SIC4343 User Manual

By Silicon Craft Technology PLC.

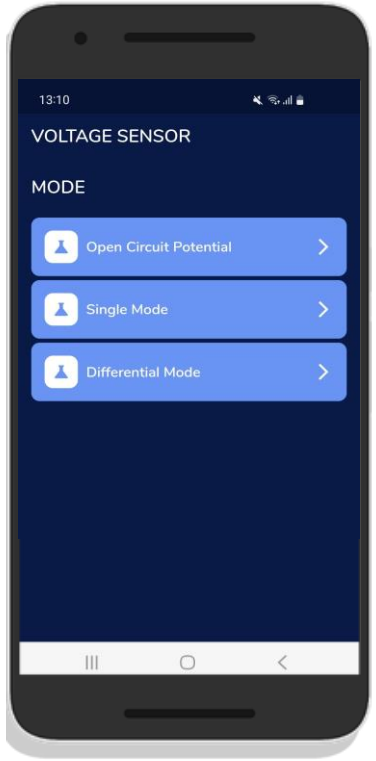
26/06/2023

Contents

Instruments

1. NFC Smartphone with SIC4343 App
2. SIC4343 Development Kit
3. Sensor Electrode

1



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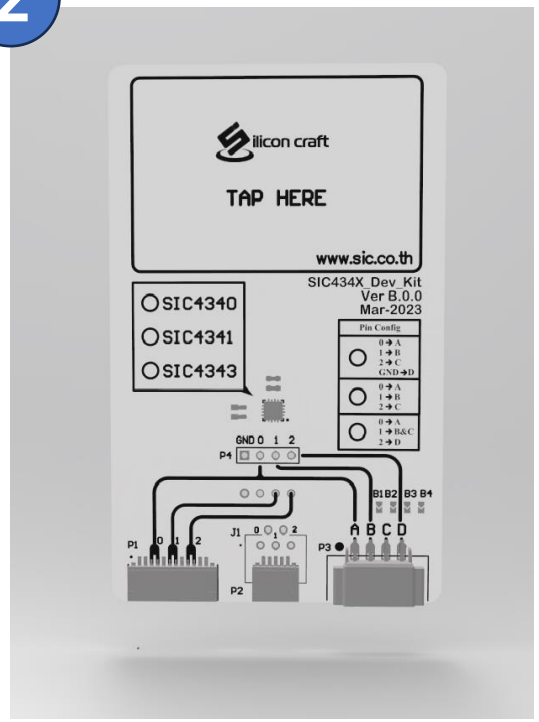
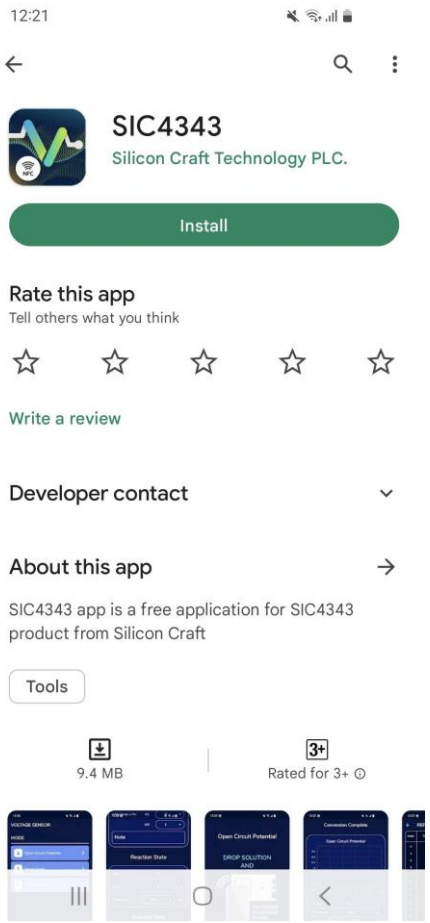


3

SIC4343 Application

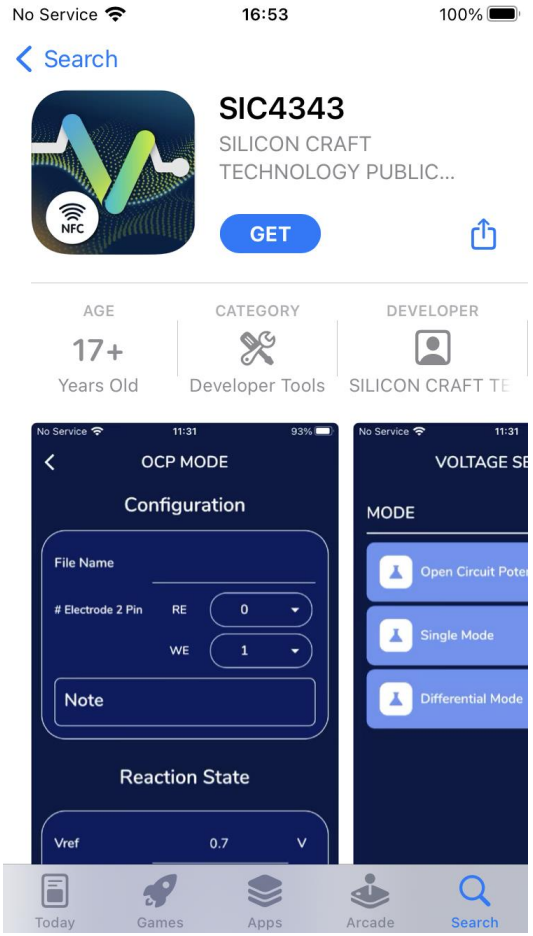
Installation

Android



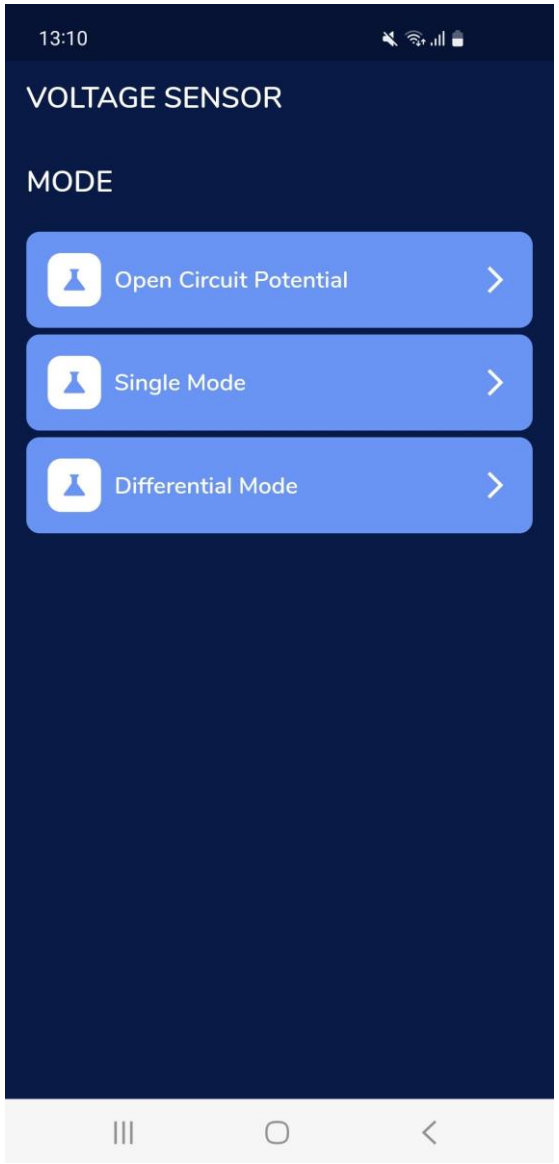
Google Play download link:
https://play.google.com/store/apps/details?id=th.co.sic.app.flutter.chemister_sic4343

iPhone



App Store download link:
https://apps.apple.com/th/app/sic4343/id6448913757

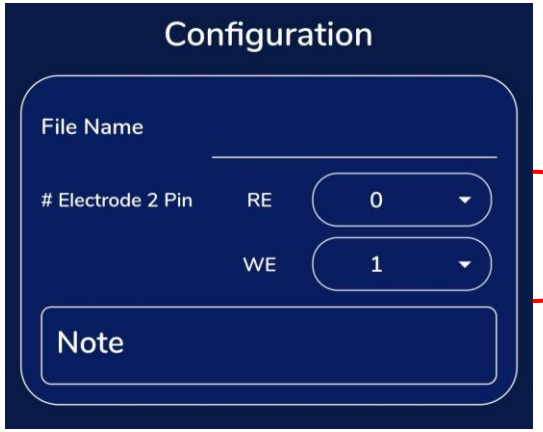
Main Menu



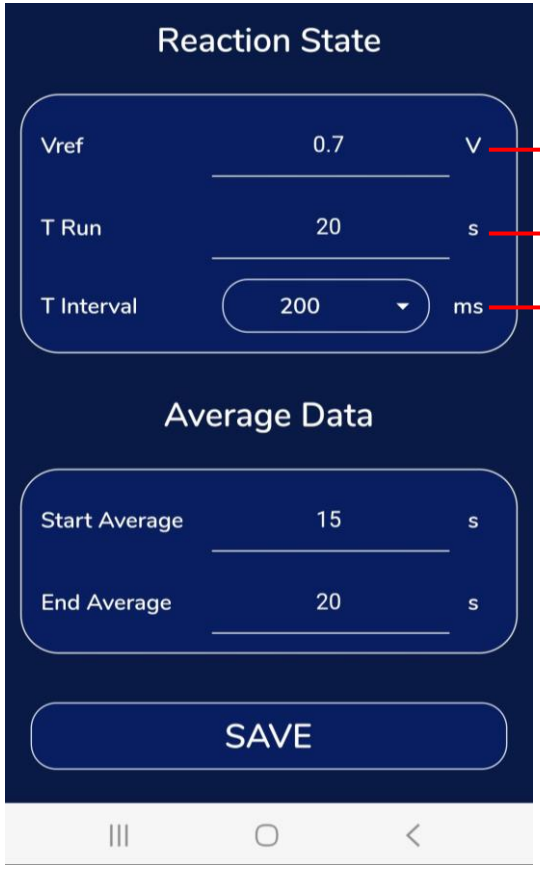
Select the measurement mode

- Open Circuit Potential (OCP)
- Single-end Mode
- Differential-end Mode

Setting [OCP mode]



Set Electrode



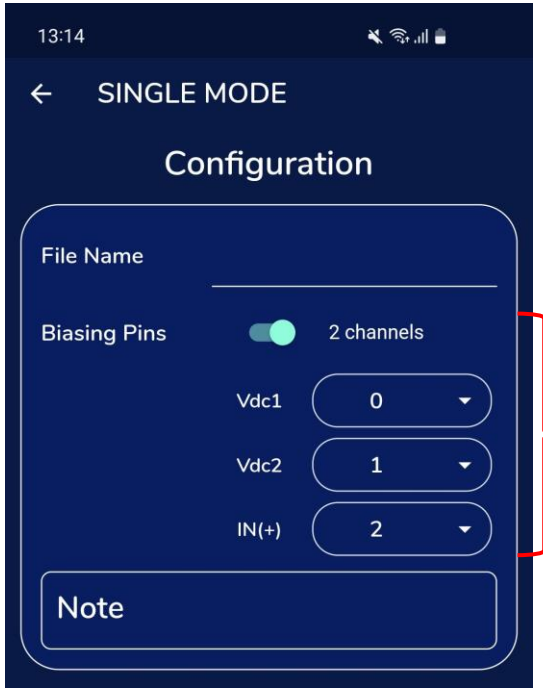
Set reference voltage V_{RE}

Set run time (iPhone maximum 15 s)

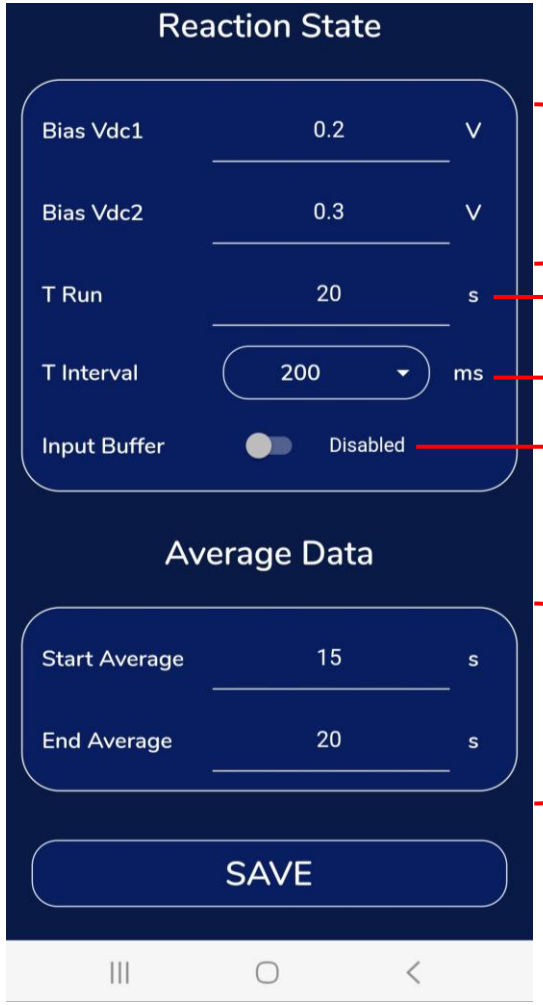
Set Interval time

Set average period of result

Setting [Single-end mode]



Set Electrode
1 or 2 channel biasing selectable



Set bias voltages

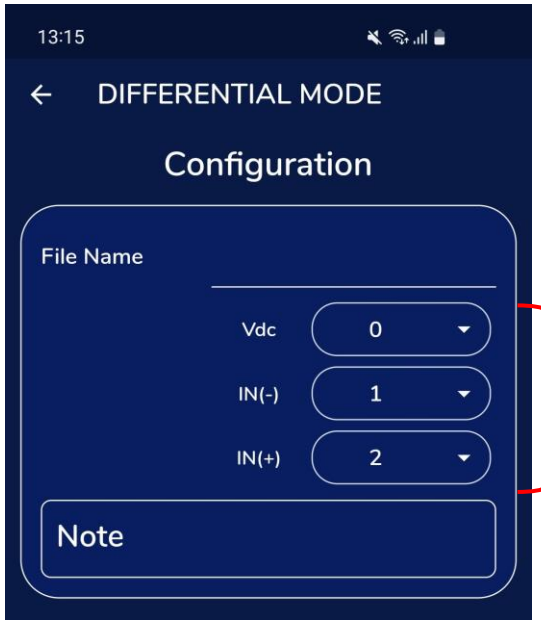
Set run time (iPhone maximum 15 s)

Set Interval time

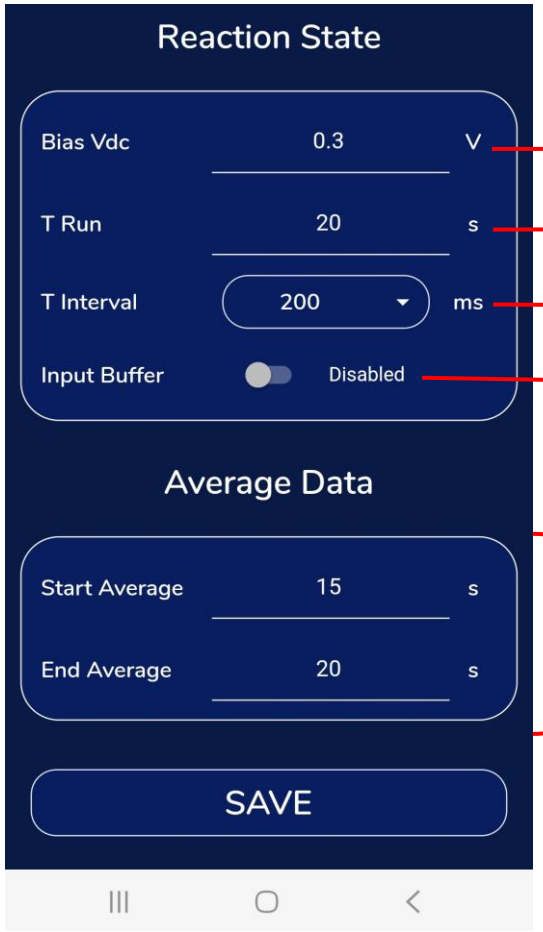
Set Enable/Disable Input Buffer

Set average period of result

Setting [Differential-end mode]



Set Electrode



Set bias voltage

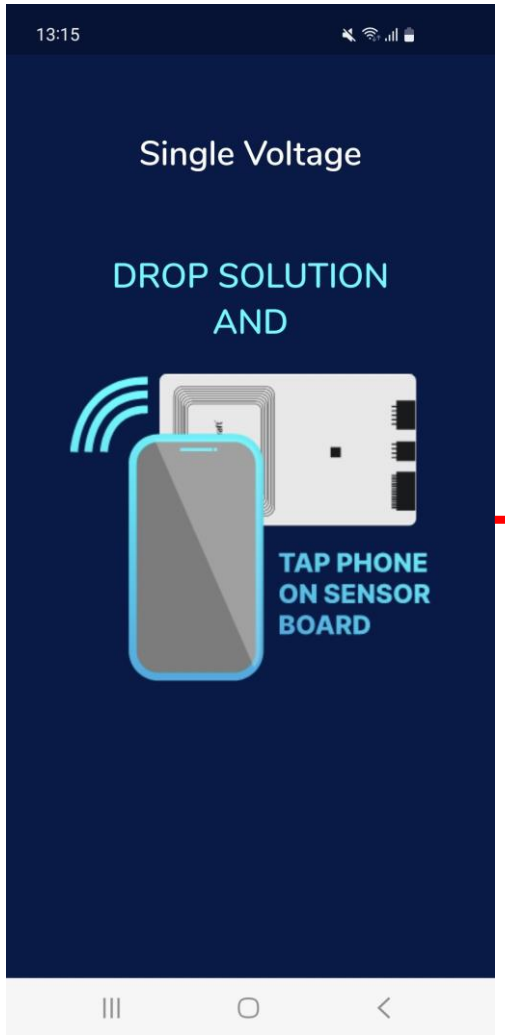
Set run time (iPhone maximum 15 s)

Set Interval time

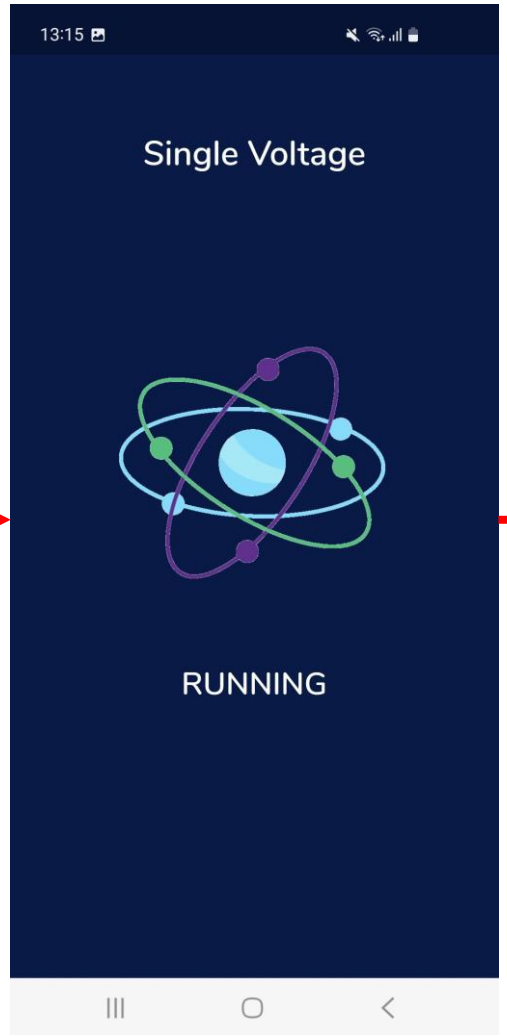
Set Enable/Disable Input Buffer

Set average period of result

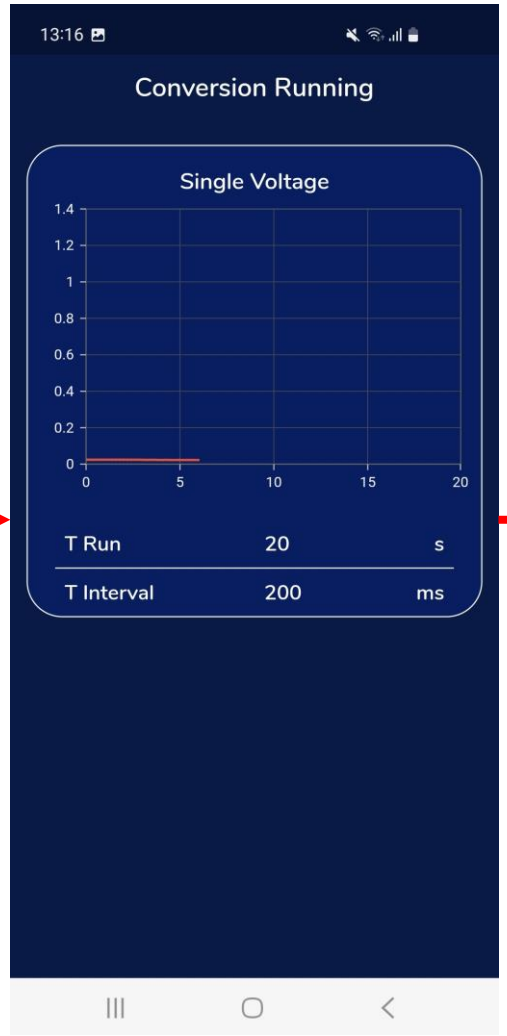
Processing [Android]



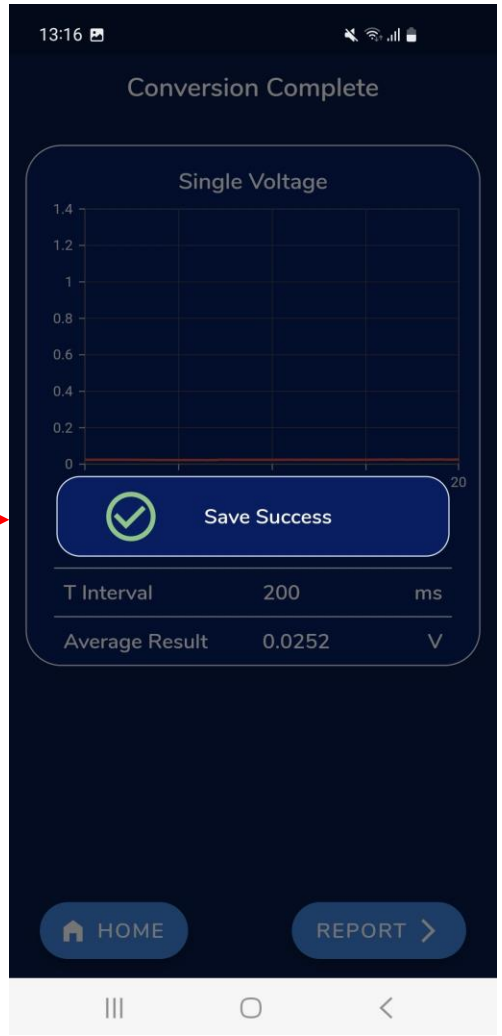
Drop Solution and Tap mobile on the board



Check Power after tap

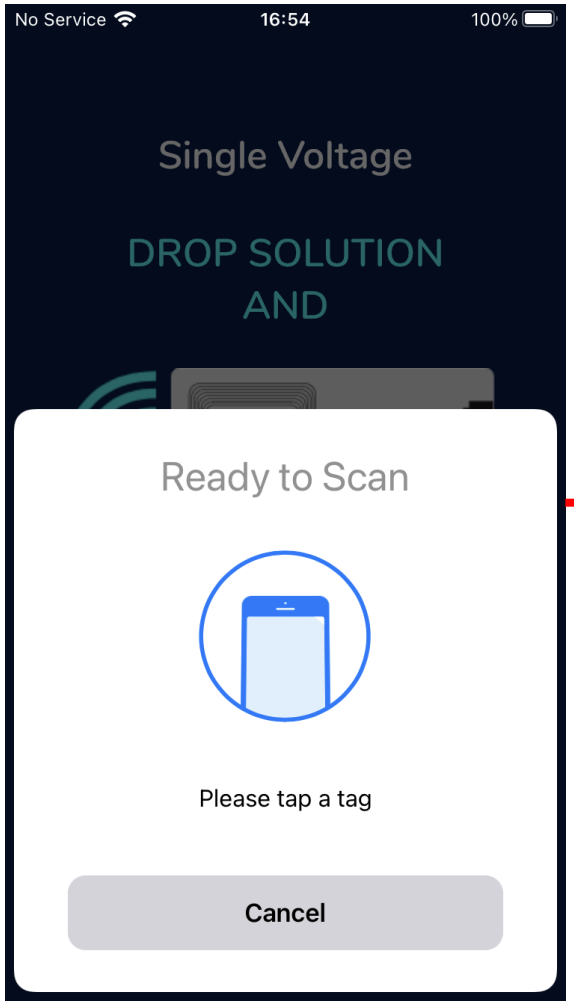


Wait for the measurement

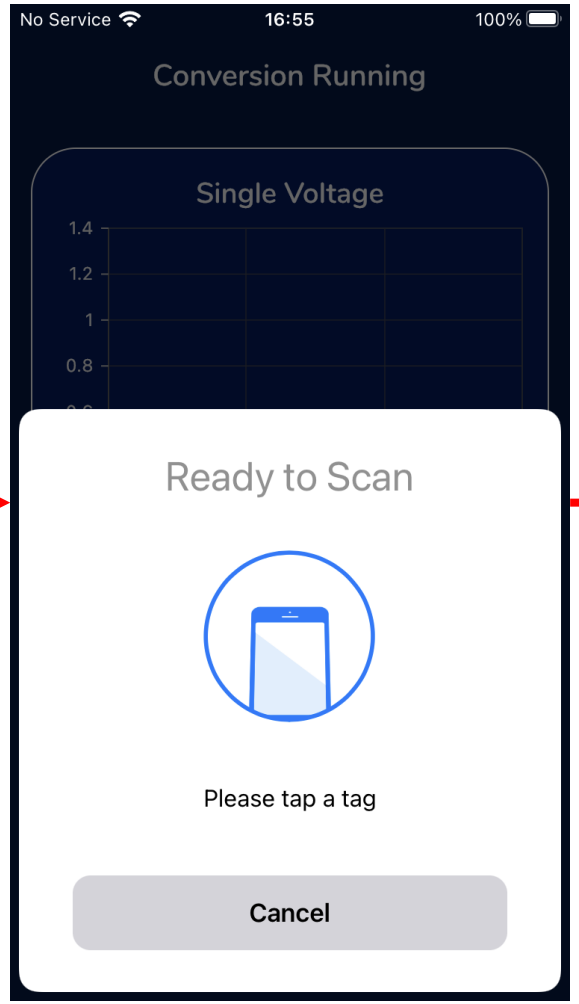


Measurement Completed
Result will be saved automatically

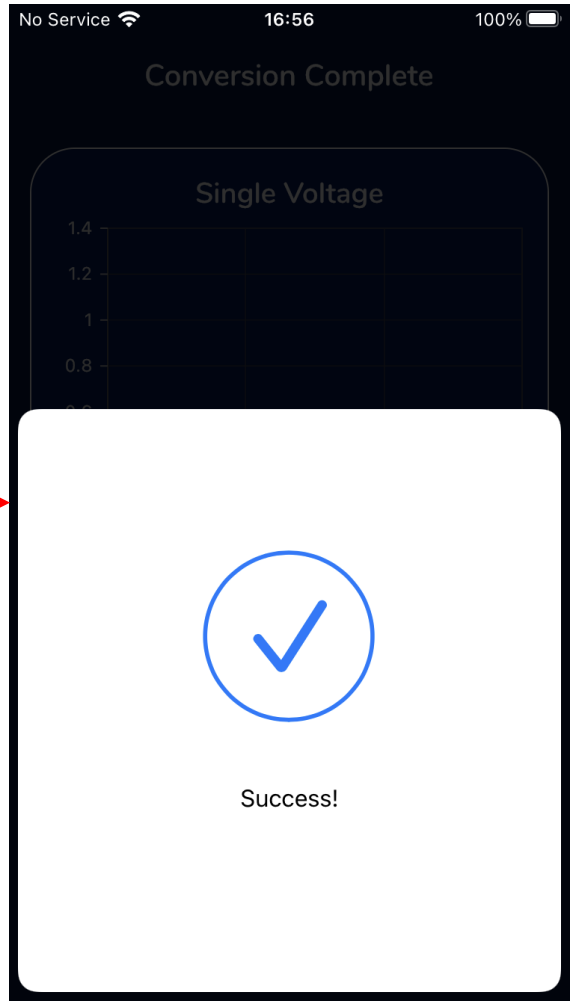
Processing [iPhone]



Drop Solution and Tap mobile on the board

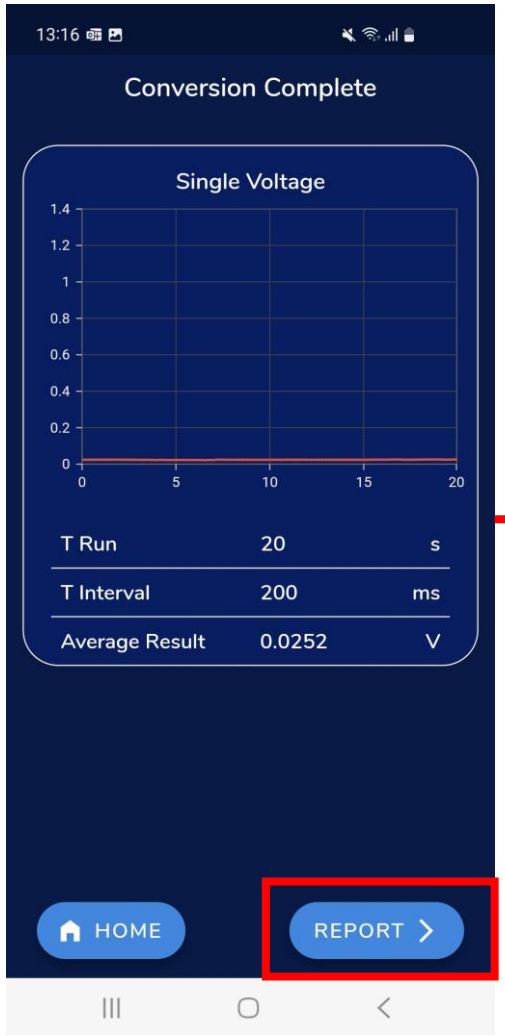


Wait for the measurement
Do not press cancel

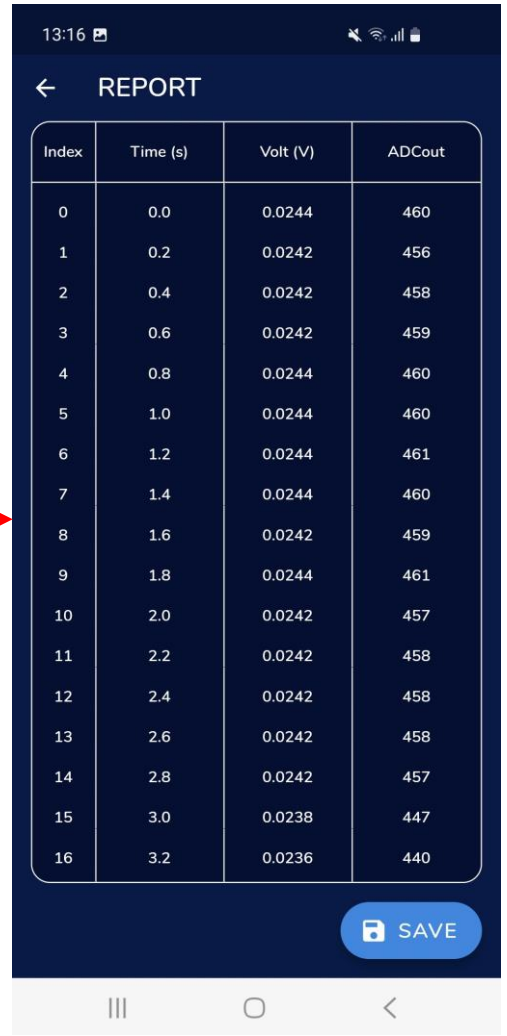


Measurement Completed
Result will be saved automatically

Result



Click ‘REPORT’ button

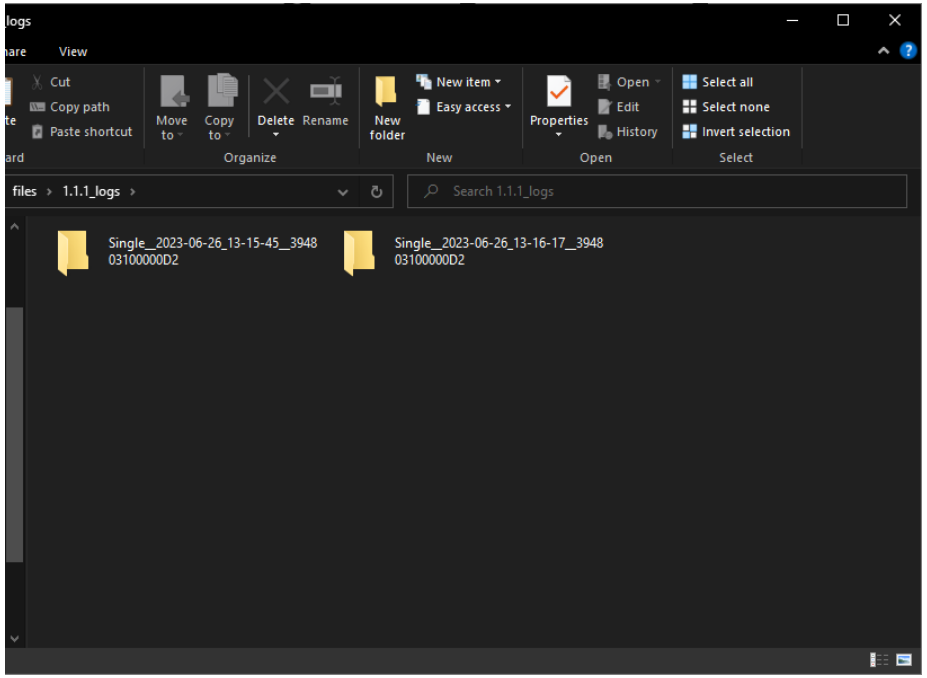


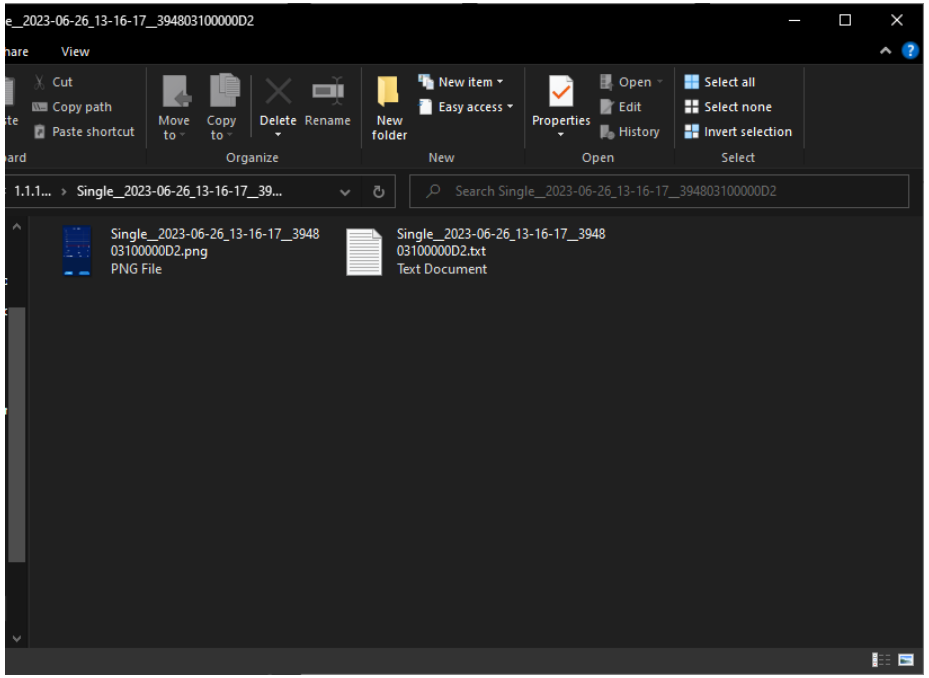
Show measurement Results

Get log files [Android]

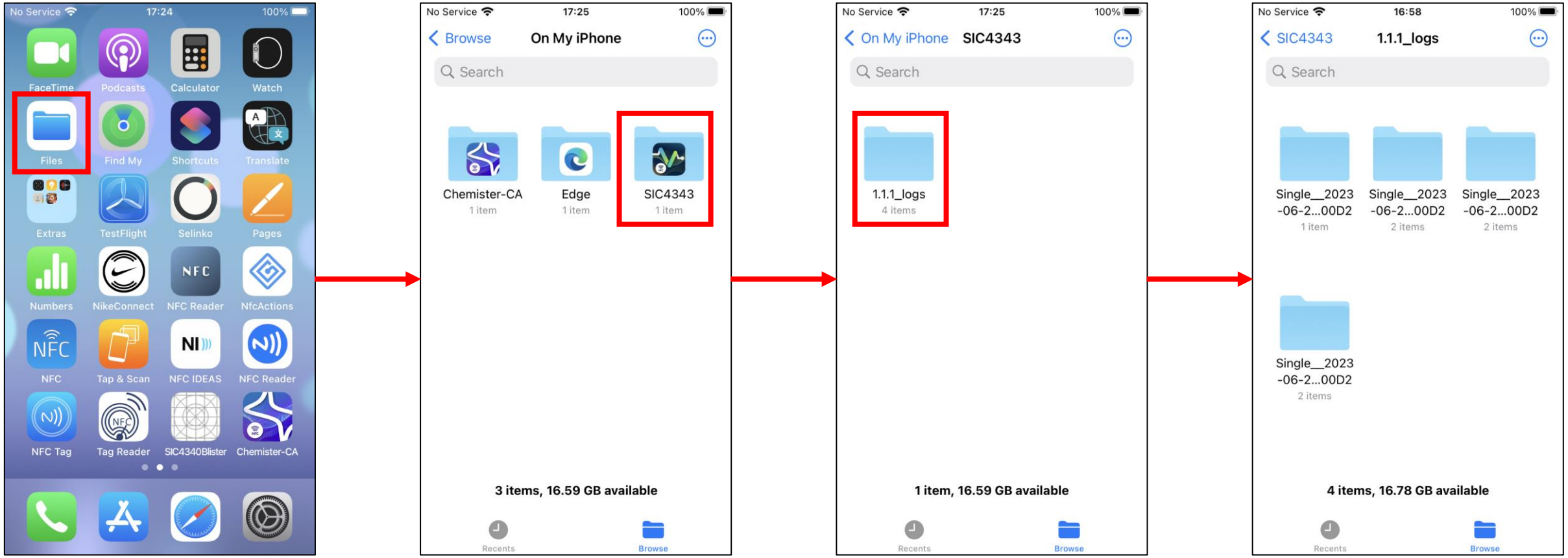
Connect phone with PC, the log files can be found in

‘\Internal storage\Android\data\th.co.sic.app.flutter.chemister_sic4343\files\1.1.1_logs’





Get log files [iPhone]



THANK YOU

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