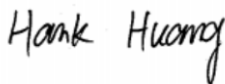


RF Exposure Evaluation Report

APPLICANT : Locus Solutions,LLC
EQUIPMENT : GO Tracker 1.6
BRAND NAME : Emerson
MODEL NAME : GO Tracker 1.6
FCC ID : AMH101013
STANDARD : 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

We, Sporton International (ShenZhen) Inc., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.



Reviewed by: Hank Huang / Supervisor



Approved by: Johnny Chen / Manager



Sporton International (ShenZhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China



Table of Contents

1. ADMINISTRATION DATA	4
1.1. Testing Laboratory	4
2. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	5
3. MAXIMUM RF AVERAGE OUTPUT TUNE UP POWER AMONG PRODUCTION UNITS	6
4. RF EXPOSURE LIMIT INTRODUCTION	7
5. RADIO FREQUENCY RADIATION EXPOSURE EVALUATION	8
5.1. Standalone Power Density Calculation	8



Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA0N2403	Rev. 01	Initial issue of report.	Apr. 27, 2021



1. Administration Data

1.1. Testing Laboratory

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory		
Test Firm	Sporton International (Shenzhen) Inc.	
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595	
Test Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CN1256	421272

Applicant	
Company Name	Locus Solutions,LLC
Address	7121 Fairway Dr. Suite #400 Palm Beach Gardens, FL 33418 USA

Manufacturer	
Company Name	Shenzhen Zhenhua Communication Equipment Co.Ltd
Address	Zhenhua Industrial Park, No.44, Tiezai Rd., Xixiang Town,BaoAn, Shenzhen, Guang Dong, China

2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	GO Tracker 1.6
Brand Name	Emerson
Model Name	GO Tracker 1.6
FCC ID	AMH101013
Wireless Technology and Frequency Range	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz LTE Category M1: LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 26 : 814 MHz ~ 849 MHz NB-IOT Category NB1 : NB-IOT Band 2 : 1850 MHz ~ 1910 MHz NB-IOT Band 4 : 1710 MHz ~ 1755 MHz NB-IOT Band 5 : 824 MHz ~ 849 MHz NB-IOT Band 12 : 699 MHz ~ 716 MHz NB-IOT Band 13 : 777 MHz ~ 787 MHz NB-IOT Band 26 : 814 MHz ~ 849 MHz
Mode	GPRS/EGPRS LTE Category M1: QPSK / 16QAM NB-IOT Category NB1 :BPSK / QPSK
HW Version	0
SW Version	6.4.A01
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Comments and Explanations:

1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
2. The maximum RF output tune up power, antenna gain and the safe distance used for evaluate RF exposure were declared by manufacturer.

3. Maximum RF average output tune up power among production units

<GSM>

Mode	Burst average power(dBm)	
	GSM 850	GSM 1900
GPRS (GMSK, 1 Tx slot)	33.00	31.00
GPRS (GMSK, 2 Tx slots)	33.00	31.00
GPRS (GMSK, 3 Tx slots)	32.00	30.00
GPRS (GMSK, 4 Tx slots)	31.00	30.00
EDGE (8PSK, 1 Tx slot)	27.00	27.00
EDGE (8PSK, 2 Tx slots)	27.00	27.00
EDGE (8PSK, 3 Tx slots)	27.00	27.00
EDGE (8PSK, 4 Tx slots)	27.00	27.00

<LTE>

Mode		Maximum Average power(dBm)
LTE Cat M1	Band 2	24.00
	Band 4	24.00
	Band 5	24.00
	Band 12	24.00
	Band 13	23.00
	Band 26	24.00
NB-IOT	Band 2	24.00
	Band 4	24.00
	Band 5	24.00
	Band 12	24.00
	Band 13	23.00
	Band 26	24.00

4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Average EIRP (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
GPRS 850 (1 Tx slot)	824.2	-5.51	33.00	27.490	70.632	0.014	0.549
GPRS 850 (2 Tx slots)	824.2	-5.51	33.00	27.490	140.929	0.028	0.549
GPRS 850 (3 Tx slots)	824.2	-5.51	32.00	26.490	167.109	0.033	0.549
GPRS 850 (4 Tx slots)	824.2	-5.51	31.00	25.490	177.419	0.035	0.549
EGPRS 850 (1 Tx slot)	824.2	-5.51	27.00	21.490	17.742	0.004	0.549
EGPRS 850 (2 Tx slots)	824.2	-5.51	27.00	21.490	35.400	0.007	0.549
EGPRS 850 (3 Tx slots)	824.2	-5.51	27.00	21.490	52.845	0.011	0.549
EGPRS 850 (4 Tx slots)	824.2	-5.51	27.00	21.490	70.632	0.014	0.549
GPRS 1900 (1 Tx slot)	1850.2	-4.12	31.00	26.880	61.376	0.012	1.000
GPRS 1900 (2 Tx slots)	1850.2	-4.12	31.00	26.880	122.462	0.024	1.000
GPRS 1900 (3 Tx slots)	1850.2	-4.12	30.00	25.880	145.211	0.029	1.000
GPRS 1900 (4 Tx slots)	1850.2	-4.12	30.00	25.880	194.089	0.039	1.000
EGPRS 1900 (1 Tx slot)	1850.2	-4.12	27.00	22.880	24.434	0.005	1.000
EGPRS 1900 (2 Tx slots)	1850.2	-4.12	27.00	22.880	48.753	0.010	1.000
EGPRS 1900 (3 Tx slots)	1850.2	-4.12	27.00	22.880	72.778	0.014	1.000
EGPRS 1900 (4 Tx slots)	1850.2	-4.12	27.00	22.880	97.275	0.019	1.000
LTE Band 2	1850.7	-4.12	24.00	19.880	97.275	0.019	1.000
LTE Band 4	1710.7	-4.11	24.00	19.890	97.499	0.019	1.000
LTE Band 5	824.7	-5.51	24.00	18.490	70.632	0.014	0.550
LTE Band 12	699.7	-7.41	24.00	16.590	45.604	0.009	0.466
LTE Band 13	779.5	-10.34	23.00	12.660	18.450	0.004	0.520
LTE Band 26	814.7	-5.51	24.00	18.490	70.632	0.014	0.543
NB-IOT Band 2	1850.7	-4.12	24.00	19.880	97.275	0.019	1.000
NB-IOT Band 4	1710.7	-4.11	24.00	19.890	97.499	0.019	1.000
NB-IOT Band 5	824.7	-5.51	24.00	18.490	70.632	0.014	0.550
NB-IOT Band 12	699.7	-7.41	24.00	16.590	45.604	0.009	0.466
NB-IOT Band 13	779.5	-10.34	23.00	12.660	18.450	0.004	0.520
NB-IOT Band 26	814.7	-5.51	24.00	18.490	70.632	0.014	0.543

Note:

- For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

-----THE END-----