

Test report No: NIE: 2515BRCB.003A1

Test report

Test and Certification for Citizens Broadband Radio Service (CBRS): 940660 D02 CPE-CBSD Handshake Procedures

Identification of item tested	CBRS CPE-CBSD
Trademark	Baicells
Model and /or type reference	EG7010A-M11
Other identification of the product	FCC ID: 2AG32EG7010AM11N
Features	CPE-CBSD with Domain Proxy
Final HW Version:	A
Final SW Version:	Domain Proxy:BaiOMC Rev-18822 CPE-CBSD: BaiCE_BG_1.2.1
Manufacturer	Baicells Technologies Co., Ltd. 3F, Hui Yuan Development Building, No.1 Shangdi Information Industry Base, Haidian Dist., Beijing, PR China, 100085.
Test method requested, standard	940660 D02 CPE-CBSD Handshake Procedures
Approved by (name / position & signature)	Gonzalo Casado (Lab Manager)
Date of issue	2020-Aug-18
Report template No	FDT08_22



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Competences and guarantees

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

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

DEKRA Certification 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 Certification at the time of performance of the test.

DEKRA Certification 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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Abbreviations

Abbreviation	Meaning
CBRS	Citizens Broadband Radio Services
CBSD	Citizens Broadband Radio Service Device
DP	Domain Proxy
DUT	Device Under Test
SAS	Spectrum Access System
UUT	Unit Under Test
СРІ	Certified Professional Installer
N/A	Not Applicable
SA	Spectrum Analyzer

Data provided by the client

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

Information provided by the client: HW and SW versions of the equipment under test.

Usage of samples

Samples undergoing test have been selected by: the client

Sample M/01 is composed of the following elements:

Control Nº	Description	Model	Serial N°	Date of reception
2515b.01	CPE-CBSD	EG7010A-M11	1203000039192TP0950	2019-Dec-12
NA	Domain Proxy Software	BaiOMC	Not Applicable	Not Applicable

1. Sample M/01 has undergone the test(s) specified in subclause "Test method requested".

Identification of the client

Same as manufacturer

Testing period and place

T 4 T 4*	DEKRA Certification Inc
Test Location	405 Glenn Drive, Suite 12, Sterling, Virginia, USA, 20164
Date (start)	2019-Dec-18
Date (finish)	2019-Dec-21



Document history

Report number	Date	Description
02515bRCB.003	2019-Dec-26	First release
02515bRCB.003A1	2020-Aug-18	Second Release

Modifications to the reference test report

It was introduced the following modifications in respect to the test report number 2515bRCB.003 related with the same samples, in the next clauses and sub-clauses:

Clauses/ Sub-Clauses	Modification	Justification
Page 1/Other identification of the product	FCC ID updated	Requested by customer
Page 5,30,31	Antenna Gain and EIRP Updated	Requested by customer

Remarks and comments

Testing performed by Gonzalo Casado Antenna gain is 15dBi

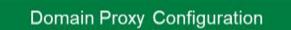


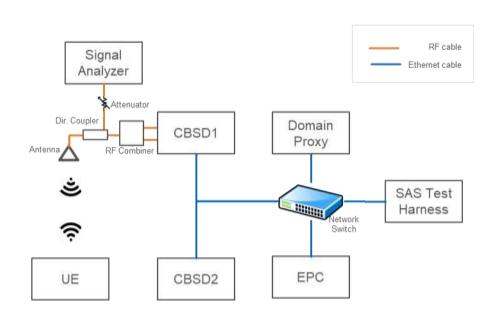
List of equipment used during the test

Test Equipment				
Description	Model	Control Number	SW Version	Serial Number
Signal Analyzer	N9010A Agilent EXA	0018	A.12.13	MY47191206
Test SAS Harness	Test SAS harness WInnForum software Test Harness for CBSD	-	V1.0.03	N/A
BTS-CBSD	mBS31001	-	BaiBS_QRTBA_0.3.1_rf_rea dy	191000004

Test Setup Diagram







Testing verdicts

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

Test Results Summary

Test Cases Verdicts	Number of Test Cases
Not applicable :	0
Pass :	2
Fail :	0
Not measured :	0
Total Number of Test Cases	2



Appendix A: Test results

ID	Requirement Description	Verdict	Date	Sample
CPE.KDB.1	CPE Handshake transmissions are limited in duration and duty cycle to the minimum time necessary to get a grant from the SAS; this time should not exceed 1 second within any 10-second period, 10seconds within any 300-second period, or 20 seconds within any 3600- second period	Р	2019-12-19	M/01
CPE.KDB.2	Verify that the CPE-CBSD register with SAS even with transmit power level below 23dBm EIRP	Р	2019-12-21	M/01

Notes:

- Signal Analyzer Screenshots included in appendix D
- Test cases steps described in appendix C



Appendix B: Photographs



Figure B1. Top View of DUT

Appendix C: Test Cases Details

• CPE.KDB.1: Verify that CPE Handshake transmissions are limited in duration and duty cycle to the minimum time necessary to get a grant from the SAS; this time should not exceed 1 second within any 10-second period, 10seconds within any 300-second period, or 20 seconds within any 3600-second period

Test Case applicable only to CPE-CBSD

#	Test Execution Steps
1	Verify that CPE-CBSD doesn't have any active grant
2	Measure CPE-CBSD transmission durations
	Verify that CPE-CBDS transmission duration doesn't exceed 1 second within 10seconds, 10
3	seconds within 300seconds and 20seconds within 3600seconds



• CPE.KDB.2: Verify that the CPE-CBSD register with SAS even with transmit power level below 23dBm EIRP

Test Case applicable only to CPE-CBSD

#	Test Execution Steps
1	Adjust RF path attenuation between CPE-CBSD and CBSD so that the CPE-CBSD transmit power is below 23dBm EIRP
2	Execute Power Measurement script from WInnForum software Test Harness for CBSD package
3	Trigger CPE-CBSD request to register to test SAS
4	Verify that CPE-CBSD is registered successfully with test SAS and CPE-CBSD transmit power is below 23dBm EIRP using rf equipment.
5	Trigger CPE-CBSD request to request grant to test SAS
6	Verify that CPE-CBSD is receives grant successfully from test SAS and CPE-CBSD transmit power is below 23dBm EIRP using rf equipment.
7	Start Uplink traffic to occupy channel
8	Measure Uplink Channel Power and verify that it doesn't exceed maxEIRP indicated in grant



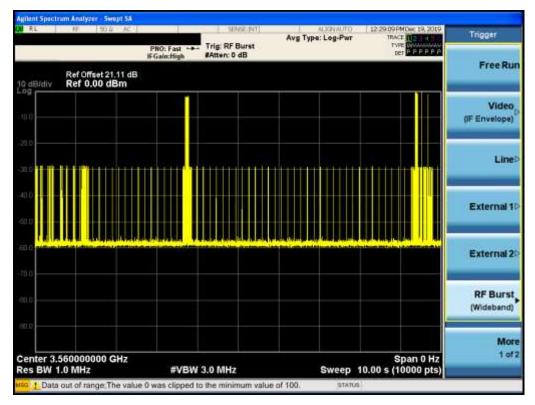
Appendix D: Spectrum Analyzer Screenshots

1. CPE.KDB1: Results for CPE-CBSD transmission duty cycle without grant

Time Period (s)	Time Limit (s)	DUT Tx Duration Measured (s)	Result
10	1	0.47	PASS
300	10	2.19	PASS
3600	20	5.39	PASS

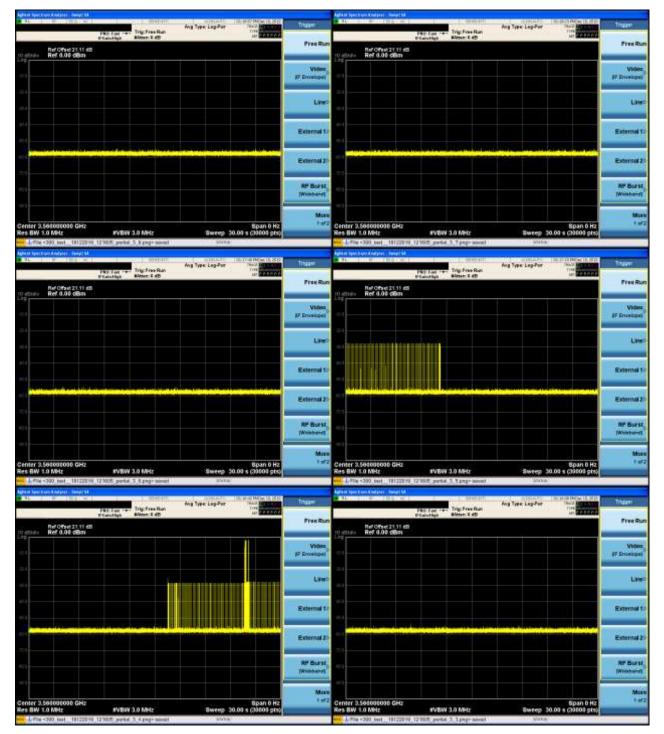


1.1.1 seconds within 10 second period



1.2. 10 seconds within 300 second period

Note: The 300-period test was measured by doing 10 consecutive automatic sweeps of 30seconds. The value reported is the aggregated time of all the sweeps where signal was detected by the signal analyzer





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1.3. 20 seconds within 3600 second period

Note: The 3600-period test was measured by doing 90 consecutive automatic sweeps of 40seconds and 40000 points with a measurement time resolution of 1ms. The value reported is the aggregated time of all the sweeps where signal was detected by the signal analyzer

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2. CPE.KDB.2: Verify CPE-CBSD can register with SAS with transmit power below 23dBm EIRP



Figure CPE.KDB.2 A: MaxHold trace capture during registration and grant request procedure. This plot shows that the CPE-CBSD was able to register with test-SAS and obtain a grant operating at transmit power below 23dBm/10MHz EIRP.

MaxHold transmit power measured while obtaining grant is 17.99dBm/10MHz EIRP

Peak Power Spectral Density EIRP detected during grant request procedure was 7.99 dBm/MHz EIRP

Notes

Peak PSD EIRP (dBm/MHz) = Antenna Gain (15dBi) + Conducted Peak PSD (-7.006 dBm/MHz)

Transmit power EIRP (dBm/10MHz) = Antenna Gain (15dBi) + Conducted Channel Power (2.99 dBm/10MHz)

RF Path loss = 21.11 dB (Already considered in rf equipment measurement)



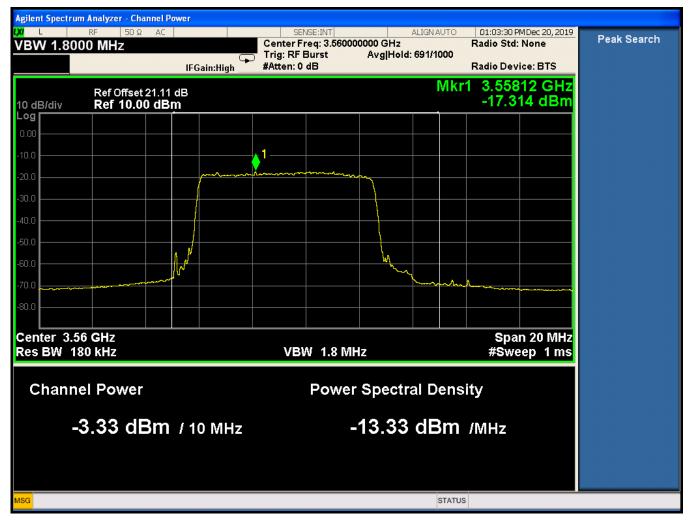


Figure CPE.KDB.2s B: CPE-CBSD EIRP transmit channel power measurement after CPE-CBSD has obtained a grant from test SAS and it is fully utilizing the channel with user data traffic. This plot shows CPE-CBSD obtains connection and can operate at below 23dBm/10MHz EIRP

Measured CPE-CBSD transmit power is 11.67 (dBm/10MHz) EIRP

Note: Channel Power calculated as:

EIRP (dBm/10MHz) = Antenna Gain (15dBi) + Conducted Tx. Power (-3.33 dBm/10 MHz)

RF Path loss = 21.11dB (Already considered in rf equipment measurement)