

RF Exposure Report

Report No.: SA171206E01D

FCC ID: O9YJKS6

Test Model: JKS6A

Serial Model: JKS6B, JKS6C, JKS6D, ATS100-YZ-S, ATS100-Y-S, ATS100-Z-S,
ATS100-S

Received Date: Feb. 18, 2019

Test Date: Feb. 26 ~ Mar. 18, 2019

Issued Date: Mar. 26, 2019

Applicant: Spireon Inc.

Address: 9724 Kingstone Pike, suite 800, Knoxville, Tennessee, USA, 37922

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
(R.O.C.)

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, TAIWAN (R.O.C.)

FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
SA171206E01D	Original release	Mar. 26, 2019

1 Certificate of Conformity

Product: GPS Tracker

Brand: Spireon

Test Model: JKS6A

Serial Model: JKS6B, JKS6C, JKS6D, ATS100-YZ-S, ATS100-Y-S, ATS100-Z-S, ATS100-S

Sample Status: Engineering sample

Applicant: Spireon Inc.

Test Date: Feb. 26 ~ Mar. 18, 2019

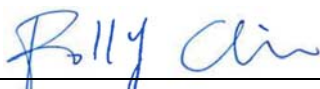
Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, 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.

Prepared by :


Polly Chen / Specialist

Date:

Mar. 26, 2019

Approved by :



Bruce Chen / Project Engineer

Date:

Mar. 26, 2019

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result of Maximum Conducted Power

Function	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA Band 2	1852.4-1907.6	22.41	3.6	20	0.079	1
WCDMA Band 5	826.4-846.6	23.76	1.4	20	0.065	0.550
LTE Band 2	1850.7-1909.3	23.35	3.6	20	0.099	1
LTE Band 4	1710.7-1754.3	23.50	2.8	20	0.085	1
LTE Band 5	824.7-848.3	24.03	1.4	20	0.069	0.549
LTE Band 12	699.7-715.3	24.20	1.8	20	0.079	0.466
LTE Band 25	1850.7-1914.3	23.10	3.6	20	0.093	1
LTE Band 26	814.7-848.3	24.06	1.4	20	0.070	0.543

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The Max. Power = Max. tune up power

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