

Quectel Wireless Solutions Co., Ltd

Test Data Reuse Letter

This application is intended to reuse previous test data (from **SC20-A**, FCC ID: XMR201706SC20A 2017/08/14 initial application), due to the fact that the two models of products are hardware-wise identical and only the following changes have been made:

SC20-AD, FCC ID: **XMR2021SC20AD** is the variant of certified **SC20-A** module.

SC20-A and **SC20-AD** are both LTE modules. They use the same Qualcomm platform MSM8909.

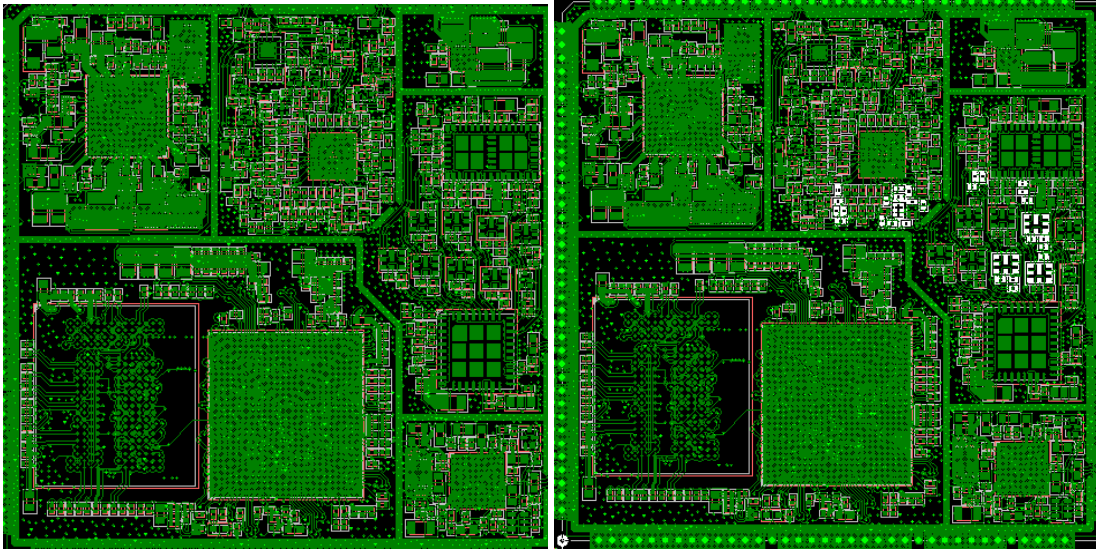
SC20-A supports LTE, WCDMA and GSM. **SC20-AD** supports LTE only. The main change of software is disabled WCDMA, GSM and voice part.

Here we remove some small RF components which used in WCDMA and GSM. Main RF components changes as follow table

| Designator | SC20-A(part description) | SC20-AD(part description) | Notes |
|------------|---|---|--------------|
| U1105 | IC RF DPX UMTS/LTE UNBalance B4 1.8x1.4mm H0.5mm RO | NM | B4 Duplexer |
| L1148 | IND HIGH HQ 3.9nH +/-0.1nH CH0201 RO | NM | inductor |
| L1147 | IND HIGH HQ 6.8nH +/-3% CH0201 RO | NM | inductor |
| L1149 | IND HIGH HQ 3.3nH +/-0.1nH CH0201 RO | NM | inductor |
| C1113 | CAP C0G 22pF +/-5% 50V CH0201 RO | NM | capacitor |
| C1114 | CAP C0G 0.5pF +/-0.1pF 50V CH0201 RO | NM | capacitor |
| L1141 | IND HIGH HQ 12nH +/-3% CH0201 RO | NM | inductor |
| L1142 | CAP C0G 12pF +/-5% 50V CH0201 RO | NM | capacitor |
| L1143 | IND HIGH HQ 4.3nH +/-3% CH0201 RO | NM | inductor |
| L1144 | IND HIGH HQ 8.2nH +/-3% CH0201 RO | NM | inductor |
| L1145 | IND HIGH HQ 2.2nH +/-0.1nH CH0201 RO | NM | inductor |
| L1146 | CAP C0G 0.5pF +/-0.1pF 50V CH0201 RO | NM | capacitor |
| U1108 | IC RF SWITCH SPDT 35dBm 1.1x0.7mm H0.32mm RO | NM | SWITCH |
| U1104 | IC RF DPX UMTS/LTE UNBalance B1 1.8x1.4mm H0.6mm RO | IC RF DPX UMTS/LTE UNBalance B4 1.8x1.4mm H0.5mm RO | B1 Duplexer |
| L1129 | IND HIGH HQ 6.8nH +/-3% CH0201 RO | NM | inductor |
| U1006 | IC RF DPX UMTS/LTE UNBalance B8 1.8x1.4mm H0.5mm RO | NM | WB8 Duplexer |
| L1026 | IND HIGH HQ 10nH +/-3% CH0201 RO | NM | inductor |
| C1020 | IND HIGH HQ 2.2nH +/-0.1nH CH0201 RO | NM | inductor |
| L1027 | IND HIGH HQ 1.0nH +/-0.1nH CH0201 RO | NM | inductor |
| L1014 | IND HIGH 27nH +/-5% CH0201 RO | NM | inductor |
| L1015 | IND HIGH HQ 18nH +/-3% CH0201 RO | NM | inductor |
| C1013 | CAP C0G 100pF +/-5% 50V CH0201 RO | NM | capacitor |
| C1101 | CAP C0G 22pF +/-5% 50V CH0201 RO | NM | capacitor |
| C1102 | CAP C0G 22pF +/-5% 50V CH0201 RO | NM | capacitor |
| R1102 | NM | CAP C0G 22pF +/-5% 50V CH0201 RO | |
| R1103 | NM | CAP C0G 22pF +/-5% 50V CH0201 RO | |

The position of the different components in the PCB is shown in the follow picture

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We hereby state that the above change won't affect the RF portions and there is no any other change between them except the software.

So, we have performed spot checks on the following items to verify that if any unexpected RF conducted power or emission changes can be noted. The test results show that all spot check data are within the instrument measurement uncertainty and data reuse is justifiable.

Verification test items with 1 sample:

- Conducted Power
- Radiated Spurious Emission Test (choose worse case) For the test result please refers to included exhibit "Test Reports.pdf" for detail

Reuse data test items

- Conducted Power / EIRP/ ERP / PAPR / OBW / Modulation characteristics / Frequency stability / DFS
- Band edge

Also, both the referenced application and this new application are all subject to the same ISED rule and there is no new rule update for related rules. Accordingly, we believe that the reuse data from previous certified filing is justifiable. Thank you for your attention and please feel free to contact us, if you should have any questions. Sincerely yours,

Jean Hu *Jean Hu*

Quectel Wireless Solutions Company Limited.

TEL: +86-21-51086236 ext 6511