FCC RF EXPOSURE REPORT FCC ID: T58EIR

Project No. : 1406C021

Equipment : 300Mbps Wireless N Range Extender

Model :E1

Applicant : NETIS SYSTEMS CO., LTD

Address : 4F&5F R&D Building, Oriental Cyberport,

High-Tech Industrial Park, Nanshan, Shenzhen,

China.

According: : FCC Guidelines for Human Exposure IEEE C95.1

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL: (0769) 8318-3000 FAX: (0769) 8319-6000

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	PS PS	RGFRA1903041A1T	Internal	N/A	2	-
2	PSA.	RGFRA1903041A1T	Internal	N/A	2	TX/RX
3	PSA.	RGFRA1903041A1T	Internal	N/A	2	TX/RX
4	PSA.	RGFRA1903041A1T	Internal	N/A	2	-
5	PSA PSA	RGFRA1903041A1T	Internal	N/A	2	-

TEST RESULTS

 - •	300Mbps Wireless N Range Extender	Model Name:	E1
Temperature:	125°C	Relative Humidity:	55 %
Pressure:	1016 hPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX B mode/CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2	1.5849	20.30	107.1519	0.03380262	1	Complies
2	1.5849	20.07	101.6249	0.03205903	1	Complies
2	1.5849	20.08	101.8591	0.03213293	1	Complies

EUT:	300Mbps Wireless N Range Extender	Model Name:	E1
Temperature:	125°C	Relative Humidity:	55 %
Pressure:	1016 hPa	Test Voltage:	AC 120V/60Hz
Test Mode:	TX G mode/CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2	1.5849	21.08	128.2331	0.04045297	1	Complies
2	1.5849	22.16	164.4372	0.05187408	1	Complies
2	1.5849	22.49	177.4189	0.05596936	1	Complies

EUT:	300Mbps Wireless N Range Extender	Model Name:	E1		
Temperature:	125°C	Relative Humidity:	55 %		
Pressure:	1016 hPa	Test Voltage:	AC 120V/60Hz		
Test Mode: TX N-20M Mode/CH01, CH06, CH11 – Ant 2 +Ant 3					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2	1.5849	23.50	223.8721	0.07062368	1	Complies
2	1.5849	25.05	319.8895	0.10091376	1	Complies
2	1.5849	23.99	250.6109	0.07905883	1	Complies

I - I I I •	300Mbps Wireless N Range Extender	Model Name:	E1	
Temperature:	125°C	Relative Humidity:	55 %	
Pressure:	1016 hPa	Test Voltage:	AC 120V/60Hz	
Test Mode: TX N-40M Mode/CH03, CH06, CH09 – Ant 2 +Ant 3				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2	1.5849	23.32	214.7830	0.06775641	1	Complies
2	1.5849	23.32	214.7830	0.06775641	1	Complies
2	1.5849	23.68	233.3458	0.07361230	1	Complies

Note: the calculate distance is 20cm.