





CONFIDENTIAL

Jul 02, 2014

**PRODUCT ENGINEERING – FABIO MULLER** 



🙊 QRCT External Licensed						
<u>F</u> ile <u>V</u> iew	FTM <u>C</u> ommand	<u>T</u> ool	<u>W</u> in			
COM Port 🔻	Mobile Mode Con	trol	Boot			
GSM BER	OffLine					
GSM NS APIs	Reset					
-GSM NS Contr	FTM	2				
	OnLine					
1000	Timeout(ms	5	Slot			
Start GSM			Туре			
			Care			

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<u>F</u> ile <u>V</u> iew	FTM <u>C</u> ommand	<u>T</u> ool <u>W</u> ine			
COM Port 🔻	Mobile Mode Cont	rol 🔻 Boot			
GSM BER	OffLine				
GSM NS APIs	Reset				
-GSM NS Contr	FTM	3			
	OnLine				
1000	Timeout(ms)	Slot			
Start G	Туре				
		Sper			



#### 2 – Em "FTM Command" selecionar a ferramenta abaixo:

#### 1 – FTM RF Verification

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<u>F</u> ile <u>V</u> iew	FTM <u>C</u> ommand <u>T</u> ool	Window Custom APIs Help
COM Port 🔻	<u>R</u> F	Mode - ESN HW Ver QMSL Lit
FTM RF Verifica	<u>N</u> on-Signaling	
CDMA   GSI	<u>I</u> ntelliCeiver C <u>o</u> mmon	•
Setup -	Audio	Tx
Band I 9612	<u>Р</u> МІС <u>В</u> Т <u>Е</u> М	► Set Tx Power (dBm*10)
1922.4 2112.4	<u>N</u> FC <u>C</u> amera	Rx
S	Q <u>E</u> use Q <u>E</u> PROM <u>W</u> LAN FTM <u>S</u> equencer	Get Rx Level (dBm*10) -250 Rx AGC
	HWTC FTM RF Verification FTM AP	1
	AN <u>T</u> Set	•



## 3 – Setup do 2G \_TX

- 1 Selecionar à Aba "GSM"
- 2 Selecionar "Banda e Canal"
- 3 Ligar os "Time Slots" desejados
- 4 Ajustar a potencia (potencia X 10)
- 5 MCS TX GSM = 1-4 / TX EDGE= 5-9
- 6 Set Matrix
- 7 Set Tx ON
- 8 Set Tx Off para desligar o TX

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<u>F</u> ile <u>V</u> iew FTM <u>C</u> ommand <u>T</u> ool <u>W</u> indow Custom <u>A</u> PIs <u>H</u> elp								
COM Port ▼ Mobile Mode Control ▼ Boot Mod	e <del>▼</del> ESN HW Ver	QMSL Library Mode 🔻	Command	Code 🔻	Status Polli	ing 👻 User Defin	ed Transport 🔻	Target 🔻 🖕
FTM RF Verification								
CDMA GSM LTE   TD-SCDMA   WCDMA								
	-							
Setup	Tx Burst Command		Tx Frame	Matrix <b>3</b>		4	5	
GSM 850		Slot Number	Slot	Δ	ctive	dBm*100	MCS	
192 Set Channel			0		icave -		1400	
837 Tx Freq (MHz)		I SC Index	U	ION	-	3000	MCS1	_
882 Rx Freq (MHz)	Random Data 💌	Data Source	1	OFF	-	0	MCS1	<b>-</b>
		Number of Burst	2	OFF	-	0	MCS1	•
7 Set Tx On	🔲 Infinite Burst		3	OFF	-	0	MCS1	•
8 Set Tx Off	Set Tx Cont		4	OFF	-	0	MCS1	•
Frequency Adjust	Set Tx Burst		5	OFF	-	0	MCS1	•
User Adjust			6	OFF	-	0	MCS1	<b>-</b>
Center Freq			7	OFF	-	0	MCS1	•
Enable XO					6	Set Matrix		_
Total Adjust								

## 4 – Setup do 2G\_RX

QRCT -- External Licensed File View FTM Command Tool Window Custom APIs Help COM Port 
Mobile Mode Control 
Boot Mode 
ESN HW Ver QMSL Library Mode 
Command Code 
Status Polling 
User D 1 – Selecionar à Aba "GSM" FTM RF Verification CDMA GSM LTE | TD-SCDMA | WCDMA 2 – Selecionar "Banda e Canal" Setup Tx 3 – Ligar o Modo de Recepção Tx Burst Command Tx Frame Matrix RF Mode GSM 1800 -Slot Number Slot Active dBm\*100 699 Set Channel 4 - Configure LNA State TSC Index 0 OFF -0 1747.6 Tx Freq (MHz) Data Source OFF -Random Data -0 5 – Get RSSI – dividir a respota por 16 1842.6 Rx Freq (MHz) 2 • Number of Burst OFF 0 Set Tx On Infinite Burst 3 OFF • 0 Set Tx Off • Set Tx Cont 4 OFF 0 5 -Frequency Adjust Set Tx Burst OFF 0 User Adjust 6 OFF • 0 Center Frea OFF -0 Enable XO Set Matrix Total Adjust Rx Set Rx Burst Slot Number 0 Exp. DL Power (dB16) Burst Rx On Cont Rx On No. of Rx Bursts Burst Rx Off Cont Rx Off 4 Configure LNA State -427 DL Power (dB16) 38915277 RSSI 5 Get RSSI



# Thank you







Fabio Muller – Product Engineering 2G – RX\_TX