



RF Exposure Evaluation Report

Equipment : V-JET
Brand Name : WISEJET
Model No. : V-JET10-T
FCC ID : 2ALI9V-JET10
Standard : 47 CFR Part 2.1091
Applicant : WiseJet Inc.
9F, Nano Fab Center, 291 Daehak-ro Yuseong-gu,
Daejun , South Korea
Manufacturer : WiseJet Inc.
9F, Nano Fab Center, 291 Daehak-ro Yuseong-gu,
Daejun , South Korea

The product sample received on Mar. 08, 2017 and completely tested on Apr. 17, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with 47 CFR Part 2.1091, and pass the limit.

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Cliff Chang
SPORTON INTERNATIONAL INC.





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PHOTOGRAPHS OF EUT V01		



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA730730	Rev. 01	Initial issue of report	Apr. 26, 2017



1 General Description

1.1 EUT General Information

The Channel Plan(s)		
Evaluation Mode	Operating Frequency (GHz)	Modulation Type
Low-rate PHY (LRP) Band	Channel 2 LRP: 60.16-60.80	BPSK
	Channel 3 LRP: 62.32-62.96	
Middle-rate PHY (MRP) Band	Channel 2 MRP: 60.48	QPSK
	Channel 3 MRP: 62.64	

1.2 Testing Location

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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

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

Note: f = frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Method

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:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$



2.3 Calculated Result and Limit

Exposure Environment	General Population / Uncontrolled Exposure					
Temp	22°C		Humidity	54%		
Test Engineer	Steven Liang		Test Date	Mar. 24, 2017~Apr. 12, 2017		
Integral antenna gain	5 dBi for LRP 9 dBi for MRP					
Test results						
Maximum EIRP Power of Test Frequency (GHz)	Average EIRP Power (dBm)	Average EIRP Power (mW)	Power Density (S) (mW/cm²)	Separation Distance (cm)	Limit of Power Density (S) (mW/cm²)	
LRP 60.48 GHz	11.19	13.15	0.003	20	1.00	