

# Annex 1 of the “NOTIFIED BODY STATEMENT OF OPINION”

**Opinion Number:** B1611045

**Date:** 2016-11-21

Page 1 of 1

## Product Characteristics

<b>Model Number:</b>	ESP-WROOM-32		
<b>Transmitter Frequency:</b>	Bluetooth: 2402-2480 MHz Wi-Fi: 2412-2472/2422-2462 MHz		
<b>Receiver Frequency:</b>	Bluetooth: 2402-2480 MHz Wi-Fi: 2412-2472/2422-2462 MHz		
<b>RF-Output Power (E.I.R.P.):</b>	Bluetooth: 8.31 dBm; Bluetooth LE: 6.67 dBm Wi-Fi: 16.62 dBm (802.11b), 16.23 dBm (802.11g) 16.45 dBm (802.11n20), 16.02 dBm (802.11n40)		
<b>Type of Modulation:</b>	Bluetooth: GFSK, $\pi/4$ -DQPSK, 8-DPSK Wi-Fi: DSSS, OFDM		
<b>Antennae information:</b>	<b>Antennae Name</b>	<b>Model(s)/Type(s)</b>	
	RF Antenna Assembly	Model/Part Number:	ESP-PCB ANTENNA-02
		Manufacturer:	ESPRESSIF SYSTEMS (SHANGHAI) PTE LTD
		Frequency Range:	Bluetooth/Wi-Fi: 2.4-2.5 GHz
		Connector Type/ Maximum Gain:	Bluetooth/Wi-Fi: 2.0 dBi
		Antenna Type/ Pattern:	PCB Antenna
		Measurement:	33*0.5mm

## Conformity Details

Evaluated Test Reports	
Requirement	Standard, Test Report Number, Date & Laboratory
<b>Radio Spectrum</b>	ETSI EN 300 328 V1.9.1 (2015-02) Test Report RKS161017001-00F, RKS161017001-00G, RKS161017001-00H issued on 2016-10-25 by BACL Kunshan (China)
<b>EMC</b>	ETSI EN 301 489-1 V1.9.2 (2011-09), ETSI EN 301 489-17 V2.2.1 (2012-09) Test Report RKS161017001-00E issued on 2016-10-19 by BACL Kunshan (China)
<b>Safety</b>	EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013 Test Report RKS161017001-S01 issued on 2016-10-22 by BACL Kunshan (China)
<b>Health</b>	EN 62311: 2008 Test Report RKS161017001-00I issued on 2016-10-22 by BACL Kunshan (China)



\*\*\*\*\* End of Annex 1 \*\*\*\*\*

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