

Report No.: FA122663-04



RADIO EXPOSURE TEST REPORT

FCC ID : LDK603202337

Equipment : Cisco Board Pro 75 G2

Brand Name : Cisco

Model Name : TTC60-36

Applicant : Cisco Systems Inc

125 West Tasman Drive, San Jose, CA

95134-1706 , USA

Manufacturer : Cisco Systems Norway AS

Philip Pedersens vei 1, 1366 Lysaker, Norway

Standard : 47 CFR Part 2.1091

The product was received on Oct. 19, 2023, and testing was started from Oct. 26, 2023 and completed on Nov. 06, 2023. We, Sporton International Inc. Hsinchu 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 test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

TEL: 886-3-656-9065 FAX: 886-3-656-9085

Report Template No.: CB-A1_1 Ver1.1

Page Number : 1 of 11

Issued Date : Jan. 25, 2024

Report Version : 01

Table of Contents

History	of this test report	.3
Summa	ary of Test Result	.4
1	General Description	.5
1.1	EUT General Information	.5
1.2	Antenna Information	.5
1.3	Table for Permissive Change	.6
1.4	Accessories	.7
1.5	Applicable Standards	.7
1.6	Testing Location	.7
2	Maximum Permissible Exposure	.8
2.1	Limit of Maximum Permissible Exposure	.8
2.2	MPE Calculation Method	.9
2.3	MPE Exemption	.9
2.4	Calculated Result and Limit	1
Photog	graphs of EUT v01	

TEL: 886-3-656-9065 FAX: 886-3-656-9085

Report Template No.: CB-A1_1 Ver1.1

Page Number : 2 of 11
Issued Date : Jan. 25, 2024

Report No. : FA122663-04

Report Version : 01

History of this test report

Report No.: FA122663-04

Report No.	Version	Description	Issued Date
FA122663-04	01	Initial issue of report	Jan. 25, 2024

TEL: 886-3-656-9065 Page Number : 3 of 11
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2024

Summary of Test Result

Report No.: FA122663-04

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

Conformity Assessment Condition:

- 1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Wendy Pan

TEL: 886-3-656-9065 Page Number : 4 of 11 FAX: 886-3-656-9085 Issued Date : Jan. 25, 2024

1 General Description

1.1 EUT General Information

The Channel Plan(s)						
Evaluation Mode	Operating Frequency (GHz)	Modulation Type				
24000 ~ 24250 MHz	24060 ~ 24240 MHz	FMCW				

Report No.: FA122663-04

1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Integrated Antenna	N/A	2

Note: The above information was declared by manufacturer.

TEL: 886-3-656-9065 Page Number : 5 of 11
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2024

1.3 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: 122663 Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Implemented the Board device Model Product Name Cisco Webex Board	
Pro 75 with Model Name TTC60-32, with the following changes, creating a	
new Product Name Cisco Board Pro 75 G2 with Model Name TTC60-36.	
The list below describes the implementations done to the new Board	
device.	
a. Added two I/O Ports: One HDMI Output Port, and one Ethernet	
Port.	
b. Upgraded the Camera.	MPE
2. Applied the second source component to the 24 GHz Radio Radar	IVIFE
PCB with the following changes without causing any function or	
performance differences.	
a. Alternate second source of crystal from Diodes.	
b. Increased the PCB space paths to accommodate the following	
second source components: Resistor R16, R17, and C28 capacitor	
location. The R16 and R17 resistors are zero-ohm jumpers used for	
debugging. The C28 capacitor serves as a decoupling capacitor.	

Report No.: FA122663-04

TEL: 886-3-656-9065 Page Number : 6 of 11
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2024

1.4 Accessories

N/A

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Report No.: FA122663-04

- 47 CFR Part 2.1091
- KDB 447498 D04 Interim General RF Exposure Guidance v01

The following reference test guidance is not within the scope of accreditation of TAF.

- 47 CFR Part 1.1307
- 47 CFR Part 1.1310

1.6 Testing Location

Testing	Location	Information
---------	----------	-------------

Test Lab.: Sporton International Inc. Hsinchu Laboratory

Hsinchu ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

(TAF: 3787) TEL: 886-3-656-9065 FAX: 886-3-656-9085

Test site Designation No. TW3787 with FCC.

Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

TEL: 886-3-656-9065 Page Number : 7 of 11
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2024

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/f²)	<6
30-300	61.4	0.163	1.0	<6
300-1500	-	-	f/300	<6
1500-100,000	-	-	5	<6

Report No.: FA122663-04

(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/ 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/f²)	<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

TEL: 886-3-656-9065 Page Number : 8 of 11
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2024

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:

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

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 MPE Exemption

Option (A): 1.1307(b)(3)(i)(A): Available maximum time-averaged power is < 1 mW

Option (B): 1.1307(b)(3)(i)(B): Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= Pth.

Report No.: FA122663-04

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20\ cm} (d/20\ \text{cm})^x & d \leq 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \leq 40\ \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20~cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

Option (C): 1.1307(b)(3)(i)(C): ERP is below a threshold calculated based on the distance R between the person and the antenna / radiating structure, where R > λ / 2 π .

TEL: 886-3-656-9065 Page Number: 9 of 11
FAX: 886-3-656-9085 Issued Date: Jan. 25, 2024

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R².
1.34-30	3,450 R ² /f ² .
30-300	3.83 R².
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R ² .

Report No.: FA122663-04

TEL: 886-3-656-9065 Page Number : 10 of 11
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2024

2.4 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Mode	DG (dBi)	Maximum field strenath @3m (dBuv/m)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)
24G	2.00	61.46	-11.18	0.50	-10.68	0.00009	20	0.00002	1.00000

Report No.: FA122663-04

Note: The above antenna gain was declared by manufacturer.

MPE Exemption Option C									
Frequency (MHz)	λ/2π (m)	R (cm)	Maximum field strenath @3m (dBuv/m)	Tune-up EIRP (dBm)	Tune-up ERP (dBm)	Tune-up ERP (W)	ERP Threshold (W)	MPE Exemption	
24150	0.0020	20	61.46	-10.68	-12.83	0.0001	0.768	Complies	

——THE END——

TEL: 886-3-656-9065 Page Number : 11 of 11
FAX: 886-3-656-9085 Issued Date : Jan. 25, 2024