

Test Setup photos for RM-1020 SAR Compliance Test Report

Test report no.:	SAR_Photo_RM-1017_02	Date of report:	2014-06-16
Template version:	19.6	Number of pages:	8
Testing laboratory:	TCC Microsoft Salo Laboratory P.O.Box 86 Joensuunkatu 7H / Kiila 1B FIN-24101 SALO, FINLAND Tel. +358 (0) 7180 08000 Fax. +358 (0) 7180 45220	Client:	Microsoft Corporation P.O. Box 68 Sinitaival 5 FIN-33721 TAMPERE, FINLAND Tel. +358 (0) 7180 08000 Fax. +358 (0) 7180 46880
Responsible test engineer:	Anni Viitanen	Product contact person:	Tero Huhtala
Measurements made by:	Nina Koskinen, Marko Laaksonen, Teuvo Miettinen, Sami Savela, Eva Lehtinen, Juha-Matti Varjonen		
Tested device:	RM-1020		
FCC ID:	PDNRM-1020	IC:	-
Supplement reports:	FCC_RM-1020_01		
Testing has been carried out in accordance with:	47CFR §2.1093 Radiofrequency Radiation Exposure Evaluation: Portable Devices FCC published RF exposure KDB procedures RSS-102, Issue 4 Evaluation Procedure for Mobile and Portable Radio Transmitters with Respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields IEEE 1528 - 2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Technique		
Documentation:	The documentation of the testing performed on the tested devices is archived for 15 years at TCC Microsoft.		
Test results:	The tested device complies with the requirements in respect of all parameters subject to the test. The test results and statements relate only to the items tested. The test report shall not be reproduced except in full, without written approval of the laboratory.		
Date and signatures:			
For the contents:			

CONTENTS

1. SUMMARY OF SAR TEST REPORT	3
1.1 TEST DETAILS.....	3
1.2 PICTURE OF THE DEVICE.....	4
2. TEST POSITIONS.....	5
2.1 AGAINST PHANTOM HEAD	5
2.2 BODY WORN CONFIGURATION	5
2.3 WIRELESS ROUTER CONFIGURATION.....	6

1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2014-05-15 - 2014-06-10
SN, HW and SW numbers of tested device	SN: 004402/47/832326/8; 004402/47/832327/6, HW: 1530, SW: 01068.00004.14182.20000, DUT: 18348 SN: 004402/47/832288/0; 004402/47/832289/8, HW: 1530, SW: 01068.00004.14182.20000, DUT: 18349 SN: 004402/47/832332/6; 004402/47/832333/4, HW: 1530, SW: 01068.00004.14182.20000, DUT: 18350 SN: 004402/47/832294/8; 004402/47/832295/5, HW: 1530, SW: 01068.00004.14182.20000, DUT: 18351 SN: 004402/47/832290/6; 004402/47/832291/4, HW: 1530, SW: 01068.00004.14182.20000, DUT: 18352
Batteries used in testing	BL-5J, DUT: 18328,18329, 18330, 18331, 18332, 18333, 18337, 18338, 18339, 18344, 18345, 18346, 18347, 18353, 18354, 18355, 18356, 18357
Headsets used in testing	WH-108, DUT: 17570,17110,17109,17108
Other accessories used in testing	-
State of sample	Prototype unit
Notes	-

1.2 Picture of the Device



2. TEST POSITIONS

2.1 Against Phantom Head

Measurements were made in “cheek” and “tilt” positions on both the left hand and right hand sides of the phantom.

The positions used in the measurements were according to IEEE 1528 "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".



Photo of the Device in "cheek" position



Photo of the Device in "tilt" position

2.2 Body Worn Configuration

The device was placed in the SPEAG holder using the Microsoft spacer and placed below the flat phantom. The distance between the device and the phantom was kept at the separation distance indicated in the photo below using a separate flat spacer that was removed before the start of the measurements. The device was oriented with both sides facing the phantom to find the highest results.



Photo of the device positioned for Body SAR measurement.
The spacer was removed for the tests.

Microsoft body-worn accessories are commonly available for the separation distance used in this testing.

2.3 Wireless Router Configuration

The device was placed in the SPEAG holder using the Microsoft spacer and, in sequence, the back, display and each of the 4 edges was positioned 10.0mm away from the flat phantom. The spacer was removed before the start of the measurements.

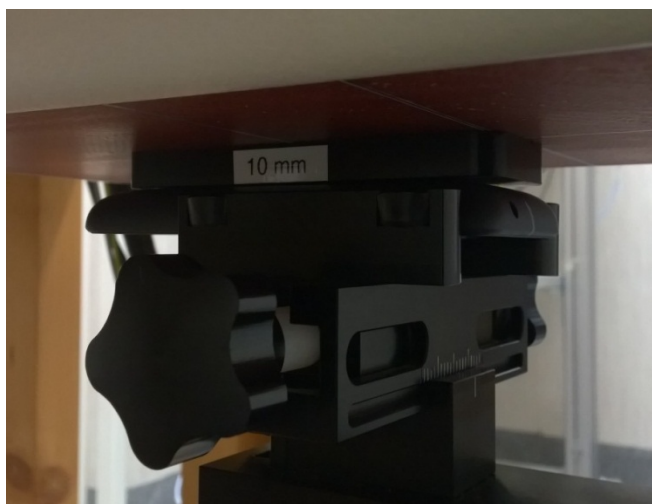


Photo of the device positioned for WR mode measurement –back facing phantom.
The spacer was removed before the start of the measurements.

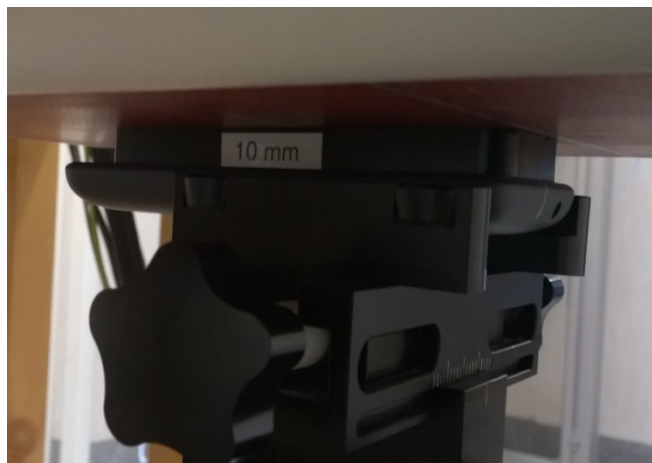


Photo of the device positioned for WR mode measurement – display facing phantom.
The spacer was removed before the start of the measurements.

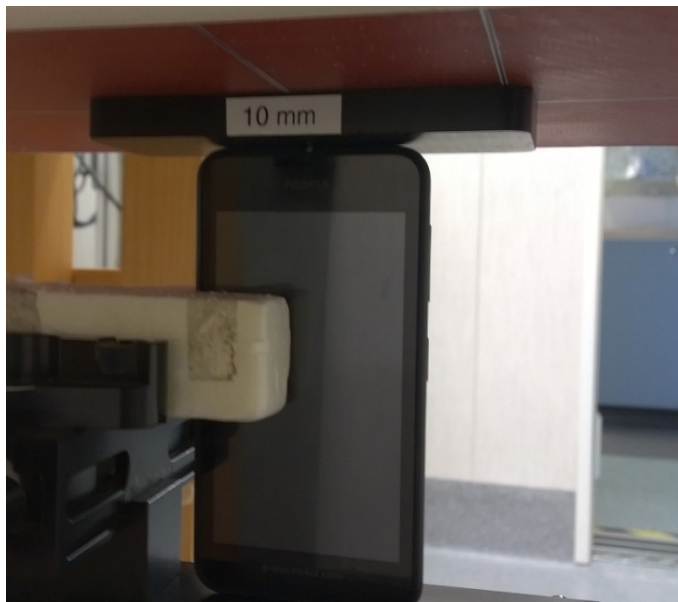


Photo of the device positioned for WR mode measurement – top edge facing phantom.
The spacer was removed before the start of the measurements.

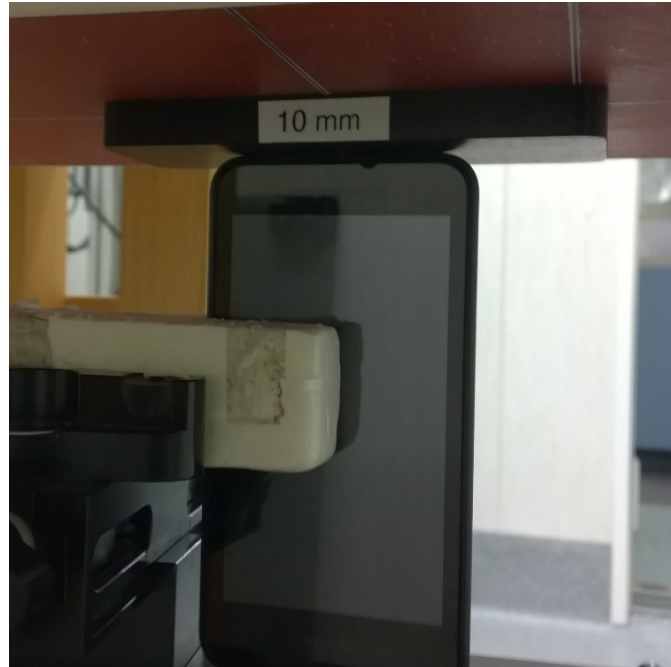


Photo of the device positioned for WR mode measurement – bottom edge facing phantom.
The spacer was removed before the start of the measurements.

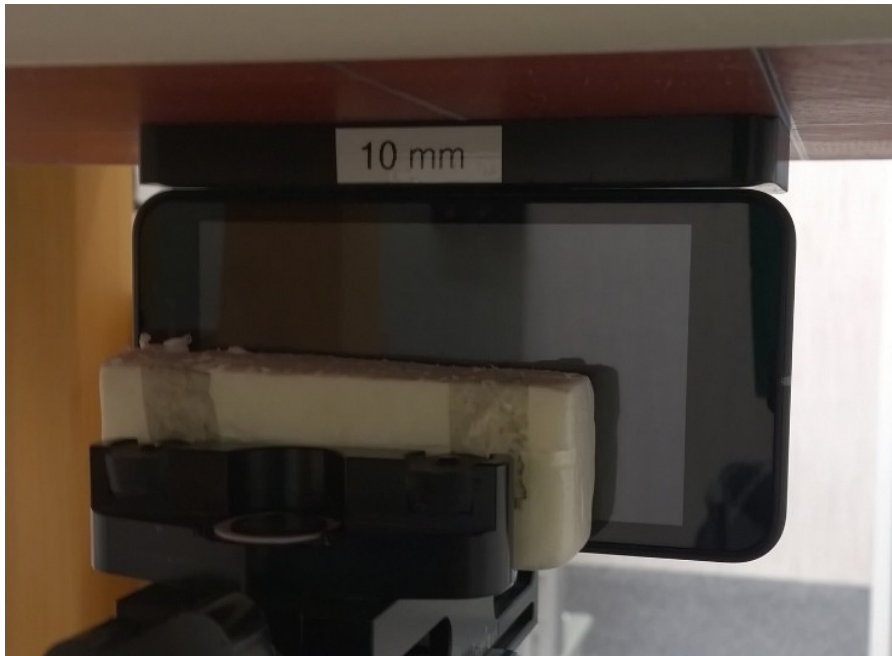


Photo of the device positioned for WR mode measurement – left edge facing phantom.
The spacer was removed before the start of the measurements.

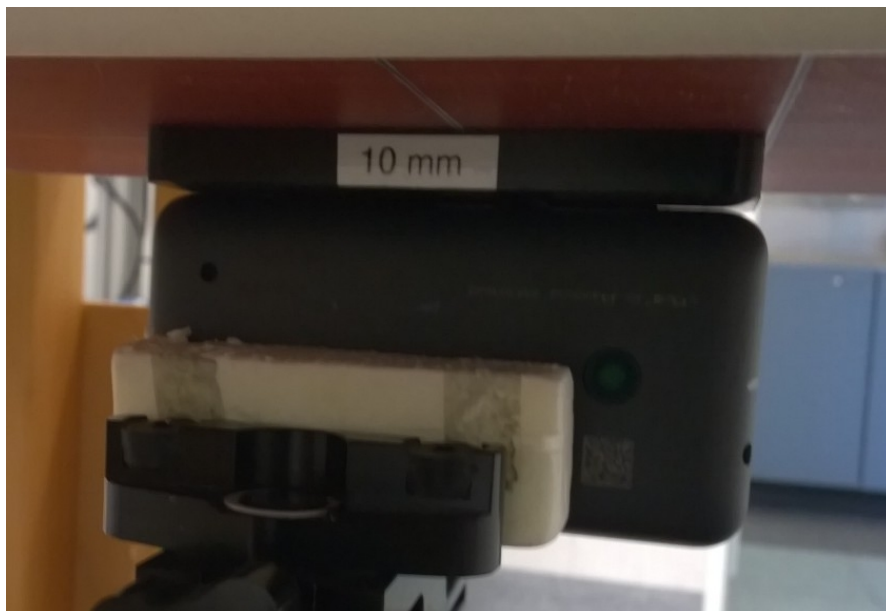


Photo of the device positioned for WR mode measurement – right edge facing phantom.
The spacer was removed before the start of the measurements