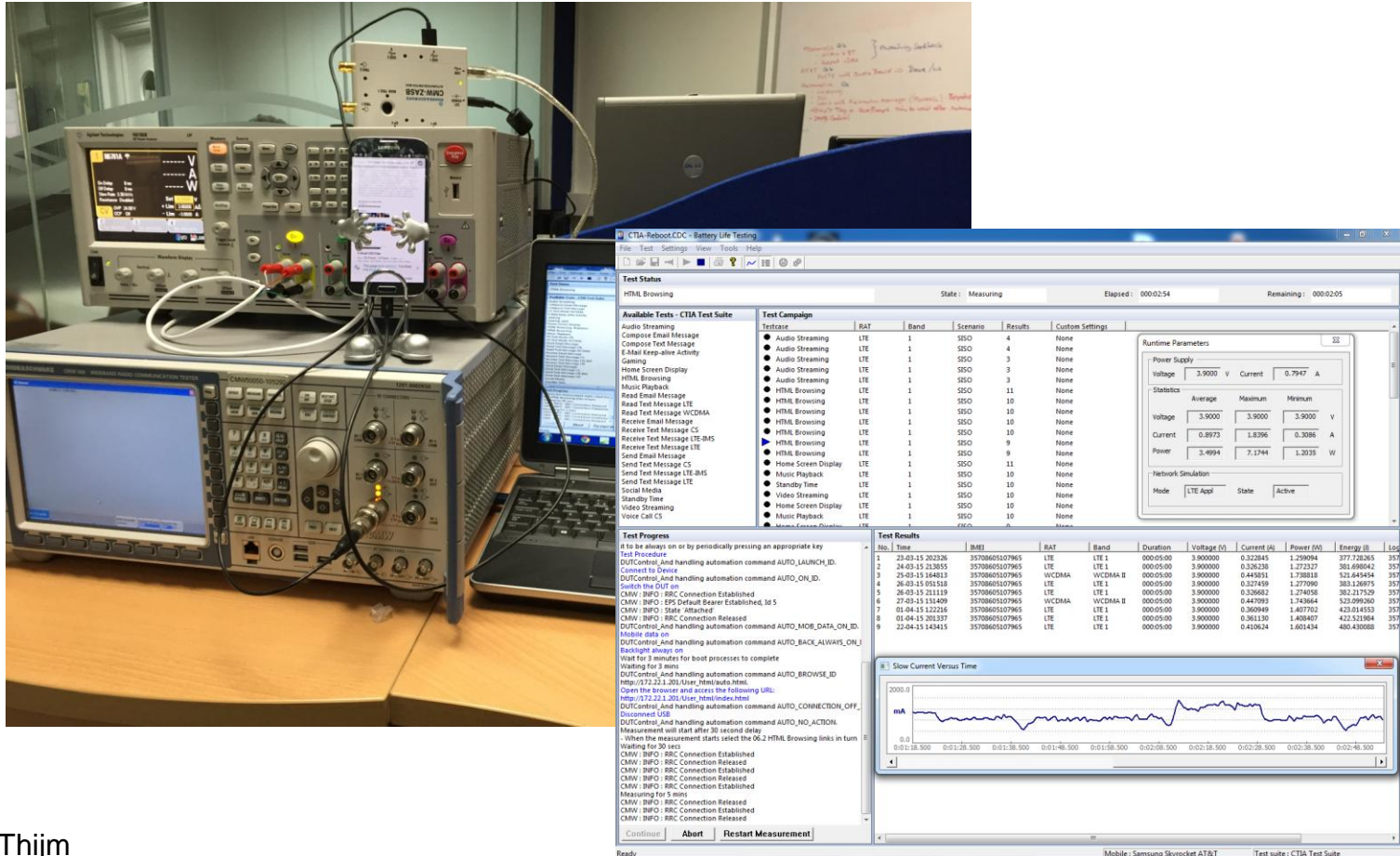


CTIA Battery Life Testing



Michael Thijm
michael.thijm@analytek.co.uk
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- Version 1.0 of the Test Plan was released in April 2016.
- Analytek have been informed that their solution was accepted as a validated platform on 19th August 2016.
- The Validated Test Platform list was published by CTIA on 9th September 2016 and distributed to all Approved Labs (CATL).
- Software available from Analytek NOW.

**R&S CMW500 Network Simulator
GSM, WCDMA, LTE, CDMA**



Setup &
Control



RF



Measure
V + I



Setup,
Control &
Measurement



**KeySight N6705B
Analyser**

Currently only Power Analyser
accepted by CTIA

UE with Live
Battery (TAE)
or Dummy Battery
for Energy Use

1. Use fully charged Live Battery for the Total Available Energy of the battery.
Use Dummy Battery for Energy Use per Activity Measurements.

2. Simulated Network and Internet LTE primary interest, although currently Voice call is WCDMA

3. PC running Analytek measurement software

4. Measure Voltage and Current simultaneously and instantaneous Power at minimum 50ks/s.

5. Testing is complete when UE powers down.

Solution Requirement Overview



Test Platform Number	Manufacturer	Model	SW Version	Script Version	Notes / Required options
	Analytek Limited	ANALYTEK BATTERY LIFE SW			
		ANA-TSB-CTIA or ANA-TS-CTIA-BLTP	Framework 3.50 Build 520 or later	Test Suite 1.00 or later	ANA-TSB-CTIA is required for new installations. When adding to existing licensed Test Suite(s), only ANA-TS-CTIA-BLTP is required (ANA-OPT-AUX-PSU is a pre-requisite)
	Rohde & Schwarz	BASE HARDWARE			Specific options required in addition to any existing options fitted
		CMW500	3.5.80 and later		Wideband Radio Communication Tester
		CMW-B590A or B590D			RF Frontend, basic (B590A) or advanced (B590D) - 2 required
		CMW-B570B			RF Converter (TRX) - 2 required
		CMW-B612A or B612B			IEEE Bus Interface, single interface
		LTE FDD HW & SW			Specific options required in addition to any existing options installed
		CMW-B300B			Signaling Unit Wideband (SUW), for WCDMA / LTE
		CMW-KS500	3.5.30 and later		LTE FDD Release 8, SISO, signaling/network emulation, basic functionality
		CMW-KS510	3.5.30 and later		LTE FDD Release 8, SISO, signaling/network emulation, advanced functionality
		CMW-KS520	3.5.30 and later		LTE FDD MIMO 2x2, signaling/network emulation, generic feature
		WCDMA			Specific options required in addition to any existing options installed
		CMW-KS400	3.5.30 and later		WCDMA Release 99, signaling/network emulation, basic functionality
		CMW-KS410	3.5.30 and later		WCDMA Release 99, signaling/network emulation, advanced functionality
	APPLICATION TESTING HW & SW			Specific options required in addition to any existing options fitted and installed	
	CMW-B450A or B450B or B450D			Data Application Unit	
	CMW-KA100, KA150 and KAA20	3.5.30 and later		Application Testing (CMW-PK45 includes these options and is recommended, but not mandatory)	
	Keysight	KEYSIGHT ANALYSER			
		N6705B	FW D.02.08 or later		Power Analyser
		N6781A or N6785A			Measure Unit for Battery Drain Analysis

- Win 7 or Windows 10
- National Instruments GPIB or VISA
- Analytek CTIA Current Drain Software

Existing Customers:

ANA-TS-CTIA-BLTP – CTIA Battery Life Test Plan

ANA-OPT-AUX-PSU – Additional PSU driver

New Customers:

ANA-TSB-CTIA – CTIA Test Suite Bundle