



FCC RADIO EXPOSURE TEST REPORT

FCC ID : ZPNUNIVERSALBSD

Equipment : Blind Spot Detection System

Brand Name : Cub

Model Name : VS-95A043 、 VS-95AXXX 、 VS-95AXXXX 、 VS-95AXXXXX 、 VS-95AXXXXXX 、 VS-95AXXXXXX 、 VS-95AXXX-X 、 VS-95AXXXX-X 、 VS-95AXXXXX-X 、 VS-95AXXXXXX-X 、 VS-95AXXXXXX-X 、 VS-95AXXX-XX 、 VS-95AXXXX-XX 、 VS-95AXXXXX-XX 、 VS-95AXXXXXX-XX 、 VS-95AXXX-XXXX 、 VS-95AXXXX-XXXX 、 VS-95AXXXXX-XXXX 、 VS-95AXXXXXX-XXXX 、 A001-XXX 、 A001-XXXX 、 A001-XXXXXX 、 A001-XXXXXX-XXX
(Refer to section 1.2 for more details)

Applicant : CUB ELECPARTS INC
No.6,Lane 546, Sec. 6, Changlu Road, Fuhsin Township, Changhua County, Taiwan 506

Manufacturer : CUB ELECPARTS INC
No.6,Lane 546, Sec. 6, Changlu Road, Fuhsin Township, Changhua County, Taiwan 506

Standard : 47 CFR Part 2.1091

The product was received on Dec. 12, 2019, and testing was started from Dec. 12, 2019 and completed on Mar. 18, 2020. 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 government.

The test results in this 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: Sam Chen

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 v01



Summary of Test Result

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:

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.

Reviewed by: **Sam Chen**

Report Producer: **Vicky Huang**



1 General Description

1.1 EUT General Information

RF General Information			
Frequency Range (GHz)	Operating Frequency Range (GHz)	Test Frequency (GHz)	Modulation
76-81	76.01~76.8	76.40	FMCW

1.2 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
VS-95A043, VS-95AXXX, VS-95AXXXX, VS-95AXXXXX, VS-95AXXXXXX, VS-95AXXXXXX-X, VS-95AXXXXX-X, VS-95AXXXXX-X, VS-95AXXXXXX-X, VS-95AXXXXX-XX, VS-95AXXXXX-XX, VS-95AXXXXX-XX, VS-95AXXXXX-XXXX, VS-95AXXXXX-XXXX, VS-95AXXXXX-XXXX, VS-95AXXXXX-XXXX, A001-XXX, A001-XXXX, A001-XXXXXX, A001-XXXXXX-XXX	All the models are identical, the difference model served as marketing strategy. (Where X may be any alpha character "a"-“z”, "A"-“Z”, or numeric character "0"-“9”, or -, (,), or blank or combination of alpha and numeric characters.)

Note: From the above models, model: VS-95A043 was selected as representative model for the test and its data was recorded in this report.

1.3 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

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.



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

Distance (cm)	Test Freq. (GHz)	EIRP-Average (dBm)	EIRP-Average (mW)	Power Density(S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Result
20	76.40	14.80	30.19	0.006	1.00	PASS

————THE END————