RF Exposure Evaluation Declaration

Product Name: Wireless LAN access Point

Model No. : H3C WA3620i-AGN; H3C WA3628i-AGN

FCC ID : 09C-WA3620I

IC : 2299L-WA3620I

Applicant: Hewlett Packard Corporation

Address: 350 Campus Drive, Marlborough, MA United States

Date of Receipt: 01/11/2011

Issued Date : 20/12/2011

Report No. : 11BS004R-RF-US

Report Version: V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF, NVLAP, NIST or any agency of the Government.

The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.





Test Report Certification

Issued Date: 20/12/2011

Report No.: 11BS004R-RF-US

QuieTek

Product Name Wireless LAN access Point Applicant **Hewlett Packard Corporation**

350 Campus Drive, Marlborough, MA United States Address

Manufacturer **Hewlett Packard Corporation**

Address 350 Campus Drive, Marlborough, MA United States

H3C WA3620i-AGN; H3C WA3628i-AGN Model No.

FCC ID O9C-WA36201 IC 2299L-WA3620I

EUT Voltage 48Vdc, 0.27A (or POE input)

Brand Name H₃C

Applicable Standard FCC OET 65

RSS-102: Issue 4, March, 2010

Test Result Complied

Performed Location Suzhou EMC Laboratory

No.99 Hongye Rd., Suzhou Industrial Park Loufeng

Hi-Tech Development Zone., Suzhou, China

TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

FCC Registration Number: 800392; IC Lab Code: 4075B

(Engineering ADM: Alice Ni)

Jame yuan Documented By

Reviewed By

(Senior Engineer: Jame Yuan)

Marlinchen Approved By

(Engineering Manager: Marlin Chen)



Report No: 11BS004R-RF-US

Laboratory Information

We, **QuieTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C. : BSMI, NCC, TAF

Germany : TUV Rheinland

Norway : Nemko, DNV

USA : FCC, NVLAP

Japan : VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site: http://www.quietek.com/tw/ctg/cts/accreditations.htm
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: http://www.quietek.com/

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory:

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C. TEL:+886-3-592-8859 E-Mail: service@quietek.com







LinKou Testing Laboratory:







Suzhou (China) Testing Laboratory:









1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

	Electric	Magnetic	Power	Average		
Frequency	Field	Field		Average		
Range (MHz)	Strength	Strength	Density	Time		
	(V/m)	(A/m)	(mW/cm2)	(Minutes)		
(A) Limits for Occupational/ Control Exposures						
300-1500			F/300	6		
1500-100,000			5	6		
(B) Limits for General Population/ Uncontrolled Exposures						
300-1500			F/1500	6		
1500-100,000			1	30		

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

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

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	:	Wireless LAN access Point	
Test Item		RF Exposure Evaluation	
Test Site	:	AC-6	

Antenna Gain:

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 6dBi o for 2.4G and 6.3dBi for 5G.

Output Power into Antenna & RF Exposure Evaluation Distance:

Test Mode	Frequency Band (MHz)	Maximum Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm2)
802.11b/g/n	2412~2462	313.3286	0.248159
802.11a/n	5180~5320	46.45150	0.039421
802.11a/n	5500~5580 5660~5700	44.46310	0.037734
802.11a/n	5745~5825	521.1947	0.442314

Note:

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm2.