

RF Exposure Report

Report No.: SA141028D04

FCC ID: 2ADH2-4COM-30KH-IT

Test Model: 4Com-30KH IT-14

Received Date: Oct. 28, 2014

Test Date: Jan. 5 ~ Mar. 25, 2015

Issued Date: Apr. 2, 2015

Applicant: 4Com PLC

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Release Control Record

Issue No.	Description	Date Issued
SA141028D04	Original release.	Apr. 2, 2015

1 Certificate of Conformity

Product: Art Desk Phone

Brand: 4Com

Test Model: 4Com-30KH IT-14

Sample Status: Engineering sample

Applicant: 4Com PLC

Test Date: Jan. 5 ~ Mar. 25, 2015

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03

IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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Approved by : Rex. Lai , **Date:** Apr. 2, 2015
Rex Lai / Assistant Manager

2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	20.18	4.9	20	0.0641	1
Bluetooth LE	3.76	4.9	20	0.0015	1
Bluetooth+EDR	3.75	4.9	20	0.0015	1

NOTE: WLAN & BT can transmit simultaneously.

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN + BT = 0.0641 +0.0015 = 0.0656

Therefore the maximum calculations of above situations are less than the “1” limit.

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