ASUS A400CG RF Hardware Trouble Shooting Guide

PMD-HW2

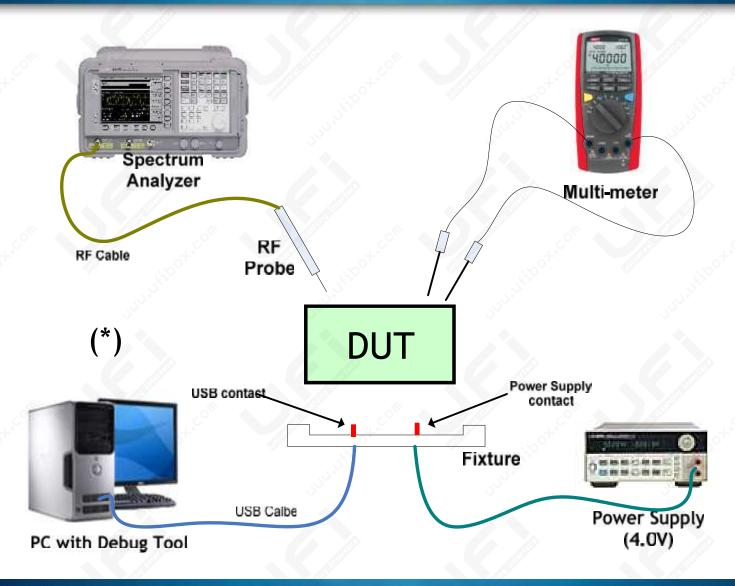


Outline

- Repair and Test Environment (*)
- RF Block Diagram
- Key components location
- RF Tx /Rx Path
 - GSM and WCDMA Tx Path
 - GSM and WCDMA Rx Path
 - GSM and WCDMA Tx/Rx fail analysis
 - GPS RF Path
- BT/WiFi RF Path
- GPS and BT/WiFi BL Tx/Rx fail analysis
- Antenna & Spring Location

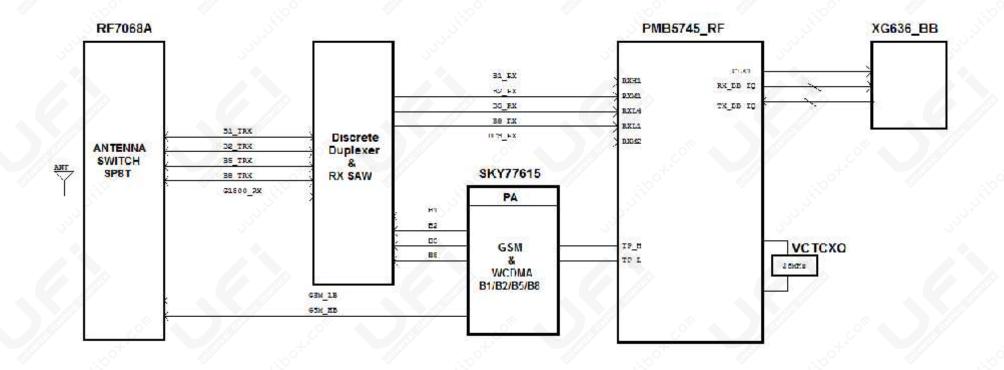


Repair and Test Environment (*)



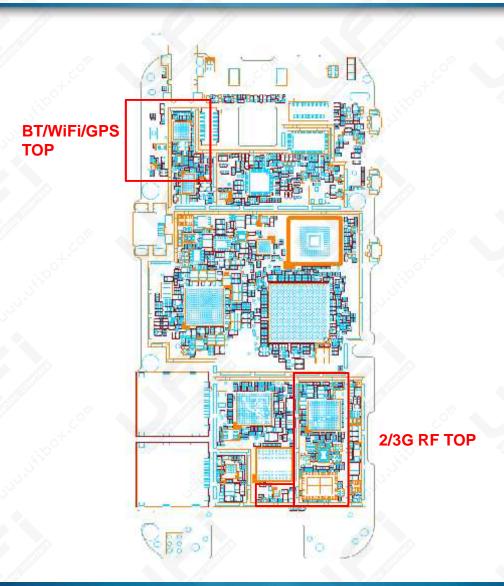


RF Block Diagram — 2G/3G System



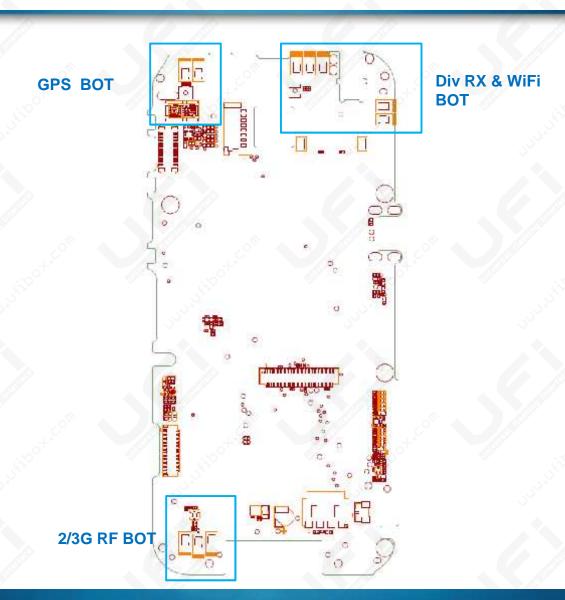


A400CG RF Areas Top Side





PF400CG RF Areas Bottom Side





Outline

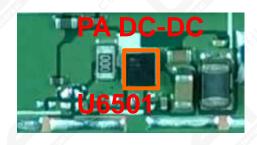
- Repair and Test Environment (*)
- RF Block Diagram
- Key components location
- RF Tx /Rx Path
 - GSM and WCDMA Tx Path
 - GSM and WCDMA Rx Path
 - GSM and WCDMA Tx/Rx fail analysis
 - GPS RF Path
- BT/WiFi RF Path
- GPS and BT/WiFi BL Tx/Rx fail analysis
- Antenna & Spring Location

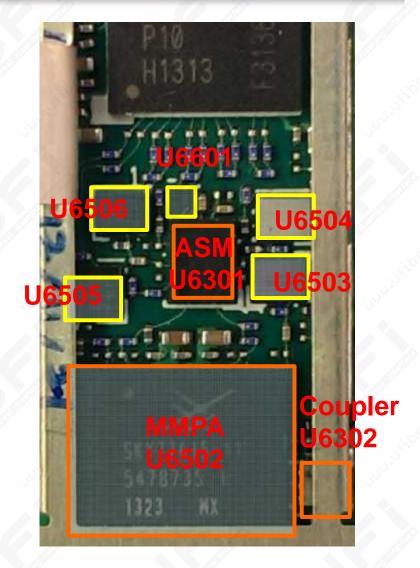


Key Components Location



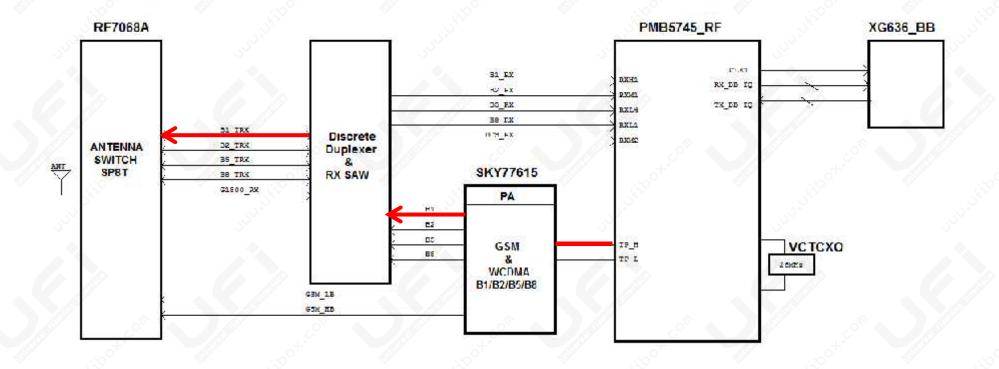
VCTCXO OSC6401





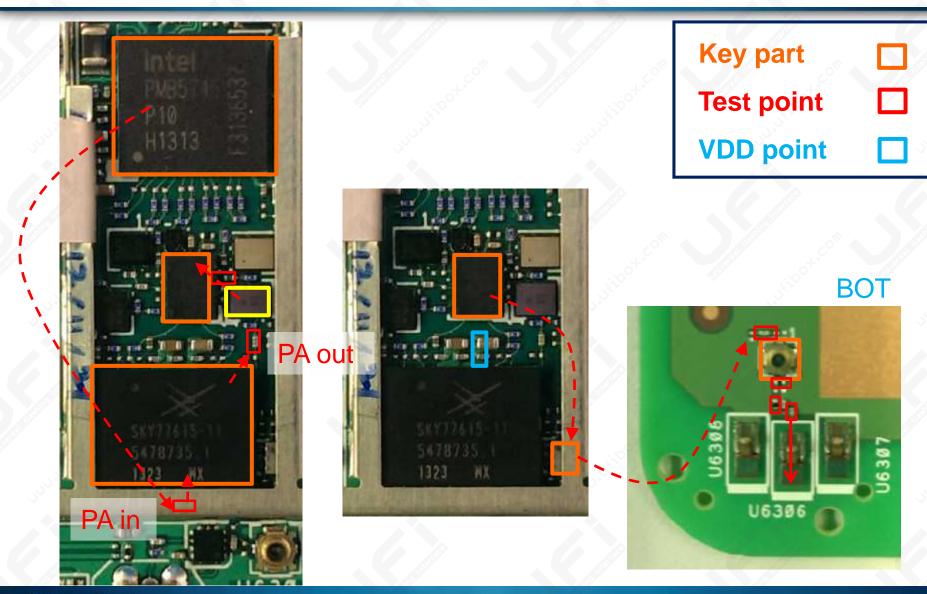


RF Block Diagram — 2G/3G System

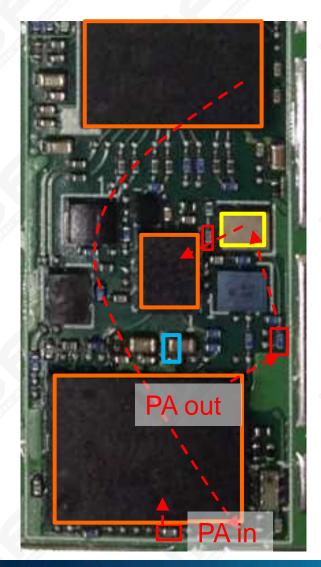




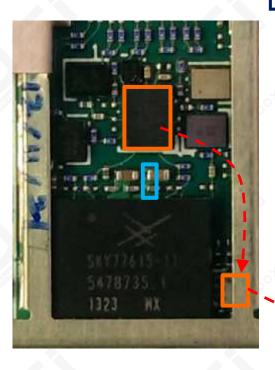
Band1 Tx Path

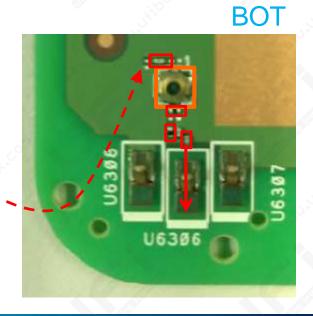


Band2 Tx Path

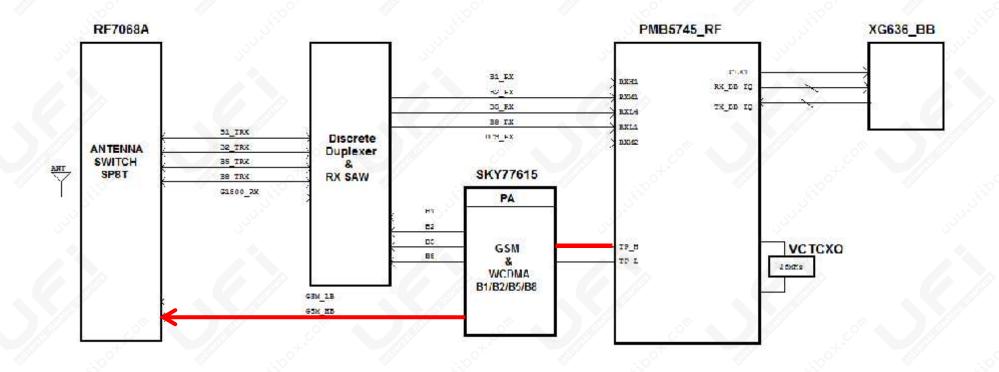


Key part
Test point
VDD point



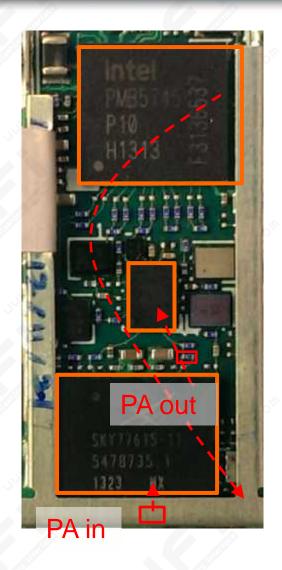


RF Block Diagram — 2G/3G System

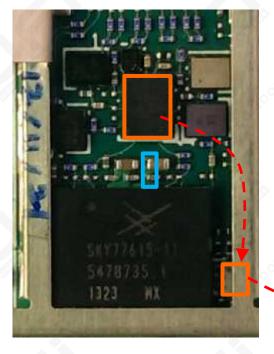


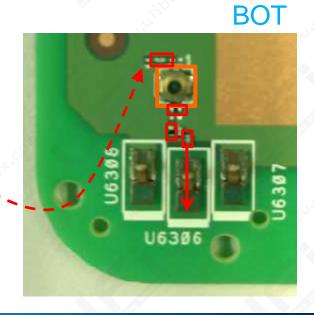


DCS1800/PCS1900 Tx Path

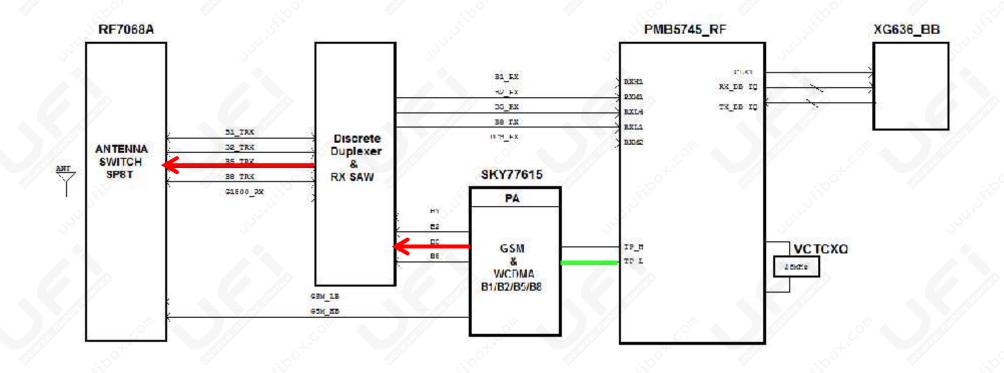






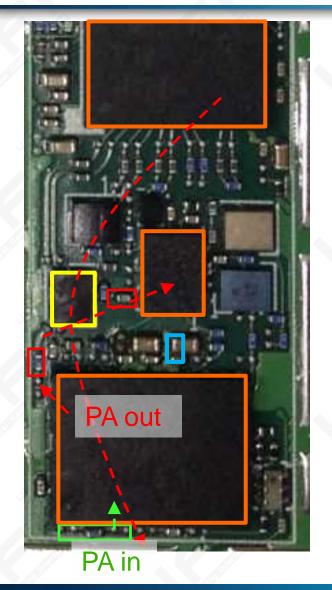


RF Block Diagram — 2G/3G System

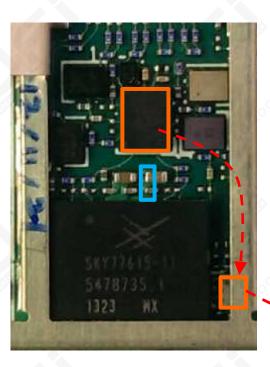


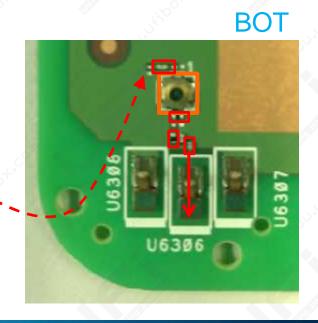


Band5 Tx Path

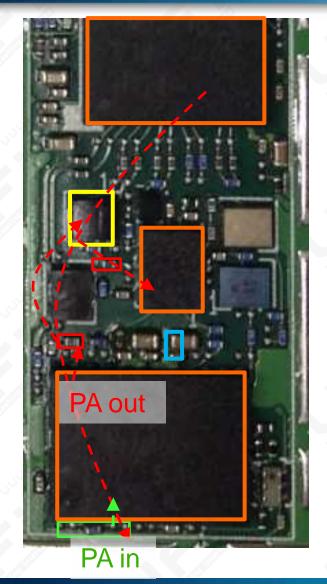


Key part
Test point
VDD point

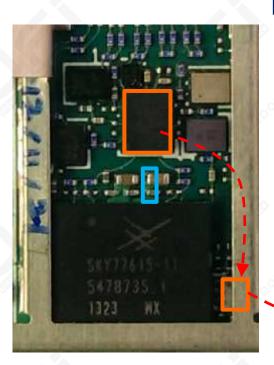


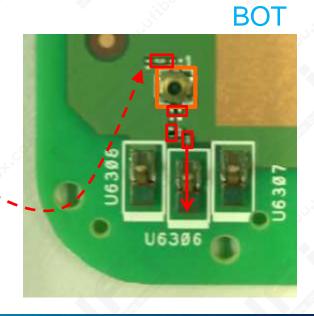


Band8 Tx Path

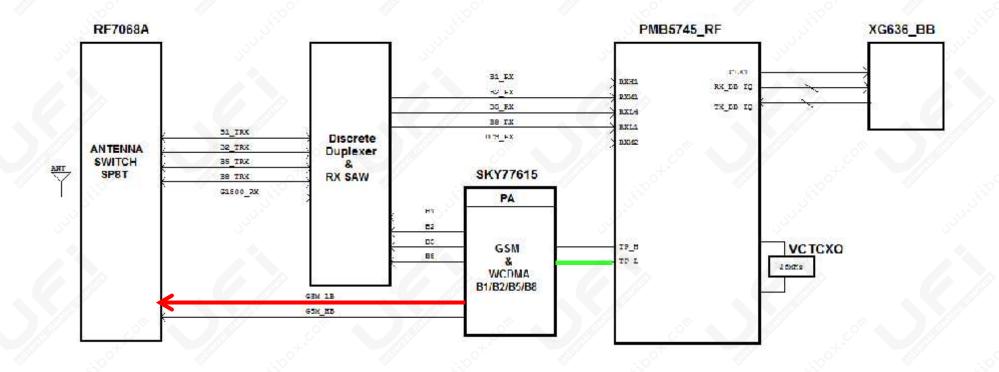


Key part
Test point
VDD point



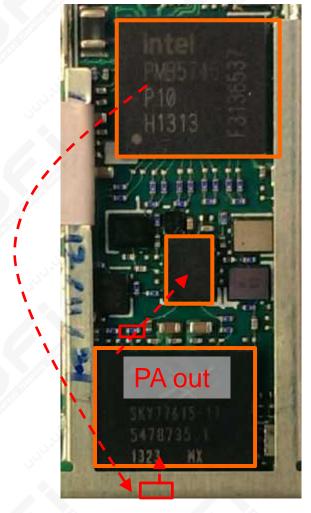


RF Block Diagram — 2G/3G System



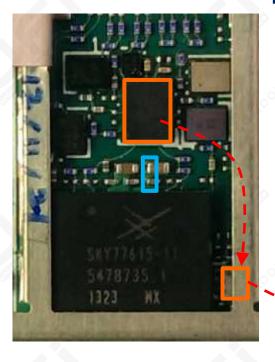


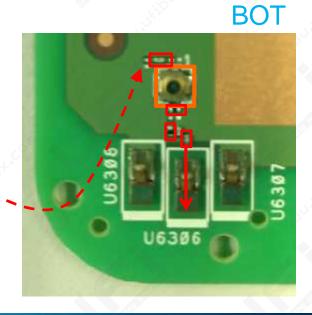
EGSM900/GSM850 Tx Path



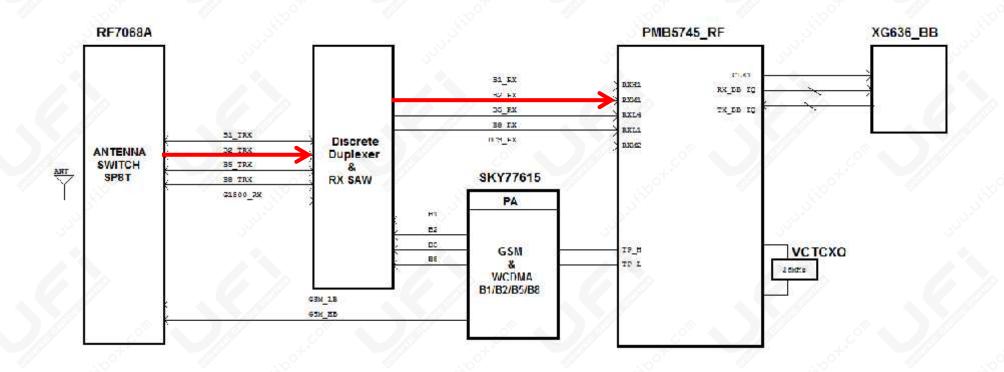








RF Block Diagram — 2G/3G System



RX: B2 & PCS; B5 & GSM850; B8 & EGSM900



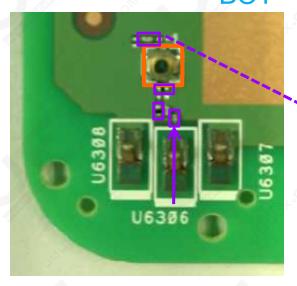
Band1 Rx Path

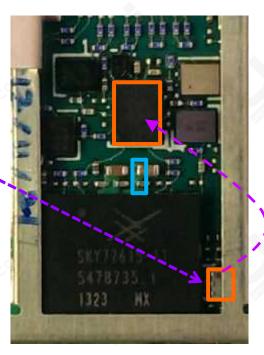
Key part

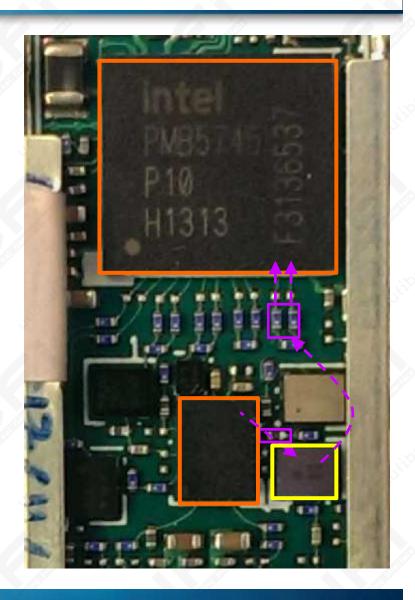
Test point

3. 33.







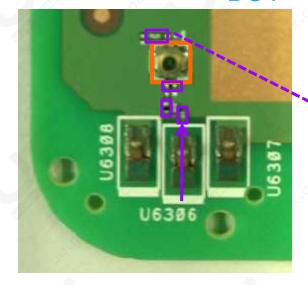


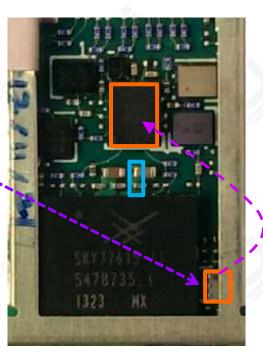
Band2/PCS1900 Rx Path

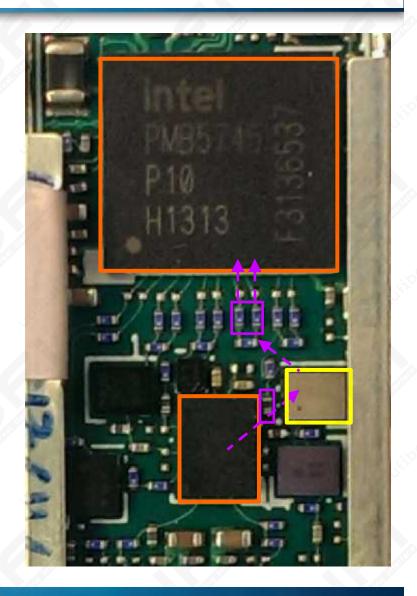
Key part

Test point





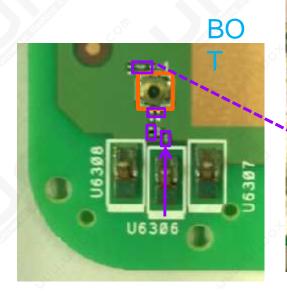


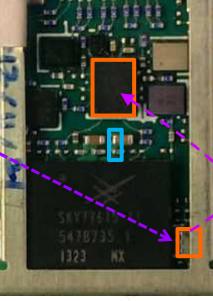


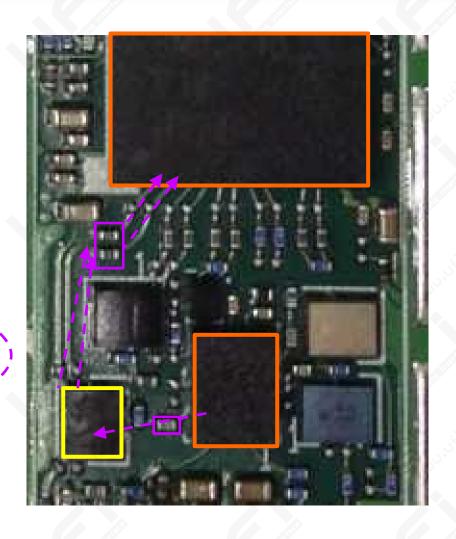
Band5/GSM850 Rx Path

Key part



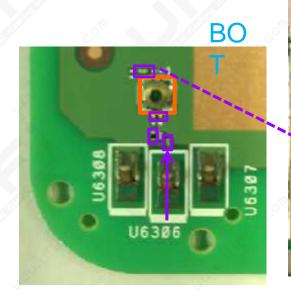


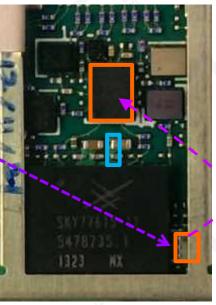


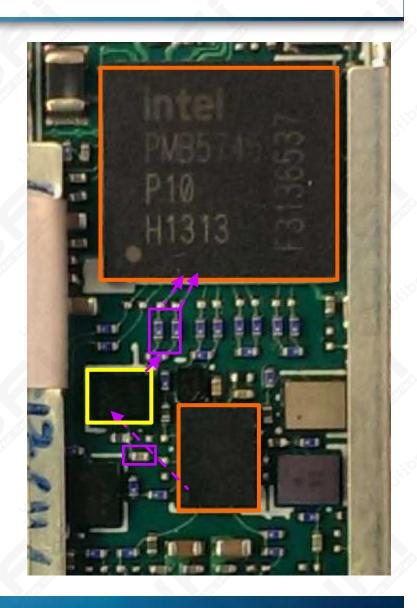


Band8/EGSM900 Rx Path

Key part



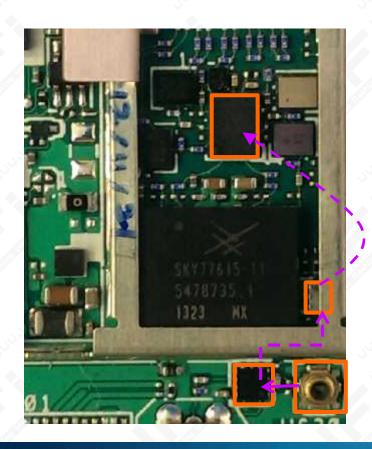


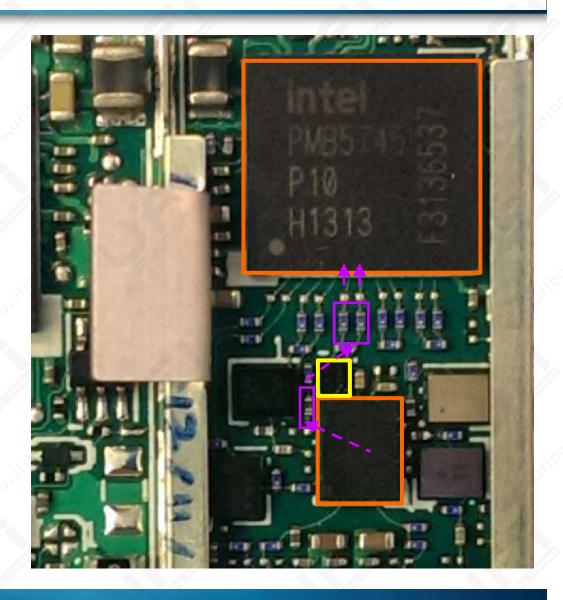


DCS1800 Rx Path

Key part

S



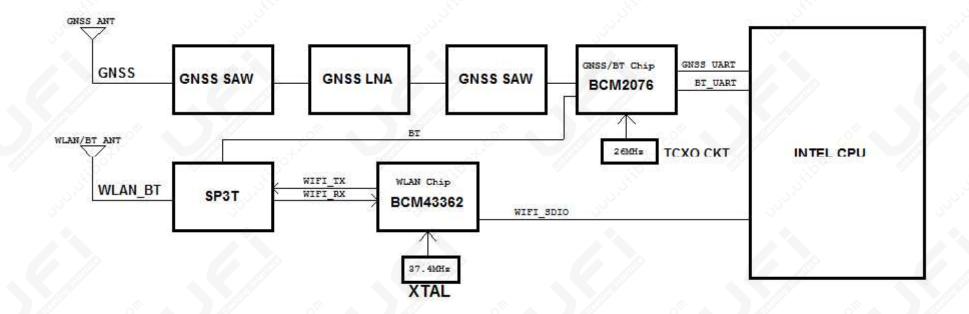


Outline

- Repair and Test Environment (*)
- RF Block Diagram
- Key components location
- RF Tx /Rx Path
 - GSM and WCDMA Tx Path
 - GSM and WCDMA Rx Path
 - GSM and WCDMA Tx/Rx fail analysis
 - GPS RF Path
- BT/WiFi RF Path
- GPS and BT/WiFi BL Tx/Rx fail analysis
- Antenna & Spring Location

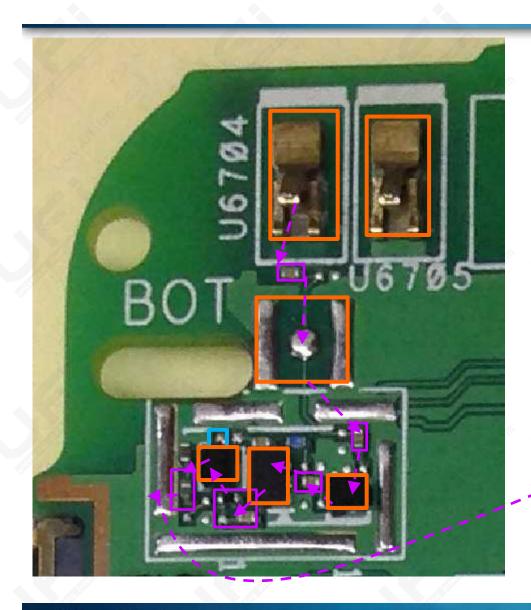


RF Block Diagram — GPS/BT/WiFi





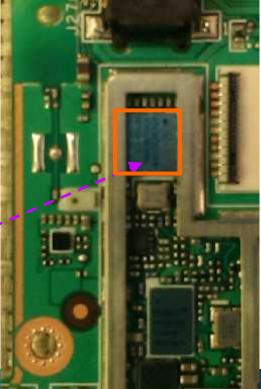
GPS Rx Path



Key part

Test point

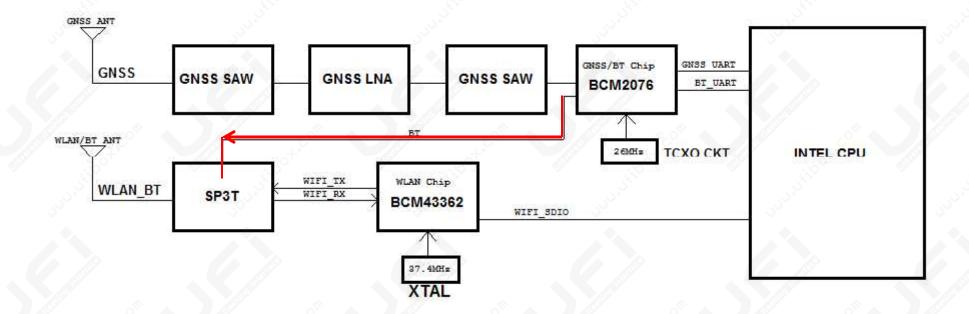
VDD point





nt Perfection

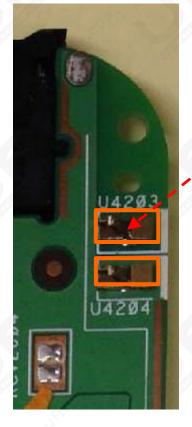
RF Block Diagram — GPS/BT/WiFi



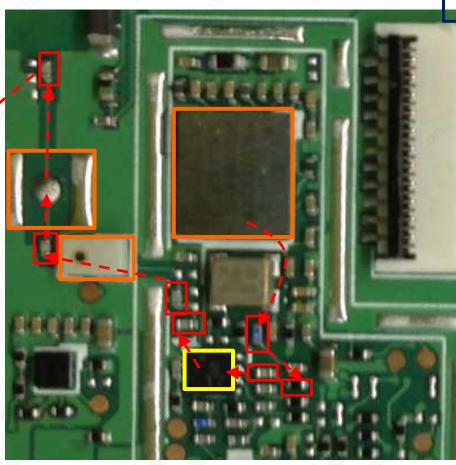


BT RF Path

BOT



TOP

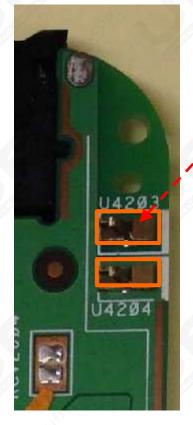


Key part

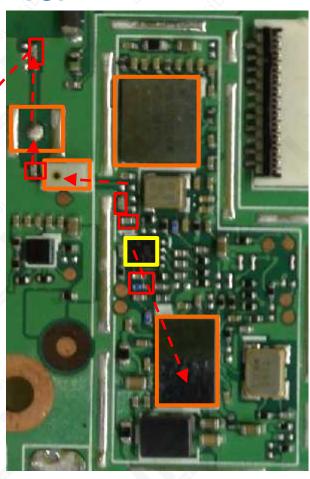


WiFi TX RF Path

BOT



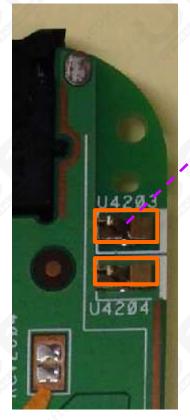
TOP



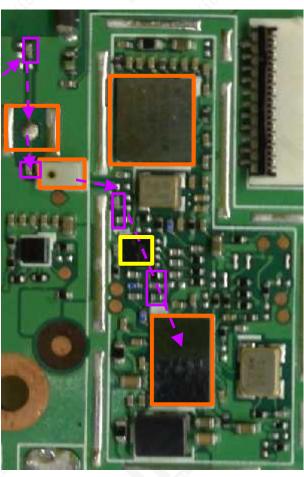
Key part

WiFi RX RF Path

BOT



TOP



Key part

Antenna & Spring Location



GPS





www.ufibox.com

