



Project No: TM-2201000472P  
Report No.: TMWK2201000420KR

FCC ID: LDKHS7222538

Page 1 / 11  
Rev.: 00

## SAR Exclusion Evaluation Report

**FCC 47 CFR § 2.1093  
IEEE Std 1528-2013**

For

**Cisco Headset 720**

**Model: HS-WL-722, HS-WL-721**

**Trade Name: Cisco**

**Issued to  
Cisco Systems, Inc.  
125 West Tasman Drive San Jose, CA 95134-1706 United States**

Prepared by  
**Compliance Certification Services Inc.  
Wugu Lab.  
No.11, Wugong 6th Rd., Wugu Dist.,  
New Taipei City, Taiwan. (R.O.C.)  
Issue Date: July 14, 2022**

**Note: This document may be altered or revised by Compliance Certification Services Inc. personnel only, and shall be noted in the revision section of the document. The client should not use it to claim product endorsement by TAF, A2LA, NIST or any government agencies. The test results in the report only apply to the tested sample.**

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



## **Revision History**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 14, 2022	Initial Issue	ALL	Doris Chu

## Table of Contents

<b>1</b>	<b>ATTESTATION OF TEST RESULTS</b> .....	<b>4</b>
<b>2</b>	<b>TEST SPECIFICATION, METHODS AND PROCEDURES</b> .....	<b>5</b>
<b>3</b>	<b>DEVICE UNDER TEST (DUT) INFORMATION</b> .....	<b>6</b>
	3.1 DUT DESCRIPTION.....	6
	3.2 WIRELESS TECHNOLOGIES.....	7
<b>4</b>	<b>RF EXPOSURE CONDITIONS (TEST CONFIGURATIONS)</b> .....	<b>8</b>
	4.1 STANDALONE SAR TEST EXCLUSION CONSIDERATIONS.....	8
	4.2 REQUIRED TEST CONFIGURATIONS .....	9
<b>5</b>	<b>CONDUCTED OUTPUT POWER MEASUREMENTS</b> .....	<b>10</b>
	5.1 BLUETOOTH. ....	10
<b>6</b>	<b>FACILITIES</b> .....	<b>11</b>
<b>7</b>	<b>APPENDIXES</b> .....	<b>11</b>

### 1 Attestation of Test Results

Applicant Name	Cisco Systems Inc 125 West Tasman Drive San Jose, CA 95134-1706 United States	
Model Name	HS-WL-722, HS-WL-721	
Applicable Standards	FCC 47 CFR § 2.1093 Published RF exposure KDB procedures IEEE Std 1528-2013	
Receive EUT Date:	January 25, 2022	
Date Tested	May 17, 2022	
Test Results	EXEMPT	
<p>Compliance Certification Services Inc. , tested the above equipment in accordance with the requirements set forth in the above standards. Determination of compliance is based on the results of the compliance measurement,not taking into account measurement instrumentation uncertainty.All indications of Pass/Fail in this report are opinions expressed by Compliance Certification Services Inc, based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.</p>		
Approved & Released By:	Tested by:	
		
Kevin Tsai Deputy Manager Compliance Certification Services Inc.	Sky Zhou Asst. Section Manager Compliance Certification Services Inc.	

## 2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE STD 1528-2013, the following FCC Published RF exposure KDB procedures:

- 447498 D01 General RF Exposure Guidance v07
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02

### 3 Device Under Test (DUT) Information

#### 3.1 DUT Description

Applicant Name	Cisco Systems Inc
Applicant Address	125 West Tasman Drive San Jose, CA 95134-1706 United States
Manufacturer Name	Cisco Systems, Inc.
Manufacturer Address	125 West Tasman Drive San Jose, CA 95134-1706 United States
Product	Cisco Headset 720
Trade Name	Cisco
Model No.	HS-WL-722, HS-WL-721
Model Discrepancy	Basic model HS-WL-722: Wireless Dual On-Ear Headset Multi model HS-W-721 : Wireless Mono On-Ear Headset (One Speaker connected only) Difference in earphone number and accompany circuit board, electronic components, wire and indicator LED only for the extra earphone.
Back Cover	<input type="checkbox"/> Normal Battery Cover <input type="checkbox"/> Normal Battery Cover with NFC <input type="checkbox"/> Wireless Charger Battery Cover <input type="checkbox"/> Wireless Charger Battery Cover with NFC <input checked="" type="checkbox"/> The Back Cover is not removable.
Battery Options	<input checked="" type="checkbox"/> Standard – Lithium-ion battery, Rating 3.7Vdc, 1.85Wh <input type="checkbox"/> Extended (large capacity) <input type="checkbox"/> The rechargeable battery is not user accessible.
Hardware Version	HDT606-MAIN-R2-20211015
Software Version	1-8-m-168
Sample Stage	PVT

### 3.2 Wireless Technologies

#### Stereo

Wireless technologies	Frequency bands	Peak Antenna Gain (dBi)	Operating mode	Duty Cycle
Bluetooth	2.4 GHz	5.01 dBi		77.6%
Antenna Specification	Brand Name	Merry		
	Type	Monopole Antenna		
	Parts Number	09D4000000B		

#### Mono

Wireless technologies	Frequency bands	Peak Antenna Gain (dBi)	Operating mode	Duty Cycle
Bluetooth	2.4 GHz	5.01 dBi		77.6%
Antenna Specification	Brand Name	Merry		
	Type	Monopole Antenna		
	Parts Number	09D4000000B		

#### Notes:

1. Duty cycle for BT is referenced from BT reports.

## 4 RF Exposure Conditions (Test Configurations)

Refer to Appendixes 1 for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.

### 4.1 Standalone SAR Test Exclusion Considerations

Since the Dedicated Host Approach is applied, the SAR-based exemption in Appendix B of KDB 447498 is applied together with KDB 616217 § 4.3 to determine the minimum test separation distance:

- When the separation distance from the antenna to an adjacent edge is  $\leq 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.
- When the separation distance from the antenna to an adjacent edge is  $> 5$  mm, the actual antenna-to-edge separation distance is applied to determine SAR test exclusion.

### SAR Test Exclusion Calculations for $1.5 \text{ GHz} \leq f \leq 6 \text{ GHz}$

Tx Interface	Frequency (GHz)	Output Power		Antenna Gain (dBi)	ERP (dBm)	ERP Threshold (mW)	Separation Distances (cm)	P <sub>em</sub> (mW)	Exemption result
		dBm	mW						
<b>1.5GHz ≤ f ≤ 6GHz</b>									
Stereo_Head									
Bluetooth	2.48	4.00	3	5.01	6.86	4.85	2	38	-EXEMPT-
Stereo_Limb									
Bluetooth	2.48	4.00	3	5.01	6.86	4.85	0.5	7	-EXEMPT-
Mono_Head									
Bluetooth	2.48	4.00	3	5.01	6.86	4.85	2	38	-EXEMPT-
Mono_Limb									
Bluetooth	2.48	4.00	3	5.01	6.86	4.85	0.5	7	-EXEMPT-



## 4.2 Required Test Configurations

The table below identifies the standalone test configurations required for this device according to the findings in Section 6.1:

Test Configurations	Stereo_Head	Stereo_Limb	Mono_Head	Mono_Limb
$1.5\text{GHz} \leq f \leq 6\text{GHz}$				
Bluetooth	No	No	No	No

### Note(s):

Yes = Testing is required.

No = Testing is not required.

## 5 Conducted Output Power Measurements

### 5.1 Bluetooth.

#### Average Power Measured Results

Mode	Ch #	Freq. (MHz)	Meas. Avg Pwr (dBm)	Meas. Avg Pwr (mW)	Tune-up Limit
GFSK	0	2402	3.96	2.49	4.00
	39	2441	3.99	2.51	
	78	2480	3.95	2.48	
EDR, $\pi/4$ DQPSK	0	2402	3.85	2.43	4.00
	39	2441	3.84	2.42	
	78	2480	3.86	2.43	
EDR, 8-DPSK	0	2402	3.95	2.48	4.00
	39	2441	3.97	2.49	
	78	2480	3.98	2.50	
LE, GFSK	0	2402	3.98	2.50	4.00
	19	2440	3.97	2.49	
	39	2480	3.95	2.48	

## 6 Facilities

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

## 7 Appendixes

Exhibit	Content
1	SAR Setup Photos

**END OF REPORT**