

SAR Compliance Test Report

Date of Report	13/03/2020	Client's Contact person:	Nikoletta Juhasz
Number of pages:	32	Responsible Test engineer:	Kirsi Kyllönen
Testing laboratory:	Verkotan Oy Elektroniikkatie 17 90590 Oulu Finland	Client:	Spaceharmony-system Ltd Budapest Bem u. 6 1027 Budapest HUNGARY
Tested device	Spaceharmony-system E-smog		
Related reports:	-		
Testing has been carried out in accordance with:	<p>ICNIRP (1998) Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and electromagnetic Fields (up to 300 GHz)</p> <p>BS EN 62209-1 (2016) Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)</p> <p>IEC 62209-2 (2010), EN 62209-2 (2010) Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)</p>		
Documentation:	The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory		
Test Results:	The test results relate only to devices specified in this document		
Date and signatures:	13.03.2020		

Laboratory Manager

Band	Channel	Frequency	Modulation / BW [MHz]	RB Size	RB Offset	Power Drift [dB]	Test Position	Dudy Cycle	Measured SAR _{10g} [mW/g]	Plot #
LTE 3	19575	1747.5	QPSK/ 20	1	0	0.04	Left cheek	1:1	0.041	
LTE 3	19575	1747.5	QPSK/ 20	1	0	-0.1	Left Tilted	1:1	0.018	
LTE 20	24300	847	QPSK/ 20	1	0	-0.1	Left cheek	1:1	0.062	
LTE 20	24300	847	QPSK/ 20	1	0	0.13	Left Tilted	1:1	0.04	

6.2 SAR Results for Body Exposure Condition, 5mm separation distance

Phone only:

Band	Channel	Frequency	Modulation / BW [MHz]	RB Size	RB Offset	Power Drift [dB]	Test Position	Dudy Cycle	Measured SAR _{10g} [mW/g]	Plot #
LTE 3	19575	1747.5	QPSK/ 20	1	0	-0.25	Back	1:1	0.711	7
LTE 20	24300	847	QPSK/ 20	1	0	-0.24	Back	1:1	0.303	8

Phone with E-smog:

Band	Channel	Frequency	Modulation / BW [MHz]	RB Size	RB Offset	Power Drift [dB]	Test Position	Dudy Cycle	Measured SAR _{10g} [mW/g]	Plot #
LTE 3	19575	1747.5	QPSK/ 20	1	0	-0.13	Back	1:1	0.25	9
LTE 20	24300	847	QPSK/ 20	1	0	-0.06	Back	1:1	0.25	10

6.3 Result comparison

Band	Channel	Frequency	Test Position	Phone only	Phone with E-smog	Decrease in SAR result %
LTE 3	19575	1747.5	Right cheek	0.124	0.090	27.4
LTE 3	19575	1747.5	Right Tilted	0.072	0.053	26.4
LTE 3	19575	1747.5	Left cheek	0.089	0.041	53.9
LTE 3	19575	1747.5	Left Tilted	0.046	0.018	60.9
LTE 3	19575	1747.5	Back	0.711	0.25	64.8