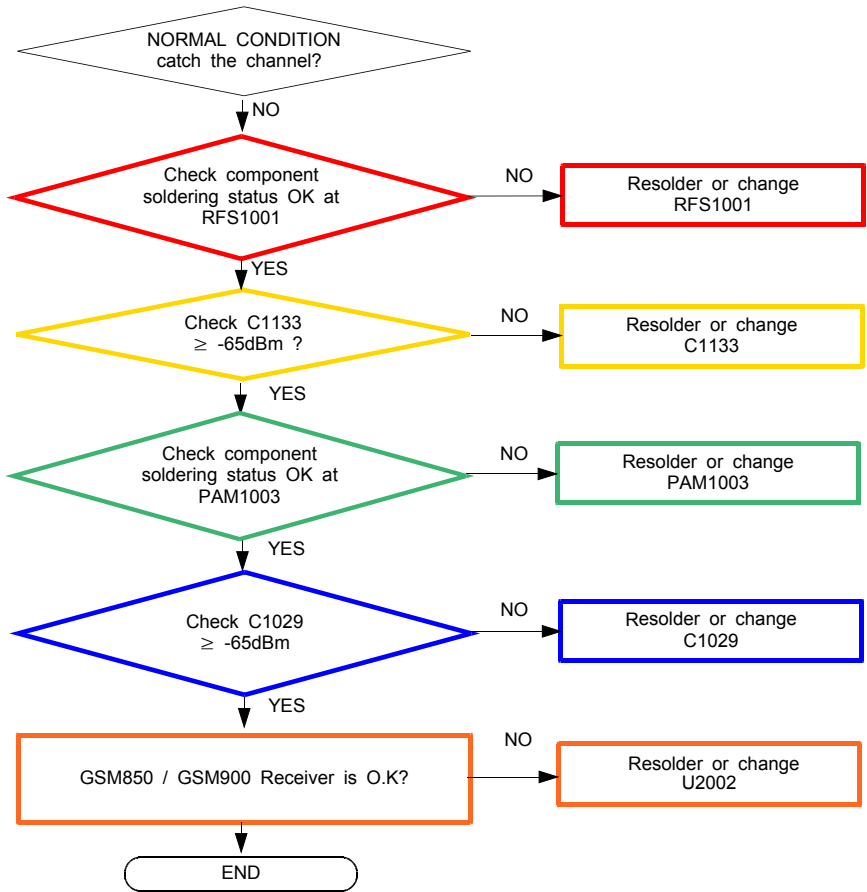


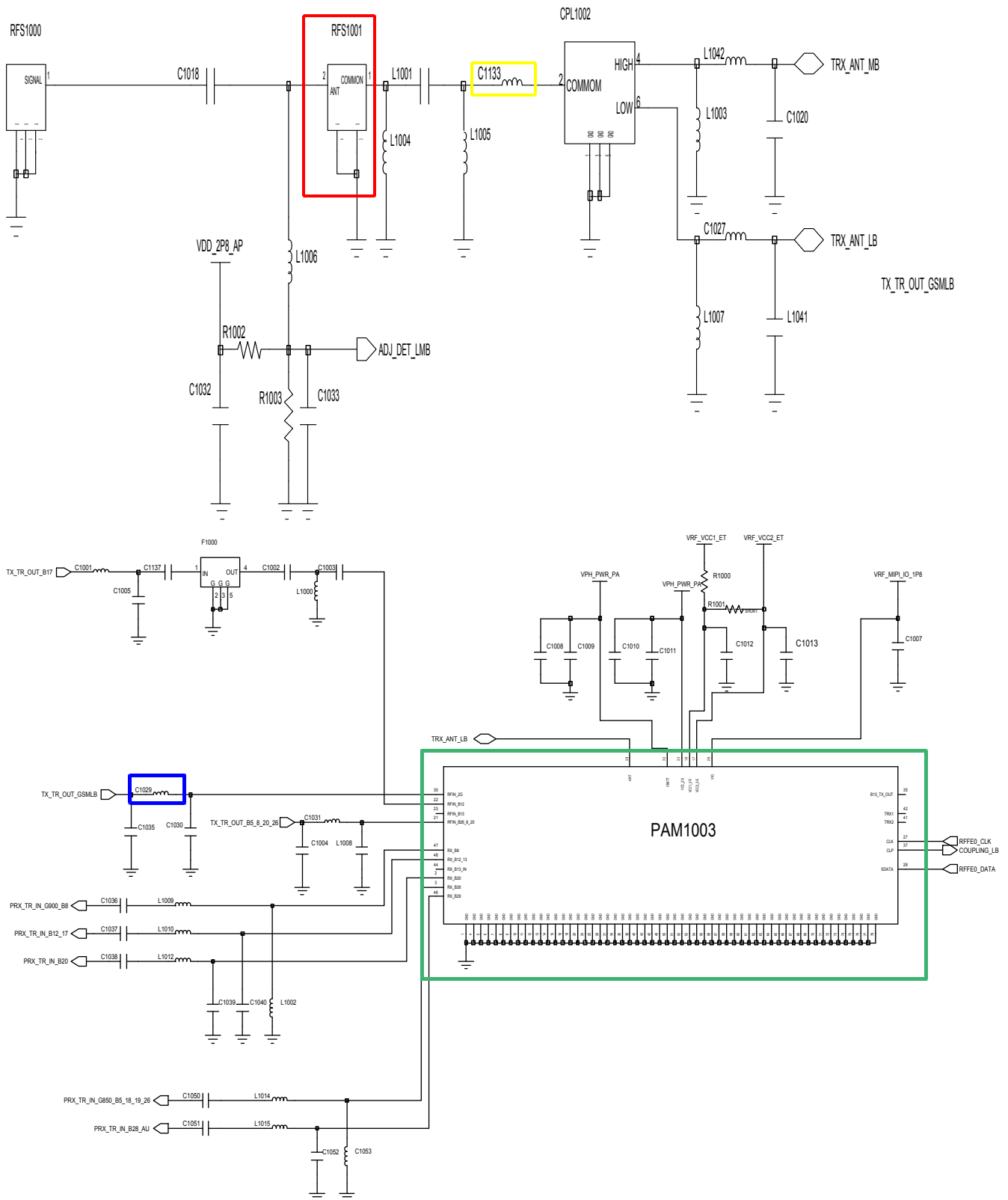


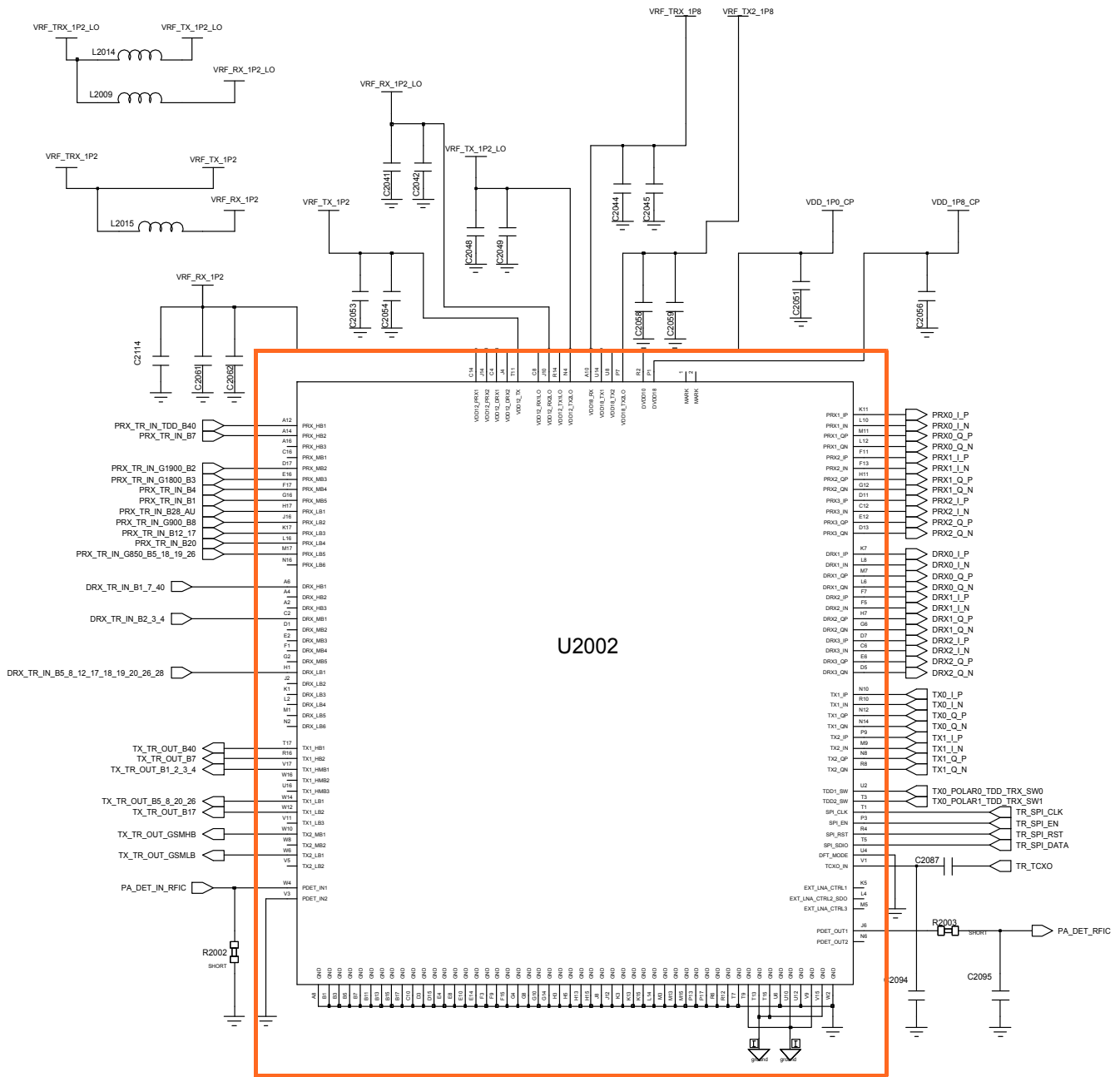


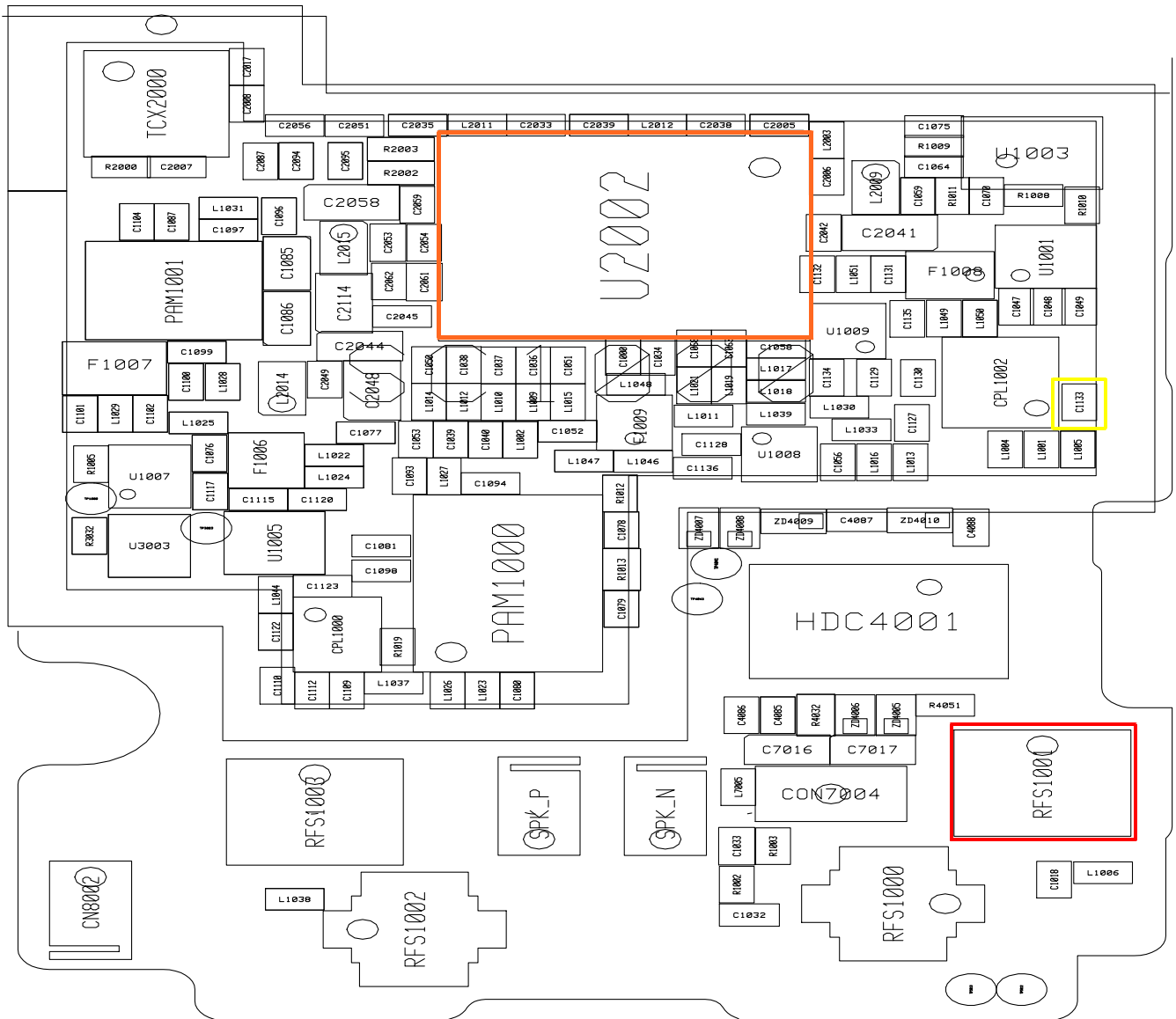
8-3-33. GSM850 / GSM900 TX

CONTINUOUS RX ON  
RF INPUT : 190CH, 37CH  
AMP : -50dBm





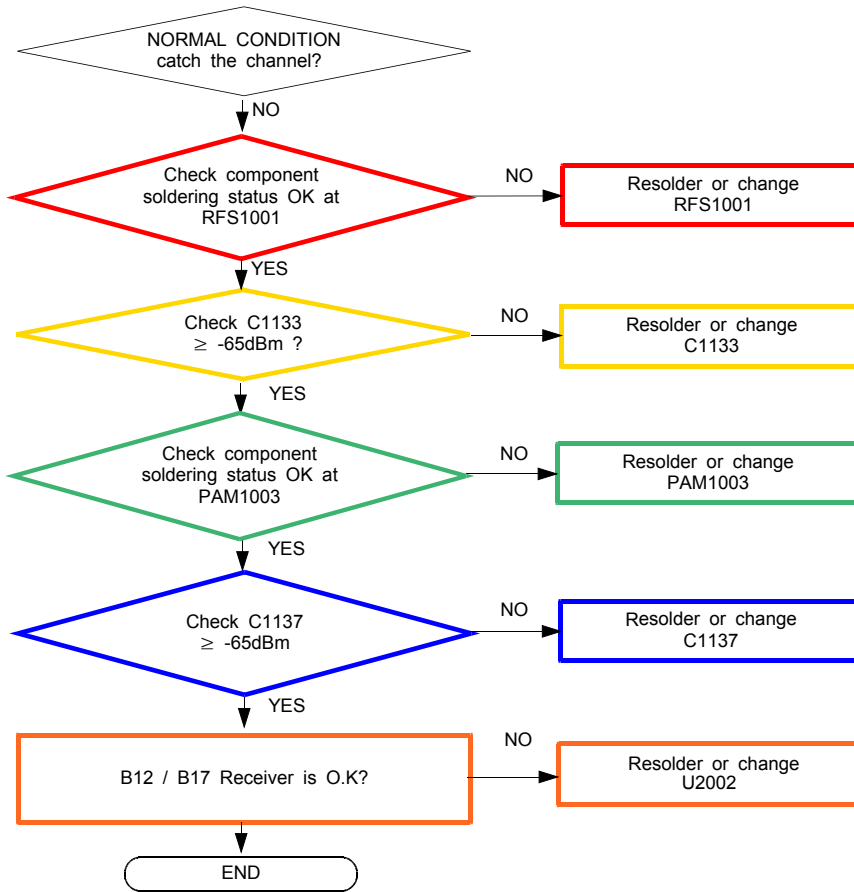




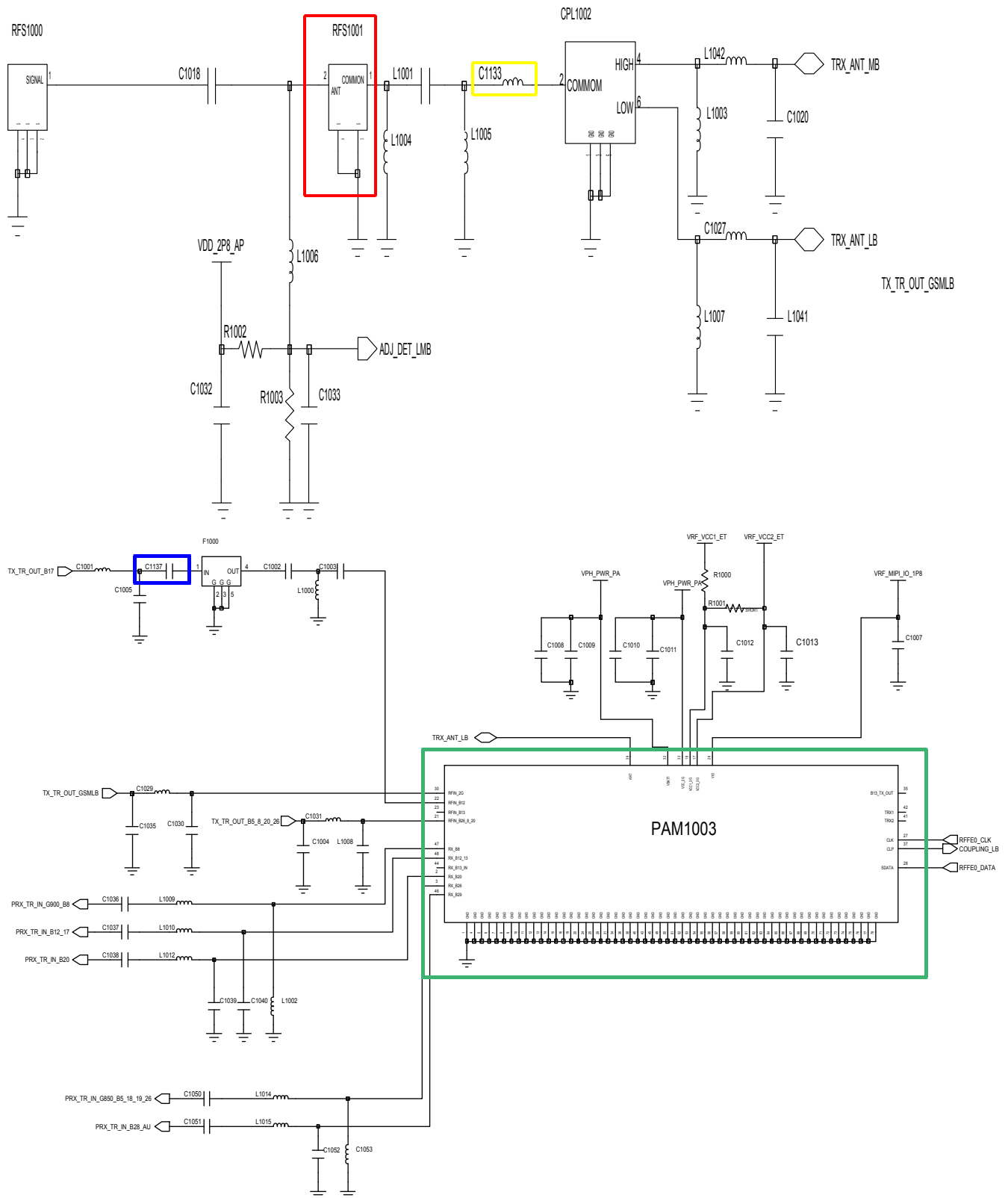


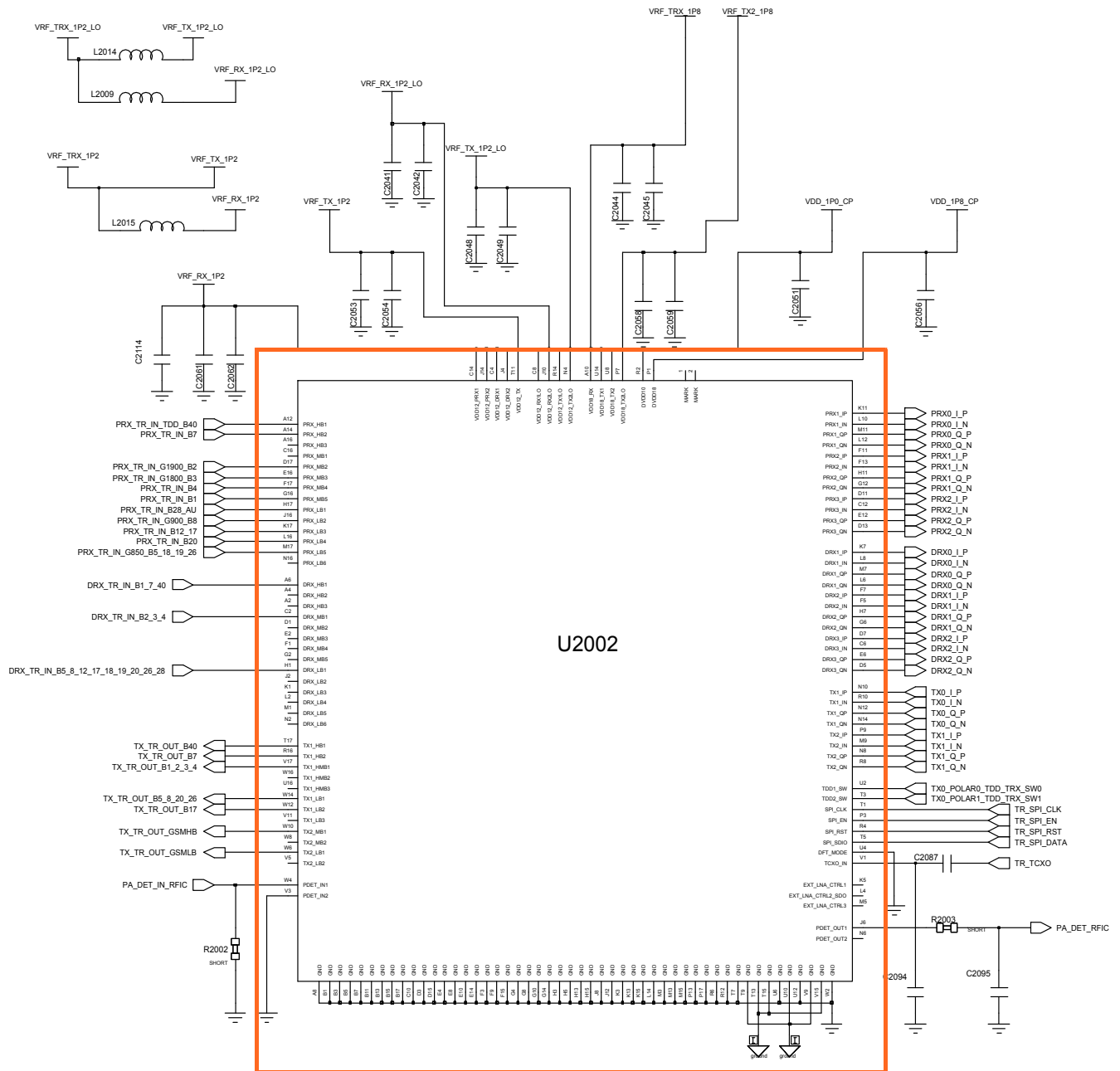
8-3-34. LTE B12 / LTE B17 TX

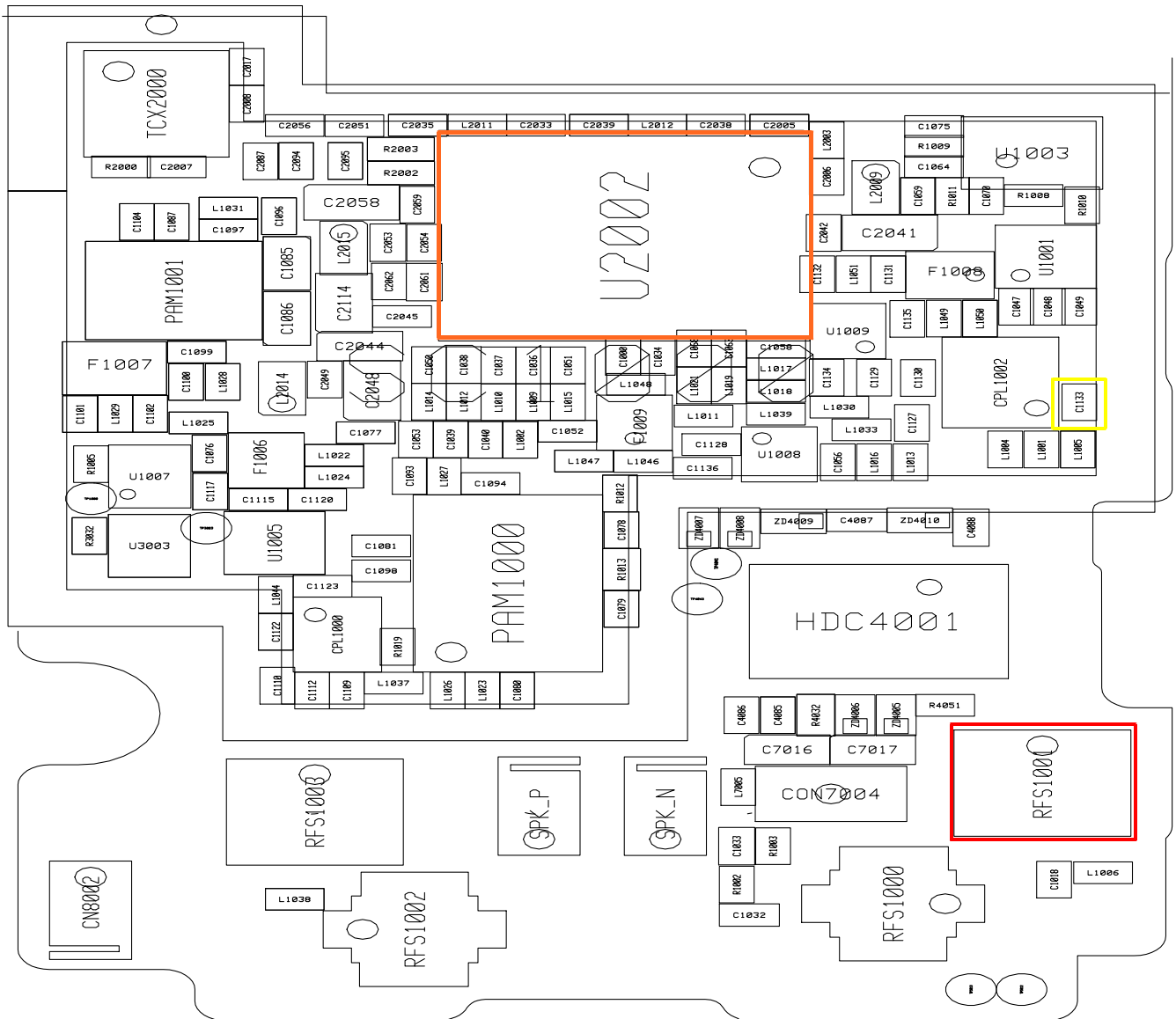
CONTINUOUS RX ON  
 RF INPUT : 23095CH, 23790CH  
 AMP : -50dBm

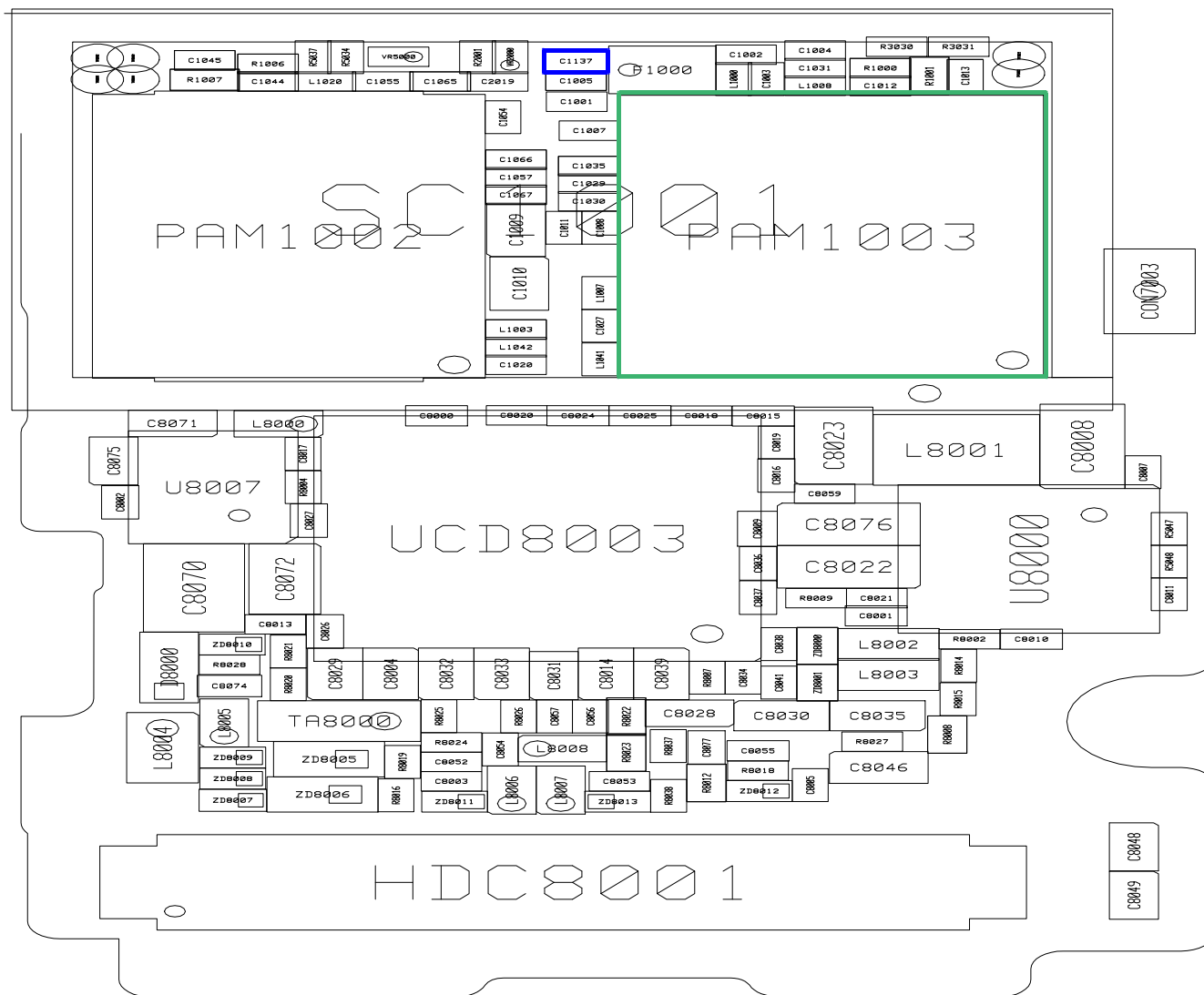






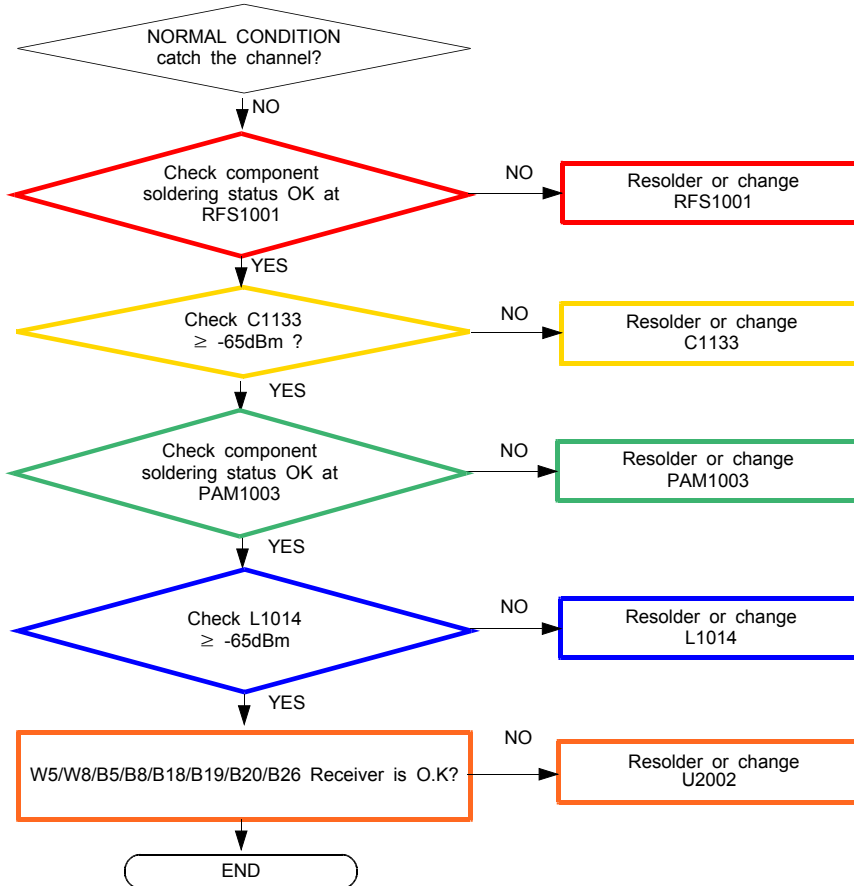


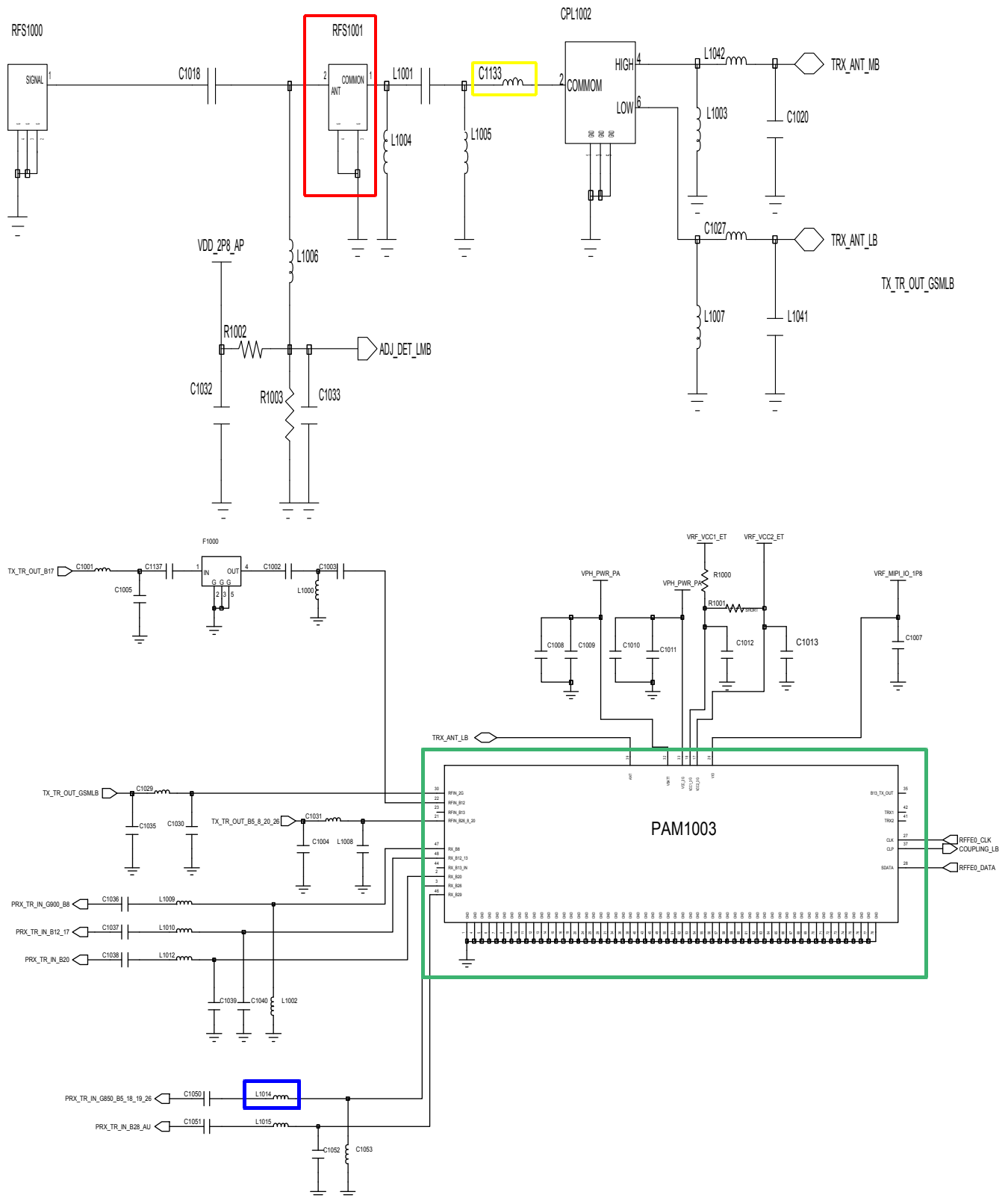


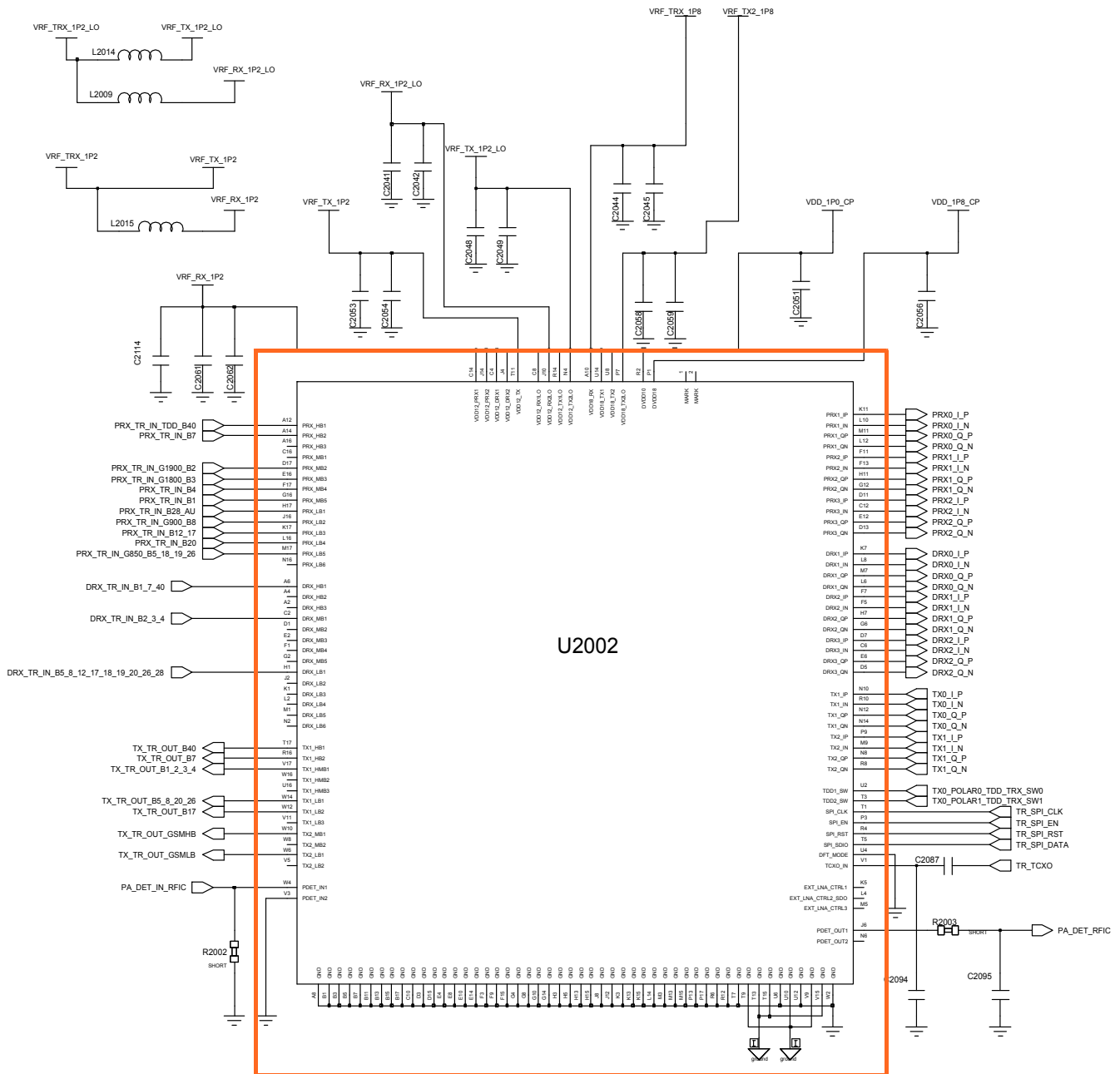


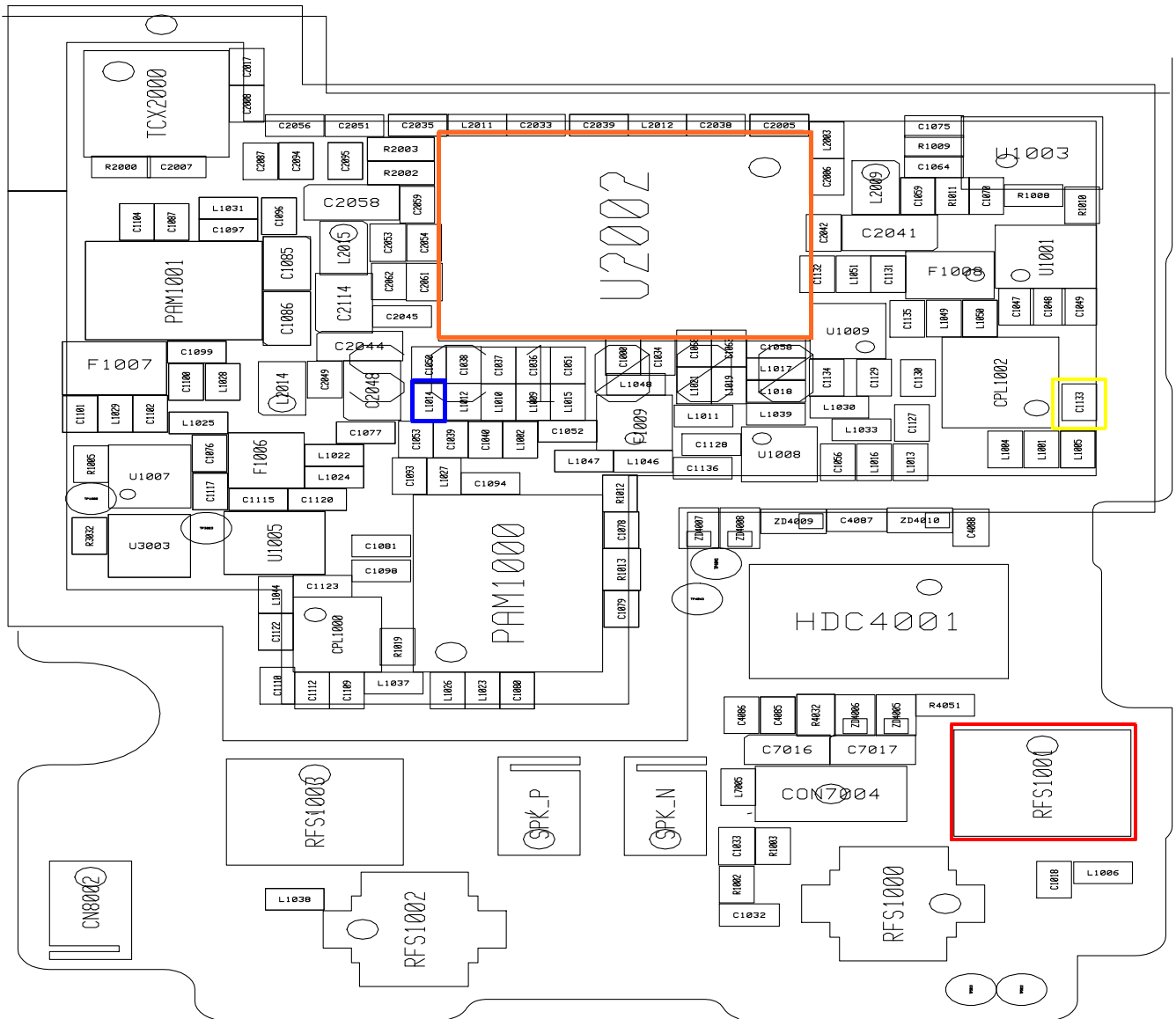
8-3-35. W5 / W8 / LTE B5 / LTE B8 / LTE B18 / LTE B19  
LTE B20 / LTE B26 TX

CONTINUOUS RX ON  
RF INPUT : 4175CH, 2788CH  
20525CH, 21625CH, 23925CH,  
24075CH, 24300CH  
AMP : -50dBm

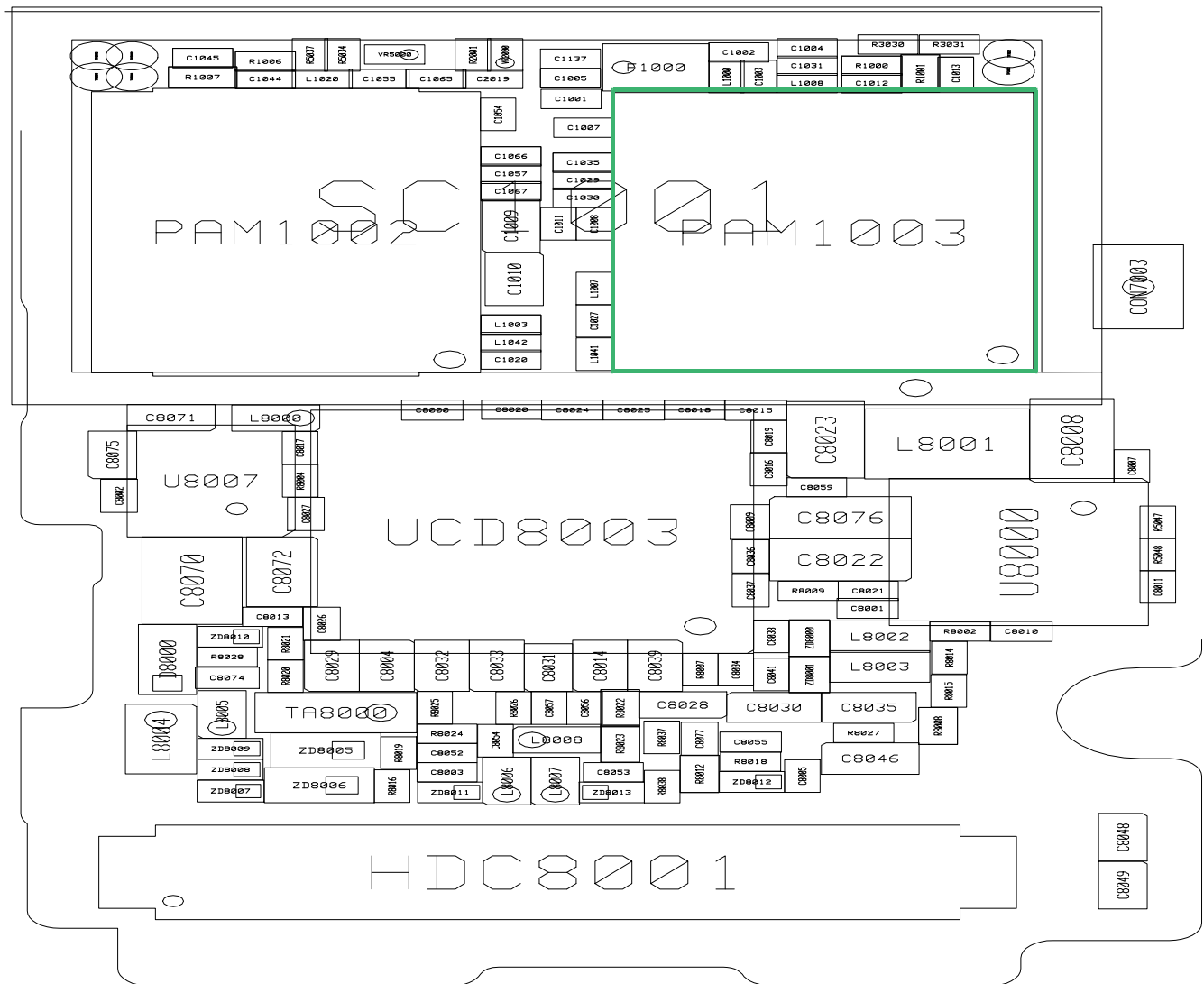






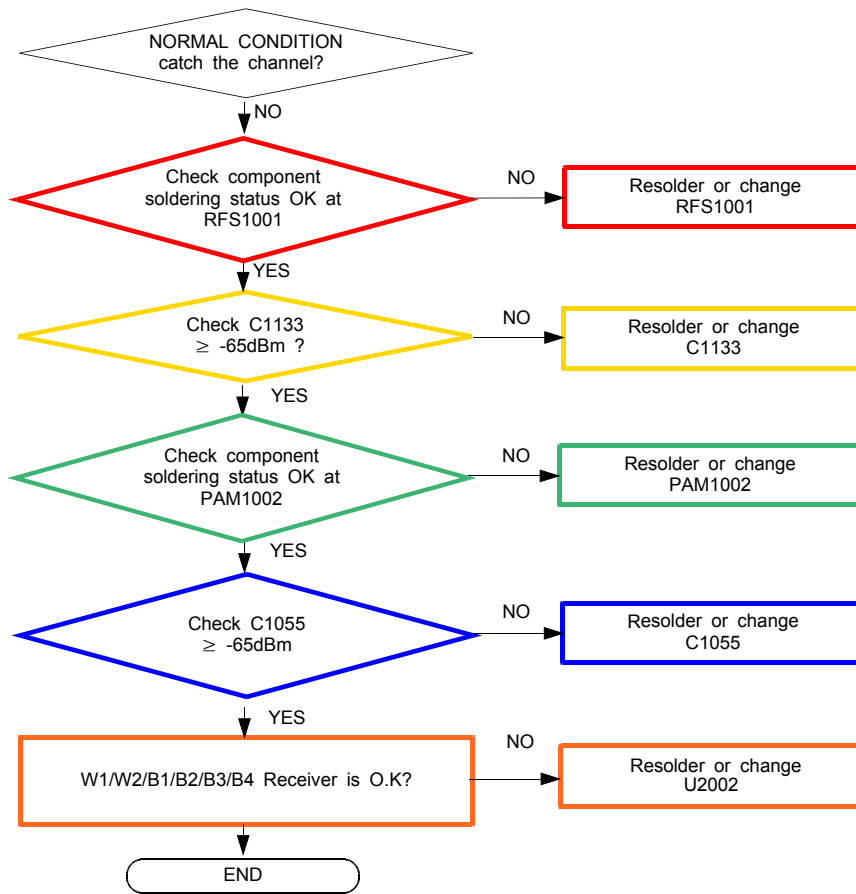


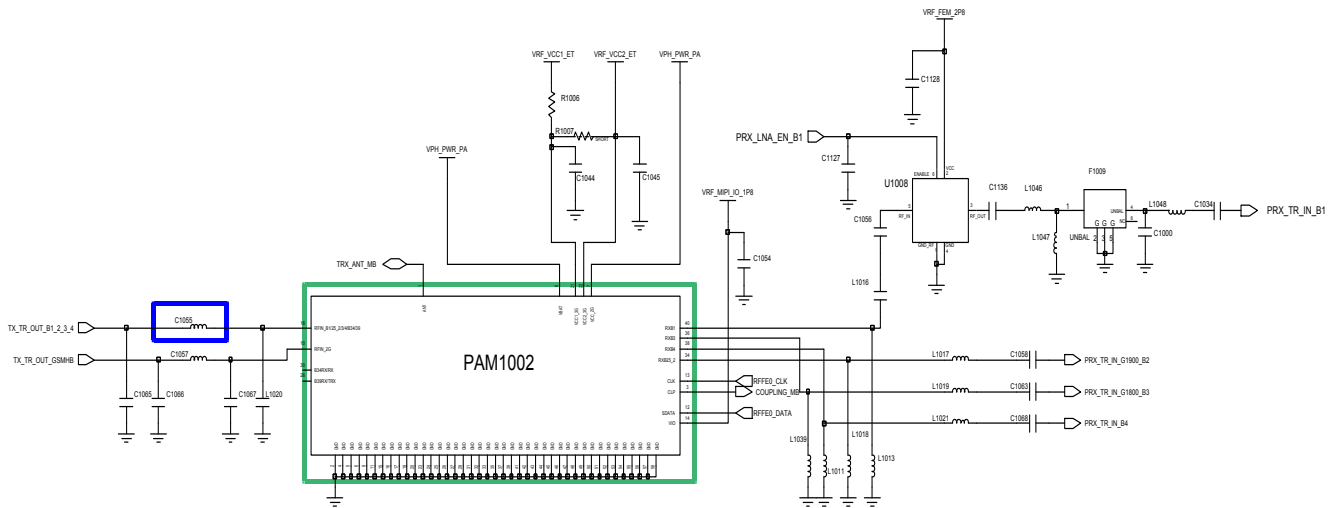
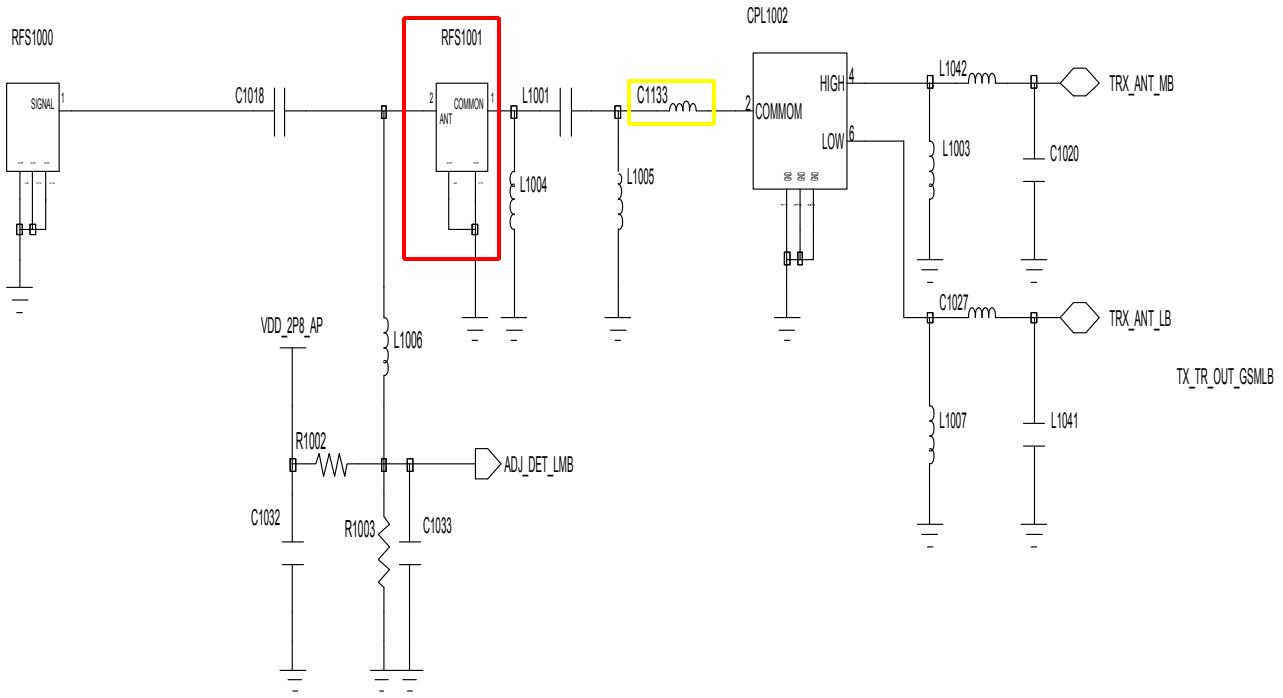


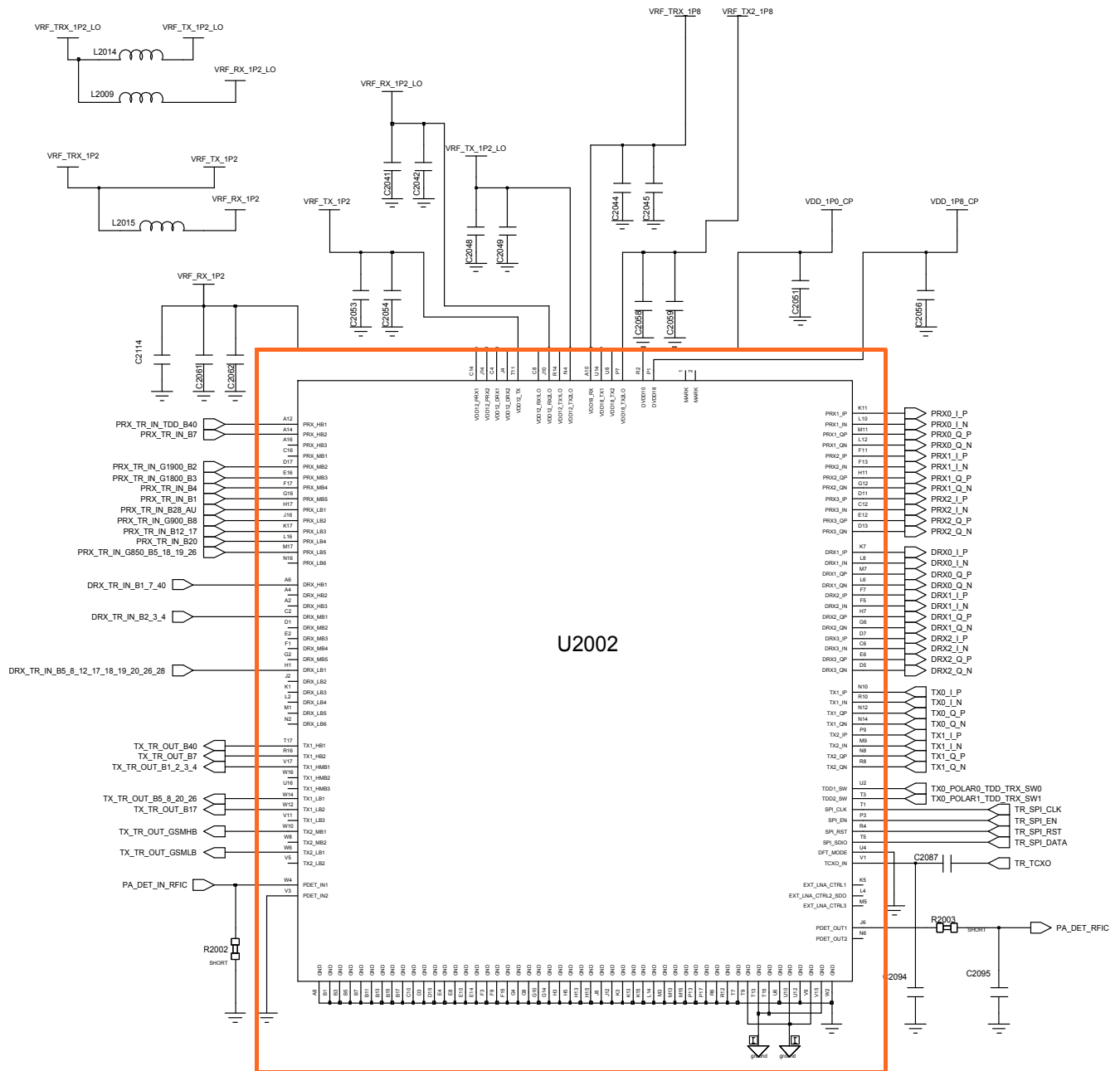


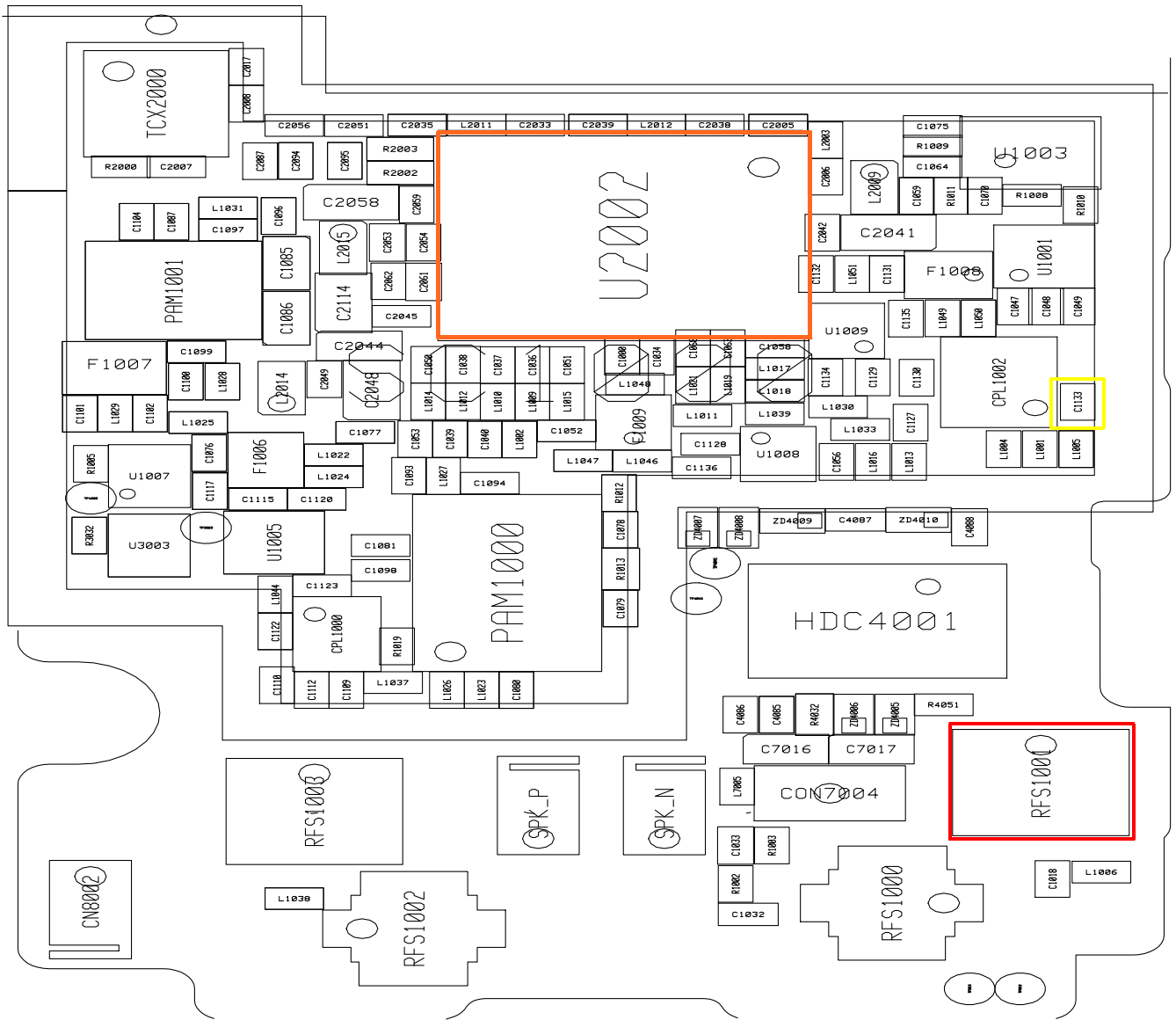
8-3-36. W1 / W2 / LTE B1 / LTE B2 / LTE B3 / LTE B4 TX

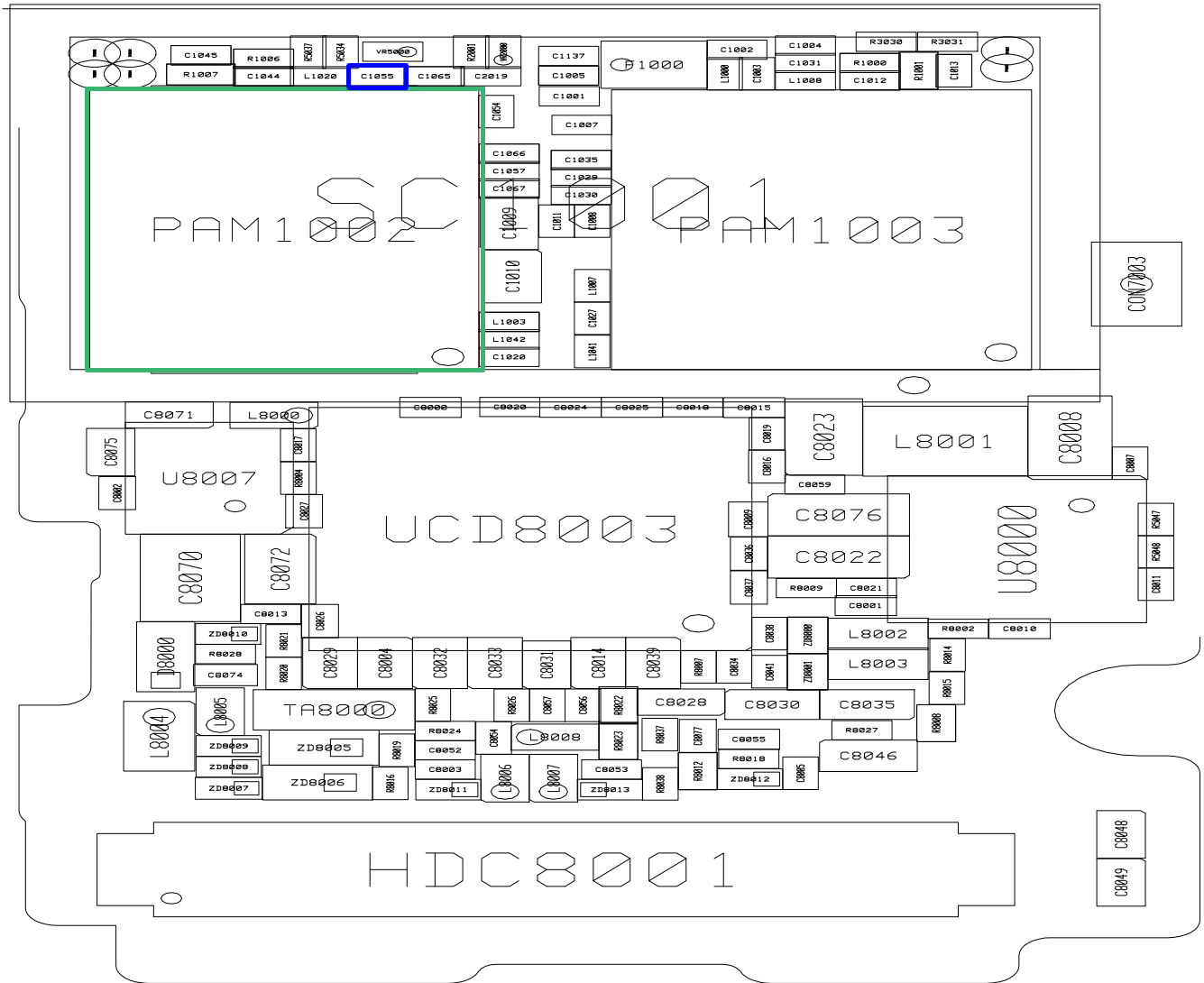
CONTINUOUS RX ON  
 RF INPUT : 9750CH, 9400CH  
 18300CH, 18900CH, 19575CH,  
 20175CH  
 AMP : -50dBm



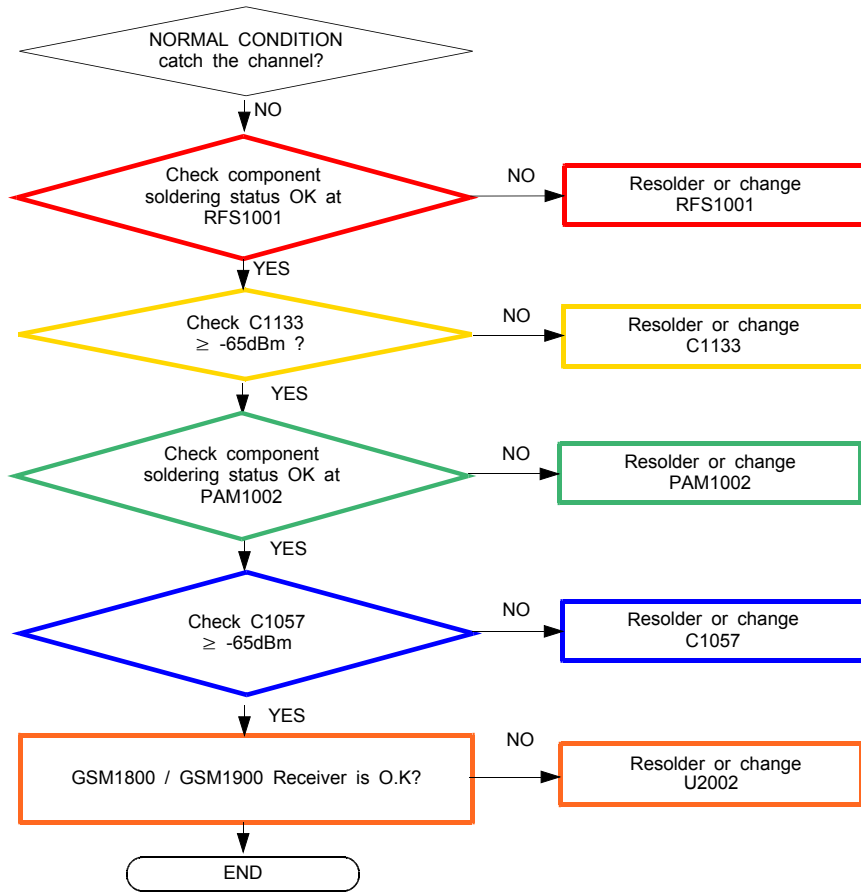




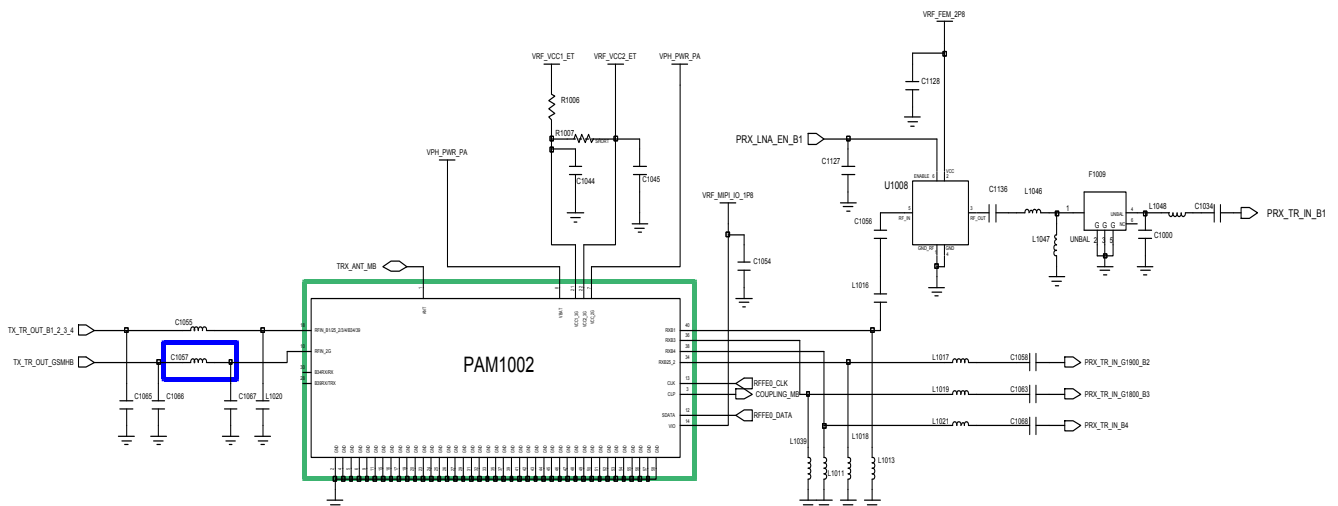
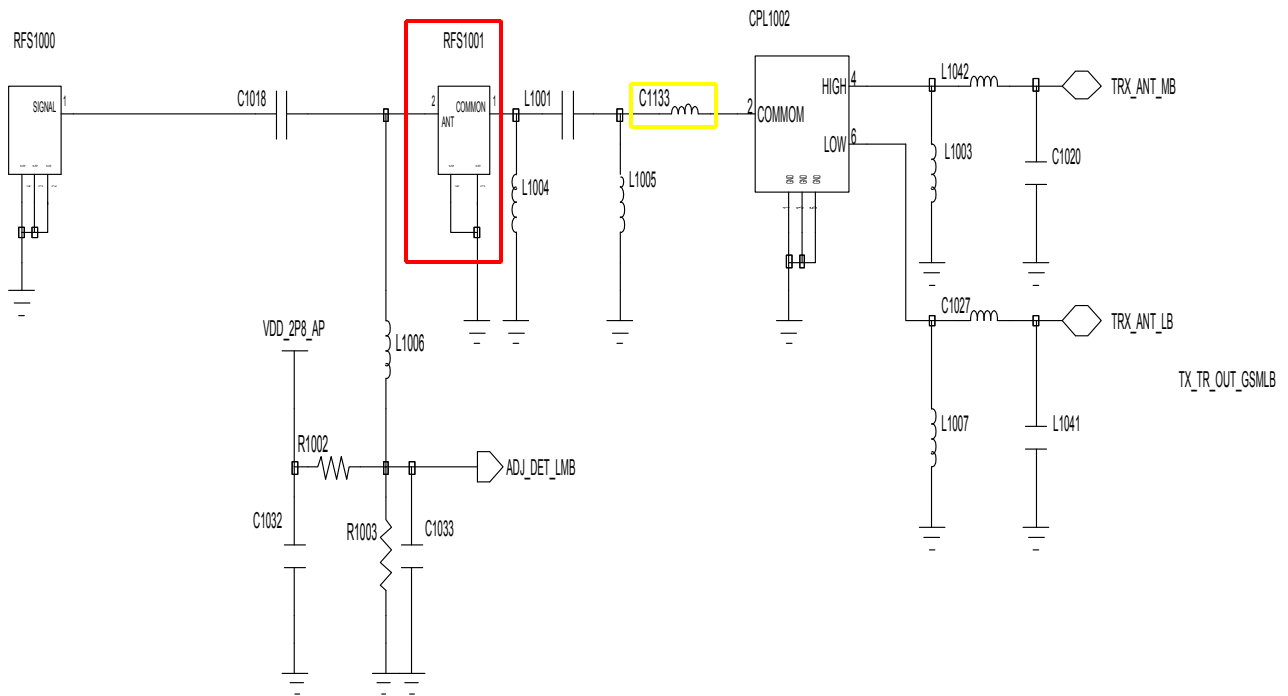




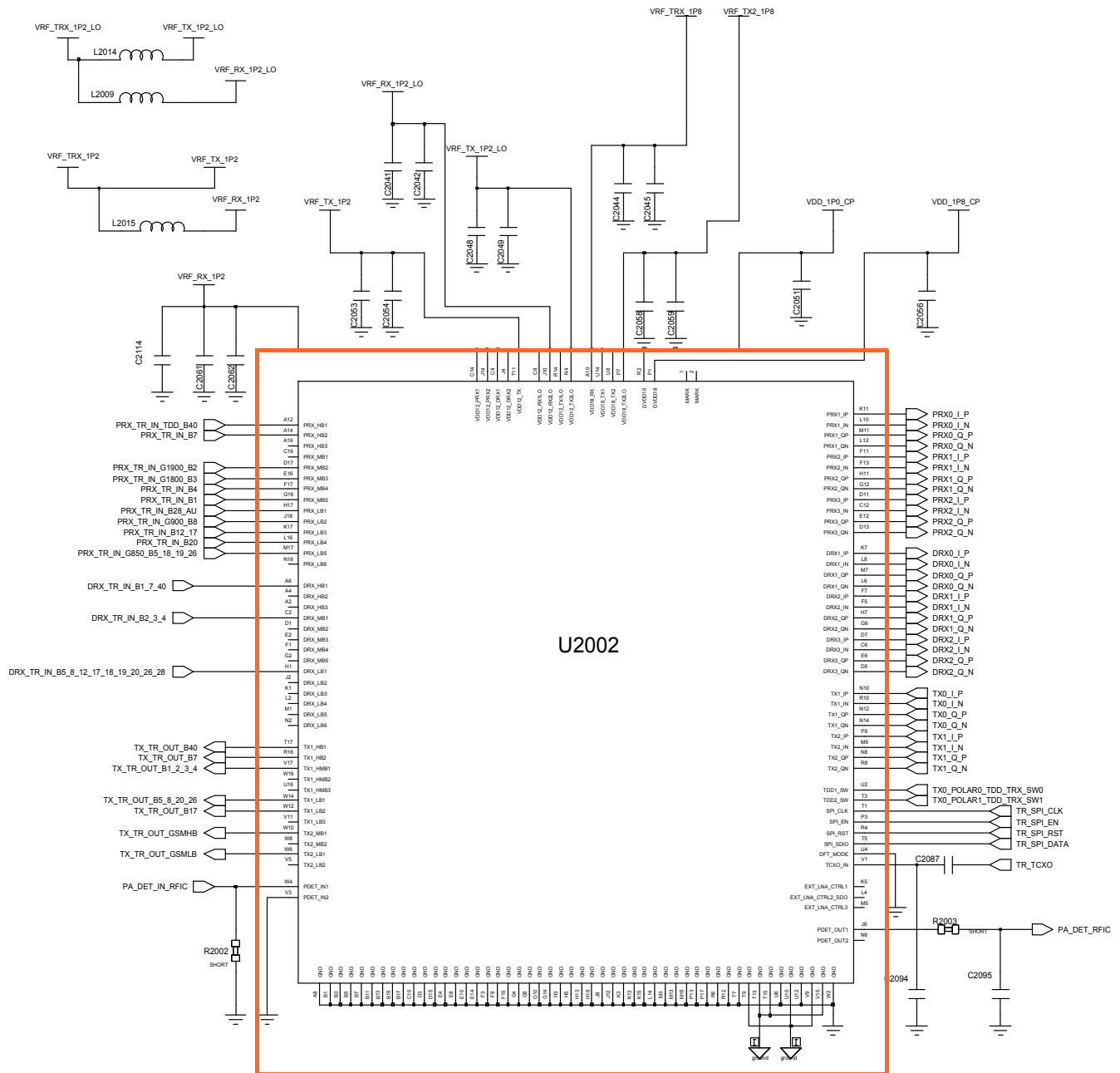
8-3-37. GSM1800 / GSM1900 TX

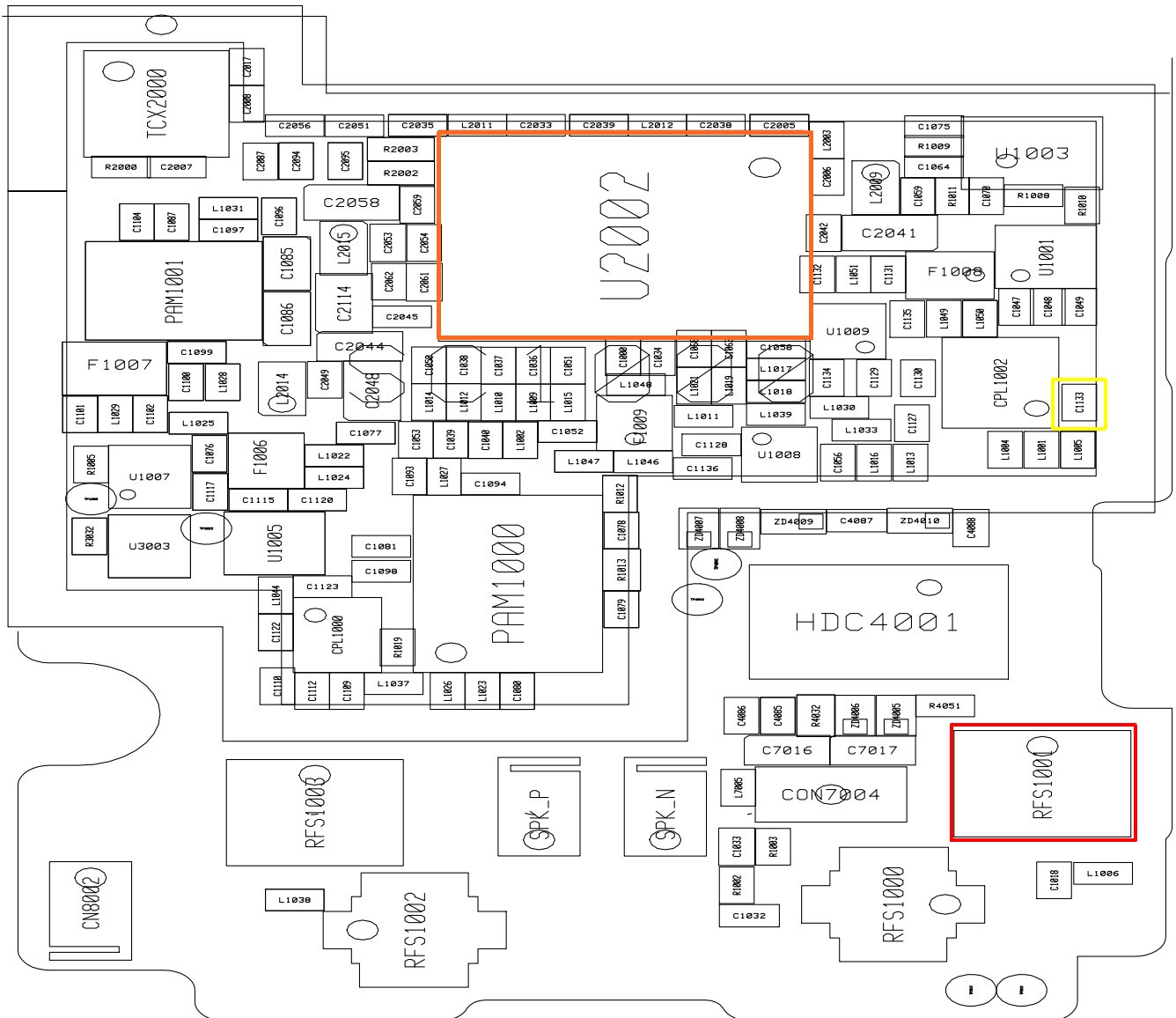


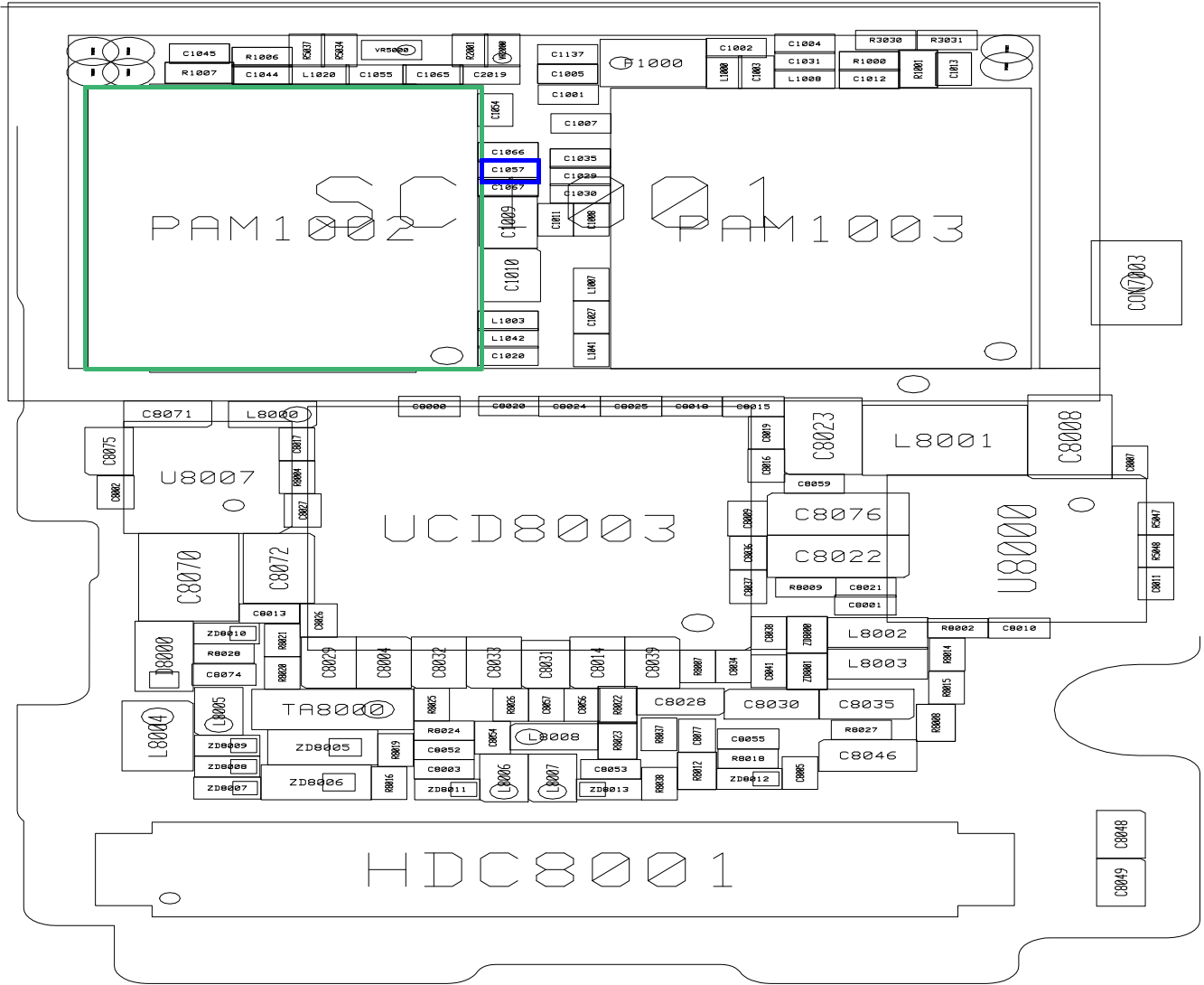
CONTINUOUS RX ON  
RF INPUT : 698CH, 661CH  
AMP : -50dBm





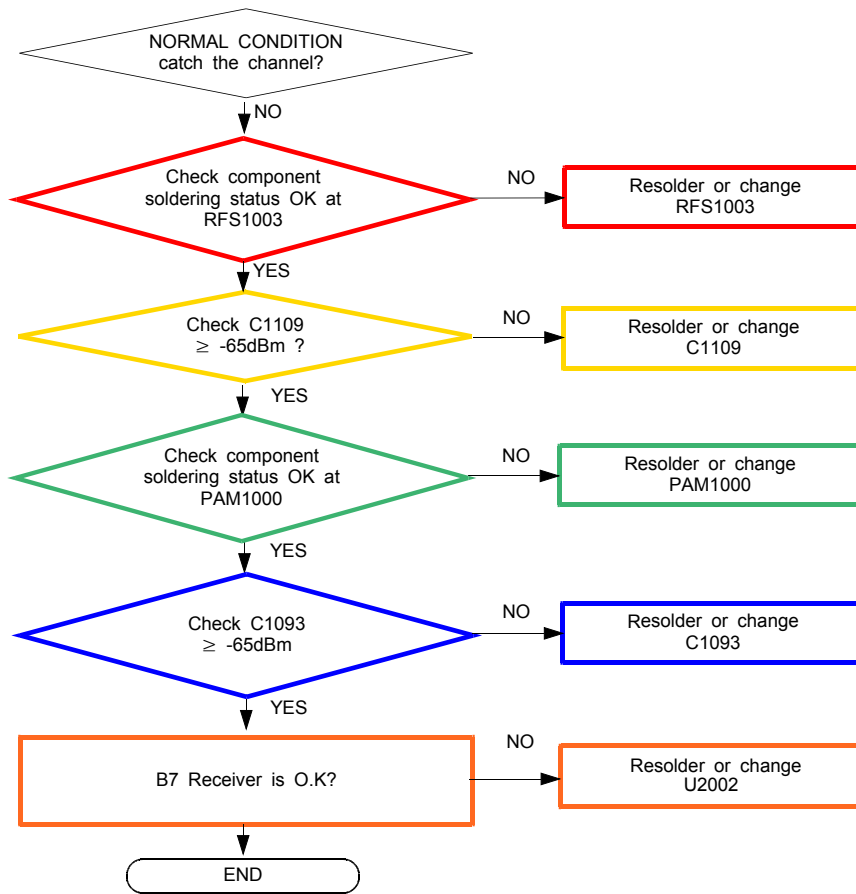


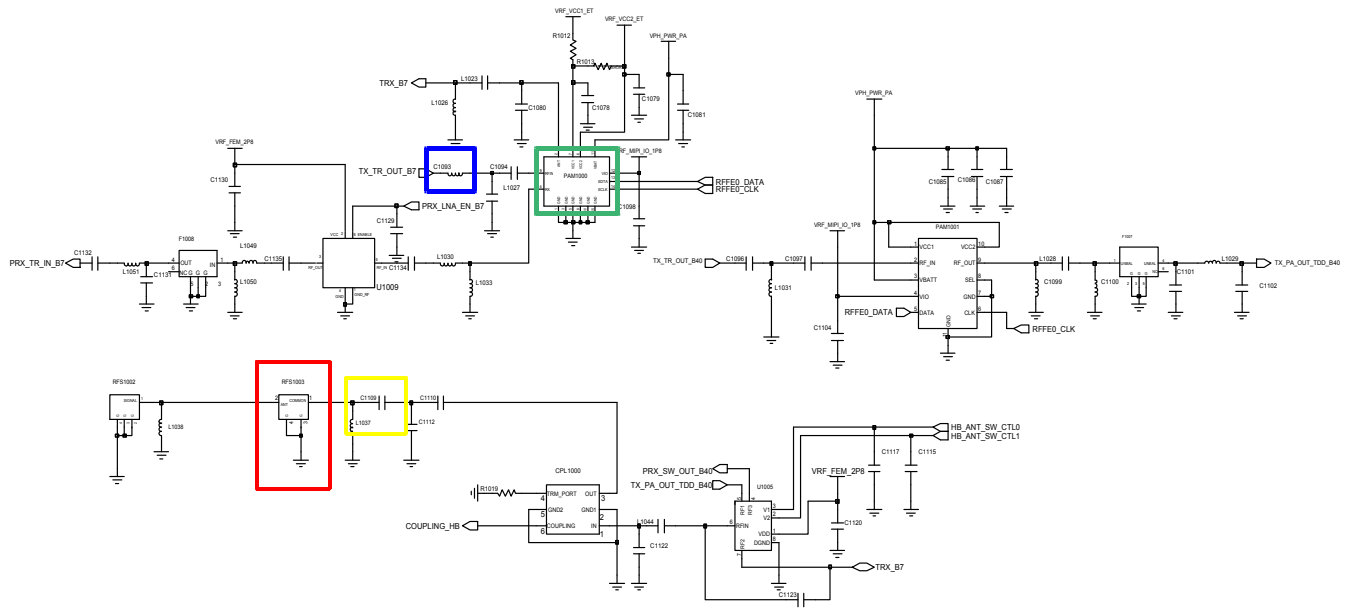


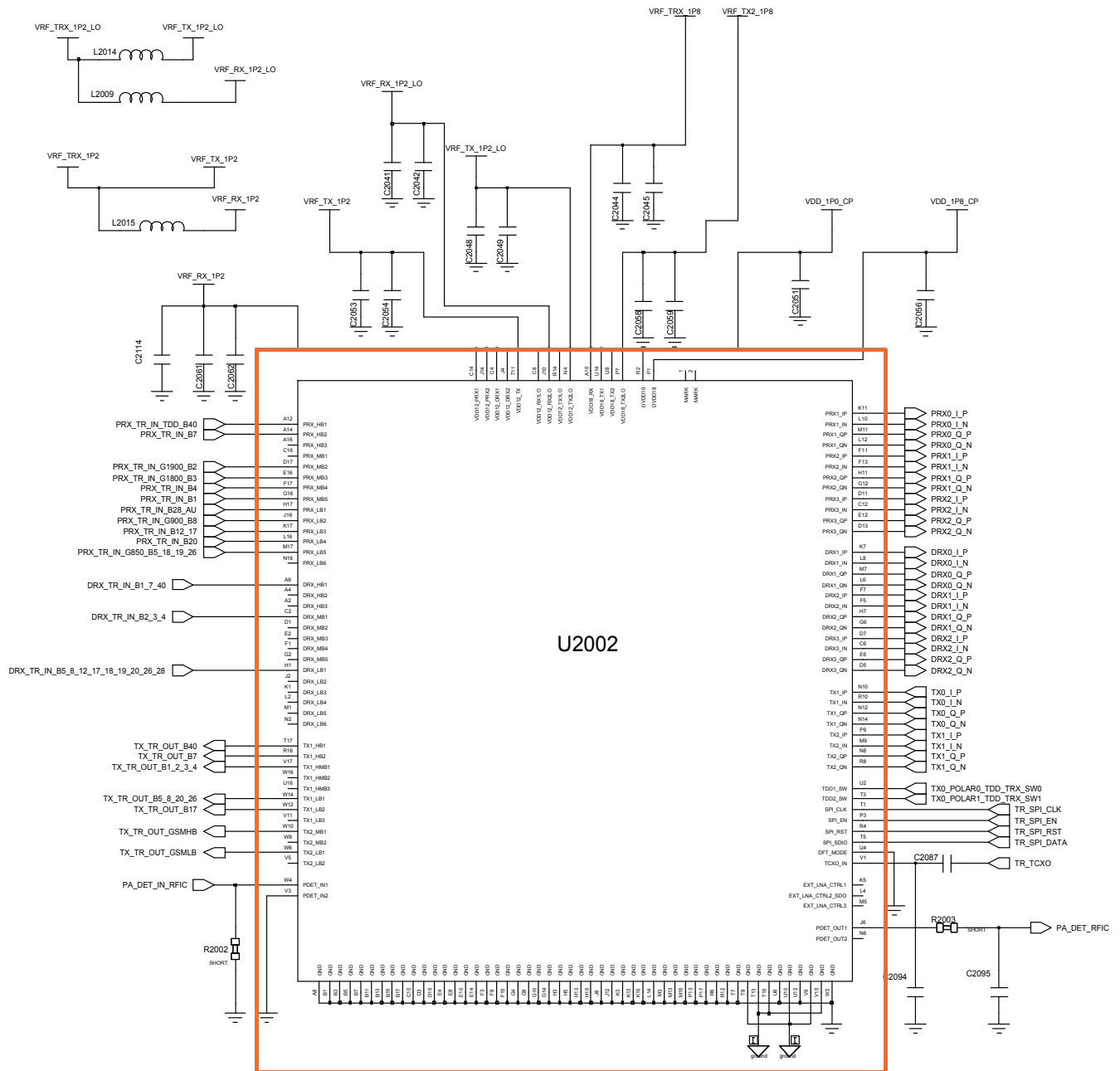


8-3-38. LTE B7 TX

CONTINUOUS RX ON  
RF INPUT : 21100CH  
AMP : -50dBm









### -NC Point(Top View)

The image displays a complex grid representing the top view of a circuit board. Each cell in the grid contains a specific alphanumeric code, likely a part number or component identifier. The grid is organized into rows and columns, with labels 'A' through 'AA' on the left side. The codes are color-coded, with colors including red, green, blue, yellow, orange, and purple. The grid is dense with information, covering a large area of the page.

UCP3002



●: NC

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
A																																						
B																																						
C																																						
D																																						
E					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
F					●																																●	
G					●																																●	
H					●																																●	
I					●																																●	
J					●																																●	
K					●																																●	
L					●																																●	
M					●																																●	
N					●									●		●		●		●		●		●		●		●		●		●		●		●		
P					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
R					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
T					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
U					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
V					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
W					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
Y					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
AA					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
AB					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
AC					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
AD					●								●		●		●		●		●		●		●		●		●		●		●		●		●	
AE					●																																●	
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