RF Exposure Evaluation Report

Applicant:	Anytrek Corporation
Address of Applicant:	4405 E Airport Dr, Suite 106, Ontario, CA 91761, USA

Equipment Under Test (EUT)

Product Name:	TrackLight GPS Tracker
Model No.:	VT1911 , VT1911-R40-** , VT1911-A40-** , VT1911-C40-**
Trade mark:	TrackLight
FCC ID:	2ANJN-VT1911
Applicable standards:	FCC CFR Title 47 Part 2 Subpart J Section 2.1091
Date of sample receipt:	04 Mar., 2020
Date of Test:	04 Mar., to 18 Mar., 2020
Date of report issue:	18 Mar., 2020
Test Result:	PASS*

Authorized Signature:

Bruce Zhang
Laboratory Manager

2 Version

Version No.	Date	Description
00	*18 Mar., 2020*	*Original*

Tested by: Mike.ou ***Date:*** *18 Mar., 2020*

Test Engineer

Reviewed by: Winner Zhang ***Date:*** *18 Mar., 2020*

Project Engineer

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4 General Information

4.1 Client Information

Applicant:	Anytrek Corporation
Address:	4405 E Airport Dr, Suite 106, Ontario, CA 91761, USA
Manufacturer:	Shenzhen Anxingzhiyuan Technology Co., Ltd.
Address:	No.302, Building No.6, COFCO(Fuan)Robot Intelligent Building Industrial Park,No.90 Dayang Road, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

4.2 General Description of E.U.T.

Product Name:	TrackLight GPS Tracker
Model No.:	VT1911 , VT1911-R40-** , VT1911-A40-** , VT1911-C40-**
Operation Frequency:	LTE Band 25: TX: 1850MHz-1915MHz, RX: 1930MHz-1995MHz LTE Band 26: TX: 814MHz-849MHz, RX: 859MHz-894MHz
Modulation technology:	QPSK, 16QAM
Antenna Type:	Internal Antenna
Antenna gain:	LTE Band 25: 0dBi LTE Band 26: 0dBi
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

4.3 Operating Modes

Operating mode	Detail description
LTE mode	Keep the EUT in continuously transmitting in LTE mode

4.4 Additions to, deviations, or exclusions from the method

No

4.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

4.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5 Technical Requirements Specification in FCC CFR Title 47 Part 2.1091

5.1 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*($900/f^2$)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*($180/f^2$)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

5.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

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

R = distance to the centre of radiation of the antenna

5.3 Result

Frequency (MHz)	Maximum Output power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm^2)	Limits for General Population/ Uncontrolled Exposure (mW/cm^2)
LTE band 25							
1880.0	22.68	185.35	0	1	20.00	0.0369	1.0
LTE band 26							
816.5	22.06	160.69	0	1	20.00	0.0320	0.54

Note: Just the worst case mode was shown in report.

5.4 Conclusion

The device is exempt from the RF exposure evaluation.

------End of report------