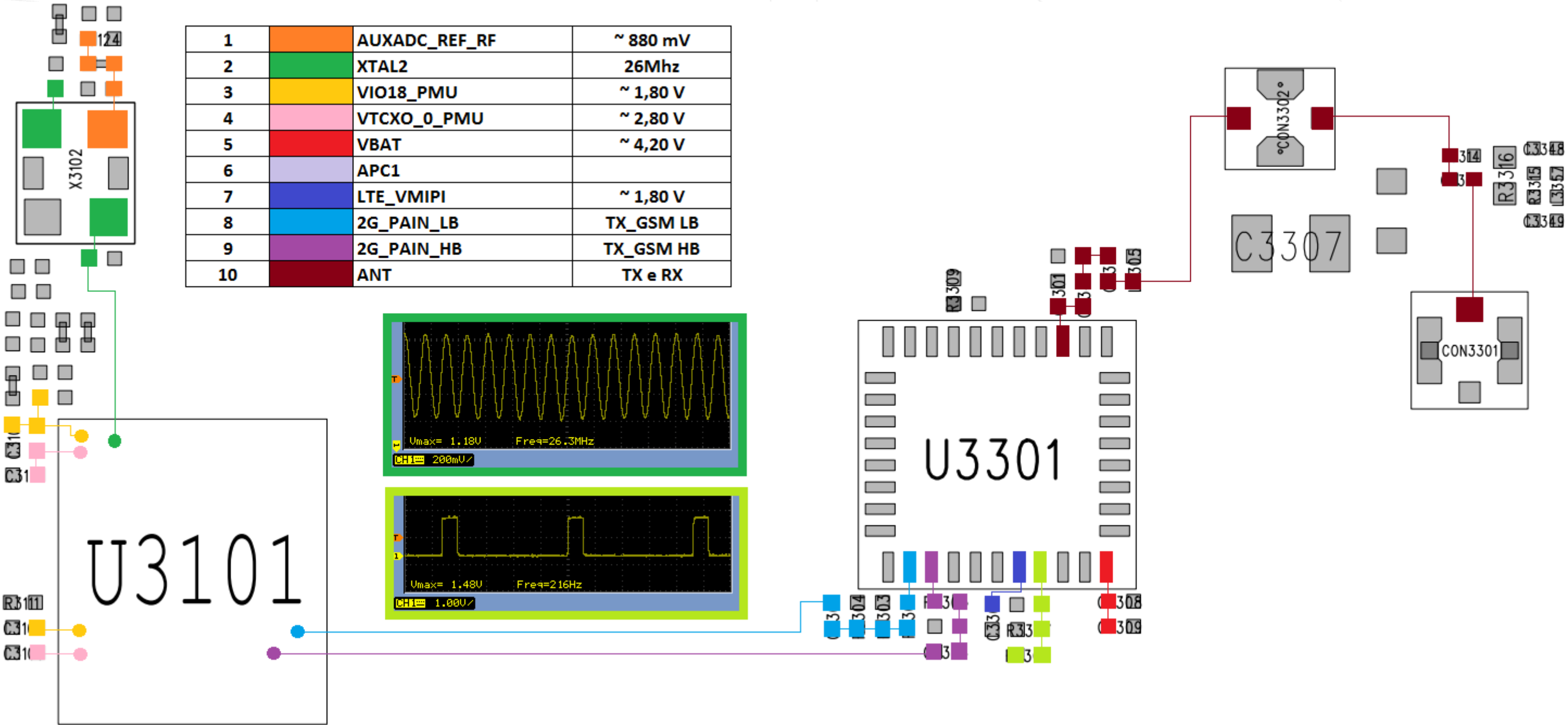




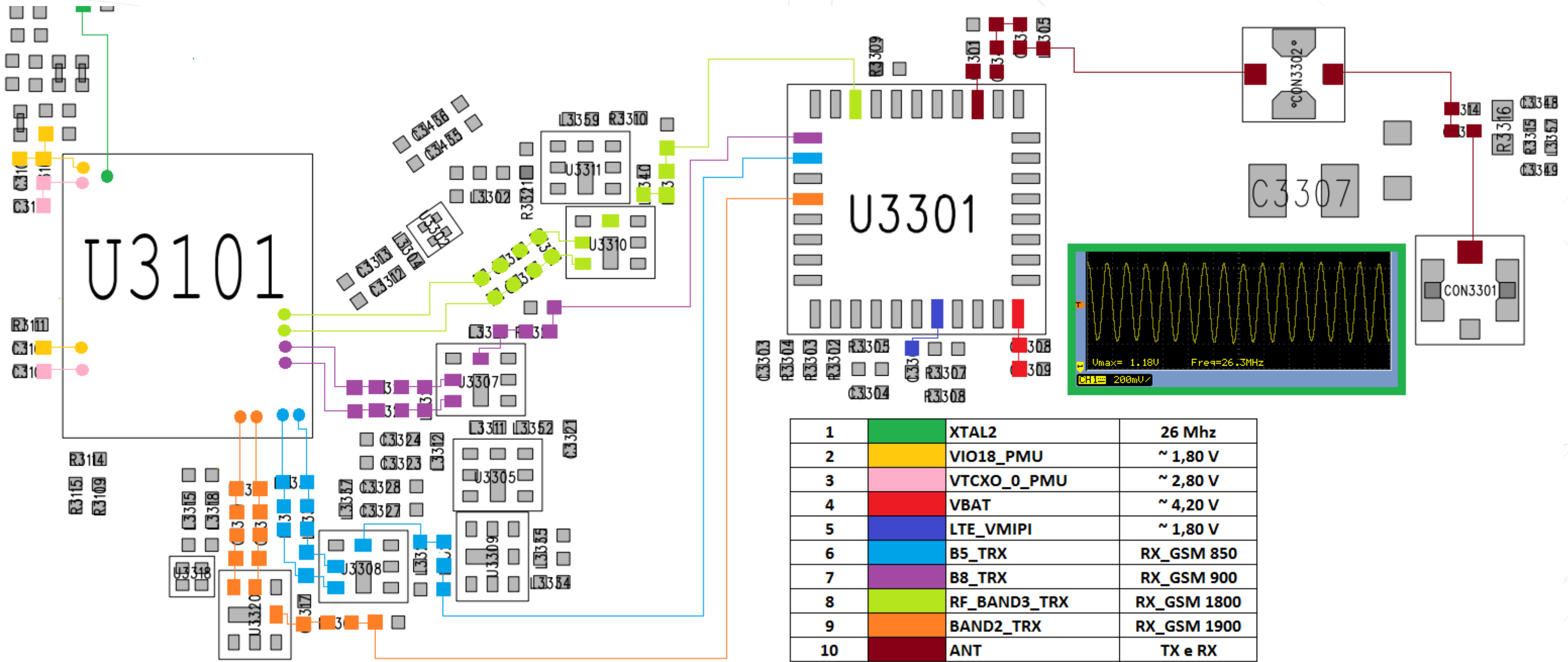
Signal Flow LACROSSE
TX e RX , GSM , WCDMA , LTE

Sérgio Silva
Técnico Especialista

TX_GSM e EDGE

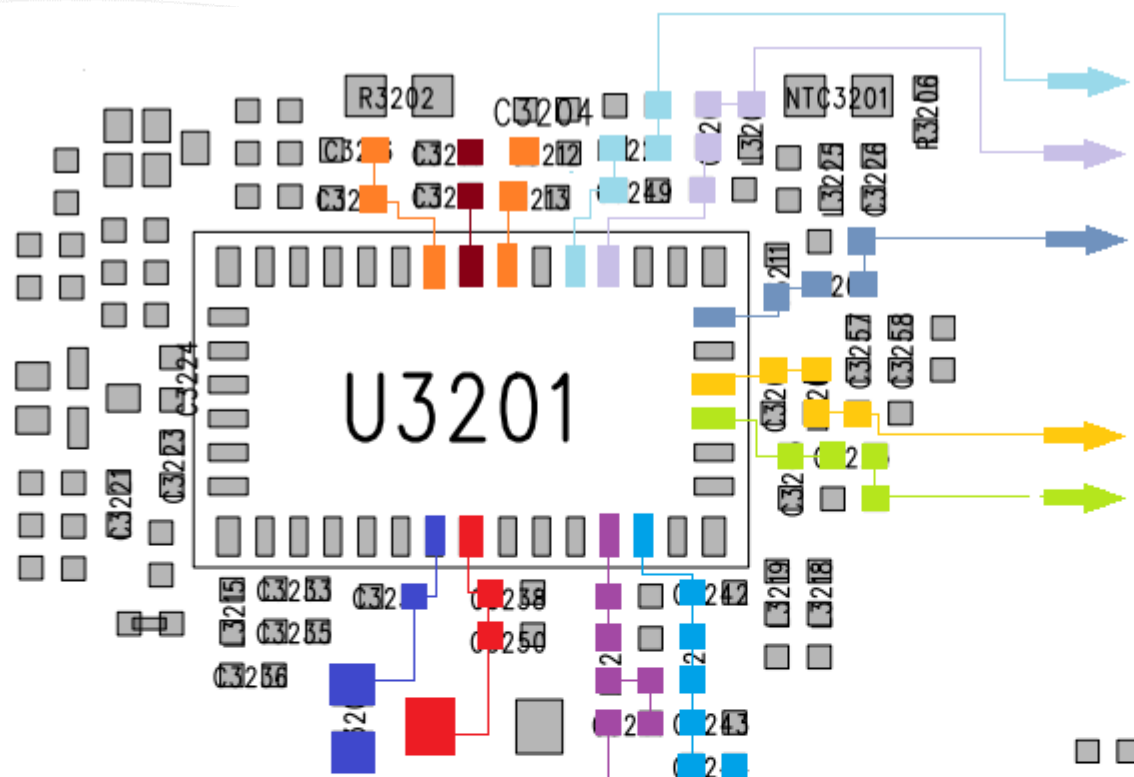


RX_GSM e EDGE

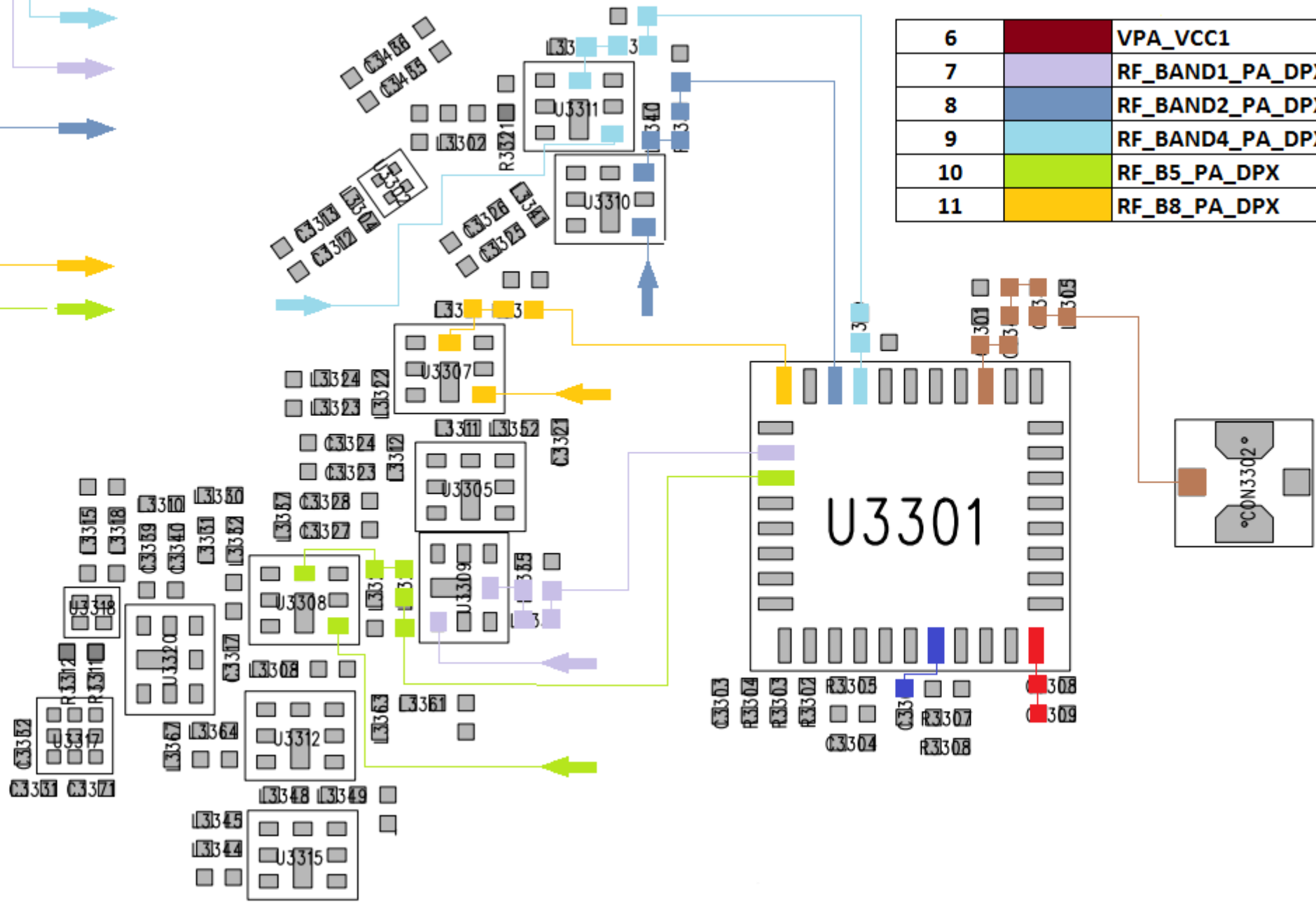


1	XTAL2	26 Mhz
2	VIO18_PMU	~ 1,80 V
3	VTCXO_0_PMU	~ 2,80 V
4	VBAT	~ 4,20 V
5	LTE_VMIPI	~ 1,80 V
6	B5_TRX	RX_GSM 850
7	B8_TRX	RX_GSM 900
8	RF_BAND3_TRX	RX_GSM 1800
9	BAND2_TRX	RX_GSM 1900
10	ANT	TX e RX

TX_WCDMA

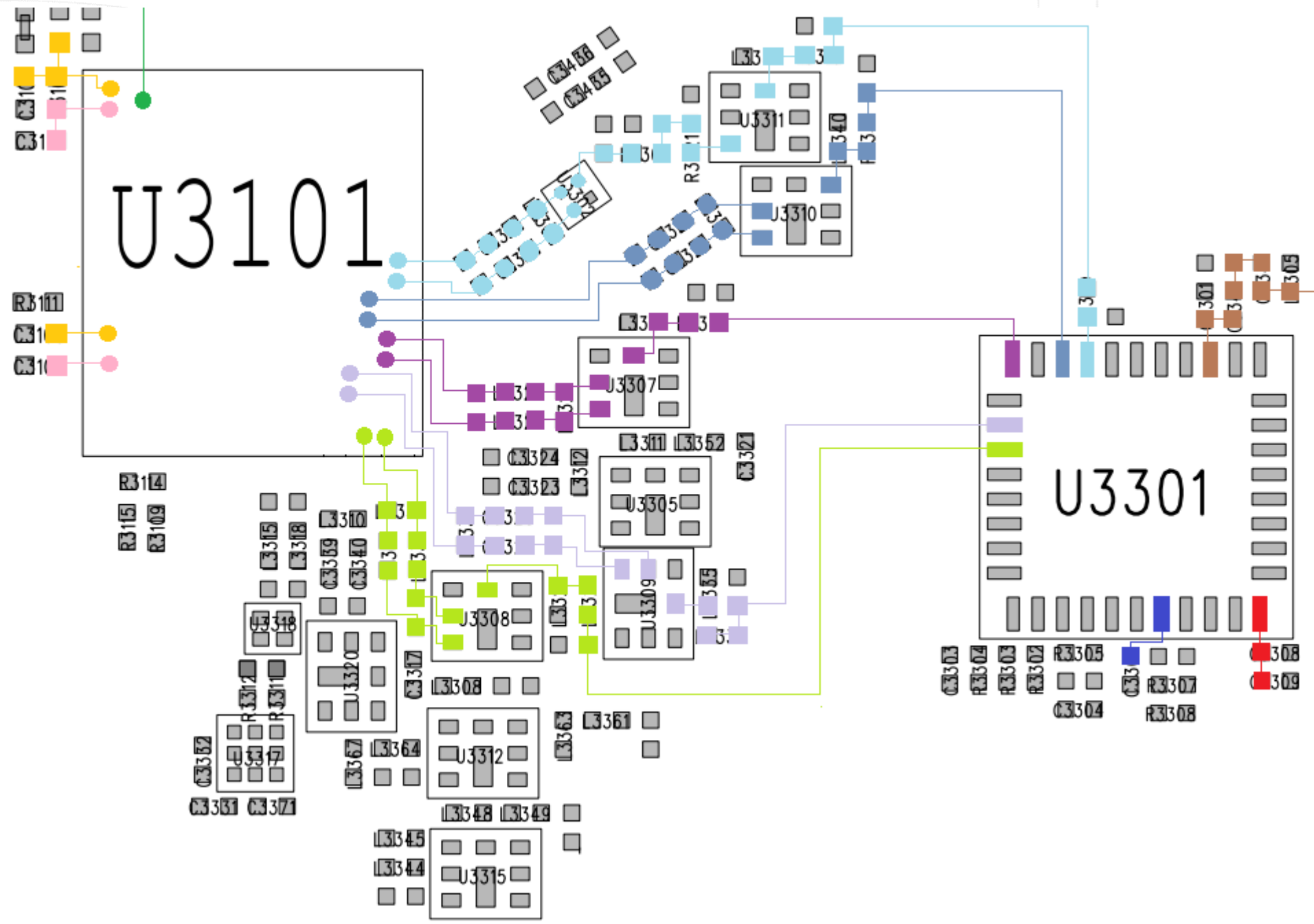


1		3/4G_PAIN_LB	TX B1 , B2 , B4
2		3/4G_PAIN_MB	TX B5 , B8
3		VBAT	~ 4,20 V
4		LTE_VMIPI	~ 1,80 V
5		VPA_PMU	~ 3,20 V



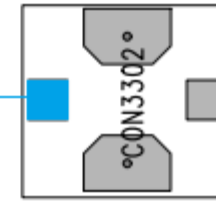
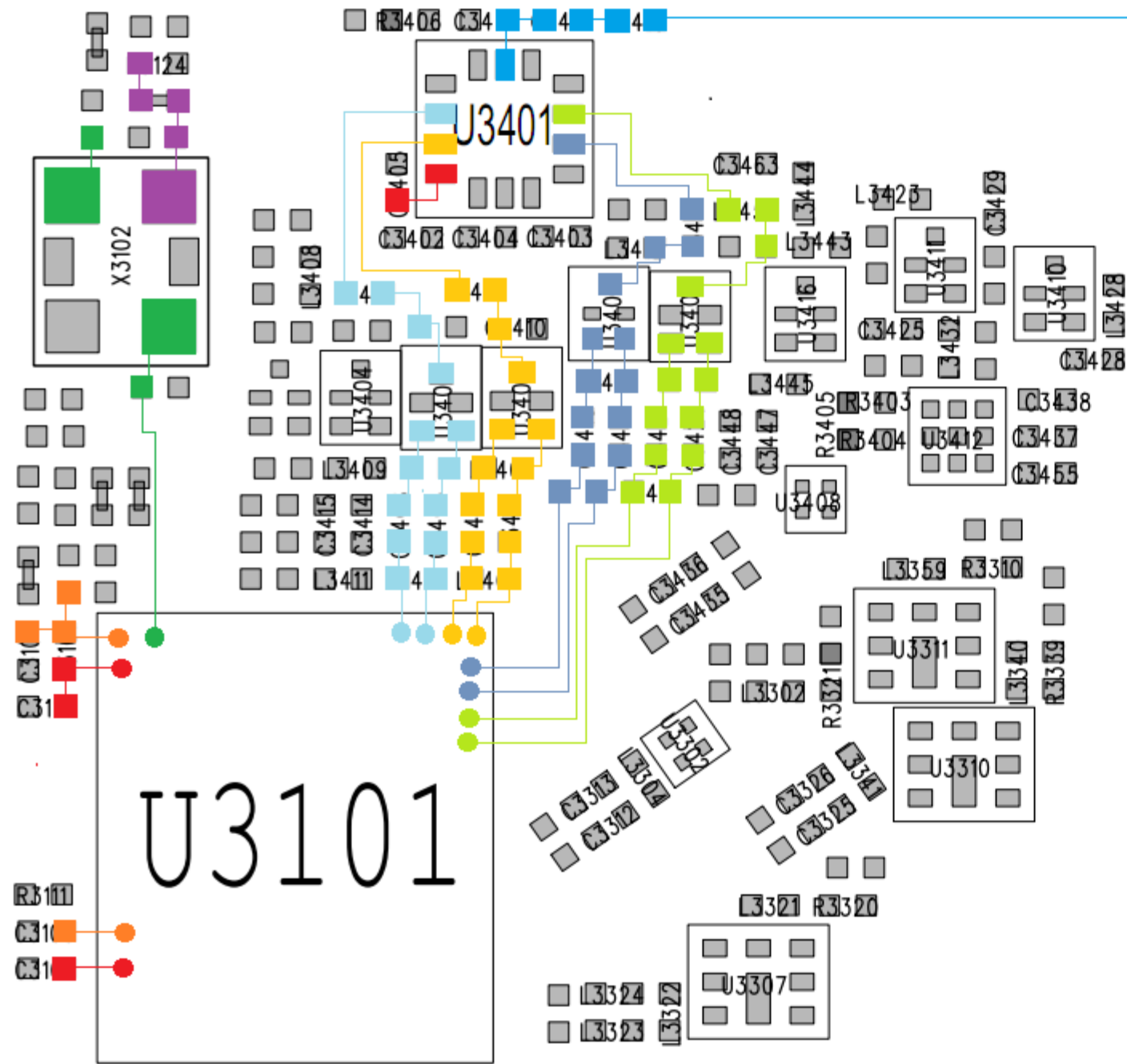
6		VPA_VCC1	~ 3,20 V
7		RF_BAND1_PA_DPX	TX_B1
8		RF_BAND2_PA_DPX	TX_B2
9		RF_BAND4_PA_DPX	TX_B4
10		RF_B5_PA_DPX	TX_B5
11		RF_B8_PA_DPX	TX_B8

RX_WCDMA



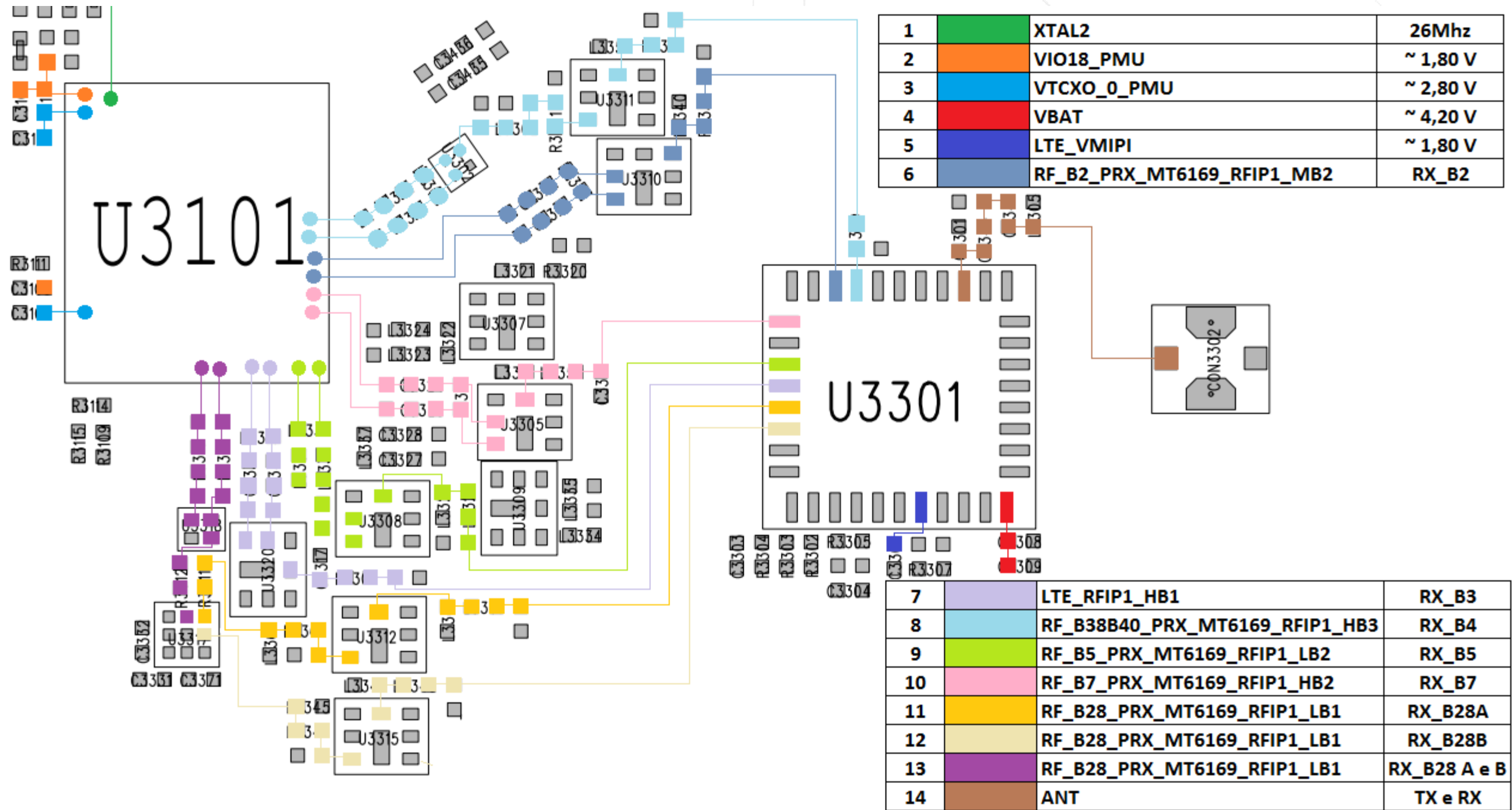
1		XTAL2	26Mhz
2		VIO18_PMU	~ 1,80 V
3		VTCXO_0_PMU	~ 2,80 V
4		VBAT	~ 4,20 V
5		LTE_VMIPI	~ 1,80 V
6		RF_B1_PRX_MT6169_RFIP1	RX_B1
7		RF_B2_PRX_MT6169_RFIP1	RX_B2
8		RF_B38B40_PRX_MT6169_RFIP1	RX_B4
9		RF_B5_PRX_MT6169_RFIP1_LB2	RX_B5
10		RF_B8_PRX_MT6169_RFIP1_LB3	RX_B8
11		ANT	TX e RX

RX_DIV_WCDMA

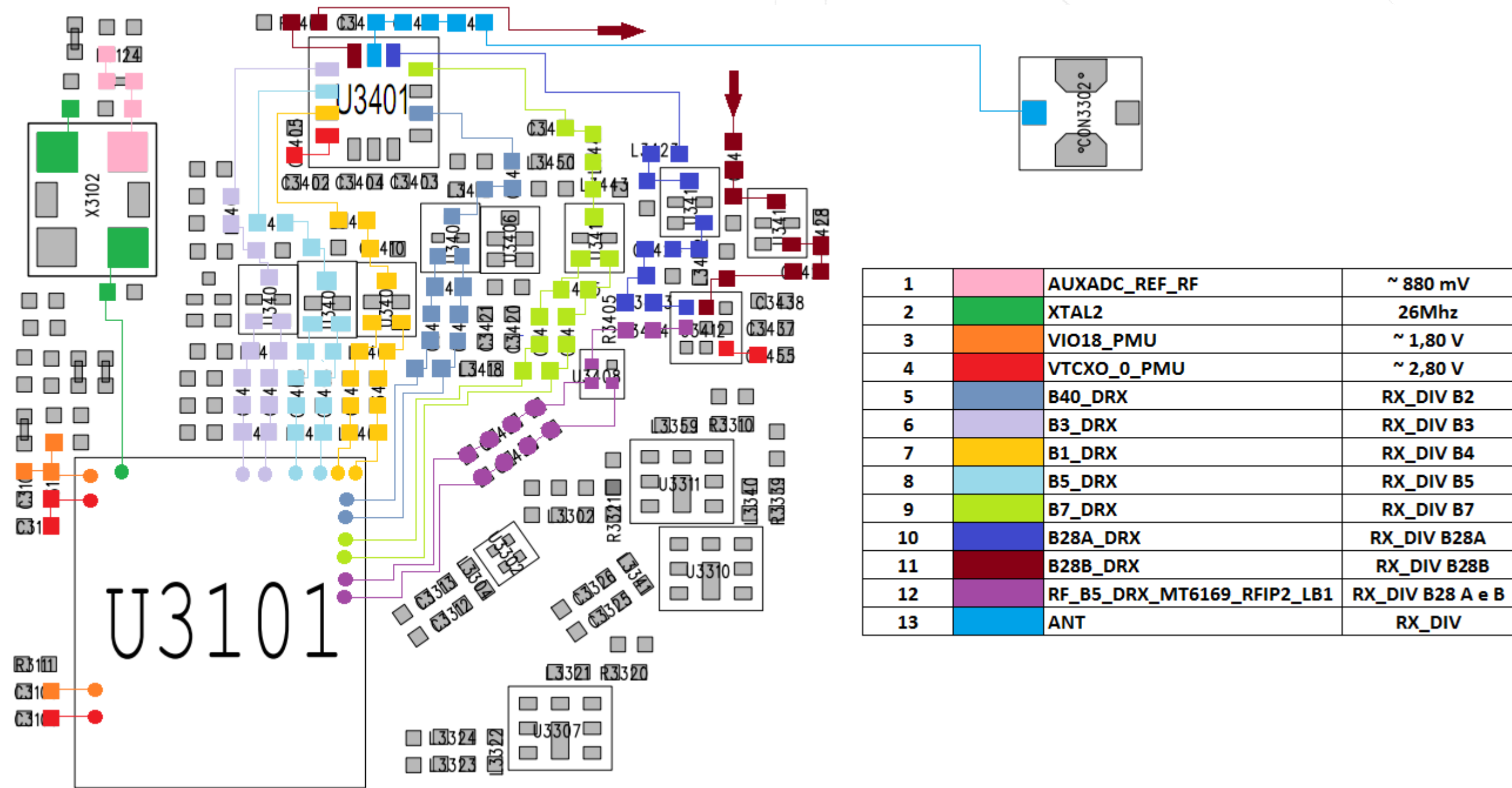


1		AUXADC_REF_RF	~ 880 mV
2		XTAL2	26Mhz
3		VIO18_PMU	~ 1,80 V
4		VTCXO_0_PMU	~ 2,80 V
5		B1_DRX	RX_DIV B1 e B4
6		B40_DRX	RX_DIV B2
7		B5_DRX	RX_DIV B5
8		B8_DRX	RX_DIV B8
9		ANT	RX_DIV

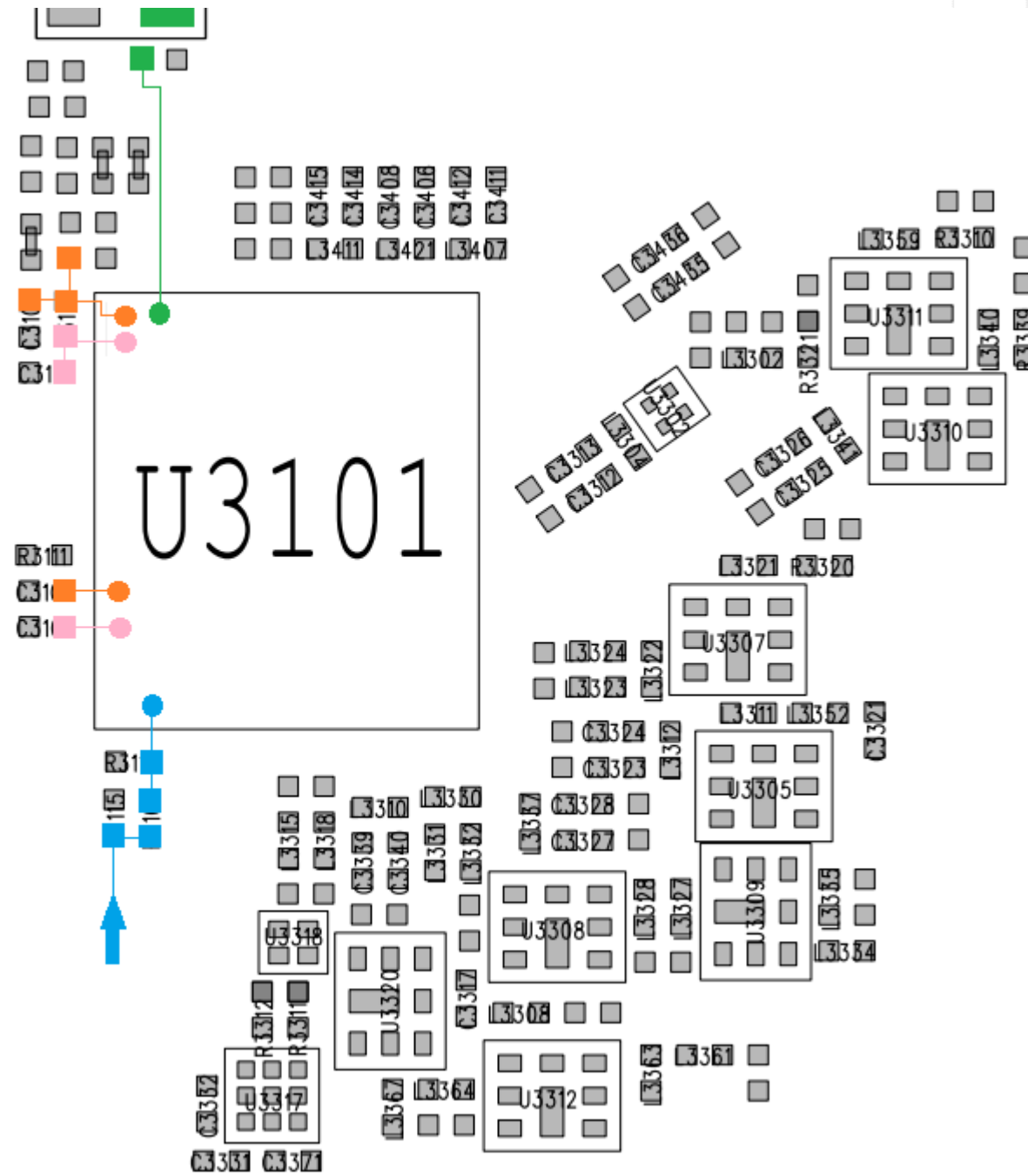
RX_LTE









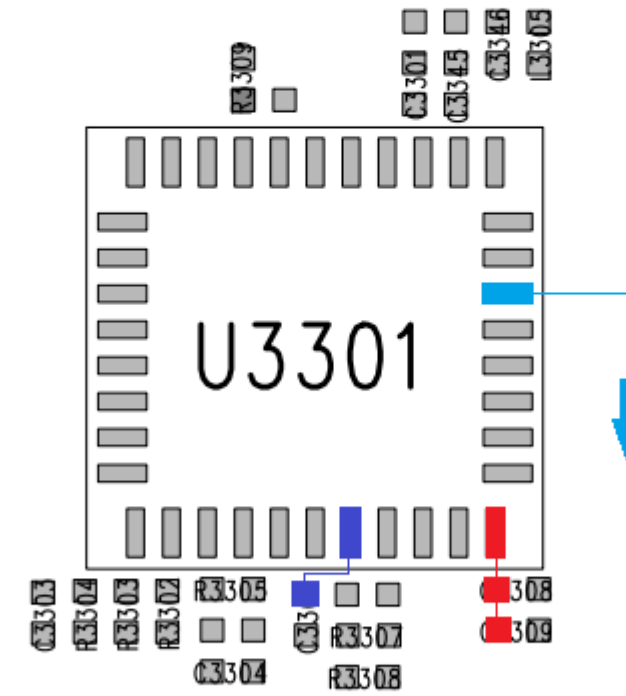
RX_DIV LTE



HDET



1		XTAL2	26Mhz
2		VIO18_PMU	~ 1,80 V
3		VTCXO_0_PMU	~ 2,80 V
4		VBAT	~ 4,20 V
5		LTE_VMIPI	~ 1,80 V
6		RF_TXDET	HDET



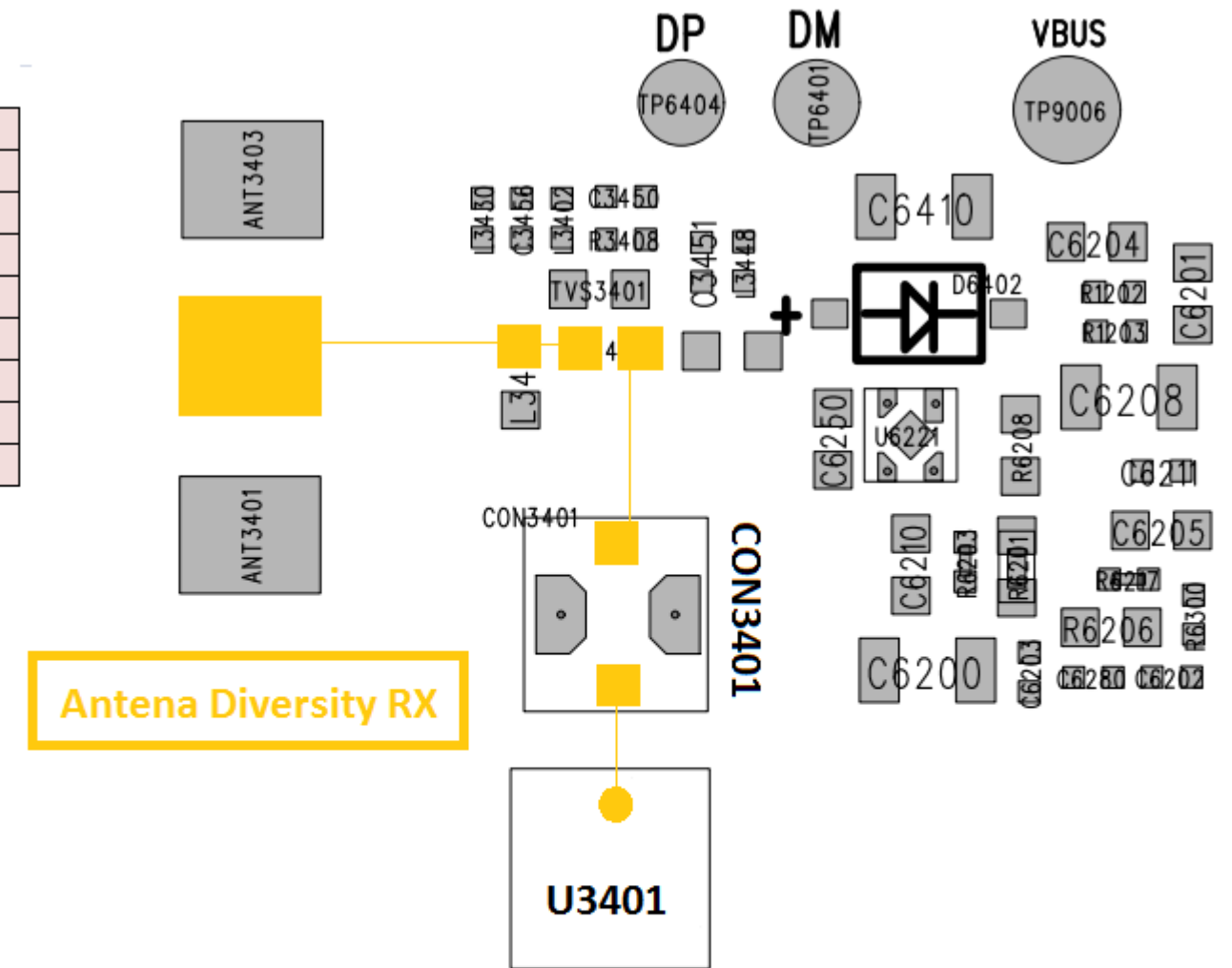
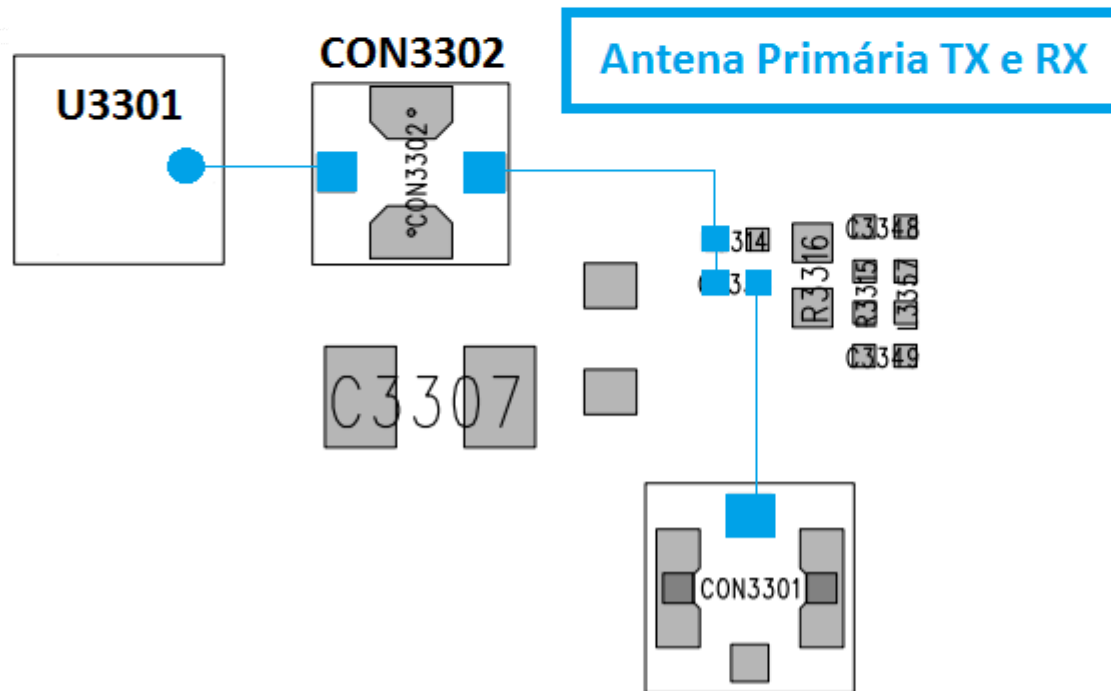
Antenas TX e RX (Primário e Diversity)

LACROSSE

GSM e EDGE / 2G		
Bands	TX	RX
GSM 850	OK	OK
GSM 900	OK	OK
GSM 1800	OK	OK
GSM 1900	OK	OK

WCDMA / 3G			
Bands	TX	RX	DIV
B1	OK	OK	OK
B2	OK	OK	OK
B4	OK	OK	OK
B5	OK	OK	OK
B8	OK	OK	OK

LTE / 4G			
Bands	TX	RX	DIV
B2	OK	OK	OK
B3	OK	OK	OK
B4	OK	OK	OK
B5	OK	OK	OK
B7	OK	OK	OK
B28A	OK	OK	OK
B28B	OK	OK	OK



Frequências

GSM			
Banda	Canal	Frequência TX	Frequência RX
GSM850	189	836.4 Mhz	881.4 Mhz
GSM900	62	902.4 Mhz	947.4 Mhz
GSM1800	512	1710.2 Mhz	1805.2 Mhz
GSM1900	661	1880 Mhz	1960 Mhz

WCDMA				
Banda	Canal TX	Frequência TX	Canal RX	Frequência RX
W2100 (B1)	9750	1950 Mhz	10700	2140 Mhz
W1900 (B2)	9400	1800 Mhz	9800	1960 Mhz
W1700 (B4)	1413	1732.6 Mhz	1638	2132.6 Mhz
W850 (B5)	4183	836.6 Mhz	4408	881.6 Mhz
W900 (B8)	2787	897.4 Mhz	3012	942.4 Mhz

LTE				
Banda	Canal TX	Frequência TX	Canal RX	Frequência RX
B2	18900	1880 Mhz	900	1960 Mhz
B3	19575	1747.5 Mhz	1575	1842.5 Mhz
B4	20175	1732.5 Mhz	2175	2132.5 Mhz
B5	20525	836.5 Mhz	2525	881.5 Mhz
B7	21100	2535 Mhz	3100	2655 Mhz
B28A	27435	725.5 Mhz	9435	780.5 Mhz
B28B	27533	735.3 Mhz	9533	790.3 Mhz



Obrigado e bom debug a todos !