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RF EXPOSURE REPORT

REPORT NO.: SA130321C09

MODEL NO.: DNUR-S2

FCC ID: VPQ-DNURS2

RECEIVED: Mar. 21, 2013

TESTED: Mar. 29 ~ Mar. 31, 2013

ISSUED: Apr. 08, 2013

APPLICANT: Trixell

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130321C09	Original release	Apr. 08, 2013



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1. CERTIFICATION

PRODUCT: 802.11 abgn 2x2 USB Wifi Module

MODEL: DNUR-S2

BRAND: Unex

APPLICANT: Trixell

TESTED: Mar. 29 ~ Mar. 31, 2013

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: DNUR-S2) 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.

PREPARED BY :  , **DATE :** Apr. 08, 2013

Pettie Chen / Senior Specialist

APPROVED BY :  , **DATE :** Apr. 08, 2013

Ken Liu / Senior Manager

2. EVALUATION RESULT

Following FCC KDB 447498 D01 “General SAR test exclusion guidance”

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, 16}$$
 where
 - $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
 - Power and distance are rounded to the nearest mW and mm before calculation.
 - The result is rounded to one decimal place for comparison. The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is $<$ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances $>$ 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance - 50mm) \cdot ($f(\text{MHz})/150$)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) \cdot 10] mW at $>$ 1500 MHz and \leq 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ for test separation distances $>$ 50 mm and $<$ 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances \leq 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.



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2.1 SAR TEST EXCLUSION THRESHOLDS

Maximum measured transmitter power:

Freq. Band (MHz)	Modulation Mode	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 2)	1-g SAR test exclusion thresholds	Result
2412-2462	802.11b	4.477	5	1.387	3	Pass
	802.11g	4.688	5	1.453	3	Pass
	802.11n (20MHz)	4.677	5	1.449	3	Pass
	802.11n (40MHz)	4.363	5	1.352	3	Pass
5180-5240	802.11a	1.738	5	0.796	3	Pass
	802.11n (20MHz)	1.746	5	0.799	3	Pass
	802.11n (40MHz)	1.719	5	0.786	3	Pass
5260-5320	802.11a	1.734	5	0.800	3	Pass
	802.11n (20MHz)	1.703	5	0.786	3	Pass
	802.11n (40MHz)	1.747	5	0.806	3	Pass
5500-5700	802.11a	1.742	5	0.832	3	Pass
	802.11n (20MHz)	1.746	5	0.833	3	Pass
	802.11n (40MHz)	1.742	5	0.832	3	Pass
5745-5825	802.11a	1.746	5	0.843	3	Pass
	802.11n (20MHz)	1.742	5	0.841	3	Pass
	802.11n (40MHz)	1.742	5	0.841	3	Pass

NOTE: 1. The antenna type is Dipole antenna with 3.0dBi gain (For 2.4GHz Band), 5.5dBi gain (For 5.0GHz Band).

2. Calculate SAR test exclusion thresholds from condition “1” formulas.

2. CONCLUSION

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.