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## Assessment of risks in accordance with 2014/53/EU for Dell W19B/W19B001, W19B002

### 1. Safety Objectives of 2014/53/EU - Article 3.1 (a)

The safety objectives of Article 3.1 (a) are those that are set out in Directive 2014/35/EU.

An analysis of Annex I of 2014/35/EU concluded that all of the safety objectives described therein are relevant and applicable to *W19B*.

W19B has been assessed against and meets all of the applicable requirements of the harmonised standards EN60950-1:2006 + A1:2010 +A2:2013 +A11:2009 +A12:2011, and EN62311:2008.

These standards has been prepared by CENELEC and listed as a harmonised standards under Directive 2014/35/EU. The scope of these standards and the usage conditions described therein are appropriate for the product.

#### Details of the Analysis

1. In accordance with the General conditions of the Safety Objectives, all necessary connectors and components are provided along with adequate information for safe use of the product.
2. Protection against hazards which may arise internal or external to the product have been addressed through the application of harmonised standards as shown in the Table below

Potential Hazard	Fully covered in Harmonised Standard?	Harmonised Standard	Additional Comment
Electric Shock	Y	EN 60950-1	
Fire	Y	EN 60950-1	
Thermal	Y	EN 60950-1	
Radiation	Y	EN 62311	
Mechanical	Y	EN 60950-1	

It is concluded that the Safety Objectives of 2014/53/EU Article 3.1(a) are fully covered by the application of harmonised standards and no additional risks not covered in the standards were identified.

### 2. Electromagnetic Compatibility Requirement of 2014/53/EU – Article 3.1(b)

The required level of electromagnetic compatibility is that which is set out in Directive 2014/30/EU.

An analysis of Annex I of 2014/30/EU concluded that all of the essential requirements described therein are relevant and applicable to W19B001, W19B002.



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W19B001, W19B002 has been assessed against and meets all of the applicable requirements of the following European standards:

- EN 55032:2012
- EN 55032: 2015
- EN 55024:2010 +A1:2015
- EN 61000-3-2:2014 (Class D)
- EN 61000-3-3:2013
- DRAFT EN 301 489-1 V2.2.0
- DRAFT EN 301 489-17 V3.2.0

These standards have been prepared by European Standardisation Organisations (ETSI and CENELEC) to meet the essential requirements of Article 3.1(b) of 2014/53/EU. The scope of these standards and the usage conditions described therein are deemed appropriate for this product.

#### Details of the Analysis

1. The essential immunity and emission requirements listed in Annex I of 2014/30/EU have been addressed through the application of the European standards as shown in the Table below

Essential Requirement	Fully covered in Harmonised Standard?	European Standard	Additional Comment
Electromagnetic Emissions	Y	<ul style="list-style-type: none"><li>- EN 55032</li><li>- EN 61000-3-2</li><li>- EN 61000-3-3</li><li>- DRAFT EN 301 489-1 V2.2.0</li><li>- DRAFT EN 301 489-17 V3.2.0</li></ul>	<b>Note:</b> As the published standard is not yet available, an advanced draft version of the standard was applied.
Immunity from Electromagnetic disturbances	Y	<ul style="list-style-type: none"><li>- EN 55024</li><li>- DRAFT EN 301 489-1 V2.2.0</li><li>- DRAFT EN 301 489-17 V3.2.0</li></ul>	<b>Note:</b> As the published standard is not yet available, an advanced draft version of the standard was applied.
Installation of fixed installations	NA	NA	

*As the Essential Requirements are not fully covered by harmonised standards, a further risk assessment described in Annex I was carried out.*



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### 3. Efficient use of Spectrum - 2014/53/EU (Article 3.2)

W19B is a Desktop Computer device incorporating one or more (depending on configuration) radio transmitters and receivers.

W19B has been assessed against and meets all of the applicable requirements of the following European standards which cover the requirements of Article 3.2 of the Directive.

Harmonised Standard	Additional Comment
<b>EN 301 893 V2.1.1</b> 5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Ref. Annex A of the standard.
<b>EN 300 328 V2.1.1</b> Wideband transmission systems; Data transmission equipment operating in the 2.4 GH ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Ref. Annex A of the standard.

The published standards above have been prepared by ETSI and listed as harmonised standards or are due to be cited under Directive 2014/53/EU in the EU Official Journal.

The scope of these standards and the usage conditions described therein are deemed appropriate for this product.

Taking account of Annex A of the above standards, it is concluded that under foreseeable use, the requirements of 2014/53/EU Article 3.2 are fully covered by the application of the above and no additional risks not covered in the applied standards were identified.

**Round Rock, Texas, USA**

Place of Issue

**Jan 4, 2018**

Date of Issue

Signed for and on behalf of Dell Inc.

**Maurice Wu**

Full Printed Name

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## Annex I

### **Regarding EN 301 489-1, EN 301 489-17 & EN 301 489-33**

The latest draft version of these standards were applied as it was recognised that there are concerns with the text of the published versions. An analysis of these drafts found that the differences are minor and have no bearing on the technical requirements of the standard. Thus, and with regard to Annex Z of these standards, it was concluded that the draft versions meet the essential requirement of Article 3.1 (b) without further assessment.

### **Regarding Draft Standards in General**

Published versions of the following standards were not available at the time of the Risk Assessment:

DRAFT EN 301 489-1 V2.2.0  
DRAFT EN 301 489-17 V3.2.0

The latest drafts were reviewed and found to meet the essential requirements of the directive. In the case of standards covering Article 3.2, an additional assessment by a Notified Body was carried out.