

# **SAR Exclusion Report**

Report No. : SFBCBB-WTW-P20120636

Applicant : HTC Corporation

Address : No. 88, Sec. 3, Zhongxing Rd. Xindian Dist., New Taipei City 231, Taiwan

Product Name : Controller

Brand Name : VIVE

FCC ID : NM82Q8R200

Model No. : 2Q8R200

Standards : FCC 47 CFR Part 2 (2.1093), IEEE C95.1:1992, IEEE Std 1528:2013

KDB 865664 D01 v01r04, KDB 865664 D02 v01r02, KDB 447498 D01 v06

Sample Received Date : Dec. 18, 2020

Date of Evaluation : Jan. 26, 2021

Lab Address : No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location : No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City, Taiwan

**CERTIFICATION:** The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, 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 SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

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Approved By:

Gordon Lin / Manager



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## **Release Control Record**

Issue No.	Reason for Change	Date Issued
SFBCBB-WTW-P20120636	Initial release	Feb. 20, 2021

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## 1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported SAR <sub>1g</sub> (W/kg)
DSS	2.4GHz SRD	Not Required

## Note:

1. The SAR limit **(Head & Body: SAR<sub>1g</sub> 1.6 W/kg)** for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

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## 2. <u>Description of Equipment Under Test</u>

Product Name	Controller
Brand Name	VIVE
FCC ID	NM82Q8R200
	2Q8R200
Tx Frequency Bands (Unit: MHz)	SRD: 2402 ~ 2480
	SRD: GFSK
Maximum Tune-up Conducted Power (Unit: dBm)	Please refer to section 3.1 of this report
Antenna Type	Dipole Antenna
Status of EUT	Identical Prototype

## Note:

1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.

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## 3. SAR Measurement Evaluation

## 3.1 Maximum Output Power

## 3.1.1 Maximum Target Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

Mode	Channel	Frequency (MHz)	Tune-up Power
	0	2402	4.0
SRD	39	2441	4.0
	78	2480	4.0

## 3.2 SAR Testing Exclusions

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

1. For the test separation distance <= 50 mm

$$\frac{\text{Max.Tune up Power}_{(mW)}}{\text{Min.Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. For the test separation distance > 50 mm, and the frequency at 100 MHz to 1500 MHz

$$\left[ \text{(Threshold at 50 mm in Step 1)} + \text{(Test Separation Distance} - 50 mm) \times \left( \frac{f_{\text{(MHz)}}}{150} \right) \right]_{\text{(mW)}}$$

3. For the test separation distance > 50 mm, and the frequency at > 1500 MHz to 6 GHz

[(Threshold at 50 mm in Step 1) + (Test Separation Distance -50 mm)  $\times 10$ ]<sub>(mW)</sub>

	Max.	Max. Tune-up Power (mW)	Front Face	
Mode	Tune-up Power (dBm)		Calculated Result	Require SAR Testing?
SRD	4	2.51	0.79	No

#### Note:

- 1. When separation distance <= 50 mm and the calculated result shown in above table is <= 3.0, the SAR testing exclusion is applied.
- 2. When separation distance > 50 mm and the device output power is less than the calculated result (power threshold, mW) shown in above table, the SAR testing exclusion is applied.

## **Summary:**

Since the SAR testing for all device orientations apply SAR test exclusion per KDB 447498, SAR testing for this device is not required.

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## 4. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The road map of all our labs can be found in our web site also.

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