Partial

LTE TEST REPORT

No.I20N02754-LTE

for

Pointer Telocation Inc

Cello CANiQ LTE

Model Name: Cello CANiQ LTE

with

Hardware Version: B

Software Version: 38

Issued Date: 2020.12.8

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20N02754-LTE	Rev.0	1st edition	2020-12-08

CONTENTS

1. TEST LABORATORY 5
1.1. TEST ITEMS 5
1.2. TEST STANDARDS 5
1.3. TEST RESULT 5
1.4. TESTINGLOCATION 5
1.5. PROJECT DATA 5
1.6. SIGNATURE 5
2. CLIENT INFORMATION 6
2.1. APPLICANT INFORMATION 6
2.2. MANUFACTURER INFORMATION 6
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) 7
3.1. ABOUT EUT 7
3.2. INTERNAL IDENTIFICATION OF EUT 7
3.3. INTERNAL IDENTIFICATION OF AE 7
4. REFERENCE DOCUMENTS 8
4.1. DOCUMENTS SUPPLIED BY APPLICANT 8
4.2. REFERENCE DOCUMENTS FOR TESTING 8
5. TEST RESULTS 9
5.1. DIFFERENT TYPE OF LTE TEST REPORT 9
5.2. TESTING ENVIRONMENT 9
5.3. SUMMARY OF TEST RESULTS 9
5.4. STATEMENTS 10
6. TEST FACILITIES UTILIZED 11
6.1. UT3 11
6.2. RSE 11
ANNEX A: EUT PHOTOGRAPH 12
ANNEX B: PICS/PIXIT INFORMATION 13
ANNEX C: DETAILED TEST RESULTS 14
ANNEX C.1 MAIN TERMS 14
ANNEX C.2 TERMS USED IN CONDITION COLUMN 14

ANNEX C.3 TERMS USED IN VERDICT COLUMN.....14

ANNEX C.4 TERMS USED IN NOTE COLUMN.....15

ANNEX C.5 TEST CASES LIST..... 16

ANNEX D: ACCREDITATION CERTIFICATE..... 18

ANNEX E: CERTIFICATE OF BRAND AUTHORIZATION.....19

1. Test Laboratory

1.1. Test Items

Description	Cello CANiQ LTE
Model Name	Cello CANiQ LTE
Applicant's name	Pointer Telocation Inc
Manufacturer's Name	Pointer Telocation Inc

1.2. Test Standards

NAPRD03	V5.42	PPMD	V3.1
ETSI TS 102 230-1	V14.1.0	3GPP TS 36.124	V15.0.0

1.3. Test Result

All test items are pass. Please refer to "5.3 Summary of Test Results" for detail.

1.4. TestingLocation

Location:	SAICT (Shenzhen, Futian)
Address:	Building G, Shenzhen International Innovation Center, No.1006, Shennan Road, Futian District, Shenzhen, Guangdong, China 518026

1.5. Project data

Project Leader:	Wang Jia
Testing Start Date:	2020-10-23
Testing End Date:	2020-10-27

1.6. Signature

Xie Bingjie
(Prepared this test report)

Huang Qiuqin
(Reviewed this test report)

Zhang Hao
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	Pointer Telocation Inc
Address/Post:	Pointer Telocation 7751 NW 48th street suite 395 Doral Florida 33166 Doral USA
Contact:	Itamar Gohary
Email：	ItamarG@pointer.com
Tel：	+972-52-3080558

2.2. Manufacturer Information

Company Name:	Pointer Telocation Inc
Address/Post:	Pointer Telocation 7751 NW 48th street suite 395 Doral Florida 33166 Doral USA
Contact:	Itamar Gohary
Email：	ItamarG@pointer.com
Tel：	+972-52-3080558

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Cello CANiQ LTE
Model name	Cello CANiQ LTE
E-TURA Frequency Band(s)	FDD 2/4/5/12/13
Extreme Temperature	-30/+70℃
Normal Voltage	12V
Extreme Low Voltage	9V
Extreme High Voltage	32V
Condition of EUT as received	No abnormality in appearance

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT02AA	**353081091222045**	B	38	2020-10-23
UT03AA	**353081091409592**	B	38	2020-10-23

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description	SN
AE1	12V DC	/

*AE ID: is used to identify the test sample in the lab internally

4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
NAPRD03	Permanent Reference Document NAPRD03; Version Specific Technical Overview of PTCRB Mobile/User Equipment Type Certification	V5.42
PPMD	PTCRB Program Management Document; Process Overview of PTCRB Mobile/User Equipment Type Certification and IMEI Control	V3.1
ETSI TS 102 230-1	Smart cards;UICC-Terminal interface;Physical, electrical and logical test specification	V14.1.0
3GPP TS 36.124	Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	V15.0.0

5. Test Results

5.1. Different Type of LTE Test Report

Partial LTE Test Report: In this type of LTE test report, annex C contains the test cases only by the applicant.

5.2. Testing Environment

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M
Ground system resistance	< 4
Voltage Standing Wave Ratio （VSWR）	≤ 6 dB, from 1 to 18 GHz， 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

5.3. Summary of Test Results

	ETSI TS 102 230-1	3GPP TS 36.124
Pass	13	6
Fail	0	0
Cat.E Fail	0	0
Inc	0	0
Declare	0	0
BR	0	0
total	13	6

Note: please refer to Annex C in this test report for the detailed test results.

The following terms are used in the above table.

Pass	Amount of test cases with pass results in the given frequency band.
Fail	Amount of test cases with fail results in the given frequency band.
Cat.E Fail	Amount of test cases with category E fail results in the given frequency band.
Inc	Amount of test cases with ambiguous results in the given frequency band.
Declare	Amount of test cases with conformity declaration from the client in the given frequency band.
BR	Amount of test cases with results inherit from basic model report.

5.4. Statements

The Cello CANiQ LTE,manufactured by Pointer Telocation Inc is a new product for conformance test.

The test cases in this partial report requested by the applicant which are listed in the annex C have been successfully performed in the mobile device specified in section 3 of this test report according to the procedure and test methods defined in type certification requirement listed in section 4 of this test report.

6. Test Facilities Utilized

6.1. UT3

TP12/13-Comprion UT3-SIM/USIM Test System					
Hardware					
No.	**Name**	**Type**	**SN**	**Manufacturer**	**Cal.Due Date**
1	SIM Analog probe	UT3-APR	45137	COMPRION GmbH	2021/11/7
2	SIM test system	UT3	40259	COMPRION GmbH	2021/11/7

Software	
Name	**Version**
IT3 testplatform	7.0.0
IT3 3GPP TS 51.010-1 Digital GSM 900/1800	7.0.0
IT3 3GPP TS 51.010-1 analog GSM 900/1800	7.0.0
IT3 3GPP TS 51.010-1 Digital GSM 850/1900	7.0.0
IT3 3GPP TS 51.010-1 analog GSM 850/1900	7.0.0
IT3 3GPP TS 51.010-4 Stage 1 900/1800	7.0.0
IT3 3GPP TS 51.010-4 Stage 2 900/1800	7.0.0
IT3 3GPP TS 51.010-4 Stage 1 850/1900	7.0.0
IT3 3GPP TS 51.010-4 Stage 2 850/1900	7.0.0
IT3 3GPP TS 31.121 Digital	7.0.0
IT3 3GPP TS 31.121 Digital Stage 2	7.0.0
IT3 3GPP TS 31.121 Digital Stage 3	7.0.0
IT3 3GPP TS 31.121 Digital Stage 4	7.0.0
IT3 3GPP TS 31.124 Stage 1	7.0.0
IT3 3GPP TS 31.124 Stage 2	7.0.0
IT3 3GPP TS 31.124 Stage 3	7.0.0
IT3 3GPP TS 31.124 Stage 4	7.0.0
IT3 ETSI TS 102 230 UICC Analog	7.0.0
IT3 ETSI TS 102 230 UICC Digital	7.0.0
IT³ 3GPP TS 31.124 SMS over IMS Test Bench	7.0.0

6.2. RSE

No.	Name	Type	Manufacturer	SN	Execute Date
1	spectrum analyzer	FSV40	R&S	101192	2021/01/14
2	Test Receiver	ESR7	R&S	101676	2020/11/27
3	Horn Antenna	3117	ETS-Lindgren	00066577	2022/04/02
4	BiLog Antenna	3142E	ETS-Lindgren	0224831	2021/05/17
5	Universal Radio Communication Tester	CMW500	R&S	152499	2021/07/16
7	Chamber	FACT3-2.0	ETS-Lindgren	1285	2021/07/19
8	Software	EMC32	V10.01.00	R&S	/

ANNEX A: EUT photograph

Pic A-1. EUT Front View

Pic A-2. EUT Rear View

ANNEX B: PICS/PIXIT information

According to specification ETSI TS 102 230-1

Group	Item	Description	Mnemonic	Value
Table A.1	A.1/1	ID-1 UICC	O_ID1_UICC	FALSE
	A.1/2	Plug-in UICC	O_PLUG_IN_UICC	TRUE
	A.1/3	Class A	O_CLASS_A	FALSE
	A.1/4	Class B	O_CLASS_B	TRUE
	A.1/5	Class C	O_CLASS_C	TRUE
	A.1/6	Compliant to TS 121 111 [3]	O_COMP_121_111	TRUE
	A.1/7	Low impedance buffer	O_LIB	FALSE

ANNEX C: Detailed Test Results

Annex C.1 Main Terms

Test cases	Test case identification number and description in 3GPP test specification NAPRD03.
Category	The category of test case in the given frequency band as specified in the NAPRD03 documents.
Verdict	Verdict of each test case.

Annex C.2 Terms used in Condition column

Nomal	Nominal voltage, Normal Temperature
VH	High voltage, Normal Temperature
VL	Low voltage, Normal Temperature
TH/VH	High Temperature, High voltage
TL/VH	Low Temperature, High voltage
TH/VL	High Temperature, Low voltage
TL/VL	Low Temperature, Low voltage
Vib	Vibration

Annex C.3 Terms used in Verdict column

Pass	This test case has been tested, and EUT is conformant to the applied standards in the given frequency band.
Fail	This test case has been tested, but EUT is not conformant to the applied standards in the given frequency band.
N/A	This test case is either not required/not applicable in the specified band or is not applicable according to the specific PICS/PIXIT for the EUT.
Inc	Test case result is ambiguous in the given frequency band.
Decl	Declaration is received from the client to demonstrate the conformity to the relevant specification in the given frequency band.
BR	This test case is not tested in the given frequency band, but this test case was tested with pass result for the initial model in the given frequency band.

Annex C.4 Terms used in Note column

EUT ID	EUT ID (e.g. UT01aa, UT02aa…..) is used to identify the EUT tested used for each test case as specified in section 3 of this test report.
Lab Code	Lab code is used to identify the subcontracted lab if this test case is performed in the subcontracted lab.

Annex C.5 Test cases list

The results for ETSI TS 102 230-1

Test Specification	Test Case Name	Test Case Description	Condition	Categories	Result	Used Sample/Setup
ETSI TS 102 230-1	5.1.1	Phase preceding Terminal power on		A	Pass	UT03AA
ETSI TS 102 230-1	5.1.2.2	Phase during UICC power on: 1,8 V - 3 V	Parameter = 1.8V-3V (1.8V mode)	A	Pass	UT03AA
ETSI TS 102 230-1	5.1.3.2	Phase during Terminal power off: 1,8 V - 3 V	Parameter = 1.8V-3V (1.8V mode)	A	Pass	UT03AA
ETSI TS 102 230-1	5.2.2.3	Electrical tests on contact C1, Test 1: 1,8 V - 3 V	Parameter = 1.8V-3V (1.8V mode)	A	Pass	UT03AA
ETSI TS 102 230-1	5.2.2.4	Electrical tests on contact C1, Test 2: 1,8 V - 3 V	Parameter = (1) 1.8V-3V (1.8V mode)	A	Pass	UT03AA
ETSI TS 102 230-1	5.2.2.4	Electrical tests on contact C1, Test 2: 1,8 V - 3 V	Parameter = (2) 1.8V-3V (1.8V mode)	A	Pass	UT03AA
ETSI TS 102 230-1	5.2.2.4	Electrical tests on contact C1, Test 2: 1,8 V - 3 V	Parameter = (3) 1.8V-3V (1.8V mode)	A	Pass	UT03AA
ETSI TS 102 230-1	5.2.2.4	Electrical tests on contact C1, Test 2: 1,8 V - 3 V	Parameter = (4) 1.8V-3V (1.8V mode)	A	Pass	UT03AA
ETSI TS 102 230-1	5.2.2.4	Electrical tests on contact C1, Test 2: 1,8 V - 3 V	Parameter = (5) 1.8V-3V (1.8V mode)	A	Pass	UT03AA
ETSI TS 102 230-1	5.2.2.4	Electrical tests on contact C1, Test 2: 1,8 V - 3 V	Parameter = (6) 1.8V-3V (1.8V mode)	A	Pass	UT03AA
ETSI TS 102 230-1	5.2.3.2	Electrical tests on contact C2: 1,8 V - 3 V	Parameter = 1.8V-3V (1.8V mode)	A	Pass	UT03AA

Test Specification	Test Case Name	Test Case Description	Condition	Categories	Result	Used Sample/Setup
ETSI TS 102 230-1	5.2.4.2	Electrical tests on contact C3: 1,8 V - 3 V	Parameter = 1.8V-3V (1.8V mode)	A	Pass	UT03AA
ETSI TS 102 230-1	5.2.5.3	Electrical tests on contact C7, Test 1: 1,8 V - 3 V	Parameter = 1.8V-3V (1.8V mode)	A	Pass	UT03AA

The results for 3GPP TS 36.124

Test Specification	Test Case Name	Test Case Description	Condition	Categories	Result	Used Sample/Setup
3GPP TS 36.124	8.2	Radiated Emission	Band = eFDD12, Part = traffic	A	Pass	UT02AA
3GPP TS 36.124	8.2	Radiated Emission	Band = eFDD13, Part = traffic	A	Pass	UT02AA
3GPP TS 36.124	8.2	Radiated Emission	Band = eFDD2, Part = idle	A	Pass	UT02AA
3GPP TS 36.124	8.2	Radiated Emission	Band = eFDD2, Part = traffic	A	Pass	UT02AA
3GPP TS 36.124	8.2	Radiated Emission	Band = eFDD4, Part = traffic	A	Pass	UT02AA
3GPP TS 36.124	8.2	Radiated Emission	Band = eFDD5, Part = traffic	A	Pass	UT02AA

ANNEX D: Accreditation Certificate

Accredited Laboratory

A2LA has accredited

SHENZHEN ACADEMY OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

Shenzhen, People's Republic of China

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 30th day of October 2019.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4353.01
Valid to November 30, 2021

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

ANNEX E: Certificate of Brand Authorization

编号 No.：CTTL-001

TTL泰尔實驗室

品牌授权书

Certificate of Brand Authorization

兹授权 **深圳信息通信研究院** 为“泰尔实验室”品牌实验室，可以使用“泰尔实验室”品牌开展检验检测相关业务，本授权书有效期至 **2024** 年 **10** 月 **31** 日。

This is to certify that **Shenzhen Academy of Information and Communications Technology** is authorized as the brand laboratory of “CTTL”, which may undertake inspection and testing related business using the “CTTL” brand. This certificate is valid for the period to **31 October 2024**.

“泰尔实验室”品牌是属于中国信息通信研究院所有的检验检测品牌，为了维护良好的品牌形象，不断提高品牌的价值，被授权机构必须严格遵照《“泰尔实验室”品牌管理手册》要求开展相关业务活动。

The brand “CTTL” is the inspection and testing brand owned by China Academy of Information and Communication Technology. In order to maintain a good brand image, and continuously improve the brand value, the authorized institutions must strictly comply with the requirements of *"CTTL" brand management manual* to carry out relevant business activities.

授权单位：中国信息通信研究院

China Academy of Information and Communication Technology（CAICT）

授权日期：2019 年 10 月 30 日

*****END OF REPORT*****