	BUREAU VERITAS				
	RF Exposure Report				
Report No.:	MFBDGE-WTW-P23110225				
FCC ID:	E2K-DWRFID2305				
Test Model:	DWRFID2305				
Received Date:	Nov. 08, 2023				
Test Date:	Nov. 14 ~ Nov. 22, 2023				
Issued Date:	Dec. 14, 2023				
Applicant:	Dell Inc.				
Address:	One Dell Way, Round Rock, Texas 78682, USA				
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch				
	Lin Kou Laboratories				
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 33383, Taiwan				
FCC Registration / Designation Number:	788550 / TW0003				
	AC-MRA				
	Testing Laboratory 2021				
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## **Release Control Record**

Issue No.	Description	Date Issued
MFBDGE-WTW-P23110225	Original release	Dec. 14, 2023

#### 1 **Certificate of Conformity**

Product:	RFID 13.56MHz Wireless Module			
Brand:	DELL			
Test Model:	DWRFID2305			
Sample Status:	Engineering Sample			
Applicant:	Dell Inc.			
Test Date:	Nov. 14 ~ Nov. 22, 2023			
FCC Rule Part:	FCC Part 2 (Section 2.1091)			
Standards:	KDB 447498 D01 General RF Exposure Guidance v06			

The above equipment 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 RF characteristics under the conditions specified in this report.

Prepared by : \_\_\_\_\_\_\_\_\_\_, Date: \_\_\_\_\_\_\_\_\_, Dec. 14, 2023

Approved by :

Jeremy Lin, Date: Dec. 14, 2023

Jeremy Lin / Project Engineer



## 2 RF Exposure

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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

- > f(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 < 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)·( f(MHz)/150)] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 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(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 ½ for test separation distances ≤ 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.



### 3 SAR Test Exclusion Thresholds

Maximum measured transmitter power:

Frequency (MHz)	Field Strength (dBuV/m@3m)		Min. test separation distance (mm)	SAR test exclusion calculation value <sup>(NOTE)</sup>	1-g extremity SAR test exclusion thresholds	Result
13.56	51.3	0.00004046	5	0.00004046	1107.433774	Pass

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2. Calculate SAR test exclusion thresholds from condition "3" formulas.

3. Field Strength (dBuV/m@3m) = Field Strength (dBuV/m@30m) + 40\*log(30/3).

 Max Power (dBm) = Field Strength of Fundamental (dBuV/m@3m) – 95.23, Max Power (mW) = 10<sup>A</sup>(Max power (dBm)/10)

4 Conclusion

Source-base time average power is below Exemption Criteria and/or MPE thresholds, therefore the device is compliant FCC RF exposure requirement.

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