

RF Test Report

RF EXPOSURE

Report No. : FCCBFV-WAY-P20090064
Customer : Nexo Technology Group Pty Ltd
Address : Level 5, Nexus Building, 4 Columbia Court, Norwest, NSW
2153, Australia
Use of Report : Certification
Model Name : Nexotrack - Starlight
FCC ID : 2AW3N-NXTRKV3
Date of Test : 2020.08.25 to 2020.09.24
Test Method Used : 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498
Testing Environment : Refer to the Test Condition

Test Result : ☒ Pass ☐ Fail

ISSUED BY: BV CPS ADT Korea Ltd., EMC/RF Laboratory

ADDRESS: Innoplex No.2 106, Sinwon-ro 306, Yeongtong-gu,
Suwon-si, Gyeonggi-do, Korea 16675

TEST LOCATION: HeungAn-daero 49, DongAn-gu, Anyang-si,
Gyeonggi-do, Korea, 14119

Tested by

Name : Donghwa Shin



Technical Manager

Name : Jongha Choi



2020. 09. 25

BV CPS ADT Korea Ltd.

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RELEASE CONTROL RECORD

REPORT NO.	REASON FOR CHANGE	DATE ISSUED
FCCBVFV-WAY-P20090064	Original release	2020.09.25

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1 General Information

1.1 General Description of EUT

PRODUCT	Sigfox IoT Tracker
Brand	Nexo Technology Group Pty Ltd
Test Model	Nexotrack - Starlight
Sample Status	Engineering sample
Power Supply Rating	3.6 Vdc from battery
Normal Testing Voltage	3.6 Vdc
Temperature Operating Range	-20 ~ 80 °C
Modulation Type	DBPSK, GFSK, DSSS, OFDM
Operating Frequency	SIGFOX : DBPSK Bluetooth : GFSK WIFI: 802.11b(DSSS), 802.11g/n(OFDM)
Antenna Type	Internal antenna(PCB)
Antenna Connector	N/A
Accessory Device	Battery
Data Cable Supplied	-

NOTES

- 1) The above equipment has been tested by **Bureau Veritas Consumer Products Services ADT Korea**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.
- 2) The following antennas were provided to the EUT.

Antenna	Type	Connector	Peak Gain (dBi)
SIGFOX	PCB Antenna	Internal	-2
Bluetooth	PCB Antenna	Internal	2
WIFI	PCB Antenna	Internal	2

3) List of Accessories

Accessories	Brand	Model	Manufacturer	Specification
Battery	Nexotech/Starlight	ER18505M	Nexotech/Starlight	Rating: 3.6 Vdc, 3500 mAh,

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum measured conducted power, the power density was calculated.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain (dBi)	Average EIRP		Distance (R) cm	Power Density EIRPAvg/ (4 π R ²) mW	FCC mW/cm ²	Result
Type	MHz			dBm	mW				
Sigfox	902.1375-922.6625	25.07	-2	23.070	202.768	20	0.040	1.00	Pass
Bluetooth	2402 - 2480	7.26	2	9.26	8.433	20	0.002	1.00	Pass
WLAN 2.4	2412 - 2462	16.39	2	18.39	69.024	20	0.014	1.00	Pass

Note: Antenna gain values were provided by Nexo Technology Group Pty Ltd

2.3 Simultaneous transmission RF Exposure Levels

Do not transmit simultaneously

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services Korea. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

Test Firm Name : BV CPS ADT Korea Ltd.

Address : Innoplex No.2 106, Sinwon-ro 306, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675 KOREA

FCC

Designation Number : KR0158

Test Firm Registration Number : 666061

ISED

Designation Number : KR0158

Test Firm Registration Number : 25944

If you have any comments, please feel free to contact us at the following:

Email: Meyer.Shin@bureauveritas.com

Web Site: www.bureauveritas.co.kr/cps/eaw

The address and road map of all our labs can be found in our web site also.

- End of report -