



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

DEKRA TESTING AND CERTIFICATION CO., LTD. <sup>1</sup>  
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ELECTRICAL

Valid To: November 30, 2024

Certificate Number: 3100.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, *as well as the two satellite laboratory locations listed below*, to perform the following Electrical tests:

<u>Test:</u>	<u>Test Method(s) <sup>2</sup>:</u>
<b>Mobile Devices</b>	
GSM / GPRS / EDGE Protocol/Conformance/SIM/SAT/ A-GPS/IoT Connection Efficiency	ETSI EN 300 607-1; EN 301 511; ETSI EN 301 511; 3GPP TS 51.010-1 ( <i>excluding Radiated Spurious Emissions and Audio test cases</i> ); ETSI TS 151.010-1 ( <i>excluding Radiated Spurious Emissions and excluding Audio test cases</i> ); 3GPP TS 51.010-4; ETSI TS 151 010-4; ETSI TS 102 230-1; GSMA PRD TS.35 ( <i>excluding chapters 5.1, 5.2, 5.3</i> )
WCDMA / UMTS / HSPA Protocol/Conformance/USIM/USAT/ A-GPS/IMS/IoT Connection Efficiency	3GPP TS 31.121; 3GPP TS 31.124; 3GPP TS 34.121-1; ETSI TS 134 121; ETSI EN 301 908-2; EN 301 908-2; 3GPP TS 34.123-1; 3GPP TS 34.171; 3GPP TS 34.229-1; 3GPP TR 37.901; ETSI TS 102 230-1; GSMA PRD TS.35 ( <i>excluding chapters 5.1, 5.2, 5.3</i> )

<u>Test:</u>	<u>Test Method(s) <sup>2</sup>:</u>
LTE / FDD / TDD Protocol/Conformance/UE Positioning/ IMS/IoT Connection Efficiency/ USIM/USAT	3GPP TS 31.121; 3GPP TS 31.124; 3GPP TS 34.229-1; 3GPP TS 36.521-1; ETSI EN 136 521-1; ETSI EN 301 908-13; EN 301 908-13; 3GPP TS 36.521-3; 3GPP TS 36.523-1; 3GPP TS 37.571-1; 3GPP TS 37.571-2; 3GPP TR 37.901; ETSI TS 102 230-1; GSMA PRD TS.35 (excluding chapters 5.1, 5.2, 5.3)
Application Enabler SUPL/DM/IoT Connection Efficiency	OMA-ETS-SUPL (client device only); OMA-ETS-DM (client device only); GSMA PRD TS.35 (excluding chapters 5.1, 5.2, 5.3)
5G NR Protocol/Conformance	3GPP TS 38.521-1; 3GPP TS 38.521-3 (excluding FR2); 3GPP TS 38.521-4 (excluding FR2); 3GPP TS 38.523-1; 3GPP TS 38.523-2; 3GPP TS 38.523-3; 3GPP TS 38.533 (excluding FR2); 3GPP TS 34.229-5
RF Performance	CTIA Test Plan for Wireless Device Over-the-Air Performance; CTIA Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices; CTIA Test Plan for 2x2 Downlink MIMO and Transmit Diversity Over-the-Air Performance; 3GPP TS 34.114; 3GPP TS 37.544
Bluetooth Radio and Protocol Conformance Testing	<p><b>RF:1:</b> Vol 2 Part A Radio Specification, in the Test Suite RF.TS, which includes receiver and transmitter tests for Bluetooth Basic Rate (BR) and Enhanced Data Rate (EDR), EDR2 and EDR3.;</p> <p><b>RF-PHY1:</b> (a) Vol. 6, Part A, Physical Layer Specification, in the Test Suite RF – PHY.TS which includes receiver and transmitter tests for LE 1 Mb/s; with            (b) fixed 37 bytes packet payload length, and            (c) packet length extensions ( packet payload length ranges from 37 bytes to 255 bytes)</p>



<u>Test:</u>	<u>Test Method(s) <sup>2</sup>:</u>
Bluetooth Radio and Protocol Conformance Testing (cont.)	<p><b>RF-PHY2:</b> Vol. 6, Part A, Physical Layer Specification, in the Test Suite RF – PHY.TS which includes receiver and transmitter tests for</p> <ul style="list-style-type: none"> <li>(a) 20 dBm Higher Output Power RF - PHY</li> <li>(b) LE 2Mb/s</li> <li>(c) Coded PHY (125 kb/s or 500 kb/s)</li> <li>(d) Stable Modulation Index</li> <li>(e) All required testing capabilities associated with the RF – PHY:1 test scope option;</li> </ul> <p><b>RF-PHY3:</b> Vol. 6, Part A, Physical Layer Specification, in the Test Suite RF – PHY.TS which includes receiver and transmitter tests for</p> <ul style="list-style-type: none"> <li>(a) AoA/AoD (IQ Samples Coherency AoD/AoA Receiver, IQ Sample Dynamic Range AoD/AoA Receiver)</li> <li>(b) All required testing capabilities associated with the RF – PHY:2 test scope option;</li> </ul> <p>Host Layers;</p> <p>Traditional Profiles and Protocols;</p> <p>GATT-Based Profile &amp; Service</p>

<sup>1</sup> This accreditation covers testing performed at the main laboratory listed above, and at the two satellite laboratories indicated below:

DEKRA CERTIFICATION JAPAN K.K.  
 Yokohama Business Park (YBP) West Tower 7F  
 134 Godocho, Hodogaya-ku  
 Yokohama, Kanagawa, 240-0005, Japan  
 Elvis Chen: elvis-mh.chen@dekra.com  
 Phone: +886 3 275 7255

<u>Test:</u>	<u>Test Method<sup>2</sup>:</u>
LTE	3GPP TS 36.523-1

DEKRA TESTING AND CERTIFICATION CO., LTD  
 No. 6, Lane 75, Wenlin St., Linkou District  
 New Taipei City 24457, Taiwan (R.O.C.)  
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<u>Test:</u>	<u>Test Method(s)<sup>2</sup>:</u>
<b>Mobile Devices</b>	
GSM / GPRS / EDGE Radiated Spurious Emissions	EN 301 511; ETSI EN 301 511; 3GPP TS 51.010-1; ETSI TS 151 010-1
WCDMA / UMTS / HSPA Radiated Spurious Emissions	EN 301 908-1; ETSI EN 301 908-1; 3GPP TS 34.124; ETSI TS 134 124
LTE FDD / TDD Radiated Spurious Emissions	EN 301 908-1; ETSI EN 301 908-1; 3GPP TS 36.124; ETSI TS 136 124
5G NR Radiated Spurious Emissions	3GPP TS 38.124; ETSI TS 138 124

**On the following products or types of products:**

Wireless Devices and Mobile Devices

<sup>2</sup> When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.





## Accredited Laboratory

A2LA has accredited

### DEKRA TESTING AND CERTIFICATION CO., LTD.

*Taoyuan City, Taiwan (R.O.C)*

for technical competence in the field of

### Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 19<sup>th</sup> day of December 2022.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 3100.01  
Valid to November 30, 2024

*For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.*