

# 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-ALD**, FCC ID: **XMR2021SC20ALD** is the variant of certified **SC20-A** module.

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

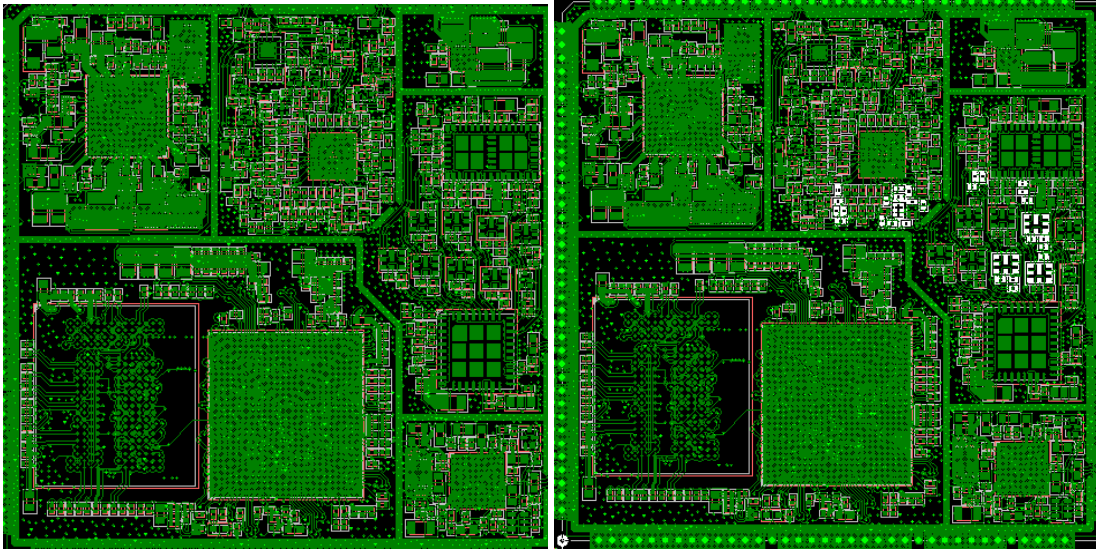
**SC20-A** supports LTE, WCDMA and GSM. **SC20-ALD** supports LTE only. The main change of software is disabled WCDMA, GSM and voice part.

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*

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