

Go/No Go Test

- mechanical -



Xperia XZ3

H8416, H9436(Dual SIM), H9493(Dual SIM)

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1 Go/No Go Testing

For more information on Antenna Coupler and Cable in shield box testing, refer to 1220-1336: Generic Repair Manual – electrical, section ‘Setup Go/NoGo Test’!

For part no's on the equipment below, refer to the ‘Tools Catalogue’!

1.1 Test with CMU200 (GSM and UMTS)

1.1.1 Equipment and Software

The following equipment has to be used:

- Rohde & Schwartz RF Package
 - Rohde & Schwartz RF Tester (CMU-200)
 - Rohde & Schwartz RF Shield Box (CMU-Z11)
 - Rohde & Schwartz RF Coupler (CMU-Z10)
- Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Nano USIM Card, instrument specific

The following software and test script has to be used:

- CMWgo (version 2.01)
- Test script in 1317-9358: Go/No Go Radio Application Test

1.1.2 Equipment connection

Connect RF Tester to RF Shield Box and PC. Refer to CMU200 user manual for the detailed connection procedure. RF Shield Box should be connected to **RF2** port of RF Tester via RF Adapter.



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1.1.3 Install CMUgo

Download the following 2 archive files from Rohde-Schwarz web site.

<https://www.rohde-schwarz.com/software/cmu200/>

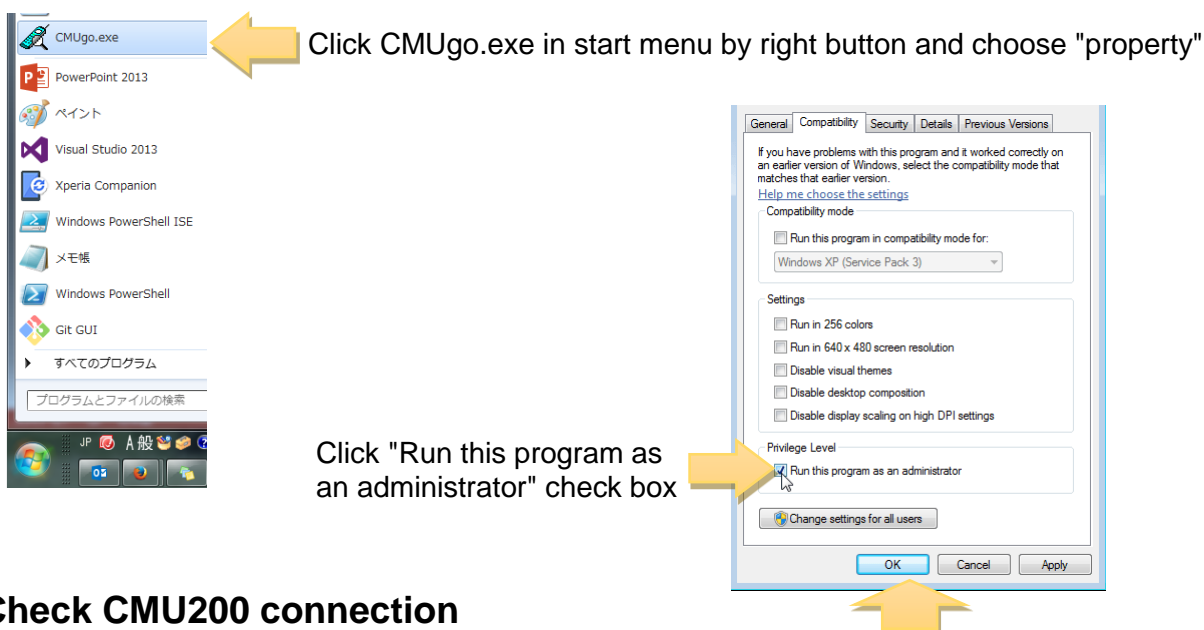
- CMUgo_Updates_2.01_2009_10_13.zip
- Setup_CMUgo_V200.zip

Install "setup.exe" obtained by unzip from "Setup_CMUgo_V200.zip" at first, and then replace "cmugo.exe" in the installation path (C:\Program Files\Rohde&Schwarz\CMUgo) into "cmugo.exe" obtained by unzip from "CMUgo_Updates_2.01_2009_10_13.zip".

1.1.4 Set up CMUgo

(1) Start up as administration

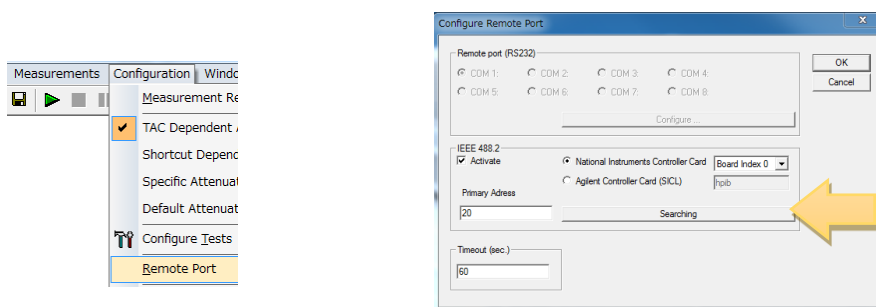
Always run CMUgo as an administrator, following the instruction.



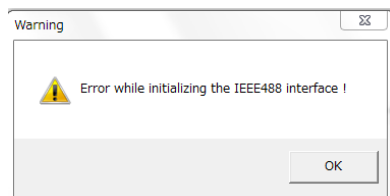
(2) Check CMU200 connection

Verify a connection between CMU200 and your PC.

Launch CMUgo in Start Menu. Choose "Remote Port" in "Configuration" menu, and then "Configure Remote Port" dialog window is opened. Click "Searching" button on it.



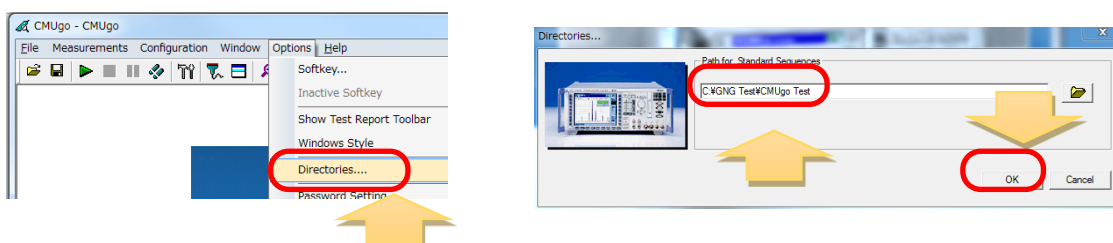
Any error dialog window is not opened if the connection is complete. If the following dialog window is opened, check your connection again. Or re-launch CMUgo after CMU200 launches completely.



(3) Default test script path

Specify a default path of CMU200 test script.

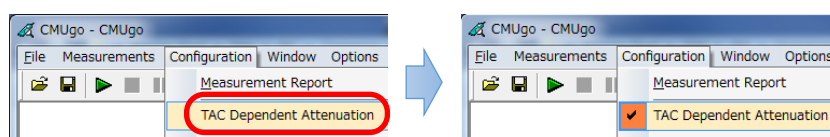
Test script provided by SOMC is always stored to "C:\GNG Test\CMUgo Test" by the installer. Choose "Directories" in "Options" menu, and then "Directories" dialog window is opened. Specify "C:\GNG Test\CMUgo Test", and click "OK" button.



(4) Attenuation file path

Enable "TAC Dependent Attenuation" mode on "Configuration" menu.

It makes CMUgo choose a correct attenuation value from an attenuation file by TAC number of a tested phone unit.



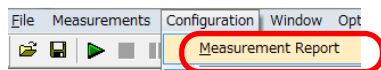
Specify attenuation file path. Choose "GSM/WCDMA" from "Specific Attenuation Table" on "Configuration" menu, and then "Enter Pathlossvalues" dialog window is opened. Specify "C:\GNG Test\CMUgo Test", and click "OK" button.



(5) Log file format and path

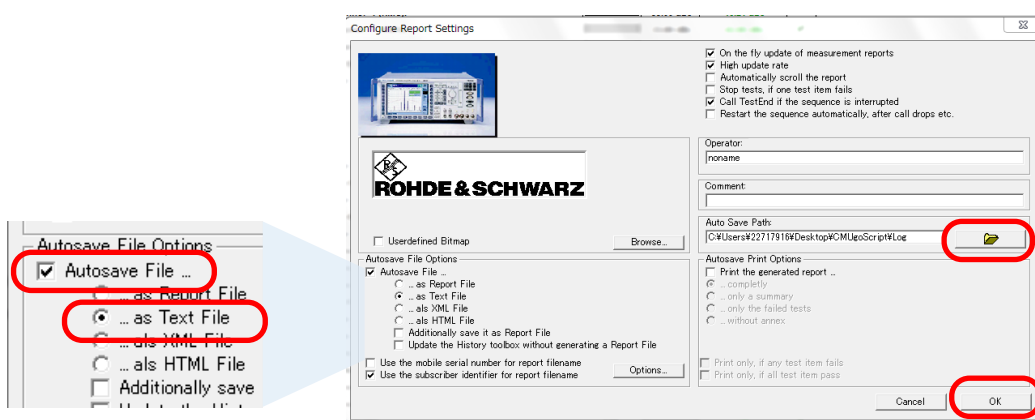
To make CMUgo dump a log file, specify the file's format type and path.

Choose "Measurement Report" on "Configuration" menu, and then "Configure Report Settings" dialog window is opened.



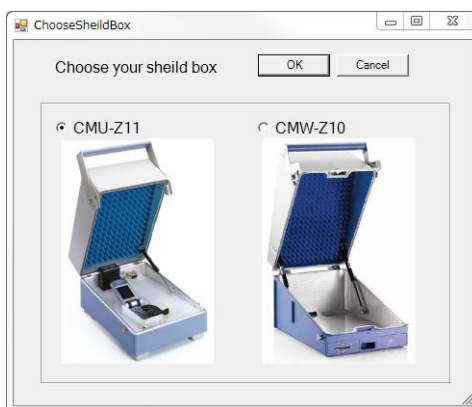
In "Autosave File Options" area, check "Autosave File ..." on, and choose "... as Text File".

In "Auto Save Path" area, specify your comfortable path to dump a log file (Ex. desktop), and click "OK" button.



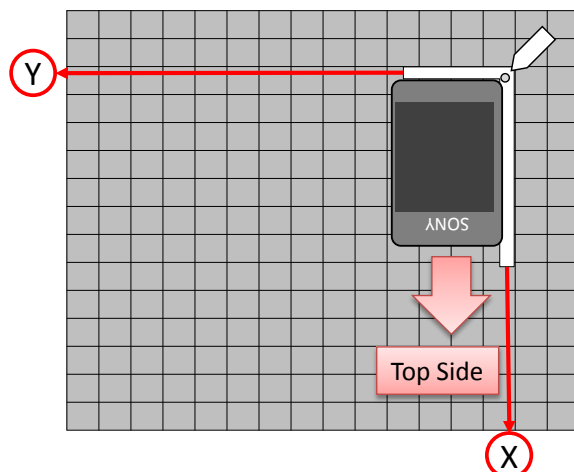
1.1.5 Install test script

Launch "CMUgoScriptInst.exe" in "H84 GoNoGo Test\CMU200" folder, and then the following dialog window is opened. Choose your shield box type, CMU-Z11 or CMU-Z10, and click "OK" button. Then the relative files are installed to "C:\GNG Test\CMUgo" folder.



1.1.6 Put phone unit into shield box

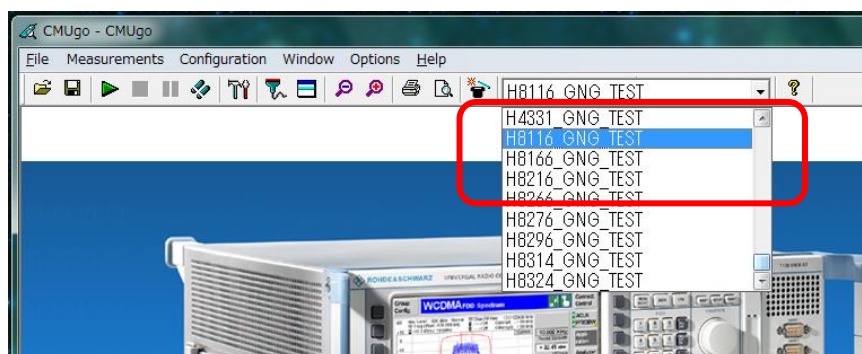
Put the grid positioning holder with its reference point described in the following table.
And place the phone by the top side of phone towards yourself as shown in the adjacent picture. **Make sure your phone position and direction like the following picture.**



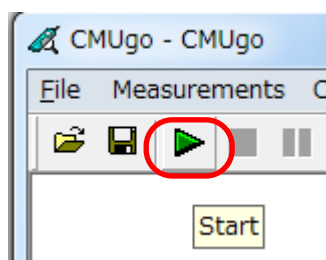
Commercial Name	CMW-Z10		CMU-Z11	
	X position	Y position	X position	Y position
H8416	P	18	I	19
H9436				
H9493				

1.1.7 Execute CMWgo

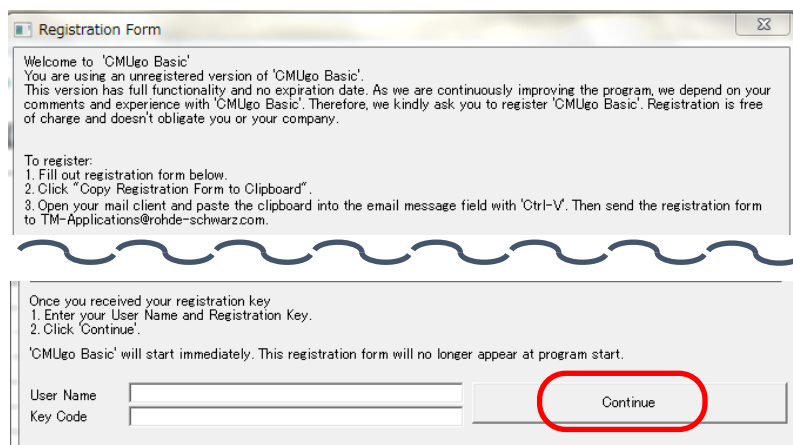
Choose test script for target commercial name.



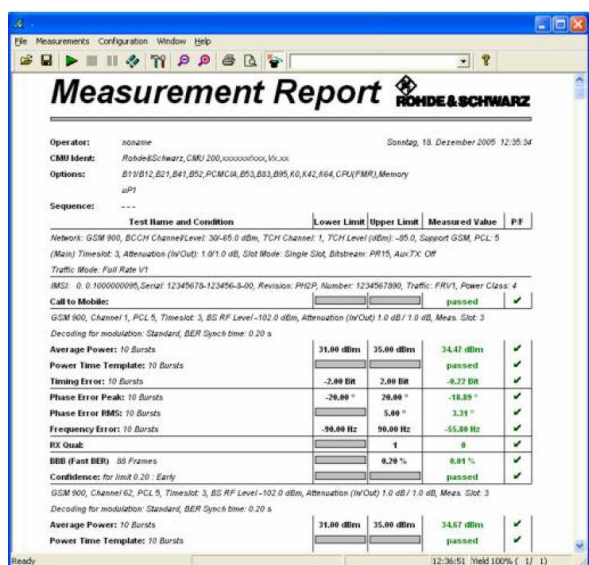
Click "Start" button.



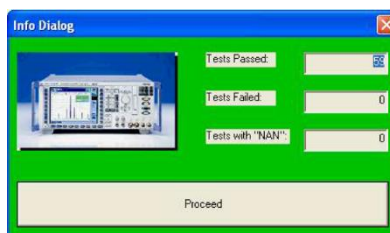
If "Registration Form" dialog window is opened, you do not need to full fill, and just click "Continue" button.



CMUgo shows your test status and launches Pass or Fail result dialog window.



Pass Result case



Fail Result case



1.2 Test with R&S/CMW500 (GSM, UMTS and LTE)

1.2.1 Equipment and Software

The following equipment has to be used:

- Rohde & Schwartz RF Package
 - Rohde & Schwartz RF Tester (CMW-500)
 - Rohde & Schwartz RF Shield Box (CMW-Z10)
 - Rohde & Schwartz RF Coupler (CMW-Z11)
- Grid Positioning Holder
- RF Test Cable Flexible 1M
- RF Adapter for RF Shield Box
- Nano USIM Card, instrument specific

The following software and test script has to be used:

- CMWrun (version 1.8.9 or later)
This CMWrun is available from the following GLORIS web site.
<https://gloris.rohde-schwarz.com>
- Test script in 1317-9358: Go/No Go Radio Application Test

1.2.2 Equipment connection

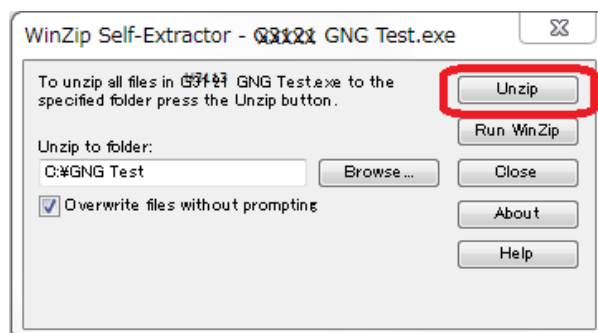
Connect RF Tester to RF Shield Box and PC. Refer to CMW500 user manual for the detailed connection procedure. RF Shield Box should be connected to **RF1 COM** port of RF Tester via RF Adapter.



1.2.3 Install test script

This chapter explains how to install test script using H8416 as the example. The instruction for other variants are same as H8416's.

Execute the "H8416 GNG Test.exe" in "H84 GoNoGo Test\H8416 GoNoGo Test" folder, and click "Unzip" button.

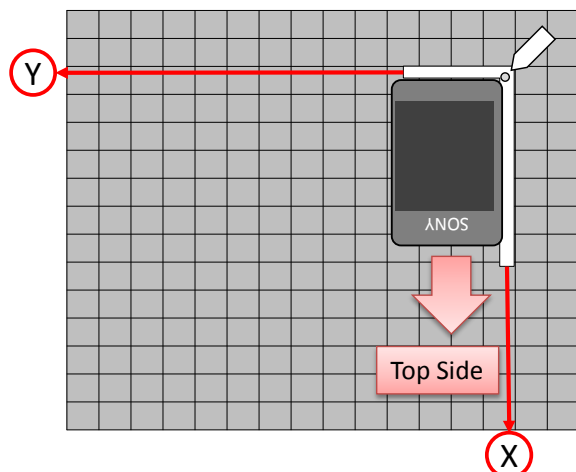


Then the following files will be extracted to "C:\GNG Test\H8416 GNG Test". Please do not modify this path.

File type	File name
GNG Test script	H8416 GNG Test.rstp
Attenuation table	H8416_GSM-ULfda
	H8416_GSM-DLfda
	H8416_WCDMA-ULfda
	H8416_WCDMA-DLfda
	H8416_LTE-ULfda
	H8416_LTE-DLfda

1.2.4 Put phone unit into shield box

Put the grid positioning holder with its reference point described in the following table.
And place the phone by the top side of phone towards yourself as shown in the adjacent picture. **Make sure your phone position and direction like the following picture.**

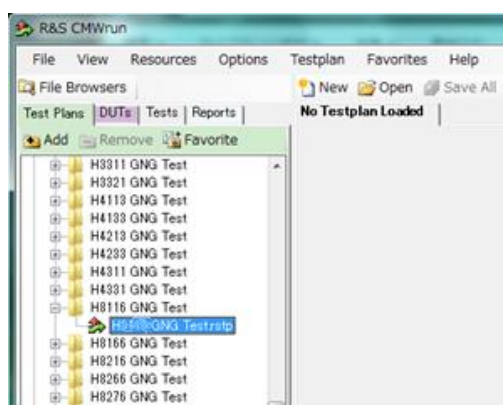


Commercial Name	X position	Y position
H8416	P	18
H9436		
H9493		

1.2.5 Execute CMWrun

Open the GNG Test script file with CMWrun.

Choose test script for target commercial name, and run the test.



Note:

- "log" directory includes the execution log files as the reference.

2 Tested bands

Following bands are tested.

H8416, H9436, H9493:

GSM : 850 / 900 / 1800 / 1900

UMTS : 1 / 2 / 4 / 5 / 6 / 8 / 19^(*1)

LTE : 1 / 2 / 3 / 5 / 7 / 8 / 12 / 13 / 17 / 19 / 20 / 26 / 28 / (29 / 32)^(*2) / 66 / 38 / 39 / 40 / 41 / (46)^(*2)

(*1) Band 19 is not tested with CMU200 due to RF tester limitation.

(*2) Band 29, 32, 42 and 46 are not tested due to RF tester license issue.



Test and Calibration Repair Instruction

3 Revision History

Rev.	Date	Changes / Comments
1	Sep-11-2018	<ul style="list-style-type: none">Initial release