



**FCC IC RF EXPOSURE REPORT**

**FOR**

**802.11b/g/n 1X1 WLAN + Bluetooth Atlas**

**MODEL NUMBER: Atlas001**

**FCC ID: ZVAOH00003  
IC: 9976A-OH00003**

**REPORT NUMBER: 47887541345-4**

**ISSUE DATE: Sep 8, 2016**

Prepared for

**TCL Technoly Electronics(Huizhou) Co.,Ltd  
Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong  
Province, China, 516006**

Prepared by

**UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch  
Room 101, Building 10, Innovation Technology Park,  
Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China  
Tel: +86 769 33817100  
Fax: +86 769 33244054  
Website: [www.ul.com](http://www.ul.com)**

## TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS .....	3
2. TEST METHODOLOGY .....	4
3. FACILITIES AND ACCREDITATION .....	4
4. REQUIREMENT .....	5

## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: TCL Technoloy Electronics(Huizhou) Co.,Ltd  
Address: Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, China, 516006.

### Manufacturer Information

Company Name: Same as applicant  
Address: Same as applicant

### EUT Description

Product Name Atlas  
Brand Name TrackR  
Model Name Atlas001  
Serial Number N/A  
Model Difference N/A  
Date Tested July 25, 2016 ~ August 5, 2016

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Guidelines for Human Exposure IEEE C95.1	Complies

By: Miller Ma

Gary Zhang  
Engineer Project Associate

Approved By:

Shawn Wen  
Laboratory Leader

Check By:

Shawn Wen  
Laboratory Leader

Shawn Wen

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v05.

## 3. FACILITIES AND ACCREDITATION

Test Location	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Address	Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
Accreditation Certificate	The Laboratory has been assessed and proved to be in compliance with IAS, The Certificate Registration Number is TL-702 .
Description	All measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

## 4. REQUIREMENT

### LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

Note 1: f = frequency in MHz, \* means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm<sup>2</sup> is available for this EUT.

### MPE CALCULATION METHOD

$$S = PG/(4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW) (the measured power value see Report: F12124 Section 6.6)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

## CALCULATED RESULTS

### Radio Frequency Radiation Exposure Evaluation

BLE GFSK Mode							
Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
2402	-3.14	0.49	0	1	0.00137	1	Complies
2440	-3.43	0.45	0	1	0.00155	1	Complies
2480	-4.30	0.37	0	1	0.00169	1	Complies

WIFI 802.11b Mode							
Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
2412	15.56	35.97	3.37	2.17	0.01555	1	Complies
2437	16.86	48.53	3.37	2.17	0.02098	1	Complies
2462	16.52	44.87	3.37	2.17	0.01940	1	Complies

WIFI 802.11g Mode							
Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
2412	19.41	87.30	3.37	2.17	0.03773	1	Complies
2437	22.72	187.07	3.37	2.17	0.08086	1	Complies
2462	19.31	85.31	3.37	2.17	0.03687	1	Complies

WIFI 802.11n HT20 Mode							
Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
2412	18.87	77.09	3.37	2.17	0.03332	1	Complies
2437	21.71	148.25	3.37	2.17	0.06408	1	Complies
2462	18.64	73.11	3.37	2.17	0.03160	1	Complies

Note: the calculated distance is 20cm.

## END OF REPORT