



Test Lab
 Cert 3350.01

Test report No:
 NIE: 61045RBT.002

Test report Host Control Interface (HCI) Test Specification

(*) Identification of item tested	CC2640R2F LaunchPad
(*) Trademark	SimpleLink™ Bluetooth® Low Energy CC2640R2F Wireless MCU
(*) Model and /or type reference tested	CC2640R2F
Other identification of the product	N/A
(*) Features	Final HW version: 2.5 Final SW Version: ble_hci_test_cc2640r2lp_app_src_FlashOnly_StackLibrary_RC 13
(*) Manufacturer	TEXAS INSTRUMENTS INCORPORATED ZARCHIN 26 RA'ANANA ISRAEL
Test method requested, standard	HCI testing according to the Host Control Interface (HCI) Test Specification, Document Number HCI.TS.5.1.0
Standard.....:	HCI.TS.5.1.0
Test Spec Errata(s).....:	N/A
(*)ICS.....:	HCI.ICS.5.1.0
TCRL version.....:	TCRL 2018-2
Test procedure(s)	PEBT008_01 Bluetooth Protocol Testing Procedure Teledyne
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Juan Manuel Gómez BQTF Technical Responsible
Date of issue	2019-07-01
Report template No	FBT009_19 (*) "Data provided by the client"

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Competences and guarantees

DEKRA Testing and Certification, S.A.U is a BQTF competent to carry out the tests described in this report.

DEKRA Testing and Certification, S.A.U is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation) to perform the test indicated in the Certificate 3350.01.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification, S.A.U has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification, S.A.U guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification, S.A.U at the time of performance of the test.

DEKRA Testing and Certification, S.A.U is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification, S.A.U and the Accreditation Bodies.

Uncertainty

N/A

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested", "Manufacturer" and "Derived model not tested").
2. The ICS provided by the customer and used for testing are indicated in Annex B

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: Texas Instruments

Sample M/01, is composed of the following elements:

Control Nº 57503/001	Model and/or type reference:	CC2640R2F
	Serial number:	Not provided
	Hw version:	2.5
	Sw version:	ble_hci_test_cc2640r2lp_app_src_FlashOnly_StackLibrary_RC10
	Features supported:	Bluetooth Low Energy Core 5.1
	Description of test sample	SimpleLink™ Bluetooth® Low Energy CC2640R2F Wireless MCU
	Date of reception	2018-06-27

Sample M/02, is composed of the following elements:

Control Nº 57503/001	Model and/or type reference:	CC2640R2F
	Serial number:	Not provided
	Hw version:	2.5
	Sw version:	ble_hci_test_cc2640r2lp_app_src_FlashOnly_StackLibrary_RC13
	Features supported:	Bluetooth Low Energy Core 5.1
	Description of test sample	SimpleLink™ Bluetooth® Low Energy CC2640R2F Wireless MCU
	Date of reception	2019-07-01

The sample used for each test case is specified in the " Observations" field of the results annex

Test sample description

SimpleLink™ Bluetooth® low energy CC2640R2F wireless MCU

Identification of the client

TEXAS INSTRUMENTS INCORPORATED
 ZARCHIN 26 RA'ANANA ISRAEL

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2019-06-19
Date (finish)	2019-06-27

Document history

Report number	Date	Description
61045RBT.002	2019-07-01	First release

Environmental conditions

The following limits were not exceeded during the test:

Temperature	Min= 20 °C
	Max= 30 °C
Relative humidity	Min= 20 %
	Max= 75 %

Remarks and comments

N/A

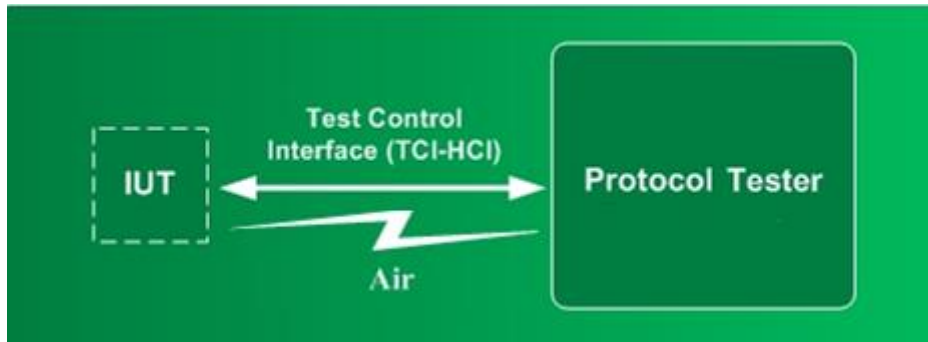
Means of testing identification

TEST SYSTEM:	Harmony Bluetooth LE Protocol Tester (TS3)				
Control Number	6628				
Hardware:	Control No.	Equipment	Serial No.	Latest Calibration Date	Next Calibration Date
	7497	Harmony LE Tester	C1734-00012	N/A	N/A
	7511	Sodera Wideband Bluetooth Protocol Analyzer	C1650-00156	N/A	N/A
Software:	6650	Harmony LE Tester (Release ver.19805)			
Test Setup:	See "Test Setup" section.				

Hardware:	Control No.	Equipment	Serial No.	Latest Calibration Date	Next Calibration Date
	3458	HUMIDIPROBE	UAL02/078	2019-04	2020-04
Software:	4762	Control temp_Hum v2.5.1			

Test setup

TS1: This setup has been used to conduct automated Bluetooth test cases.



Trace log files were stored automatically for both systems.

Measurement uncertainty

N/A

Testing verdicts

Not applicable :	N/A
Pass :	P
Fail :	F
Not measured :	N/M

Appendix A: Test results

Test campaign report

The abbreviations used in the header row of the test campaign report tables are:

Test Case ID :	As it can be found on the standard
Verdict:	Records the verdict assigned to each Test Case run to completion (Testing verdicts)
Date:	Date of the beginning of the execution.
Observations:	Provides a reference to additional information relevant to the test presented in “Test Setup” section.

Test Case ID	Description	Date	Verdict	Observations
HCI/AEN/BI-01-C	Generate DH Key Error With Invalid Point	19/06/2019	P	M/01
HCI/AEN/BV-06-C	Public Keys	19/06/2019	P	M/01
HCI/AEN/BV-07-C	Generate DH Keys	19/06/2019	P	M/01
HCI/CCO/BV-07-C	BR/EDR Not Supported	19/06/2019	P	M/01
HCI/CCO/BV-09-C	LE Set Data Length	19/06/2019	P	M/01
HCI/CCO/BV-10-C	LE Read Suggested Default Data Length Command	19/06/2019	P	M/01
HCI/CCO/BV-11-C	LE Write Suggested Default Data Length Command	27/06/2019	P	M/02
HCI/CCO/BV-12-C	LE Remove Device From Resolving List Command	19/06/2019	P	M/01
HCI/CCO/BV-13-C	LE Clear Resolving List Command	19/06/2019	P	M/01
HCI/CCO/BV-14-C	LE Read Resolving List Size Command	19/06/2019	P	M/01
HCI/CFC/BV-02-C	Buffer Size	19/06/2019	P	M/01
HCI/CIN/BV-03-C	Read Local Supported Commands Command	19/06/2019	P	M/01
HCI/CIN/BV-04-C	Read Local Version Information Command	19/06/2019	P	M/01
HCI/CIN/BV-06-C	White List Size	19/06/2019	P	M/01
HCI/CM/BV-01-C	LE Read Peer Resolvable Address Command	19/06/2019	P	M/01
HCI/CM/BV-02-C	LE Read Local Resolvable Address Command	19/06/2019	P	M/01
HCI/DDI/BV-03-C	Set Adverting Enable	19/06/2019	P	M/01

HCI/DDI/BV-04-C	Set Scan Enable	19/06/2019	P	M/01
HCI/DSU/BV-02-C	Reset in advertising state	19/06/2019	P	M/01
HCI/DSU/BV-03-C	Reset to slave	19/06/2019	P	M/01
HCI/DSU/BV-04-C	Reset in scanning state	19/06/2019	P	M/01
HCI/DSU/BV-05-C	Reset in initiating state	19/06/2019	P	M/01
HCI/DSU/BV-06-C	Reset to master	19/06/2019	P	M/01
HCI/HFC/BV-04-C	LE Set Event Mask	19/06/2019	P	M/01

Appendix B: ICS

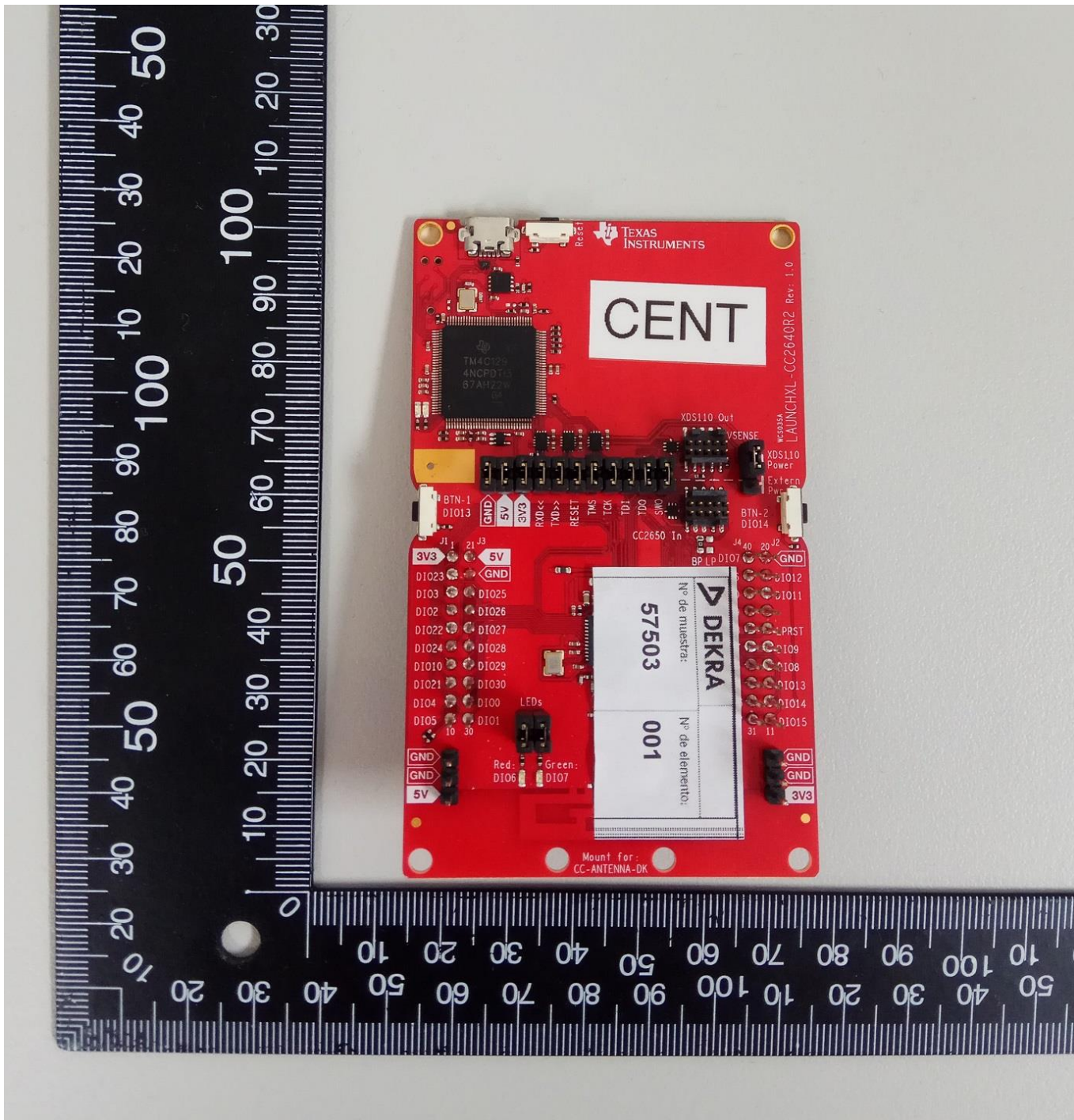
Implementation Conformance Statement (ICS)

The ICS set for this IUT is consistent with the static conformance requirements in the referenced base specification.

The qualified ICS menus of the test system were defined in accordance with the client. Please see attached file.

Appendix C: Photographs

Front view



Rear view

