





Report No.: FA953011

Radio Exposure Evaluation Report

FCC ID : 2AKWYXBP202

Equipment : Digital Transmission System

Brand Name : DynaScan Technology Corp.

Model Name : XBP202

Applicant/ : DYNASCAN TECHNOLOGY CORP.

Manufacturer 7F, 66 Huaya 1st Road, Guishan Taoyuan

33383,Taiwan

Standard : 47 CFR Part 2.1091

The product was received on Aug. 20, 2018, and testing was started from Aug. 23, 2018 and completed on Aug. 23, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of United States government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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Photographs of EUT V02

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History of this test report

Report No. : FA953011

Report No.	Version	Description	Issued Date
FA953011	01	Initial issue of report	Dec. 25, 2019
		Update Photographs of EUT.	
FA953011	02	This report is the latest version replacing	Dec. 26, 2019
		for the report issued on Dec. 25, 2019	

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None.

Reviewed by: Jackson Tsai

Report Producer: Kate Lo

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1 General Description

1.1 EUT General Information

RF General Information							
Evaluation Frequency Range (MHz)		Operating Frequency (MHz)	Modulation Type				
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)				

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1.2 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FA882322

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
88 inch Host was added.	N/A

1.3 Testing Location

	Testing Location								
\boxtimes	HWA YA ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)								
	TEL : 886-3-327-3456								
				Test site Designation	n No. T	TW1190 with FCC.			
	JHUBEI ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)								
	TEL: 886-3-656-9065 FAX: 886-3-656-9085								
	Test site Designation No. TW0006 with FCC.								

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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/ cm²)	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 ²)*	6	
30-300	61.4	0.163	1.0	6	
300-1500	-	-	F/300	6	
1500-100,000	-	-	5	6	

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(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)			Power Density (S) (mW/ cm²)	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 ²)*	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 (V/m) =
$$\frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: Pd (W/m²) = $\frac{E^2}{377}$

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

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

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2.3 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
2.4G;G1D	-0.29	23.12	22.83	0.50	23.33	0.21528	20	0.04283	1.00000
2.4G;D1D	-0.29	20.55	20.26	0.50	20.76	0.11912	20	0.02370	1.00000

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——THE END——

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