

2014/04/28

This is to justify, and certify that the transmitter output power (802.11 ac/a/b/g/n + BT Wireless Module) are dropped in order to enhance the holistic performance while installing to the platform, Model: **Lenovo N20 Chrome, 80G1, 20419, Lenovo N20p Chrome, 80G2, 20425** platform: **Notebook Computer**, host owner: **UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD.** Power at the originally tested default channel is lower under per-chain condition. The lower power, as critical factor to influence the emission, is going to generate lower emission away from the mandatory limit with respect to corresponding ruling part, and therefore, we, the undersigned, believe and expect that the test measurement as demonstrated original remains effective and representative, so class II change (as per 2.1043) with SAR re-test on given platform are adequate to ensure product's compliance.

In addition to the aforementioned justifiable argument, re-submission of RF/EMC with regards to Part15C/E is unnecessary is based on the approach as given by KDB 412172 that $EIRP/ERP = Pt + Gt - Lc$, where Pt = Transmitter output power, Gt = numeric gain, and Lc is the signal attenuation due to cable. Since conducted output power in average is lower, and gain of the equivalent type is lower, the RFX emission level is subject to be lower.

Applicant: **UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD.**

FCC ID: **COFNFABACMR02**

IC ID: **10293A-NFABACMR02**

The Product Name of Radio Equipment: **802.11 ac/a/b/g/n + BT Wireless Module**

Platform: **Notebook Computer**

The owner of the platform: **UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD.**



UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD.

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Date: Apr 28, 2014

The Target Power Table of 2.4GHz

802.11g

CHAN.	FREQUENCY(MHz)	AVERAGE POWER(dBm)
1	2412	14.36
6	2437	16.08
11	2462	13.76

802.11n (HT20)

CHAN.	FREQUENCY (MHz)	AVERAGE POWER(dBm)		TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	
1	2412	13.01	13.23	16.13
6	2437	14.97	15.1	18.05
11	2462	13.61	14.26	16.96

802.11n (HT40)

CHAN.	FREQUENCY (MHz)	AVERAGE POWER(dBm)		TOTAL POWER (dBm)
		CHAIN 0	CHAIN 1	
1	2412	12.24	12.36	15.31
6	2437	14.41	14.62	17.53
11	2462	13.02	13.56	16.31