

SAR Compliance Test Report

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Tested device:	RM-1039		
FCC ID:	QTLRM-1039	IC:	-
Supplement reports:	SAR_Photo_RM-1039_02		
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:

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1. SUMMARY OF SAR TEST REPORT

1.1 Test Details

Period of test	2014-08-05 to 2014-08-27
SN, HW and SW numbers of tested device	SN: 004402/47/947798/0, HW: 0241, SW: 02032.00000.14271.24000, DUT: 54521 SN: 004402/47/947826/9, HW: 0241, SW: 02032.00000.14271.24000, DUT: 54506 SN: 004402/47/947792/3, HW: 0241, SW: 02032.00000.14271.24000, DUT: 54573 SN: 004402/47/947820/2, HW: 0241, SW: 02032.00000.14271.24000, DUT: 54510 SN: 004402/47/947784/0, HW: 0241, SW: 02032.00000.14271.24000, DUT: 54572 SN: 004402/47/947812/9, HW: 0241, SW: 02032.00000.14271.24000, DUT: 54508 SN: 004402/47/947814/5, HW: 0241, SW: 02032.00000.14271.24000, DUT: 54507 SN: 004402/47/947796/4, HW: 0241, SW: 02032.00000.14271.24000, DUT: 54574
Batteries used in testing	BV-T5A, DUT: 54113, 54119, 54118, 54117, 54116
Headsets used in testing	WH-108, DUT: 54082, 54083, 53594
Other accessories used in testing	Normal Cover, DUT: 54522, 54523, 54524, 54525, 54526, 54527, 54528, 54529, 5430 CC-3086, DUT: 54052, 54053, 54042, 54054, 54048, 54049, 54050, 54051
State of sample	Prototype unit
Notes	-

1.2 Maximum Results

The maximum measured SAR values for Head configuration and Body Worn configuration are given in section 1.2.1, 1.2.2 and 1.2.3 respectively. The device conforms to the requirements of the standard(s) when the maximum measured SAR value is less than or equal to the limit.

1.2.1 Head Configuration

Mode	Ch / f(MHz)	Conducted power	Position	Measured SAR value (1g avg)	Reported* SAR value (1g avg)	SAR limit (1g avg)	Result	Plot #
LTE700 (Band 17)	23790 / 710.0	23.5 dBm	Left, Cheek	0.268 W/kg	0.29 W/kg	1.6 W/kg	PASSED	1
GSM850	251 / 848.8	32.9 dBm	Left, Cheek	0.374 W/kg	0.42 W/kg	1.6 W/kg	PASSED	2
WCDMA850 (Band 5)	4175/ 835.0	24.1 dBm	Left, Cheek	0.418 W/kg	0.45 W/kg	1.6 W/kg	PASSED	3

(Table continues)

(Table continues)

LTE850 (Band 5)	20525/ 836.5	23.5 dBm	Left, Cheek	0.354 W/kg	0.39 W/kg	1.6 W/kg	PASSED	4
WCDMA1700/2100 (Band 4)	1312/ 1712.4	23.3dBm	Right, Cheek	0.463 W/kg	0.53 W/kg	1.6 W/kg	PASSED	5
LTE1700/2100 (Band 4)	23175/ 1732.5	23.2 dBm	Left, Cheek	0.413 W/kg	0.42 W/kg	1.6 W/kg	PASSED	6
2-slot GPRS1900	512/ 1850.2	27.0 dBm	Left, Cheek	0.192 W/kg	0.21 W/kg	1.6 W/kg	PASSED	7
WCDMA1900 (Band 2)	9262/ 1852.4	23.3 dBm	Left, Cheek	0.568 W/kg	0.65 W/kg	1.6 W/kg	PASSED	8
LTE1900 (Band 2)	18900/ 1880.0	23.0 dBm	Left, Cheek	0.386 W/kg	0.42 W/kg	1.6 W/kg	PASSED	9
LTE2500 (Band 7)	20850/ 2510.0	21.1 dBm	Right, Cheek	1.21 W/kg	1.30 W/kg	1.6 W/kg	PASSED	10
WLAN2450	2/ 2417.0	16.6 dBm	Left, Cheek	0.460 W/kg	0.64 W/kg	1.6 W/kg	PASSED	11
LTE700 (Band 17) + WLAN2450	-	-	Left, Cheek	0.504 W/kg	0.69 W/kg	1.6 W/kg	PASSED	-
2-slot GPRS850 + WLAN2450	-	-	Left, Cheek	0.503 W/kg	0.69 W/kg	1.6 W/kg	PASSED	-
WCDMA850 (Band 5) + WLAN2450	-	-	Left, Cheek	0.507 W/kg	0.69 W/kg	1.6 W/kg	PASSED	-
LTE850 (Band 5) + WLAN2450	-	-	Left, Cheek	0.513 W/kg	0.70 W/kg	1.6 W/kg	PASSED	-
WCDMA1700/2100 (Band 4) + WLAN2450	-	-	Left, Cheek	0.486 W/kg	0.67 W/kg	1.6 W/kg	PASSED	-
LTE1700/2100 (Band 4) + WLAN2450	-	-	Left, Cheek	0.489 W/kg	0.67 W/kg	1.6 W/kg	PASSED	-
2-slot GPRS1900 + WLAN2450	-	-	Left, Cheek	0.478 W/kg	0.66 W/kg	1.6 W/kg	PASSED	-
WCDMA1900 (Band 2) + WLAN2450	-	-	Left, Cheek	0.612 W/kg	0.71 W/kg	1.6 W/kg	PASSED	-
LTE1900 (Band 2) + WLAN2450	-	-	Left, Cheek	0.486 W/kg	0.67 W/kg	1.6 W/kg	PASSED	-
LTE2500 (Band 7) + WLAN2450	-	-	Right, Cheek	1.29 W/kg	1.38 W/kg	1.6 W/kg	PASSED	-

1.2.2 Body Worn Configuration

Mode	Ch / f (MHz)	Conducted power	Separation distance	Measured SAR value (1g avg)	Reported* SAR value (1g avg)	SAR limit (1g avg)	Result	Plot #
LTE700 (Band 17)	23790 / 710.0	23.5 dBm	1.5 cm	0.500 W/kg	0.55 W/kg	1.6 W/kg	PASSED	12
1-slot GPRS850	128 / 824.2	32.8 dBm	1.5 cm	0.358 W/kg	0.41 W/kg	1.6 W/kg	PASSED	13
WCDMA850 (Band 5)	4175/ 835.0	24.1 dBm	1.5 cm	0.455 W/kg	0.49 W/kg	1.6 W/kg	PASSED	14
LTE850 (Band 5)	20525/ 836.5	23.5 dBm	1.5 cm	0.395 W/kg	0.43 W/kg	1.6 W/kg	PASSED	15
WCDMA1700/2100 (Band 4)	1513/ 1752.6	23.6dBm	1.5 cm	0.489 W/kg	0.52 W/kg	1.6 W/kg	PASSED	16
LTE1700/2100 (Band 4)	23175/ 1732.5	23.3 dBm	1.5 cm	0.476 W/kg	0.49 W/kg	1.6 W/kg	PASSED	17
2-slot GPRS1900	512/ 1850.2	27.0 dBm	1.5 cm	0.390 W/kg	0.43 W/kg	1.6 W/kg	PASSED	18
WCDMA1900 (Band 2)	9262/ 1852.4	23.6 dBm	1.5 cm	0.726 W/kg	0.78 W/kg	1.6 W/kg	PASSED	19
LTE1900 (Band 2)	18900/ 1880.0	23.2 dBm	1.5 cm	0.540 W/kg	0.57 W/kg	1.6 W/kg	PASSED	20
LTE2500 (Band 7)	21100/ 2535.0	20.8 dBm	1.5 cm	0.214 W/kg	0.25 W/kg	1.6 W/kg	PASSED	21
WLAN2450	6/ 2437.0	16.9 dBm	1.5 cm	0.053 W/kg	0.07 W/kg	1.6 W/kg	PASSED	22
LTE700 (Band 17) + WLAN2450	-	-	1.5 cm	0.510 W/kg	0.56 W/kg	1.6 W/kg	PASSED	-
2-slot GPRS850 + WLAN2450	-	-	1.5 cm	0.370 W/kg	0.43 W/kg	1.6 W/kg	PASSED	-
WCDMA850 (Band 5) + WLAN2450	-	-	1.5 cm	0.466 W/kg	0.50 W/kg	1.6 W/kg	PASSED	-
LTE850 (Band 5) + WLAN2450	-	-	1.5 cm	0.407 W/kg	0.45 W/kg	1.6 W/kg	PASSED	-
WCDMA1700/2100 (Band 4) + WLAN2450	-	-	1.5 cm	0.489 W/kg	0.52 W/kg	1.6 W/kg	PASSED	16
LTE1700/2100 (Band 4) + WLAN2450	-	-	1.5 cm	0.476 W/kg	0.49 W/kg	1.6 W/kg	PASSED	17
2-slot GPRS1900 + WLAN2450	-	-	1.5 cm	0.390 W/kg	0.43 W/kg	1.6 W/kg	PASSED	18

(Table continues)

(Table continues)

WCDMA1900 (Band 2) + WLAN2450	-	-	1.5 cm	0.726 W/kg	0.78 W/kg	1.6 W/kg	PASSED	19
LTE1900 (Band 2) + WLAN2450	-	-	1.5 cm	0.540 W/kg	0.57 W/kg	1.6 W/kg	PASSED	20
LTE2500 (Band 7) + WLAN2450	-	-	1.5 cm	0.214 W/kg	0.25 W/kg	1.6 W/kg	PASSED	21

1.2.3 Wireless Router Configuration

Summary of Maximum Results for Wireless Router mode at 10.0mm

Mode	Ch / f (MHz)	Conducted power	Separation distance	Measured SAR value (1g avg)	Reported* SAR value (1g avg)	SAR limit (1g avg)	Result	Plot #
LTE700 (Band 17)	23790 / 710.0	23.5 dBm	10.0 mm	0.494 W/kg	0.54 W/kg	1.6 W/kg	PASSED	23
2-slot GPRS850	128 / 824.2	32.8 dBm	10.0 mm	0.491 W/kg	0.56 W/kg	1.6 W/kg	PASSED	24
WCDMA850 (Band 5)	4175/ 835.0	24.1 dBm	10.0 mm	0.609 W/kg	0.65 W/kg	1.6 W/kg	PASSED	25
LTE850 (Band 5)	20525/ 836.5	23.5 dBm	10.0 mm	0.543 W/kg	0.60 W/kg	1.6 W/kg	PASSED	26
WCDMA1700/2100 (Band 4)	1513/ 1752.6	20.4 dBm	10.0 mm	0.891 W/kg	1.00 W/kg	1.6 W/kg	PASSED	27
LTE1700/2100 (Band 4)	23175/ 1732.5	19.7 dBm	10.0 mm	0.746 W/kg	0.78 W/kg	1.6 W/kg	PASSED	28
2-slot GPRS1900	661/ 1880.0	22.2 dBm	10.0 mm	0.393 W/kg	0.41 W/kg	1.6 W/kg	PASSED	29
WCDMA1900 (Band 2)	9262/ 1852.4	20.6 dBm	10.0 mm	0.697 W/kg	0.75 W/kg	1.6 W/kg	PASSED	30
LTE1900 (Band 2)	18900/ 1880.0	20.3 dBm	10.0 mm	0.741 W/kg	0.76 W/kg	1.6 W/kg	PASSED	31
LTE2500 (Band 7)	20850/ 2510.0	19.4 dBm	10.0 mm	0.482 W/kg	0.54 W/kg	1.6 W/kg	PASSED	32
WLAN2450	10/ 2457.0	16.7 dBm	10.0 mm	0.135 W/kg	0.18 W/kg	1.6 W/kg	PASSED	33
LTE700 (Band 17) + WLAN2450	-	-	10.0 mm	0.502 W/kg	0.55 W/kg	1.6 W/kg	PASSED	-
2-slot GPRS850 + WLAN2450	-	-	10.0 mm	0.491 W/kg	0.56 W/kg	1.6 W/kg	PASSED	24

(Table continues)

(Table continues)

WCDMA850 (Band 5) + WLAN2450	-	-	10.0 mm	0.634 W/kg	0.68 W/kg	1.6 W/kg	PASSED	-
LTE850 (Band 5) + WLAN2450	-	-	10.0 mm	0.549 W/kg	0.61 W/kg	1.6 W/kg	PASSED	-
WCDMA1700/2100 (Band 4) + WLAN2450	-	-	10.0 mm	0.891 W/kg	1.00 W/kg	1.6 W/kg	PASSED	27
LTE1700/2100 (Band 4) + WLAN2450	-	-	10.0 mm	0.746 W/kg	0.78 W/kg	1.6 W/kg	PASSED	28
2-slot GPRS1900 + WLAN2450	-	-	10.0 mm	0.393 W/kg	0.41 W/kg	1.6 W/kg	PASSED	29
WCDMA1900 (Band 2) + WLAN2450	-	-	10.0 mm	0.697 W/kg	0.75 W/kg	1.6 W/kg	PASSED	30
LTE1900 (Band 2) + WLAN2450	-	-	10.0 mm	0.741 W/kg	0.76 W/kg	1.6 W/kg	PASSED	31
LTE2500 (Band 7) + WLAN2450	-	-	10.0 mm	0.482 W/kg	0.54 W/kg	1.6 W/kg	PASSED	32

* Reported SAR values are scaled to, or measured at, upper limit of power tuning tolerance.

1.2.4 Summary SAR data

	FCC-defined SAR values for the Grants of Equipment Authorization		
	PCE	DTS	NII
Maximum Head SAR values	1.30 W/kg	0.64 W/kg	-
{Max + Max} Simultaneous Head SAR value	1.60 W/kg		
Maximum Body SAR values	0.78 W/kg	0.07 W/kg	-
{Max + Max} Simultaneous Body SAR value	0.83 W/kg		
Maximum Product Specific (Wireless Router) SAR values	1.00 W/kg	0.18 W/kg	-
{Max + Max} Simultaneous Product Specific SAR value	1.01 W/kg		
Maximum Simultaneous SAR value Head SAR: LTE2500 (Band 7) + WLAN2450	1.60 W/kg		

Note:

PCE contains the highest results between all cellular modes (cellular, AWS and PCS bands)

DTS contains the highest results between WLAN 2.4GHz + RLAN 5725-5850MHz

NII contains the highest results between RLAN 5150-5250, 5250-5350 and 5470-5725

1.2.5 Maximum Drift

Maximum drift covered by 5% scaling up of the SAR values	Maximum drift during measurements
0.2dB	0.17dB

1.2.6 Measurement Uncertainty

Expanded Uncertainty (k=2) 95%	± 29.8%
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2. DESCRIPTION OF THE DEVICE UNDER TEST

Device category	Portable
Exposure environment	General population / uncontrolled

Modes of Operation	Bands	Modulation Mode	Duty Cycle	Transmitter Frequency Range (MHz)	Power Tuning Target (dBm)				Upper Limit of Power Tuning Tolerance (dBm)			
					1-slot	2-slot	3-slot	4-slot	1-slot	2-slot	3-slot	4-slot
GSM / GPRS	850	GMSK	1/8 to 4/8	824 – 849	33.0	30.0	28.2	27.0	33.4	30.4	28.6	27.4
	1900			1850 – 1910	30.0	27.0	25.2	24.0	30.4	27.4	25.6	24.4
EGPRS	850	GMSK	1/8 to 4/8	824 – 849	27.0	24.0	22.2	21.0	27.4	24.4	22.6	21.4
	1900			1850 – 1910	26.0	23.0	21.2	20.0	26.4	23.4	21.6	20.4
WCDMA	850 (Band 5)		1	826 – 847	24.0				24.4			
WCDMA	1700/2100 (Band 4)		1	1712 – 1753	23.5				23.9			
WCDMA	1900 (Band 2)		1	1852 – 1908	23.5				23.9			
HSUPA	850 (Band 5)		1	826 – 847	See Appendix D for details							
HSUPA	1700/2100 (Band 4)		1	1712 – 1753	See Appendix D for details							
HSUPA	1900 (Band 2)		1	1852 – 1908	See Appendix D for details							
LTE	700 (Band 17)	QPSK / 16QAM	1	704 – 716	23.5 / 22.5				23.9 / 22.9			
LTE	850 (Band 5)	QPSK / 16QAM	1	824 – 849	23.5 / 22.5				23.9 / 22.9			
LTE	1700/2100(Band 4)	QPSK / 16QAM	1	1710 – 1755	23.0 / 22.0				23.4 / 22.4			
LTE	1900(Band 2)	QPSK / 16QAM	1	1850 – 1910	23.0 / 22.0				23.4 / 22.4			
LTE	2500(Band 7)	QPSK / 16QAM	1	2500 - 2570	21.0 / 20.0				21.4 / 20.4			
BT	2450	GFSK	1	2402 – 2480	10.0				11.5			
					Ch 1	Ch2-10	Ch 11		Ch 1	Ch2-10	Ch 11	
WLAN b-mode	2450	DSSS	1	2412 – 2472	16.0	16.5	16.0		17.5	18.0	17.5	
WLAN g-mode	2450	OFDM	1	2412 – 2472	12.0	15.0	12.0		13.5	16.5	13.5	
WLAN n-mode 20MHz	2450	OFDM	1	2412 – 2462 2412 – 2472	11.0	13.0	11.0		12.5	14.5	12.5	

Outside of USA, the transmitter of the device is capable of operating also in GSM/GPRS/EGPRS900, GSM/GPRS/EGPRS1800 and HSUPA/WCDMA2100(Band 1) bands which are not part of this filing.

This device has Voice-over-IP/Dual Transfer Mode capability for use at the ear. Therefore, SAR for multi slot GPRS mode was evaluated against the head profile of the phantom. Dual Transfer Mode is a feature that utilises the multi-slot GPRS capability in this device; it allows simultaneous transmission of voice and data during the same call, using the same transmitter and antenna.

This device has also HSUPA capabilities in all WCDMA bands listed above. HSUPA target powers are always lower than or equal to the corresponding WCDMA target power listed above, details of the HSUPA MPR scheme, power targets and power results can be found in Appendix D. SAR tests for HSUPA mode have not been performed as no HSUPA Sub-test mode has an average power > 0.25dB above the basic WCDMA 12.2kbps RMC mode.

This is an LTE Category 3 device; it contains five LTE bands, namely LTE bands 700, 850, 1700/2100, 1900 and 2500. In LTE700(Band 17), the device possesses Channel Bandwidths of 10MHz and 5MHz; in LTE850(Band 5), the device possesses Channel Bandwidths of 10MHz, 5MHz, 3MHz and 1.4MHz; in LTE1700/2100(Band 4) and in LTE1900(Band 2), the device possesses Channel Bandwidths of 20MHz, 15MHz, 10MHz, 5MHz, 3MHz and 1.4MHz; in LTE2500(Band 7) Channel Bandwidths of 20MHz, 15MHz, 10MHz and 5MHz are available.

This is a BT Class 1 device and its power tuning target upper limit is 11.5dBm. WLAN2450 power tuning target upper limit is 18dBm. Since WLAN2450 and BT use same frequency and antenna, WLAN2450 power is 6.5dB higher, and they cannot transmit simultaneously, the WLAN2450 standalone SAR is conservative estimation of BT SAR. As WLAN2450 SAR result is below limit, also BT SAR can be deemed to comply without further analysis or standalone measurements. Also WLAN2450+cellular bands combined SAR results can be regarded as conservative estimation of BT+cellular combined SARs. As WLAN2450+cellular combined SAR result are below limit, also BT+cellular combined SAR can be deemed to comply without further analysis and estimations required in KDB 447498 for simultaneous transmission exclusion.

This device has Wireless Router "Hotspot" mode capability.

Two antennas are used for transmission of some of the cellular bands in diversity-Tx mode. In this mode the antennas can not transmit at the same time. See table below for applicable antennas in each transmission band and mode. A separate single antenna is used for WLAN. All antennas are fully and separately SAR tested for individual transmission. Simultaneous transmissions with WLAN2450 are assessed separately for both cellular antennas.

	Tx Antennas	
	Antenna 1	Antenna 2
GSM/GPRS/EGPRS850	-	✓
GSM/GPRS/EGPRS1900	✓	-
WCDMA850 (Band 5)	✓	✓
WCDMA1700 (Band 4)	✓	✓
WCDMA1900 (Band 2)	✓	✓
LTE1900 (Band 2)	✓	✓
LTE1700 (Band 4)	✓	✓
LTE850 (Band 5)	✓	✓
LTE 2500(Band 7)	✓	✓
LTE700 (Band 17)	✓	✓

Simultaneous transmission of any singular cellular, AWS and PCS band is possible with WLAN in Head, Body-worn and Wireless router use according to the table below.

Simultaneous transmission capabilities in Head, Body-worn and Wireless Router use	
	WLAN2450
GSM/GPRS/EGPRS850	✓
GSM/GPRS/EGPRS1900	✓
WCDMA850 (Band 5)	✓
WCDMA1700 (Band 4)	✓
WCDMA1900 (Band 2)	✓
LTE1900 (Band 2)	✓
LTE1700 (Band 4)	✓
LTE850 (Band 5)	✓
LTE 700(Band 17)	✓
LTE2500 (Band 7)	✓

The hotspot mode (Wireless Router mode) may operate concurrently in DTM mode with voice calls. The reported SAR test results are conservative regarding that use case, since output power in hotspot mode is equal to or lower than in normal voice and data modes. See following chapter for hotspot mode power reductions. Also simultaneous transmissions with WLANs are already conservatively assessed for head and body-worn exposure conditions due to VoIP capability.

2.1 Power reductions in Wireless Router configurations

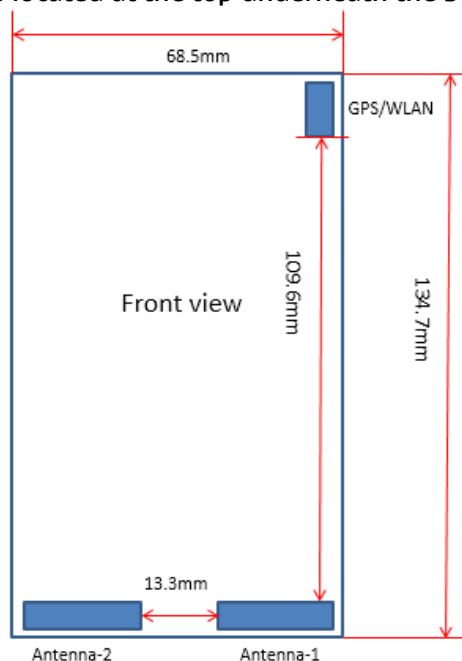
The following table details the power reductions active in Wireless Router mode:

Band	Power reduction in WR mode	Target tuning power in WR mode		
LTE700	0 dB	23.5dBm		
GPRS/EGPRS850	0 dB	1-slot GPRS: 33.0dBm 2-slot GPRS: 30.0dBm 3-slot GPRS: 28.2dBm 4-slot GPRS: 27.0dBm	1-slot EGPRS: 27.0dBm 2-slot EGPRS: 24.0dBm 3-slot EGPRS: 22.2dBm 4-slot EGPRS: 21.0dBm	
WCDMA850	0 dB	24.0dBm		
LTE850	0 dB	23.5dBm		
WCDMA1700/2100	3 dB	20.5dBm		
LTE1700/2100	3 dB	20.0dBm		
GPRS/EGPRS1900	5 dB	1-slot GPRS: 25.0dBm 2-slot GPRS: 22.0dBm 3-slot GPRS: 20.2dBm 4-slot GPRS: 19.0dBm	1-slot EGPRS: 21.0dBm 2-slot EGPRS: 18.0dBm 3-slot EGPRS: 16.2dBm 4-slot EGPRS: 15.0dBm	
WCDMA1900	3 dB	20.5dBm		
LTE1900	3 dB	20.0dBm		
LTE2500 (QPSK)	1.5 dB	19.5dBm		
WLAN2450 b-mode (DSSS 1 Mbps)	0 dB	Ch 1: 16.0dBm	Ch 2-10: 16.5dBm	Ch 11: 16.0dBm
WLAN2450 g-mode (OFDM 6 Mbps)	0 dB	Ch 1: 12.0dBm	Ch 2-10: 15.0dBm	Ch 11: 12.0dBm
WLAN2450 n-mode (MCS 0 – OFDM 6.5 Mbps)	0 dB	Ch 1: 11.0dBm	Ch 2-10: 13.0dBm	Ch 11: 11.0dBm

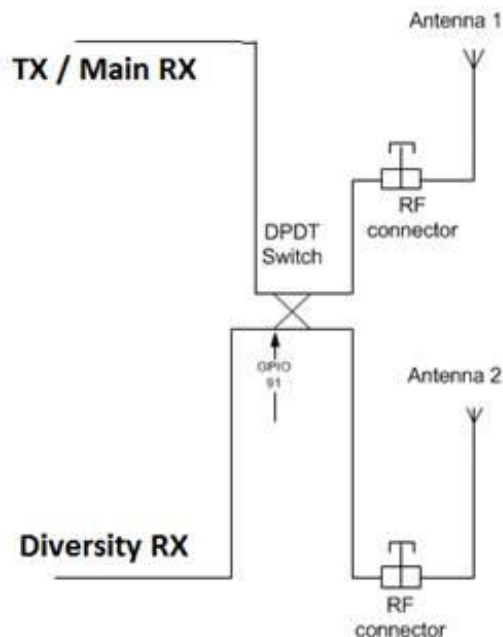
‡ Wireless Router ‘Hotspot’ mode use is not restricted during Voice calls, hence SAR compliance has been addressed for the simultaneous Voice and Hotspot data configurations in Head and Body-worn accessory use conditions (KDB 941225 D06 Hot Spot SAR v01)

2.2 Description of the Antenna

The device has 2 separate internal antennas for cellular, AWS and PCS use and one internal antenna for WLAN use. The cellular antenna 1 is located at the near right bottom underneath the back cover and cellular antenna 2 is located at the near left bottom underneath the back cover. The WLAN antenna is located at the top underneath the back cover.



Schematics showing Tx and Rx circuitry, antenna switch, conducted ports and antenna.



3. TEST CONDITIONS

3.1 Temperature and Humidity

Ambient temperature (°C):	20.5 – 22.5
Ambient humidity (RH %):	35 - 55

3.2 Test Signal, Frequencies and Output Power

The device was put into operation by using a call tester except for testing WLAN2450 where control software was used. Communication between the device and the call tester was established by air link.

A CMW500 call tester was used to configure the test device for transmitting all the LTE bands; in each band, the Uplink Power Control was set to 'Max Power'. Additional Spectrum Emission was set to 'NS_01' to disable A-MPR.

A CMU200 call tester was used for all the GSM/GPRS/EGPRS and WCDMA bands; in the case of GSM/GPRS/EGPRS the MS signal was always set to maximum power, whereas for WCDMA the UE uplink signal was configured to 12.2kbps RMC with all TPC bit set to 1.

The device output power was set to maximum power level for all tests; a fully charged battery was used for every test sequence.

This device was tested in all the available multi-slot GMSK GPRS modes; Dual Transfer Mode was not specifically tested as the average power in multi-slot GMSK GPRS mode is always greater than, or equal to, the average power in Dual Transfer Mode in Microsoft devices.

The transmission mode of the device in all WCDMA tests was configured to 12.2kbps RMC with all TPC bits set as "1". All WCDMA testing has been carried out in accordance with FCC KDB 941225: SAR Measurement Procedures for 3G Devices. Conducted power measurements for WCDMA modes have been carried out in accordance with 3GPP TS34.1083 and GPP TS 34.121-1 and results can be found in Appendix D.

All the conducted powers for HSUPA and DC-HSDPA modes are lower than for WCDMA RMC mode, therefore SAR tests for these modes are excluded (KDB 941225 D02 HSPA and 1x Advanced v02r02).

In all operating bands the measurements were performed on lowest, middle and highest channels, and/or on all required test channels as defined in Published FCC KDB Procedures.

Main testing has been done with the normal back cover of the device. The worst case check measurements have been done with the charging back cover type CC-3086.

The conducted output power of the device was measured by a separate test laboratory on the same unit(s) as used for SAR testing. The results are given in the appendixes G-J of this report.

The transmission mode of the device in all WLAN b-mode tests was BPSK 1Mbps. This mode has the highest time-averaged output power of all the WLAN a, b, g and n modulation modes in this device as illustrated in table in Appendix J .All WLAN testing has been carried out in accordance with FCC KDB 248227: SAR Measurement Procedures for 802.11 a/b/g Transmitters.

LTE band has been tested according to the guidance given in KDB941225 D05 SAR for LTE Devices v01. MPR values as stipulated in Table 6.2.3_1 of 3GPP TS 36.101 (presented below) have been incorporated into the device; these MPR values are dependent on the modulation, Channel Bandwidth and Resource Block allocations as shown:

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

No additional MPR settings have been incorporated into the design of the device and therefore no A-MPR settings have been active during its testing.

Here is a summary list of the KDB documents used in the reported testing:

KDB941225 D05 SAR for LTE Devices v02r02 DR07-41372
KDB 941225 D01 SAR Measurement Procedures for 3G Devices
KDB 248227: SAR Measurement Procedures for 802.11 a/b/g Transmitters
KDB 648474 D04 SAR Handsets Multi Xmitter and Ant v01
KDB 941225 D06 v01 Hot Spot SAR
KDB 447498 D01 General RF Exposure Guidance v05
KDB 690783 D01 SAR Listings on Grants
KDB 865664 D01 SAR Measurements 100MHz to 6GHz v01
KDB 865664 D02 SAR Reporting v01

4. DESCRIPTION OF THE TEST EQUIPMENT

4.1 Measurement System and Components

The measurements were performed using an automated DASY near-field scanning system manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland. The SAR extrapolation algorithm used in all measurements was the 'advanced extrapolation' algorithm.

The following table lists calibration dates of SPEAG components:

Test Equipment	Serial Number	Calibration date	Calibration expiry
DAE 4	710	2014-03	2015-03
DAE 4	860	2013-09	2014-09
DAE 4	1324	2014-03	2015-03
DAE 4	1319	2013-09	2014-09
DAE 4	480	2013-09	2014-09
DAE 4	887	2014-03	2015-03
E-field Probe EX3DV4	3836	2014-03	2015-03
E-field Probe EX3DV4	3839	2013-09	2014-09
E-field Probe EX3DV4	3823	2013-09	2014-09
E-field Probe EX3DV4	3838	2014-03	2015-03
E-field Probe ES3DV3	3280	2014-03	2015-03
E-field Probe EX3DV4	3574	2013-09	2014-09
E-field Probe ES3DV3	3195	2014-03	2015-03
Dipole Validation Kit, D750V3	1048	2013-09	2015-09
Dipole Validation Kit, D835V2	4d005	2014-03	2016-03
Dipole Validation Kit, D1750V2	1085	2013-01	2015-01
Dipole Validation Kit, D1900V2	547	2013-09	2015-09
Dipole Validation Kit, D1900V2	509	2012-12	2014-12
Dipole Validation Kit, D2450V2	883	2014-03	2016-03
Dipole Validation Kit, D2450V2	760	2013-03	2015-03
Dipole Validation Kit, D2600V2	1042	2013-09	2015-09
Dipole Validation Kit, D2600V2	1082	2014-06	2016-06
DASY5 software	Version 52.8	-	-

Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration date	Calibration expiry
Signal Generator	8648C	3847M00258	2014-04	2015-04
Signal Generator	SME06	829445/008	2014-04	2015-04
Signal Generator	E4432B	US40052231	2014-04	2015-04
Signal Generator	SME06	829683/005	2014-04	2015-04
Call Tester	CMU200	835352/008	-	-
Call Tester	CMU200	831593/001	-	-
Call Tester	CMU200	110735	-	-
Call Tester	CMW500	113277	-	-
Call Tester	CMW500	115794	-	-
Call Tester	SP6010	SP6010-0329	-	-
Call Tester	SP6010	SP6010-0299	-	-
Amplifier	ZHL-42W	QA1252001	-	-
Amplifier	5S1G4M3	302339	-	-
Amplifier	AR 5S1G4M1	306024	-	-
Amplifier	ZHL-4240W	e060204/1	-	-
RF Network Analyzer	E5071C	MY46104578	2014-04	2015-04
RF Network Analyzer	8753ES	US39170317	2014-04	2015-04
RF Network Analyzer	8753ES	My40002096	2014-04	2015-04
Dielectric Probe Kit	DAK-3.5	1065	-	-
Dielectric Probe Kit	85070C	653	-	-
Dielectric Probe Kit	85070C	2577	-	-
Power Meter	NRP	101293	2014-04	2015-04
Power Sensor	NRP-Z51	100410	2014-04	2015-04
Power Meter	NRP2	103071	2014-04	2015-04
Power Sensor	NRP-Z51	104120	2014-04	2015-04
Power Meter	E4419B	My41291520	2014-04	2015-04
Power Sensor	8482A	US37295410	2014-04	2015-04
Power Meter	NRVD	840297/008	2014-04	2015-04
Power Sensor	NRV-Z51	101135	2014-04	2015-04

4.1.1 Isotropic E-field Probe Type ES3DV3

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., butyl diglycol)
Calibration	Calibration certificate in Appendix E
Frequency	10 MHz to 4 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 4 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in HSL (rotation normal to probe axis)
Dynamic Range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 20 mm Body diameter: 12 mm Tip diameter: 3.9 mm
Application	Distance from probe tip to dipole centers: 2.0 mm General dosimetry up to 4 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.1.2 Isotropic E-field Probe Type EX3DV4

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Calibration certificate in Appendix E
Frequency	10 MHz to >6 GHz (dosimetry); Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g, Linearity: ± 0.2 dB
Dimensions	Overall length: 330 mm Tip length: 10 mm Body diameter: 12 mm Tip diameter: 2.5 mm
Application	Distance from probe tip to dipole centers: 1.0 mm General dosimetry up to 6 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

4.2 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SPEAG. The phantom conforms to the requirements of IEEE 1528.

The SPEAG device holder (see Section 5.1) was used to position the device in all tests whilst a tripod was used to position the validation dipoles against the flat section of phantom.

4.3 Tissue Simulants

Recommended values for the dielectric parameters of the tissue simulants are given in IEEE 1528 and FCC published RF Exposure KDB Procedures. All tests were carried out using simulants whose dielectric parameters were within $\pm 5\%$ of the recommended values. All tests were carried out within 24 hours of measuring the dielectric parameters.

The depth of the tissue simulant was at least 15.0 cm measured from the ear reference point during system checking and device measurements.

4.3.1 Tissue Simulant Recipes

The following recipe(s) were used for Head and Body tissue simulant(s):

700MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	52.13	69.23
Tween 20	46.59	29.56
Salt	1.28	1.21

800MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	39.74	55.97
HEC	0.25	1.21
Sugar	58.31	41.76
Preservative	0.15	0.27
Salt	1.55	0.79

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	51.50	69.25
Tween 20	47.35	30.00
Salt	1.15	0.75

1800MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	54.0	70.20
Tween 20	45.6	29.37
Salt	0.4	0.43

1900MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	54.50	70.25
Tween 20	45.23	29.41
Salt	0.27	0.34

2450-2600MHz band

Ingredient	Head (% by weight)	Body (% by weight)
Deionised Water	56.0	70.20
Tween 20	44.0	29.62
Salt	-	0.18

4.4 System validation and System checking

4.4.1 System validation status

Probe Calibration Point f / MHz	Test System	DASY SW	Dipole Type / SN	Probe Type / SN	Calibrated signal type(s)	DAE unit Type / SN	Validation done	
							Head tissue simulant	Body tissue simulant
750	TCC Beijing / SAR-4	V52.8	D750V3 / 1048	EX3DV4 / 3836	CW	DAE4 / 887	2014-06	2014-08
835	TCC Beijing / SAR-1	V52.8	D835V2 / 479	EX3DV4 / 3839	CW	DAE4 / 860	2014-02	2014-03
835	TCC Beijing / SAR-3	V52.8	D835V2 / 4d005	EX3DV4 / 3838	CW	DAE4 / 480	2014-05	2014-04
1750	TCC Beijing / SAR-2	V52.8	D1750V2 / 1085	ES3DV3 / 3823	CW	DAE4 / 1319	2014-03-13	-
1750	TCC Beijing / SAR-3	V52.8	D1750V2 / 1085	ES3DV3 / 3838	CW	DAE4 / 710	2014-06	2014-08
1900	TCC Beijing / SAR-1	V52.8	D1900V2 / 547	EX3DV4 / 3195	CW	DAE4 / 1324	2014-05	2014-04
1900	TCC Beijing / SAR-3	V52.8	D1900V2 / 509	ES3DV3 / 3574	CW	DAE4 / 480	2014-02	2014-03
2450	TCC Beijing / SAR-2	V52.8	D2450V2 / 760	ES3DV3 / 3823	CW	DAE4 / 1319	2014-02	-
2450	TCC Beijing / SAR-4	V52.8	D2450V2 / 883	EX3DV4 / 3280	CW	DAE4 / 887	2014-05	2014-06
2600	TCC Beijing / SAR-4	V52.8	D2600V2 / 1042	EX3DV4 / 3280	CW	DAE4 / 1324	2014-05	2014-08

4.4.2 System checking

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulants were measured every day using the dielectric probe kit and the network analyser. A system check measurement was made following the determination of the dielectric parameters of the simulant, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom for head system checking, and under the flat phantom for body system checking. The system checking results (dielectric parameters and SAR values) are given in the table below.

System checking, head tissue simulant

f [MHz]	Description	SAR 1g [W/kg]	Estimated SAR 1g [W/kg]	Estimated SAR 1g Deviation	Scaled 1W SAR 1g [W/kg]	Dielectric Parameters*		SAR 1g Deviation from target	Dielectric Parameters Deviation from target		Temp [°C]	Plot #
				dSAR [%]		ϵ_r	σ [S/m]		d ϵ_r [%]	d σ [%]		
	Tolerances			±3%				±10 %	±5 %	±5 %		
750	Target result SN:1048	-	-	-	8.43	41.9	0.89	TCC Beijing/SAR-4 EX3DV4 SN:3836 Head 750MHz				
	2014-08-13	2.13	2.10	-1.41	8.52	43.7	0.93	1.07	4.30	4.49	21.1	-
	2014-08-14	2.10	2.07	-1.43	8.40	43.4	0.91	-0.36	3.58	2.25	21.1	-
	2014-08-15	2.04	2.04	0.00	8.16	42.6	0.90	-3.20	1.67	1.12	21.1	1
	2014-08-25	2.06	2.05	-0.49	8.24	43.3	0.92	-2.25	3.34	3.37	21.8	-
835	Target result SN:4d005	-	-	-	9.32	41.5	0.90	TCC Beijing/SAR-1 EX3DV4 SN:3839 Head 835MHz				
	2014-08-06	2.46	2.45	-0.41	9.84	43.5	0.92	5.58	4.82	2.22	21.0	2
	2014-08-07	2.34	2.32	-0.85	9.36	42.6	0.91	0.43	2.65	1.11	21.0	-
	2014-08-08	2.38	2.35	-1.26	9.52	42.4	0.91	2.15	2.17	1.11	21.1	-
	2014-08-15	2.46	2.43	-1.22	9.84	43.1	0.92	5.58	3.86	2.22	21.2	-
	Target result SN:4d005	-	-	-	9.32	41.5	0.90	TCC Beijing/SAR-3 EX3DV4 SN:3838 Head 835MHz				
	2014-08-21	2.31	2.30	-0.43	9.24	41.5	0.90	-0.86	0.00	0.00	21.4	-
1750	Target result SN:1085	-	-	-	37.3	40.1	1.37	TCC Beijing/SAR-2 EX3DV4 SN:3823 Head 1750MHz				
	2014-08-18	9.17	9.20	0.33	36.7	38.9	1.35	-1.66	-2.99	-1.46	21.1	-
	2014-08-19	9.12	9.15	0.33	36.5	38.9	1.35	-2.20	-2.99	-1.46	21.0	4
	2014-08-20	9.35	9.35	0.00	37.4	38.6	1.36	0.27	-3.74	-0.73	21.2	-
1900	Target result SN:509	-	-	-	38.7	40.0	1.40	TCC Beijing/SAR-3 EX3DV4 SN:3574 Head 1900MHz				
	2014-08-05	9.70	9.96	2.68	38.8	39.1	1.41	0.26	-2.25	0.71	21.2	-
	2014-08-07	9.98	10.1	1.20	39.9	38.7	1.39	3.10	-3.25	-0.71	21.2	5
	2014-08-12	9.90	10.0	1.01	39.6	38.7	1.38	2.33	-3.25	-1.43	20.6	-
	2014-08-20	9.88	10.1	2.23	39.5	38.6	1.37	2.12	-3.50	-2.14	21.2	-
	Target result SN:547	-	-	-	40.9	40.0	1.40	TCC Beijing/SAR-1 ES3DV3 SN:3195 Head 1900MHz				
2450	2014-08-25	9.66	9.75	0.93	38.6	38.2	1.45	-5.62	-4.50	3.57	21.1	6
	Target result SN:760	-	-	-	53.6	39.2	1.80	TCC Beijing/SAR-2 EX3DV4 SN:3823 Head 2450MHz				
	2014-08-05	12.3	12.3	0.00	49.2	38.4	1.83	-8.21	-2.04	1.67	21.1	7

(Table continues)

(Table continues)

2600	Target result SN:1042	-	-	-	56.5	39.0	1.96	TCC Beijing/SAR-4 ES3DV3 SN:3280 Head 2600MHz				
	2014-08-25	14.9	14.9	0.00	59.6	37.2	1.97	5.49	-4.62	0.51	21.9	-
	2014-08-26	15.1	15.2	0.66	60.4	37.2	1.98	6.90	-4.62	1.02	21.8	-
	2014-08-27	15.4	15.4	0.00	61.6	38.0	2.00	9.03	-2.56	2.04	21.8	8

* Dielectric parameter reference data taken from IEEE1528/IEC62209

System checking, body tissue simulant

f [MHz]	Description	SAR 1g [W/kg]	Estimated SAR 1g [W/kg]	Estimated SAR 1g Deviation	Scaled 1W SAR 1g [W/kg]	Dielectric Parameters*		SAR 1g Deviation from target	Dielectric Parameters Deviation from target		Tem p [°C]	Plot #
				dSAR [%]		ϵ_r	σ [S/m]		d ϵ_r [%]	d σ [%]		
	Tolerances			±3%				±10 %	±5 %	±5 %		
750	Target result SN:1048	-	-	-	8.65	55.5	0.96	TCC Beijing/SAR-4 EX3DV43 SN:3836 Body 750MHz				
	2014-08-06	2.21	2.21	0.00	8.84	55.0	0.96	2.20	-0.90	0.00	21.1	-
	2014-08-11	2.33	2.33	0.00	9.32	55.1	0.96	7.75	-0.72	0.00	21.1	-
	2014-08-12	2.35	2.36	0.43	9.40	55.0	0.97	8.67	-0.90	1.04	21.1	-
	2014-08-25	2.36	2.36	0.00	9.44	55.5	1.00	9.13	0.00	4.17	21.8	9
835	Target result SN:4d005	-	-	-	9.31	55.2	0.97	TCC Beijing/SAR-1 EX3DV4 SN:3839 Body 835MHz				
	2014-08-11	2.33	2.36	1.29	9.32	53.9	0.95	0.11	-2.36	-2.06	21.0	-
	2014-08-12	2.45	2.45	0.00	9.80	53.7	0.96	5.26	-2.72	-1.03	21.0	-
	2014-08-13	2.51	2.50	-0.40	10.0	53.5	0.96	7.84	-3.08	-1.03	21.1	10
	2014-08-14	2.51	2.51	0.00	10.0	53.4	0.96	7.84	-3.26	-1.03	21.2	-
	2014-08-21	2.47	2.48	0.40	9.88	53.6	0.95	6.12	-2.90	-2.06	21.1	-
1750	Target result SN:1085	-	-	-	38.1	53.4	1.49	TCC Beijing/SAR-3 EX3DV4 SN:3838 Body 1750MHz				
	2014-08-12	9.37	9.47	1.07	37.5	53.1	1.44	-1.63	-0.56	-3.36	20.6	-
	2014-08-13	9.32	9.38	0.64	37.3	53.2	1.43	-2.15	-0.37	-4.03	20.6	-
	2014-08-14	9.06	9.21	1.66	36.2	52.9	1.43	-4.99	-0.94	-4.03	20.6	11
	2014-08-19	9.53	9.60	0.73	38.1	53.9	1.46	0.05	0.94	-2.01	21.2	-
	2014-08-26	9.64	9.76	1.24	38.6	53.2	1.47	1.21	-0.37	-1.34	21.2	-

(Table continues)

(Table continues)

1900	Target result SN:509	-	-	-	39.2	53.3	1.52	TCC Beijing/SAR-3 EX3DV4 SN:3574 Body 1900MHz				
	2014-08-11	9.49	9.59	1.04	38.0	51.8	1.52	-3.06	-2.81	0.00	20.6	12
	2014-08-18	9.65	9.90	2.59	38.6	51.5	1.52	-1.53	-3.38	0.00	21.2	-
	Target result SN:547	-	-	-	40.9	53.3	1.52	TCC Beijing/SAR-1 ES3DV3 SN:3195 Body 1900MHz				
	2014-08-19	9.44	9.47	0.32	37.8	51.4	1.51	-7.58	-3.56	-0.66	21.0	13
	2014-08-20	9.72	9.76	0.41	38.9	51.2	1.51	-4.89	-3.94	-0.66	21.2	-
	2014-08-26	9.84	9.89	0.51	39.4	52.0	1.52	-3.67	-2.44	0.00	21.2	-
	2014-08-27	10.0	10.2	2.00	40.0	51.7	1.53	-2.20	-3.00	0.66	21.2	-
2450	Target result SN:883	-	-	-	51.0	52.7	1.95	TCC Beijing/SAR-4 ES3DV3 SN:3280 Body 2450MHz				
	2014-08-18	13.9	13.9	0.00	55.6	52.5	1.95	9.02	-0.38	0.00	21.4	14
2600	Target result SN:1082	-	-	-	56.0	52.5	2.16	TCC Beijing/SAR-4 ES3DV3 SN:3280 Body 2600MHz				
	2014-08-20	15.0	14.9	-0.67	60.0	51.4	2.15	7.14	-2.10	-0.46	21.7	-
	2014-08-21	15.1	14.9	-1.32	60.4	50.8	2.18	7.86	-3.24	0.93	21.7	15
	2014-08-22	14.8	14.7	-0.68	59.2	53.0	2.16	5.71	0.95	0.00	21.7	-

* Dielectric parameter reference data taken from FCC Published RF Exposure KDB Procedures

Plots of the system checking scans are given in Appendix A.

4.5 Tissue Simulants used in the Measurements

Head tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Dielectric Parameters Deviation from recommended value		Temp [°C]
		ϵ_r	σ [S/m]	$d\epsilon_r$ [%]	$d\sigma$ [%]	
	Tolerances			± 5 %	± 5 %	
710	Recommended value	42.1	0.89			
	2014-08-13	44.2	0.89	4.99	0.00	21.1
	2014-08-14	44.0	0.87	4.51	-2.25	21.1
	2014-08-15	43.2	0.86	2.61	-3.37	21.1
	2014-08-25	43.8	0.88	4.04	-1.12	21.8
835	Recommended value	41.5	0.90			
	2014-08-07	42.6	0.91	2.65	1.11	21.0
	2014-08-08	42.4	0.91	2.17	1.11	21.1
836	Recommended value	41.5	0.90			
	2014-08-06	43.5	0.92	4.82	2.22	21.0
	2014-08-07	42.6	0.91	2.65	1.11	21.0
	2014-08-15	43.0	0.93	3.61	3.33	21.0
	2014-08-21	41.5	0.90	0.00	0.00	21.4
	2014-08-22	41.6	0.90	0.24	0.00	21.2
1732	Recommended value	40.1	1.36			
	2014-08-18	39.0	1.33	-2.74	-2.21	21.1
	2014-08-19	39.0	1.33	-2.74	-2.21	21.0
	2014-08-20	38.7	1.34	-3.49	-1.47	21.2
1880	Recommended value	40.0	1.40			
	2014-08-05	39.2	1.39	-2.00	-0.71	21.2
	2014-08-07	38.8	1.37	-3.00	-2.14	21.2
	2014-08-12	38.8	1.36	-3.00	-2.86	20.6
	2014-08-20	38.7	1.35	-3.25	-3.57	21.2
	2014-08-25	38.3	1.43	-4.25	2.14	21.1
2437	Recommended value	39.2	1.79			
	2014-08-05	38.5	1.81	-1.79	1.12	21.4
2535	Recommended value	39.1	1.89			
	2014-08-25	37.7	1.87	-3.58	-1.06	21.9
	2014-08-26	37.7	1.88	-3.58	-0.53	21.8
	2014-08-27	38.0	1.89	-2.81	0.00	21.8

Body tissue simulant measurements

f [MHz]	Description	Dielectric Parameters		Dielectric Parameters Deviation from Recommended value		Temp [°C]
		ϵ_r	σ [S/m]	d ϵ_r [%]	d σ [%]	
	Tolerances			±5 %	±5 %	
710	Recommended value	55.7	0.96			
	2014-08-06	55.6	0.92	-0.18	-4.17	21.1
	2014-08-11	55.5	0.92	-0.36	-4.17	21.1
	2014-08-12	55.6	0.93	-0.18	-3.12	21.1
	2014-08-25	56.0	0.96	0.54	0.00	21.8
835	Recommended value	55.2	0.97			
	2014-08-13	53.5	0.96	-3.08	-1.03	21.1
836	Recommended value	55.2	0.97			
	2014-08-11	53.9	0.95	-2.36	-2.06	21.0
	2014-08-12	53.7	0.97	-2.72	0.00	21.0
	2014-08-13	53.4	0.96	-3.26	-1.03	21.1
	2014-08-14	53.4	0.96	-3.26	-1.03	21.2
	2014-08-21	53.6	0.95	-2.90	-2.06	21.1
1732	Recommended value	53.5	1.48			
	2014-08-12	53.2	1.43	-0.56	-3.38	20.6
	2014-08-13	53.3	1.42	-0.37	-4.05	20.6
	2014-08-14	53.0	1.42	-0.93	-4.05	20.6
	2014-08-19	53.9	1.45	0.75	-2.03	21.2
	2014-08-26	53.2	1.46	-0.56	-1.35	21.2
1880	Recommended value	53.3	1.52			
	2014-08-11	51.9	1.50	-3.94	-1.32	20.6
	2014-08-18	51.5	1.50	-3.38	-1.32	21.2
	2014-08-19	51.4	1.50	-3.56	-1.32	21.0
	2014-08-20	51.3	1.49	0.00	0.00	21.2
	2014-08-26	52.1	1.50	-3.94	-1.32	21.2
	2014-08-27	51.8	1.51	-3.38	-1.32	21.2
2437	Recommended value	52.7	1.94			
	2014-08-18	52.4	1.92	-0.57	-1.03	21.4
2535	Recommended value	52.6	2.07			
	2014-08-20	51.7	2.04	-1.71	-1.45	21.7
	2014-08-21	51.1	2.07	-2.85	0.00	21.7
	2014-08-22	53.3	2.05	1.33	-0.97	21.7

Dielectric parameter data for the band edges is given in Appendix C.

5. DESCRIPTION OF THE TEST PROCEDURE

5.1 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the Dasy system.



Device holder supplied by SPEAG

A spacer (illustrated below) was used to position the device within the SPEAG holder. The spacer positions the device so that the holder has minimal effect on the test results but still holds the device securely. The spacer was removed before the tests.



Spacer

5.2 Test Positions

5.2.1 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".

5.2.2 Body Worn Configuration

The device was placed in the SPEAG holder using the spacer and placed below the flat section of the phantom. The distance between the device and the phantom was kept at the separation distance indicated in Section 1.2.2 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.

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

5.2.3 Wireless Router Configuration

The device was placed in the SPEAG holder 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.

5.3 Scan Procedures

First, area scans were used for determination of the field distribution. Next, a zoom scan, a minimum of 5x5x7 points covering a volume of at least 30x30x30mm, was performed around the highest E-field value to determine the averaged SAR value. Drift was determined by measuring the same point at the start of the area scan and again at the end of the zoom scan. Fast SAR is measured according to the KDB 447498 D01 General RF Exposure Guidance v05r01.

5.4 SAR Averaging Methods

The maximum SAR value was averaged over a cube of tissue using interpolation and extrapolation.

The interpolation, extrapolation and maximum search routines within Dasy4 are all based on the modified Quadratic Shepard's method (Robert J. Renka, "Multivariate Interpolation Of Large Sets Of Scattered Data", University of North Texas ACM Transactions on Mathematical Software, vol. 14, no. 2, June 1988, pp. 139-148).

The interpolation scheme combines a least-square fitted function method with a weighted average method. A trivariate 3-D / bivariate 2-D quadratic function is computed for each measurement point and fitted to neighbouring points by a least-square method. For the zoom scan, inverse distance weighting is incorporated to fit distant points more accurately. The interpolating function is finally calculated as a weighted average of the quadratics.

In the zoom scan, the interpolation function is used to extrapolate the Peak SAR from the deepest measurement points to the inner surface of the phantom.

6. MEASUREMENT UNCERTAINTY

Table 6.1 – Measurement uncertainty evaluation for 1g Full SAR in 0.3-6GHz range

Uncertainty Component	Section in IEEE 1528	Tol. (%)	Prob Dist	Div	C_i	$C_i \cdot U_i$ (%)	V_i
Measurement System							
Probe Calibration	E2.1	±6.6	N	1	1	±6.6	∞
Axial Isotropy	E2.2	±4.7	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	±1.9	∞
Hemispherical Isotropy	E2.2	±9.6	R	$\sqrt{3}$	$(C_p)^{1/2}$	±3.9	∞
Boundary Effect	E2.3	±2.0	R	$\sqrt{3}$	1	±1.2	∞
Linearity	E2.4	±4.7	R	$\sqrt{3}$	1	±2.7	∞
System Detection Limits	E2.5	±1.0	R	$\sqrt{3}$	1	±0.6	∞
Modulation response	E2.5	±2.4	R	$\sqrt{3}$	1	±1.4	
Readout Electronics	E2.6	±0.3	N	1	1	±0.3	∞
Response Time	E2.7	±0.8	R	$\sqrt{3}$	1	±0.5	∞
Integration Time	E2.8	±2.6	R	$\sqrt{3}$	1	±1.5	∞
RF Ambient Conditions - Noise	E6.1	±3.0	R	$\sqrt{3}$	1	±1.7	∞
RF Ambient Conditions - Reflections	E6.1	±3.0	R	$\sqrt{3}$	1	±1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	±0.8	R	$\sqrt{3}$	1	±0.5	∞
Probe Positioning with respect to Phantom Shell	E6.3	±6.7	R	$\sqrt{3}$	1	±3.9	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E5	±4.0	R	$\sqrt{3}$	1	±2.3	∞
Test sample Related							
Test Sample Positioning	E4.2	±6.0	N	1	1	±6.0	11
Device Holder Uncertainty	E4.1	±3.6	N	1	1	±3.6	5
Output Power Variation - SAR drift measurement	E2.9	±5.0	R	$\sqrt{3}$	1	±2.9	∞
Phantom and Tissue Parameters							
Phantom Uncertainty (shape and thickness tolerances)	E3.1	±6.6	R	$\sqrt{3}$	1	±3.8	∞
SAR correction	E3.2	±1.9	R	$\sqrt{3}$	1	±1.1	∞
Conductivity Target - tolerance	E3.4	±5.0	R	$\sqrt{3}$	0.6	±1.8	∞
Conductivity - measurement uncertainty	E3.3	±5.5	N	1	0.6	±3.5	5
Permittivity Target - tolerance	E3.4	±5.0	R	$\sqrt{3}$	0.6	±1.7	∞
Permittivity - measurement uncertainty	E3.3	±2.9	N	1	0.6	±1.7	5
Combined Standard Uncertainty			RSS			±14.0	198
Coverage Factor for 95%			k=2				
Expanded Uncertainty						±28.2	

Table 6.2 – Measurement uncertainty evaluation for 1g Fast SAR in 0.3-6GHz range

Relative DASY5 Uncertainty Budget for Fast SAR Tests According to IEEE 1528/2011 and IEC 62209-1/2011 (0.3-6 GHz range)						
Uncertainty Component	Tol. (%)	Prob Dist.	Div.	C_i	$C_i \cdot U_i$ (%)	V_i
Measurement System						
Probe Calibration	±6.6	N	1	0		
Axial Isotropy	±4.7	R	√3	$(1-c_p)^{1/2}$	±1.9	∞
Hemispherical Isotropy	±9.6	R	√3	$(c_p)^{1/2}$	±3.9	∞
Boundary Effect	±2.0	R	√3	1	±1.2	∞
Linearity	±4.7	R	√3	1	±2.7	∞
System Detection Limits	±1.0	R	√3	1	±0.6	∞
Modulation Response	±2.4	R	√3	1	±1.4	∞
Readout Electronics	±0.3	N	1	0		
Response Time	±0.8	R	√3	0		
Integration Time	±2.6	R	√3	1	±1.5	∞
RF Ambient Conditions - Noise	±3.0	R	√3	1	±1.7	∞
RF Ambient Conditions - Reflections	±3.0	R	√3	0		
Probe Positioner Mechanical Tolerance	±0.8	R	√3	1	±0.5	∞
Probe Positioning with respect to Phantom Shell	±6.7	R	√3	1	±3.9	∞
Spatial x-y Resolution	±10.0	R	√3	1	±5.8	∞
Fast SAR z Approximation	±14.0	R	√3	1	±8.1	∞
Test sample Related						
Test Sample Positioning	±6.0	N	1	1	±6.0	12
Device Holder Uncertainty	±3.6	N	1	1	±3.6	5
Output Power Variation - SAR drift measurement	±5.0	R	√3	1	±2.9	∞
Power Scaling	±0	R	√3	0		
Phantom and Setup						
Phantom Uncertainty (shape and thickness tolerances)	±6.6	R	√3	1	±3.8	∞
SAR correction	±1.9	R	√3	0		
Conductivity Target - tolerance	±1.9	R	√3	0		
Conductivity - measurement uncertainty	±5.0	R	√3	0		
Permittivity Target - tolerance	±5.5	N	1	0		
Permittivity - measurement uncertainty	±5.0	R	√3	0		
Combined Standard Uncertainty						
		RSS			±14.9	748
Coverage Factor for 95%						
		k=2				
Expanded Uncertainty						
					±29.8	

7. RESULTS

7.1 The measured Head SAR values for the test device are tabulated below:

LTE700 (Band 17) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.7	23.7	0.2	0.2	0.2	dB	
	Time-averaged Power [dBm]		23.7	23.7	23.7	1.05	1.05	1.05	Lin	
	Left Cheek	Estimated SAR	-	0.080	-	-	0.084	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.044	-	-	0.046	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.108	-	-	0.113	-	0.00	-
		Full SAR	-	0.107	-	-	0.112	-		
	Right Tilt	Estimated SAR	-	0.058	-	-	0.061	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Right Cheek	Estimated SAR	-	0.105	-	-	0.110	-	0.00	-
		Full SAR	-	0.105	-	-	0.110	-		
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.6	23.7	23.7	0.3	0.2	0.2	dB	
	Time-averaged Power [dBm]		23.6	23.7	23.7	1.07	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.6	23.7	0.2	0.3	0.2	dB	
	Time-averaged Power [dBm]		23.7	23.6	23.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.7	23.7	0.2	0.2	0.2	dB	
	Time-averaged Power [dBm]		23.7	23.7	23.7	1.05	1.05	1.05	Lin	
	Left Cheek	Estimated SAR	-	0.063	-	-	0.066	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.034	-	-	0.035	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.087	-	-	0.091	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.043	-	-	0.045	-	-	-
Full SAR		-	-	-	-	-	-			

(Table continues)

(Table continues)

10MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]	23.9			Scaling factor*				
	Conducted Power [dBm]	23.6	23.7	23.7	0.3	0.2	0.2	dB	
	Time-averaged Power [dBm]	23.6	23.7	23.7	1.07	1.05	1.05	Lin	
		No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]	23.9			Scaling factor*				
	Conducted Power [dBm]	23.7	23.6	23.7	0.2	0.3	0.2	dB	
	Time-averaged Power [dBm]	23.7	23.6	23.7	1.05	1.07	1.05	Lin	
		No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]	22.9			Scaling factor*				
	Conducted Power [dBm]	22.7	22.7	22.7	0.2	0.2	0.2	dB	
	Time-averaged Power [dBm]	22.7	22.7	22.7	1.05	1.05	1.05	Lin	
		No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE700 (Band 17) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.5	23.5	0.4	0.4	0.4	dB	
	Time-averaged Power [dBm]		23.5	23.5	23.5	1.10	1.10	1.10	Lin	
	Left Cheek	Estimated SAR	-	0.247	-	-	0.271	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left Tilt	Estimated SAR	-	0.183	-	-	0.201	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right Cheek	Estimated SAR	-	0.193	-	-	0.212	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right Tilt	Estimated SAR	-	0.130	-	-	0.143	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.4	23.5	23.5	0.5	0.4	0.4	dB	
	Time-averaged Power [dBm]		23.4	23.5	23.5	1.12	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.4	23.5	0.4	0.5	0.4	dB	
	Time-averaged Power [dBm]		23.5	23.4	23.5	1.10	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.5	23.5	0.4	0.4	0.4	dB	
	Time-averaged Power [dBm]		23.5	23.5	23.5	1.10	1.10	1.10	Lin	
	Left Cheek	Estimated SAR	-	0.251	-	-	0.275	-	0.01	-
		Full SAR	-	0.263	-	-	0.288	-		
	Left Tilt	Estimated SAR	-	0.144	-	-	0.158	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.205	-	-	0.225	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.131	-	-	0.144	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	-	0.262	-	-	0.287	-	0.01	1
		Full SAR	-	0.268	-	-	0.294	-		
10MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.4	23.5	23.5	0.5	0.4	0.4	dB	
	Time-averaged Power [dBm]		23.4	23.5	23.5	1.12	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.4	23.5	0.4	0.5	0.4	dB	
	Time-averaged Power [dBm]		23.5	23.4	23.5	1.10	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		22.5	22.5	22.5	0.4	0.4	0.4	dB	
	Time-averaged Power [dBm]		22.5	22.5	22.5	1.10	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

850MHz Band Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz	Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz		
GSM	Tuning Target + Tolerance [dBm]		33.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		32.8	32.9	32.9	0.6	0.5	0.5	dB	
	Time-averaged power [dBm]		23.8	23.9	23.9	1.15	1.12	1.12	Lin	
	Left Cheek	Estimated SAR	0.326	0.335	0.331	0.374	0.376	0.371	0.00	-
		Full SAR	-	0.333	-	-	0.374	-		
	Left Tilt	Estimated SAR	-	0.220	-	-	0.247	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.246	-	-	0.276	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.193	-	-	0.217	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	0.320	0.324	0.375	0.367	0.364	0.421	0.00	2
Full SAR		-	-	0.374	-	-	0.420			
2-slot GPRS	Tuning Target + Tolerance [dBm]		30.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		29.6	29.5	29.6	0.8	0.9	0.8	dB	
	Time-averaged power [dBm]		23.6	23.5	23.6	1.20	1.23	1.20	Lin	
			No testing required for this slot configuration							
3-slot GPRS	Tuning Target + Tolerance [dBm]		28.6			Scaling factor*				
	Conducted Slot Average Power [dBm]		28.0	27.9	27.8	0.6	0.7	0.8	dB	
	Time-averaged power [dBm]		23.7	23.6	23.5	1.15	1.17	1.20	Lin	
			No testing required for this slot configuration							
4-slot GPRS	Tuning Target + Tolerance [dBm]		27.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		26.7	26.7	26.6	0.7	0.7	0.8	dB	
	Time-averaged power [dBm]		23.7	23.7	23.6	1.17	1.17	1.20	Lin	
			No testing required for this slot configuration							
1-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		27.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		27.0	26.8	26.7	0.4	0.6	0.7	dB	
	Time-averaged power [dBm]		18.0	17.8	17.7	1.10	1.15	1.17	Lin	
			No testing required for this slot configuration							

(Table continues)

(Table continues)

2-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		24.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		24.3	24.1	24.1	0.1	0.3	0.3	dB	
	Time-averaged power [dBm]		18.3	18.1	18.1	1.02	1.07	1.07	Lin	
	Left Cheek	Estimated SAR	0.091	-	-	0.093	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left Tilt	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right Cheek	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
Right Tilt	Estimated SAR	-	-	-	-	-	-	-	-	
	Full SAR	-	-	-	-	-	-	-	-	
3-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		22.2			Scaling factor*				
	Conducted Slot Average Power [dBm]		22.0	22.0	21.9	0.2	0.2	0.3	dB	
	Time-averaged power [dBm]		17.7	17.7	17.6	1.05	1.05	1.07	Lin	
			No testing required for this slot configuration							
4-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		21.1	21.0	20.9	0.3	0.4	0.5	dB	
	Time-averaged power [dBm]		18.1	18.0	17.9	1.07	1.10	1.12	Lin	
			No testing required for this slot configuration							
Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz	Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		24.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		24.1	24.1	24.1	0.3	0.3	0.3	dB	
	Time-averaged power [dBm]		24.1	24.1	24.1	1.07	1.07	1.07	Lin	
	Left Cheek	Estimated SAR	0.425	0.435	0.435	0.455	0.466	0.466	0.02	3
		Full SAR	-	0.418	-	-	0.448	-		
	Left Tilt	Estimated SAR	-	0.274	-	-	0.294	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.322	-	-	0.345	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.256	-	-	0.274	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	0.422	0.430	0.430	0.452	0.461	0.461	0.02	-
		Full SAR	-	0.412	-	-	0.441	-		

WCDMA850 (Band 5) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz	Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		24.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		24.3	24.3	24.3	0.1	0.1	0.1	dB	
	Time-averaged power [dBm]		24.3	24.3	24.3	1.02	1.02	1.02	Lin	
	Left Cheek	Estimated SAR	-	0.187	-	-	0.191	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.146	-	-	0.149	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	0.250	0.242	0.243	0.256	0.248	0.249	0.00	-
		Full SAR	0.252	-	-	0.258	-	-		
	Right Tilt	Estimated SAR	-	0.153	-	-	0.157	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Right Cheek	Estimated SAR	0.233	0.229	0.228	0.238	0.234	0.233	0.01	-
		Full SAR	0.228	-	-	0.233	-	-		

LTE850 (Band 5) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.7	23.6	0.2	0.2	0.3	dB	
	Time-averaged Power [dBm]		23.7	23.7	23.6	1.05	1.05	1.07	Lin	
	Left Cheek	Estimated SAR	-	0.188	-	-	0.197	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left Tilt	Estimated SAR	-	0.185	-	-	0.194	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right Cheek	Estimated SAR	-	0.249	-	-	0.261	-	0.01	-
		Full SAR	-	0.262	-	-	0.274	-	-	-
	Right Tilt	Estimated SAR	-	0.175	-	-	0.183	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	CC-3086 Right Cheek	Estimated SAR	-	0.224	-	-	0.235	-	0.00	-
		Full SAR	-	0.228	-	-	0.239	-	-	-
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.6	23.7	23.7	0.3	0.2	0.2	dB	
	Time-averaged Power [dBm]		23.6	23.7	23.7	1.07	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.6	23.7	0.2	0.3	0.2	dB	
	Time-averaged Power [dBm]		23.7	23.6	23.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.7	23.6	0.2	0.2	0.3	dB	
	Time-averaged Power [dBm]		23.7	23.7	23.6	1.05	1.05	1.07	Lin	
	Left Cheek	Estimated SAR	-	0.210	-	-	0.220	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left Tilt	Estimated SAR	-	0.144	-	-	0.151	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right Cheek	Estimated SAR	-	0.231	-	-	0.242	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right Tilt	Estimated SAR	-	0.148	-	-	0.155	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
10MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.6	23.7	23.7	0.3	0.2	0.2	dB	
	Time-averaged Power [dBm]		23.6	23.7	23.7	1.07	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.6	23.7	0.2	0.3	0.2	dB	
	Time-averaged Power [dBm]		23.7	23.6	23.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.6	0.2	0.2	0.3	dB	
	Time-averaged Power [dBm]		22.7	22.7	22.6	1.05	1.05	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE850 (Band 5) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.5	23.4	0.4	0.4	0.5	dB	
	Time-averaged Power [dBm]		23.5	23.5	23.4	1.10	1.10	1.12	Lin	
	Left Cheek	Estimated SAR	-	0.366	-	-	0.401	-	0.02	-
		Full SAR	-	0.351	-	-	0.385	-		
	Left Tilt	Estimated SAR	-	0.254	-	-	0.279	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.320	-	-	0.351	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.240	-	-	0.263	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	-	0.367	-	-	0.402	-	0.01	4
Full SAR		-	0.354	-	-	0.388	-			
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.4	23.5	23.5	0.5	0.4	0.4	dB	
	Time-averaged Power [dBm]		23.4	23.5	23.5	1.12	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.4	23.5	0.4	0.5	0.4	dB	
	Time-averaged Power [dBm]		23.5	23.4	23.5	1.10	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.5	23.4	0.4	0.4	0.5	dB	
	Time-averaged Power [dBm]		23.5	23.5	23.4	1.10	1.10	1.12	Lin	
	Left Cheek	Estimated SAR	-	0.332	-	-	0.364	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.200	-	-	0.219	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.249	-	-	0.273	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.189	-	-	0.207	-	-	-
Full SAR		-	-	-	-	-	-			

(Table continues)

(Table continues)

10MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]	23.9			Scaling factor*				
	Conducted Power [dBm]	23.4	23.5	23.5	0.5	0.4	0.4	dB	
	Time-averaged Power [dBm]	23.4	23.5	23.5	1.12	1.10	1.10	Lin	
		No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]	23.9			Scaling factor*				
	Conducted Power [dBm]	23.5	23.4	23.5	0.4	0.5	0.4	dB	
	Time-averaged Power [dBm]	23.5	23.4	23.5	1.10	1.12	1.10	Lin	
		No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]	22.9			Scaling factor*				
	Conducted Power [dBm]	22.5	22.5	22.4	0.4	0.4	0.5	dB	
	Time-averaged Power [dBm]	22.5	22.5	22.4	1.10	1.10	1.12	Lin	
		No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

WCDMA1700/2100 Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 1312	Ch 1412	Ch 1513	Ch 1312	Ch 1412	Ch 1513		
			1712.4 MHz	1732.4 MHz	1752.6 MHz	1712.4 MHz	1732.4 MHz	1752.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.3	23.5	23.6	0.6	0.4	0.3	dB	
	Time-averaged power [dBm]		23.3	23.5	23.6	1.15	1.10	1.07	Lin	
	Left Cheek	Estimated SAR	-	0.237	-	-	0.260	-	-	
		Full SAR	-	-	-	-	-	-	-	
	Left Tilt	Estimated SAR	-	0.196	-	-	0.215	-	-	
		Full SAR	-	-	-	-	-	-	-	
	Right Cheek	Estimated SAR	0.451	0.385	0.369	0.518	0.422	0.395	0.00	
		Full SAR	0.452	-	-	0.519	-	-	-	
	Right Tilt	Estimated SAR	-	0.232	-	-	0.254	-	-	
		Full SAR	-	-	-	-	-	-	-	
	CC-3086 Right Cheek	Estimated SAR	0.463	0.407	0.374	0.532	0.446	0.401	0.00	5
		Full SAR	0.463	-	-	0.532	-	-	-	

WCDMA1700/2100 Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.0	23.2	23.3	0.9	0.7	0.6	dB	
	Time-averaged power [dBm]		23.0	23.2	23.3	1.23	1.17	1.15	Lin	
	Left Cheek	Estimated SAR	0.127	0.164	0.208	0.156	0.193	0.239	0.00	-
		Full SAR	-	-	0.206	-	-	0.237		
	Left Tilt	Estimated SAR	-	0.103	-	-	0.121	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.152	-	-	0.179	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.095	-	-	0.112	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	0.123	0.154	0.201	0.151	0.181	0.231	0.00	-
		Full SAR	-	-	0.197	-	-	0.226		

LTE1700/2100 (Band 4) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.2	23.2	23.3	0.2	0.2	0.1	dB	
	Time-averaged Power [dBm]		23.2	23.2	23.3	1.05	1.05	1.02	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.2	23.3	23.2	0.2	0.1	0.2	dB	
	Time-averaged Power [dBm]		23.2	23.3	23.2	1.05	1.02	1.05	Lin	
	Left Cheek	Estimated SAR	-	0.436	-	-	0.446	-	0.02	6
		Full SAR	-	0.413	-	-	0.423	-		
	Left Tilt	Estimated SAR	-	0.231	-	-	0.236	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.312	-	-	0.319	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.255	-	-	0.261	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	-	0.444	-	-	0.454	-	0.04	-
Full SAR		-	0.400	-	-	0.409	-			
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.2	23.2	23.3	0.2	0.2	0.1	dB	
	Time-averaged Power [dBm]		23.2	23.2	23.3	1.05	1.05	1.02	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.2	23.2	23.3	0.2	0.2	0.1	dB	
	Time-averaged Power [dBm]		23.2	23.2	23.3	1.05	1.05	1.02	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.2	23.3	23.2	0.2	0.1	0.2	dB	
	Time-averaged Power [dBm]		23.2	23.3	23.2	1.05	1.02	1.05	Lin	
	Left Cheek	Estimated SAR	-	0.371	-	-	0.380	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.182	-	-	0.186	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.263	-	-	0.269	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.203	-	-	0.208	-	-	-
Full SAR		-	-	-	-	-	-			
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.2	23.2	23.3	0.2	0.2	0.1	dB	
	Time-averaged Power [dBm]		23.2	23.2	23.3	1.05	1.05	1.02	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.2	22.2	22.3	0.2	0.2	0.1	dB	
	Time-averaged Power [dBm]		22.2	22.2	22.3	1.05	1.05	1.02	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE1700/2100 (Band 4) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.0	23.0	23.1	0.4	0.4	0.3	dB	
	Time-averaged Power [dBm]		23.0	23.0	23.1	1.10	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.0	23.1	23.0	0.4	0.3	0.4	dB	
	Time-averaged Power [dBm]		23.0	23.1	23.0	1.10	1.07	1.10	Lin	
	Left Cheek	Estimated SAR	-	0.308	-	-	0.330	-	0.02	-
		Full SAR	-	0.278	-	-	0.298	-		
	Left Tilt	Estimated SAR	-	0.115	-	-	0.123	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.106	-	-	0.114	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.118	-	-	0.126	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	-	0.289	-	-	0.310	-	0.04	-
		Full SAR	-	0.268	-	-	0.287	-		
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.0	23.0	23.1	0.4	0.4	0.3	dB	
	Time-averaged Power [dBm]		23.0	23.0	23.1	1.10	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.0	23.0	23.1	0.4	0.4	0.3	dB	
	Time-averaged Power [dBm]		23.0	23.0	23.1	1.10	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.0	23.1	23.0	0.4	0.3	0.4	dB	
	Time-averaged Power [dBm]		23.0	23.1	23.0	1.10	1.07	1.10	Lin	
	Left Cheek	Estimated SAR	-	0.259	-	-	0.278	-	-	-
		Full SAR	-		-	-	-	-		
	Left Tilt	Estimated SAR	-	0.093	-	-	0.099	-	-	-
		Full SAR	-		-	-	-	-		
	Right Cheek	Estimated SAR	-	0.088	-	-	0.095	-	-	-
		Full SAR	-		-	-	-	-		
Right Tilt	Estimated SAR	-	0.093	-	-	0.100	-	-	-	
	Full SAR	-	-	-	-	-	-			
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.0	23.0	23.1	0.4	0.4	0.3	dB	
	Time-averaged Power [dBm]		23.0	23.0	23.1	1.10	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	22.0	22.1	0.4	0.4	0.3	dB	
	Time-averaged Power [dBm]		22.0	22.0	22.1	1.10	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

1900MHz Band Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz	Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz		
GSM	Tuning Target + Tolerance [dBm]		30.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		29.7	29.6	29.5	0.7	0.8	0.9	dB	
	Time-averaged power [dBm]		20.7	20.6	20.5	1.17	1.20	1.23	Lin	
			No testing required for this slot configuration							
2-slot GPRS	Tuning Target + Tolerance [dBm]		27.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		27.0	26.9	26.8	0.4	0.5	0.6	dB	
	Time-averaged power [dBm]		21.0	20.9	20.8	1.10	1.12	1.15	Lin	
	Left Cheek	Estimated SAR	0.197	0.194	0.184	0.216	0.218	0.211	0.01	7
		Full SAR	0.192	-	-	0.211	-	-		
	Left Tilt	Estimated SAR	-	0.089	-	-	0.099	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.107	-	-	0.120	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.097	-	-	0.109	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	0.161	0.160	0.180	0.177	0.180	0.207	0.00	-
Full SAR		-	-	0.180	-	-	0.207			
3-slot GPRS	Tuning Target + Tolerance [dBm]		25.6			Scaling factor*				
	Conducted Slot Average Power [dBm]		24.9	24.9	24.9	0.7	0.7	0.7	dB	
	Time-averaged power [dBm]		20.6	20.6	20.6	1.17	1.17	1.17	Lin	
			No testing required for this slot configuration							
4-slot GPRS	Tuning Target + Tolerance [dBm]		24.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		23.8	23.8	23.7	0.6	0.6	0.7	dB	
	Time-averaged power [dBm]		20.8	20.8	20.7	1.15	1.15	1.17	Lin	
			No testing required for this slot configuration							
1-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		26.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		25.9	25.6	25.6	0.5	0.8	0.8	dB	
	Time-averaged power [dBm]		16.9	16.6	16.6	1.12	1.20	1.20	Lin	
			No testing required for this slot configuration							

(Table continues)

(Table continues)

2-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		23.0	22.8	22.8	0.4	0.6	0.6	dB	
	Time-averaged power [dBm]		17.0	16.8	16.8	1.10	1.15	1.15	Lin	
	Left Cheek	Estimated SAR	0.158	-	-	0.173	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	-	-	-	-	-	-	-	
	Full SAR	-	-	-	-	-	-			
3-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		21.6			Scaling factor*				
	Conducted Slot Average Power [dBm]		21.0	20.9	20.9	0.6	0.7	0.7	dB	
	Time-averaged power [dBm]		16.7	16.6	16.6	1.15	1.17	1.17	Lin	
			No testing required for this slot configuration							
4-slot 8PSK EGPRS	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		19.8	19.8	19.6	0.6	0.6	0.8	dB	
	Time-averaged power [dBm]		16.8	16.8	16.6	1.15	1.15	1.20	Lin	
			No testing required for this slot configuration							
Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz	Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		23.6	23.6	23.4	0.3	0.3	0.5	dB	
	Time-averaged power [dBm]		23.6	23.6	23.4	1.07	1.07	1.12	Lin	
	Left Cheek	Estimated SAR	0.407	0.385	0.366	0.436	0.413	0.411	0.01	-
		Full SAR	0.400	-	-	0.429	-	-		
	Left Tilt	Estimated SAR	-	0.108	-	-	0.116	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.189	-	-	0.203	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.086	-	-	0.092	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	0.339	0.287	0.296	0.363	0.308	0.332	0.01	-
		Full SAR	0.325	-	-	0.348	-	-		

WCDMA1900MHz Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz	Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		23.3	23.3	23.1	0.6	0.6	0.8	dB	
	Time-averaged power [dBm]		23.3	23.3	23.1	1.15	1.15	1.20	Lin	
	Left Cheek	Estimated SAR	0.607	0.600	0.602	0.697	0.689	0.724	0.04	8
		Full SAR	0.568	-	-	0.652	-	-		
	Left Tilt	Estimated SAR	-	0.157	-	-	0.180	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.273	-	-	0.313	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.192	-	-	0.220	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	0.463	0.474	0.439	0.532	0.544	0.528	0.04	-
		Full SAR	-	0.436	-	-	0.501	-		

LTE1900 (Band 2) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.2	23.2	23.1	0.2	0.2	0.3	dB	
	Time-averaged Power [dBm]		23.2	23.2	23.1	1.05	1.05	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.1	23.2	23.1	0.3	0.2	0.3	dB	
	Time-averaged Power [dBm]		23.1	23.2	23.1	1.07	1.05	1.07	Lin	
	Left Cheek	Estimated SAR	-	0.302	-	-	0.316	-	0.01	-
		Full SAR	-	0.292	-	-	0.306	-		
	Left Tilt	Estimated SAR	-	0.127	-	-	0.133	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.200	-	-	0.209	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.153	-	-	0.160	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	-	0.284	-	-	0.297	-	0.01	-
Full SAR		-	0.277	-	-	0.290	-			
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.1	23.1	23.2	0.3	0.3	0.2	dB	
	Time-averaged Power [dBm]		23.1	23.1	23.2	1.07	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.2	23.2	23.1	0.2	0.2	0.3	dB	
	Time-averaged Power [dBm]		23.2	23.2	23.1	1.05	1.05	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.1	23.2	23.1	0.3	0.2	0.3	dB	
	Time-averaged Power [dBm]		23.1	23.2	23.1	1.07	1.05	1.07	Lin	
	Left Cheek	Estimated SAR	-	0.131	-	-	0.137	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.080	-	-	0.083	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.192	-	-	0.201	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.081	-	-	0.085	-	-	-
Full SAR		-	-	-	-	-	-			
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.1	23.1	23.2	0.3	0.3	0.2	dB	
	Time-averaged Power [dBm]		23.1	23.1	23.2	1.07	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.2	22.2	22.1	0.2	0.2	0.3	dB	
	Time-averaged Power [dBm]		22.2	22.2	22.1	1.05	1.05	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE1900 (Band 2) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.0	23.0	22.9	0.4	0.4	0.5	dB	
	Time-averaged Power [dBm]		23.0	23.0	22.9	1.10	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	23.0	22.9	0.5	0.4	0.5	dB	
	Time-averaged Power [dBm]		22.9	23.0	22.9	1.12	1.10	1.12	Lin	
	Left Cheek	Estimated SAR	-	0.406	-	-	0.445	-	0.02	9
		Full SAR	-	0.386	-	-	0.423	-		
	Left Tilt	Estimated SAR	-	0.143	-	-	0.157	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.203	-	-	0.223	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.180	-	-	0.197	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	-	0.391	-	-	0.429	-	0.02	-
Full SAR		-	0.374	-	-	0.410	-			
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	22.9	23.0	0.5	0.5	0.4	dB	
	Time-averaged Power [dBm]		22.9	22.9	23.0	1.12	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		23.0	23.0	22.9	0.4	0.4	0.5	dB	
	Time-averaged Power [dBm]		23.0	23.0	22.9	1.10	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	23.0	22.9	0.5	0.4	0.5	dB	
	Time-averaged Power [dBm]		22.9	23.0	22.9	1.12	1.10	1.12	Lin	
	Left Cheek	Estimated SAR	-	0.256	-	-	0.281	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.068	-	-	0.074	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.167	-	-	0.183	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.142	-	-	0.156	-	-	-
Full SAR		-	-	-	-	-	-			
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*				
	Conducted Power [dBm]		22.9	22.9	23.0	0.5	0.5	0.4	dB	
	Time-averaged Power [dBm]		22.9	22.9	23.0	1.12	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Power [dBm]		22.0	22.0	21.9	0.4	0.4	0.5	dB	
	Time-averaged Power [dBm]		22.0	22.0	21.9	1.10	1.10	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE2500 (Band 7) Head SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		21.0	21.1	21.1	0.4	0.3	0.3	dB	
	Time-averaged Power [dBm]		21.0	21.1	21.1	1.10	1.07	1.07	Lin	
	Left Cheek	Estimated SAR	-	0.500	-	-	0.536	-	0.10	-
		Full SAR	-	0.404	-	-	0.433	-		
	Left Tilt	Estimated SAR	-	0.411	-	-	0.440	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	1.06	1.09	-	1.14	1.17	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.301	-	-	0.323	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Right Cheek	Estimated SAR	-	1.02	0.927	-	1.09	0.993	-	-
Full SAR		-	-	-	-	-	-			
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		21.1	21.1	21.0	0.3	0.3	0.4	dB	
	Time-averaged Power [dBm]		21.1	21.1	21.0	1.07	1.07	1.10	Lin	
	Left Cheek	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	1.27	-	-	1.36	-	-	0.06	10
		Full SAR	1.21	-	-	1.30	-	-		
	Right Tilt	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Right Cheek	Estimated SAR	1.04	-	-	1.11	-	-	0.05	-
		Full SAR	1.09	-	-	1.17	-	-		
	Repeated SAR Right Cheek	Estimated SAR	1.18	-	-	1.27	-	-	0.01	-
Full SAR		1.19	-	-	1.28	-	-			
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		21.0	21.1	21.0	0.4	0.3	0.4	dB	
	Time-averaged Power [dBm]		21.0	21.1	21.0	1.10	1.07	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		21.0	21.1	21.1	0.4	0.3	0.3	dB	
	Time-averaged Power [dBm]		21.0	21.1	21.1	1.10	1.07	1.07	Lin	
	Left Cheek	Estimated SAR	-	0.410	-	-	0.439	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left Tilt	Estimated SAR	-	0.325	-	-	0.348	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right Cheek	Estimated SAR	-	0.933	0.939	-	1.00	1.01	0.02	-
		Full SAR	-	-	-	-	-	-	-	-
Right Tilt	Estimated SAR	-	0.228	-	-	0.244	-	-	-	
	Full SAR	-	-	-	-	-	-	-	-	
20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		21.1	21.1	21.0	0.3	0.3	0.4	dB	
	Time-averaged Power [dBm]		21.1	21.1	21.0	1.07	1.07	1.10	Lin	
	Left Cheek	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left Tilt	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right Cheek	Estimated SAR	0.920	-	-	0.986	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
Right Tilt	Estimated SAR	-	-	-	-	-	-	-	-	
	Full SAR	-	-	-	-	-	-	-	-	
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		21.0	21.1	21.0	0.4	0.3	0.4	dB	
	Time-averaged Power [dBm]		21.0	21.1	21.0	1.10	1.07	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.1	20.1	0.4	0.3	0.3	dB	
	Time-averaged Power [dBm]		20.0	20.1	20.1	1.10	1.07	1.07	Lin	
	Left Cheek	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left Tilt	Estimated SAR	-	-	-	-	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right Cheek	Estimated SAR	-	0.963	-	-	1.03	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
Right Tilt	Estimated SAR	-	-	-	-	-	-	-	-	
	Full SAR	-	-	-	-	-	-	-	-	

LTE2500 (Band 7) Head SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.7	20.8	20.8	0.7	0.6	0.6	dB	
	Time-averaged Power [dBm]		20.7	20.8	20.8	1.17	1.15	1.15	Lin	
	Left Cheek	Estimated SAR	-	0.045	-	-	0.051	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.040	-	-	0.046	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.095	-	-	0.109	-	0.01	-
		Full SAR	-	0.084	-	-	0.097	-		
	Right Tilt	Estimated SAR	-	0.016	-	-	0.019	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Right Cheek	Estimated SAR	-	0.086	-	-	0.099	-	0.00	-
		Full SAR	-	0.083	-	-	0.095	-		
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.8	20.8	20.7	0.6	0.6	0.7	dB	
	Time-averaged Power [dBm]		20.8	20.8	20.7	1.15	1.15	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.7	20.8	20.7	0.7	0.6	0.7	dB	
	Time-averaged Power [dBm]		20.7	20.8	20.7	1.17	1.15	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.7	20.8	20.8	0.7	0.6	0.6	dB	
	Time-averaged Power [dBm]		20.7	20.8	20.8	1.17	1.15	1.15	Lin	
	Left Cheek	Estimated SAR	-	0.037	-	-	0.042	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left Tilt	Estimated SAR	-	0.038	-	-	0.044	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.072	-	-	0.083	-	-	-
		Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.017	-	-	0.020	-	-	-	
	Full SAR	-	-	-	-	-	-			
20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.8	20.8	20.7	0.6	0.6	0.7	dB	
	Time-averaged Power [dBm]		20.8	20.8	20.7	1.15	1.15	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]		21.4			Scaling factor*				
	Conducted Power [dBm]		20.7	20.8	20.7	0.7	0.6	0.7	dB	
	Time-averaged Power [dBm]		20.7	20.8	20.7	1.17	1.15	1.17	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		19.7	19.8	19.8	0.7	0.6	0.6	dB	
	Time-averaged Power [dBm]		19.7	19.8	19.8	1.17	1.15	1.15	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

2450MHz Head SAR results

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 2 2417.0 MHz	Ch 6 2437.0 MHz	Ch 10 2457.0 MHz	Ch 2 2417.0 MHz	Ch 6 2437.0 MHz	Ch 10 2457.0 MHz		
WLAN b-mode BPSK 1Mbps	Tuning Target + Tolerance [dBm]		18.0			Scaling factor*				
	Conducted Power [dBm]		16.6	16.9	16.7	1.4	1.1	1.3	dB	
	Time-averaged power [dBm]		16.6	16.9	16.7	1.38	1.29	1.35	Lin	
	Left Cheek	Estimated SAR	0.376	0.399	0.400	0.519	0.514	0.540	0.04	-
		Full SAR	-	-	0.443	-	-	0.598		
	Left Tilt	Estimated SAR	-	0.263	-	-	0.339	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Cheek	Estimated SAR	-	0.230	-	-	0.296	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right Tilt	Estimated SAR	-	0.237	-	-	0.305	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left Cheek	Estimated SAR	0.469	0.439	0.462	0.647	0.566	0.623	0.01	11
		Full SAR	0.460	-	-	0.635	-	-		

Simultaneous transmissions: Combined head SAR results – Individual band Max results

Test configuration	Max. Reported* 1g SAR results				
	WLAN	Antenna 1			
		LTE700 (Band 17)	WCDMA850 (Band 5)	LTE850 (Band 5)	WCDMA1700/2100 (Band 4)
Head: Left, Cheek	0.635	0.084	0.191	0.220	0.260
Head: Left, Tilt	0.339	0.046	0.149	0.194	0.215
Head: Right, Cheek	0.296	0.112	0.258	0.274	0.532
Head: Right, Tilt	0.305	0.061	0.157	0.183	0.254
Test configuration	Max. Reported* 1g SAR results				
	LTE1700/2100 (Band 4)	Antenna 1			
		2-slot GPRS1900	WCDMA1900 (Band 2)	LTE1900 (Band 2)	LTE2500 (Band 7)
Head: Left, Cheek	0.423	0.211	0.429	0.306	0.433
Head: Left, Tilt	0.236	0.099	0.116	0.133	0.440
Head: Right, Cheek	0.319	0.120	0.203	0.209	1.30
Head: Right, Tilt	0.261	0.109	0.092	0.160	0.323

Test configuration	Max. Reported* 1g SAR results					
	WLAN	Antenna 2				
		LTE700 (Band 17)	GSM850	WCDMA850 (band 5)	LTE850 (Band 5)	WCDMA1700/2100 (Band 4)
Head: Left, Cheek	0.635	0.294	0.420	0.448	0.388	0.237
Head: Left, Tilt	0.339	0.201	0.247	0.294	0.279	0.121
Head: Right, Cheek	0.296	0.225	0.276	0.345	0.351	0.179
Head: Right, Tilt	0.305	0.144	0.217	0.274	0.263	0.112
Test configuration	Max. Reported* 1g SAR results					
	Antenna 2					
	LTE1700/2100 (Band 4)	WCDMA1900 (Band 2)	LTE 1900 (Band 2)	LTE2500 (Band 7)		
Head: Left, Cheek	0.298	0.652	0.423	0.051		
Head: Left, Tilt	0.123	0.180	0.157	0.046		
Head: Right, Cheek	0.114	0.313	0.223	0.097		
Head: Right, Tilt	0.126	0.220	0.197	0.020		

**Simultaneous transmissions: Combined head SAR results –
Max + Max combined results**

Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/2100 (Band 4) + WLAN	LTE1700/2100 (Band 4) + WLAN
Head: Left, Cheek	0.719	0.826	0.855	0.895	1.06
Head: Left, Tilt	0.385	0.488	0.533	0.554	0.575
Head: Right, Cheek	0.408	0.554	0.570	0.828	0.615
Head: Right, Tilt	0.366	0.462	0.488	0.559	0.566
Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Head: Left, Cheek	0.846	1.06	0.941	1.07	
Head: Left, Tilt	0.438	0.455	0.472	0.779	
Head: Right, Cheek	0.416	0.499	0.505	1.60	
Head: Right, Tilt	0.414	0.397	0.465	0.628	

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN
Head: Left, Cheek	0.929	1.06	1.08	1.02	0.872
Head: Left, Tilt	0.540	0.586	0.633	0.618	0.460
Head: Right, Cheek	0.521	0.572	0.641	0.647	0.475
Head: Right, Tilt	0.449	0.522	0.579	0.568	0.417
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Head: Left, Cheek	0.933	1.29	1.06	0.686	
Head: Left, Tilt	0.462	0.519	0.496	0.385	
Head: Right, Cheek	0.410	0.609	0.519	0.393	
Head: Right, Tilt	0.431	0.525	0.502	0.325	

Note: Simultaneous Transmission Procedures as described in KDB648474 are not required for this product.

7.1.1 Combined Head SAR data

The Combined SAR data given in the tables below has been voluntarily calculated and should be ignored for FCC certification.

The following table gives a more accurate assessment of the SAR values for simultaneous transmission. These values have been calculated using the SPEAG Combined Multiband algorithm, which is based on area scans. It a) converts the 2D area scans into 3D volume scans by assuming frequency-dependent decay characteristics for the E-field, b) sums the SAR values for WLAN2450 and the cellular bands point-by-point and c) calculates the combined average SAR values. It is these values that appear in the Summary table in Section 1.2.1.

**Simultaneous transmissions: Combined head SAR results –
SPEAG Combined Multiband algorithm results**

Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN	LTE1700/ 2100 (Band 4) + WLAN
Head: Left, Cheek	-	-	-	0.666	0.667
Head: Left, Tilt	-	-	-	-	-
Head: Right, Cheek	-	-	-	-	-
Head: Right, Tilt	-	-	-	-	-
Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Head: Left, Cheek	0.657	-	-	-	
Head: Left, Tilt	-	-	-	-	
Head: Right, Cheek	-	-	-	1.38	
Head: Right, Tilt	-	-	-	-	

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN
Head: Left, Cheek	0.685	0.686	0.687	0.695	-
Head: Left, Tilt	-	-	-	-	-
Head: Right, Cheek	-	-	-	-	-
Head: Right, Tilt	-	-	-	-	-
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Head: Left, Cheek	-	0.705	0.666	-	
Head: Left, Tilt	-	-	-	-	
Head: Right, Cheek	-	-	-	-	
Head: Right, Tilt	-	-	-	-	

7.2 The measured Body SAR values for the test device are tabulated below:

LTE700 (Band 17) Body SAR results / Antenna 1

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Power [dBm]			23.7	23.7	23.7	0.2	0.2	0.2	dB	
	Time-averaged power [dBm]			23.7	23.7	23.7	1.05	1.05	1.05	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.184	-	-	0.193	-	0.00	-
			Full SAR	-	0.182	-	-	0.191	-		
		Headset WH-108	Estimated SAR	-	0.145	-	-	0.152	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.156	-	-	0.163	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.128	-	-	0.134	-	-	-
			Full SAR	-	-	-	-	-	-		
	CC-3086 Back facing phantom Without headset		Estimated SAR	-	0.201	-	-	0.210	-	0.00	-
			Full SAR	-	0.200	-	-	0.209	-		
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Power [dBm]			23.6	23.7	23.7	0.3	0.2	0.2	dB	
	Time-averaged power [dBm]			23.6	23.7	23.7	1.07	1.05	1.05	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Power [dBm]			23.7	23.6	23.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]			23.7	23.6	23.7	1.05	1.07	1.05	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

10MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.7	23.7	23.7	0.2	0.2	0.2	dB		
	Time-averaged power [dBm]			23.7	23.7	23.7	1.05	1.05	1.05	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.141	-	-	0.148	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.112	-	-	0.117	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.121	-	-	0.127	-	-	-	-
Full SAR			-	-	-	-	-	-	-	-	-	
Headset WH-108		Estimated SAR	-	0.100	-	-	0.105	-	-	-	-	
		Full SAR	-	-	-	-	-	-	-	-	-	
10MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.6	23.7	23.7	0.3	0.2	0.2	dB		
	Time-averaged power [dBm]			23.6	23.7	23.7	1.07	1.05	1.05	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.7	23.6	23.7	0.2	0.3	0.2	dB		
	Time-averaged power [dBm]			23.7	23.6	23.7	1.05	1.07	1.05	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			22.9			Scaling factor*					
	Conducted Power [dBm]			22.7	22.7	22.7	0.2	0.2	0.2	dB		
	Time-averaged power [dBm]			22.7	22.7	22.7	1.05	1.05	1.05	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

LTE700 (Band 17) Body SAR results / Antenna 2

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz			
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.5	23.5	23.5	0.4	0.4	0.4	dB		
	Time-averaged power [dBm]			23.5	23.5	23.5	1.10	1.10	1.10	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.499	-	-	0.547	-	0.00	12	
			Full SAR	-	0.500	-	-	0.548	-			
		Headset WH-108	Estimated SAR	-	0.435	-	-	0.477	-	-	-	
			Full SAR	-	-	-	-	-	-			
	Display facing phantom	Without headset	Estimated SAR	-	0.435	-	-	0.477	-	-	-	
			Full SAR	-	-	-	-	-	-			
		Headset WH-108	Estimated SAR	-	0.374	-	-	0.410	-	-	-	
			Full SAR	-	-	-	-	-	-			
	CC-3086 Back facing phantom Without headset			Estimated SAR	-	0.441	-	-	0.484	-	0.00	-
				Full SAR	-	0.439	-	-	0.481	-		
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.4	23.5	23.5	0.5	0.4	0.4	dB		
	Time-averaged power [dBm]			23.4	23.5	23.5	1.12	1.10	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.5	23.4	23.5	0.4	0.5	0.4	dB		
	Time-averaged power [dBm]			23.5	23.4	23.5	1.10	1.12	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

(Table continues)

(Table continues)

10MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.5	23.5	23.5	0.4	0.4	0.4	dB		
	Time-averaged power [dBm]			23.5	23.5	23.5	1.10	1.10	1.10	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.389	-	-	0.427	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.341	-	-	0.374	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.339	-	-	0.372	-	-	-	-
Full SAR			-	-	-	-	-	-	-	-	-	
Headset WH-108		Estimated SAR	-	0.296	-	-	0.325	-	-	-	-	
		Full SAR	-	-	-	-	-	-	-	-	-	
10MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.4	23.5	23.5	0.5	0.4	0.4	dB		
	Time-averaged power [dBm]			23.4	23.5	23.5	1.12	1.10	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.5	23.4	23.5	0.4	0.5	0.4	dB		
	Time-averaged power [dBm]			23.5	23.4	23.5	1.10	1.12	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			22.9			Scaling factor*					
	Conducted Power [dBm]			22.5	22.5	22.5	0.4	0.4	0.4	dB		
	Time-averaged power [dBm]			22.5	22.5	22.5	1.10	1.10	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

850MHz Band Body SAR results / Antenna 2

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz	Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz		
1-slot GPRS	Tuning Target + Tolerance [dBm]			33.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			32.8	32.9	32.9	0.6	0.5	0.5	dB	
	Time-averaged power [dBm]			23.8	23.9	23.9	1.15	1.12	1.12	Lin	
	Back facing phantom	Without headset	Estimated SAR	0.357	0.360	0.337	0.410	0.404	0.378	0.00	13
		Headset WH-108	Full SAR	0.358	0.364	-	0.411	0.408	-		
		Without headset	Estimated SAR	-	0.319	-	-	0.358	-	-	-
		Headset WH-108	Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.315	-	-	0.353	-	-	-
		Headset WH-108	Full SAR	-	-	-	-	-	-		
		Without headset	Estimated SAR	-	0.250	-	-	0.281	-	-	-
		Headset WH-108	Full SAR	-	-	-	-	-	-		
	CC-3086 Back facing phantom Without headset		Estimated SAR	0.313	0.310	0.291	0.359	0.348	0.327	0.00	-
			Full SAR	0.311	-	-	0.357	-	-		
2-slot GPRS	Tuning Target + Tolerance [dBm]			30.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			29.6	29.5	29.6	0.8	0.9	0.8	dB	
	Time-averaged power [dBm]			23.6	23.5	23.6	1.20	1.23	1.20	Lin	
				No testing required for this slot configuration.							
3-slot GPRS	Tuning Target + Tolerance [dBm]			28.6			Scaling factor*				
	Conducted Slot Average Power [dBm]			28.0	27.9	27.8	0.6	0.7	0.8	dB	
	Time-averaged power [dBm]			23.7	23.6	23.5	1.15	1.17	1.20	Lin	
				No testing required for this slot configuration.							
4-slot GPRS	Tuning Target + Tolerance [dBm]			27.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			26.7	26.7	26.6	0.7	0.7	0.8	dB	
	Time-averaged power [dBm]			23.7	23.7	23.6	1.17	1.17	1.20	Lin	
				No testing required for this slot configuration.							

(Table continues)

(Table continues)

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 4132	Ch 4175	Ch 4233	Ch 4132	Ch 4175	Ch 4233		
				826.4 MHz	835.0 MHz	846.6 MHz	826.4 MHz	835.0 MHz	846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]			24.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			24.1	24.1	24.1	0.3	0.3	0.3	dB	
	Time-averaged power [dBm]			24.1	24.1	24.1	1.07	1.07	1.07	Lin	
	Back facing phantom	Without headset	Estimated SAR	0.445	0.454	0.425	0.477	0.486	0.455	0.00	14
			Full SAR	-	0.455	-	-	0.488	-		
		Headset WH-108	Estimated SAR	-	0.416	-	-	0.446	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.408	-	-	0.437	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.339	-	-	0.363	-	-	-
			Full SAR	-	-	-	-	-	-		
	CC-3086 Back facing phantom Without headset		Estimated SAR	0.390	0.390	0.358	0.418	0.418	0.384	0.00	-
			Full SAR	-	0.388	-	-	0.416	-		

WCDMA850 (Band 5) Body SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
			Ch 4132	Ch 4175	Ch 4233	Ch 4132	Ch 4175	Ch 4233			
			826.4 MHz	835.0 MHz	846.6 MHz	826.4 MHz	835.0 MHz	846.6 MHz			
WCDMA	Tuning Target + Tolerance [dBm]		24.4			Scaling factor*					
	Conducted Slot Average Power [dBm]		24.3	24.3	24.3	0.1	0.1	0.1	dB		
	Time-averaged power [dBm]		24.3	24.3	24.3	1.02	1.02	1.02	Lin		
	Back facing phantom	Without headset	Estimated SAR	0.248	0.244	0.237	0.254	0.250	0.243	0.00	-
			Full SAR	0.248	-	-	0.254	-	-		
		Headset WH-108	Estimated SAR	-	0.242	-	-	0.248	-	-	-
			Full SAR	-	-	-	-	-	-	-	
	Display facing phantom	Without headset	Estimated SAR	-	0.224	-	-	0.229	-	-	-
			Full SAR	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.191	-	-	0.195	-	-	-
			Full SAR	-	-	-	-	-	-	-	
	CC-3086 Back facing phantom Without headset		Estimated SAR	0.247	0.239	0.224	0.253	0.245	0.229	0.00	-
			Full SAR	0.251	-	-	0.257	-	-		

LTE850 (Band 5) Body SAR results / Antenna 1

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Power [dBm]			23.7	23.7	23.6	0.2	0.2	0.3	dB	
	Time-averaged power [dBm]			23.7	23.7	23.6	1.05	1.05	1.07	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.335	-	-	0.351	-	0.00	-
			Full SAR	-	0.339	-	-	0.355	-		
		Headset WH-108	Estimated SAR	-	0.315	-	-	0.330	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.295	-	-	0.309	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.257	-	-	0.269	-	-	-
			Full SAR	-	-	-	-	-	-		
CC-3086 Back facing phantom Without headset		Estimated SAR	-	0.296	-	-	0.310	-	0.00	-	
		Full SAR	-	0.297	-	-	0.311	-			
10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Power [dBm]			23.6	23.7	23.7	0.3	0.2	0.2	dB	
	Time-averaged power [dBm]			23.6	23.7	23.7	1.07	1.05	1.05	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Power [dBm]			23.7	23.6	23.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]			23.7	23.6	23.7	1.05	1.07	1.05	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Power [dBm]			23.7	23.7	23.6	0.2	0.2	0.3	dB	
	Time-averaged power [dBm]			23.7	23.7	23.6	1.05	1.05	1.07	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.267	-	-	0.280	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.250	-	-	0.262	-	-	-
			Full SAR	-	-	-	-	-	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.240	-	-	0.251	-	-	-
			Full SAR	-	-	-	-	-	-		
		Headset WH-108	Estimated SAR	-	0.212	-	-	0.222	-	-	-
Full SAR			-	-	-	-	-	-			

(Table continues)

(Table continues)

10MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*			
	Conducted Power [dBm]		23.6	23.7	23.7	0.3	0.2	0.2	dB
	Time-averaged power [dBm]		23.6	23.7	23.7	1.07	1.05	1.05	Lin
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02						
10MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*			
	Conducted Power [dBm]		23.7	23.6	23.7	0.2	0.3	0.2	dB
	Time-averaged power [dBm]		23.7	23.6	23.7	1.05	1.07	1.05	Lin
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02						
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*			
	Conducted Power [dBm]		22.7	22.7	22.6	0.2	0.2	0.3	dB
	Time-averaged power [dBm]		22.7	22.7	22.6	1.05	1.05	1.07	Lin
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02						

LTE850 (Band 5) Body SAR results / Antenna 2

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20450	Ch 20525	Ch 20600	Ch 20450	Ch 20525	Ch 20600		
				829.0 MHz	836.5 MHz	844.0 MHz	829.0 MHz	836.5 MHz	844.0 MHz		
10MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*					
	Conducted Power [dBm]		23.5	23.5	23.4	0.4	0.4	0.5	dB		
	Time-averaged power [dBm]		23.5	23.5	23.4	1.10	1.10	1.12	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.387	-	-	0.424	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.362	-	-	0.397	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.396	-	-	0.434	-	0.00	15
			Full SAR	-	0.395	-	-	0.433	-	-	-
		Headset WH-108	Estimated SAR	-	0.330	-	-	0.362	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	CC-3086 Display facing phantom Without headset		Estimated SAR	-	0.381	-	-	0.418	-	0.00	-
Full SAR			-	0.381	-	-	0.418	-	-	-	

(Table continues)

(Table continues)

10MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.4	23.5	23.5	0.5	0.4	0.4	dB		
	Time-averaged power [dBm]			23.4	23.5	23.5	1.12	1.10	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.5	23.4	23.5	0.4	0.5	0.4	dB		
	Time-averaged power [dBm]			23.5	23.4	23.5	1.10	1.12	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.5	23.5	23.4	0.4	0.4	0.5	dB		
	Time-averaged power [dBm]			23.5	23.5	23.4	1.10	1.10	1.12	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.304	-	-	0.333	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.280	-	-	0.307	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.306	-	-	0.336	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.206	-	-	0.226	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
10MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.4	23.5	23.5	0.5	0.4	0.4	dB		
	Time-averaged power [dBm]			23.4	23.5	23.5	1.12	1.10	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Power [dBm]			23.5	23.4	23.5	0.4	0.5	0.4	dB		
	Time-averaged power [dBm]			23.5	23.4	23.5	1.10	1.12	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			22.9			Scaling factor*					
	Conducted Power [dBm]			22.5	22.5	22.4	0.4	0.4	0.5	dB		
	Time-averaged power [dBm]			22.5	22.5	22.4	1.10	1.10	1.12	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

WCDMA1700/2100 Body SAR results / Antenna 1

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Power [dBm]			23.3	23.5	23.6	0.6	0.4	0.3	dB	
	Time-averaged power [dBm]			23.3	23.5	23.6	1.15	1.10	1.07	Lin	
	Back facing phantom	Without headset	Estimated SAR	0.375	0.426	0.464	0.431	0.467	0.497	0.03	16
		Headset WH-108	Estimated SAR	-	0.398	-	-	0.436	-		
	Display facing phantom	Without headset	Estimated SAR	-	0.350	-	-	0.384	-	-	-
		Headset WH-108	Estimated SAR	-	0.349	-	-	0.383	-		
	CC-3086 Back facing phantom Without headset		Estimated SAR	0.354	0.413	0.447	0.406	0.453	0.479	0.01	-
			Full SAR	-	-	0.458	-	-	0.491		

WCDMA1700/2100 Body SAR results / Antenna 2

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*				
	Conducted Power [dBm]			23.0	23.2	23.3	0.9	0.7	0.6	dB	
	Time-averaged power [dBm]			23.0	23.2	23.3	1.23	1.17	1.15	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.172	-	-	0.202	-	-	-
		Headset WH-108	Estimated SAR	-	0.143	-	-	0.168	-		
	Display facing phantom	Without headset	Estimated SAR	0.142	0.180	0.232	0.175	0.211	0.266	0.01	-
		Headset WH-108	Estimated SAR	-	0.179	-	-	0.210	-		
	CC-3086 Display facing phantom Without headset		Estimated SAR	0.139	0.182	0.225	0.171	0.214	0.258	0.00	-
			Full SAR	-	-	0.224	-	-	0.257		

LTE1700/2100 (Band 4) Body SAR results / Antenna 1

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz			
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.2	23.2	23.3	0.2	0.2	0.1	dB		
	Time-averaged power [dBm]			23.2	23.2	23.3	1.05	1.05	1.02	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.2	23.3	23.2	0.2	0.1	0.2	dB		
	Time-averaged power [dBm]			23.2	23.3	23.2	1.05	1.02	1.05	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.414	-	-	0.424	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.412	-	-	0.422	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.367	-	-	0.376	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.363	-	-	0.371	-	-	-	-
Full SAR			-	-	-	-	-	-	-	-	-	
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.2	23.2	23.3	0.2	0.2	0.1	dB		
	Time-averaged power [dBm]			23.2	23.2	23.3	1.05	1.05	1.02	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.2	23.2	23.3	0.2	0.2	0.1	dB		
	Time-averaged power [dBm]			23.2	23.2	23.3	1.05	1.05	1.02	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.2	23.3	23.2	0.2	0.1	0.2	dB		
	Time-averaged power [dBm]			23.2	23.3	23.2	1.05	1.02	1.05	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.335	-	-	0.343	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.336	-	-	0.344	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.435	-	-	0.445	-	0.02	-	
			Full SAR	-	0.414	-	-	0.424	-	-	-	
		Headset WH-108	Estimated SAR	-	0.430	-	-	0.440	-	-	-	
Full SAR			-	-	-	-	-	-	-	-	-	
CC-3086 Display facing phantom Without headset		Estimated SAR	-	0.461	-	-	0.472	-	0.02	17		
		Full SAR	-	0.476	-	-	0.487	-				
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.2	23.2	23.3	0.2	0.2	0.1	dB		
	Time-averaged power [dBm]			23.2	23.2	23.3	1.05	1.05	1.02	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*					
	Conducted Power [dBm]			22.2	22.2	22.3	0.2	0.2	0.1	dB		
	Time-averaged power [dBm]			22.2	22.2	22.3	1.05	1.05	1.02	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

LTE1700/2100 (Band 4) Body SAR results / Antenna 2

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz			
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.0	23.0	23.1	0.4	0.4	0.3	dB		
	Time-averaged power [dBm]			23.0	23.0	23.1	1.10	1.10	1.07	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.0	23.1	23.0	0.4	0.3	0.4	dB		
	Time-averaged power [dBm]			23.0	23.1	23.0	1.10	1.07	1.10	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.167	-	-	0.179	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.152	-	-	0.163	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.163	-	-	0.175	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.149	-	-	0.160	-	-	-	-
Full SAR			-	-	-	-	-	-	-	-	-	
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.0	23.0	23.1	0.4	0.4	0.3	dB		
	Time-averaged power [dBm]			23.0	23.0	23.1	1.10	1.10	1.07	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.0	23.0	23.1	0.4	0.4	0.3	dB		
	Time-averaged power [dBm]			23.0	23.0	23.1	1.10	1.10	1.07	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			23.0	23.1	23.0	0.4	0.3	0.4	dB	
	Time-averaged power [dBm]			23.0	23.1	23.0	1.10	1.07	1.10	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.170	-	-	0.182	-	0.01	-
			Full SAR	-	0.165	-	-	0.177	-		
		Headset WH-108	Estimated SAR	-	0.145	-	-	0.155	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.161	-	-	0.173	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.135	-	-	0.145	-	-	-
Full SAR			-	-	-	-	-	-	-	-	
CC-3086 Back facing phantom Without headset		Estimated SAR	-	0.152	-	-	0.163	-	0.00	-	
		Full SAR	-	0.151	-	-	0.162	-			
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*				
	Conducted Power [dBm]			23.0	23.0	23.1	0.4	0.4	0.3	dB	
	Time-averaged power [dBm]			23.0	23.0	23.1	1.10	1.10	1.07	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*				
	Conducted Power [dBm]			22.0	22.0	22.1	0.4	0.4	0.3	dB	
	Time-averaged power [dBm]			22.0	22.0	22.1	1.10	1.10	1.07	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

1900MHz Band Body SAR results / Antenna 1

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz	Ch 512 1850.2 MHz	Ch 661 1880.0 MHz	Ch 810 1909.8 MHz		
1-slot GPRS	Tuning Target + Tolerance [dBm]			30.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			29.7	29.6	29.5	0.7	0.8	0.9	dB	
	Time-averaged power [dBm]			20.7	20.6	20.5	1.17	1.20	1.23	Lin	
				No testing required for this slot configuration.							
2-slot GPRS	Tuning Target + Tolerance [dBm]			27.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			27.0	26.9	26.8	0.4	0.5	0.6	dB	
	Time-averaged power [dBm]			21.0	20.9	20.8	1.10	1.12	1.15	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.327	-	-	0.367	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.295	-	-	0.331	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	0.359	0.343	0.315	0.394	0.385	0.362	0.03	18
			Full SAR	0.390	-	-	0.428	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.333	-	-	0.374	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	CC-3086 Display facing phantom Without headset		Estimated SAR	0.357	0.330	0.295	0.391	0.370	0.339	0.02	-
			Full SAR	0.381	-	-	0.418	-	-	-	-
3-slot GPRS	Tuning Target + Tolerance [dBm]			25.6			Scaling factor*				
	Conducted Slot Average Power [dBm]			24.9	24.9	24.9	0.7	0.7	0.7	dB	
	Time-averaged power [dBm]			20.6	20.6	20.6	1.17	1.17	1.17	Lin	
				No testing required for this slot configuration.							
4-slot GPRS	Tuning Target + Tolerance [dBm]			24.4			Scaling factor*				
	Conducted Slot Average Power [dBm]			23.8	23.8	23.7	0.6	0.6	0.7	dB	
	Time-averaged power [dBm]			20.8	20.8	20.7	1.15	1.15	1.17	Lin	
				No testing required for this slot configuration.							

(Table continues)

(Table continues)

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 9262	Ch 9400	Ch 9538	Ch 9262	Ch 9400	Ch 9538			
				1852.4 MHz	1880.0 MHz	1907.6 MHz	1852.4 MHz	1880.0 MHz	1907.6 MHz			
WCDMA	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Slot Average Power [dBm]			23.6	23.6	23.4	0.3	0.3	0.5	dB		
	Time-averaged power [dBm]			23.6	23.6	23.4	1.07	1.07	1.12	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.555	-	-	0.595	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.534	-	-	0.572	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.590	-	-	0.632	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	0.680	0.598	0.510	0.729	0.641	0.572	0.05	19	
			Full SAR	0.726	-	-	0.778	-	-	-	-	-
	CC-3086 Display facing phantom Headset WH-108		Estimated SAR	0.655	0.575	0.477	0.702	0.616	0.535	0.06	-	
			Full SAR	0.717	-	-	0.768	-	-	-	-	-

WCDMA1900 (Band2) Body SAR results / Antenna 2

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 9262	Ch 9400	Ch 9538	Ch 9262	Ch 9400	Ch 9538			
				1852.4 MHz	1880.0 MHz	1907.6 MHz	1852.4 MHz	1880.0 MHz	1907.6 MHz			
WCDMA	Tuning Target + Tolerance [dBm]			23.9			Scaling factor*					
	Conducted Slot Average Power [dBm]			23.3	23.3	23.1	0.6	0.6	0.8	dB		
	Time-averaged power [dBm]			23.3	23.3	23.1	1.15	1.15	1.20	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.205	-	-	0.235	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.278	-	-	0.319	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	0.353	0.292	0.266	0.405	0.335	0.320	0.01	-	
			Full SAR	0.343	-	-	0.394	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.244	-	-	0.280	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	CC-3086 Display facing phantom Without headset		Estimated SAR	0.339	0.290	0.248	0.389	0.333	0.298	0.01	-	
			Full SAR	0.329	-	-	0.378	-	-	-	-	

LTE1900 (Band 2) Body SAR results / Antenna 1

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz			
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.2	23.2	23.1	0.2	0.2	0.3	dB		
	Time-averaged power [dBm]			23.2	23.2	23.1	1.05	1.05	1.07	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.1	23.2	23.1	0.3	0.2	0.3	dB		
	Time-averaged power [dBm]			23.1	23.2	23.1	1.07	1.05	1.07	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.327	-	-	0.342	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.326	-	-	0.341	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.502	-	-	0.526	-	0.03	-	
			Full SAR	-	0.535	-	-	0.560	-	-	-	
		Headset WH-108	Estimated SAR	-	0.400	-	-	0.419	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	CC-3086 Display facing phantom Without headset		Estimated SAR	-	0.512	-	-	0.536	-	0.03	20	
			Full SAR	-	0.540	-	-	0.565	-	-		
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.1	23.1	23.2	0.3	0.3	0.2	dB		
	Time-averaged power [dBm]			23.1	23.1	23.2	1.07	1.07	1.05	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.2	23.2	23.1	0.2	0.2	0.3	dB		
	Time-averaged power [dBm]			23.2	23.2	23.1	1.05	1.05	1.07	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.1	23.2	23.1	0.3	0.2	0.3	dB		
	Time-averaged power [dBm]			23.1	23.2	23.1	1.07	1.05	1.07	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.261	-	-	0.273	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.263	-	-	0.275	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.326	-	-	0.341	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
Headset WH-108		Estimated SAR	-	0.325	-	-	0.340	-	-	-	-	
		Full SAR	-	-	-	-	-	-	-	-	-	
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			23.1	23.1	23.2	0.3	0.3	0.2	dB		
	Time-averaged power [dBm]			23.1	23.1	23.2	1.07	1.07	1.05	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*					
	Conducted Power [dBm]			22.2	22.2	22.1	0.2	0.2	0.3	dB		
	Time-averaged power [dBm]			22.2	22.2	22.1	1.05	1.05	1.07	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

LTE1900 (Band 2) Body SAR results / Antenna 2

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 18700	Ch 18900	Ch 19100	Ch 18700	Ch 18900	Ch 19100		
				1860.0 MHz	1880.0 MHz	1900.0 MHz	1860.0 MHz	1880.0 MHz	1900.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*					
	Conducted Power [dBm]		23.0	23.0	22.9	0.4	0.4	0.5	dB		
	Time-averaged power [dBm]		23.0	23.0	22.9	1.10	1.10	1.12	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*					
	Conducted Power [dBm]		22.9	23.0	22.9	0.5	0.4	0.5	dB		
	Time-averaged power [dBm]		22.9	23.0	22.9	1.12	1.10	1.12	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.138	-	-	0.151	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.192	-	-	0.211	-	0.00	-
			Full SAR	-	0.195	-	-	0.214	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.182	-	-	0.200	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.173	-	-	0.190	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	CC-3086 Back facing phantom Headset WH-108		Estimated SAR	-	0.157		-	0.172	-	0.03	-
			Full SAR	-	0.124	-	-	0.136	-	-	-
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*					
	Conducted Power [dBm]		22.9	22.9	23.0	0.5	0.5	0.4	dB		
	Time-averaged power [dBm]		22.9	22.9	23.0	1.12	1.12	1.10	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]		23.4			Scaling factor*					
	Conducted Power [dBm]		23.0	23.0	22.9	0.4	0.4	0.5	dB		
	Time-averaged power [dBm]		23.0	23.0	22.9	1.10	1.10	1.12	Lin		
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			22.9	23.0	22.9	0.5	0.4	0.5	dB		
	Time-averaged power [dBm]			22.9	23.0	22.9	1.12	1.10	1.12	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.114	-	-	0.125	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.165	-	-	0.181	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.141	-	-	0.155	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.145	-	-	0.159	-	-	-	-
Full SAR			-	-	-	-	-	-	-	-	-	
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			23.4			Scaling factor*					
	Conducted Power [dBm]			22.9	22.9	23.0	0.5	0.5	0.4	dB		
	Time-averaged power [dBm]			22.9	22.9	23.0	1.12	1.12	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			22.4			Scaling factor*					
	Conducted Power [dBm]			22.0	22.0	21.9	0.4	0.4	0.5	dB		
	Time-averaged power [dBm]			22.0	22.0	21.9	1.10	1.10	1.12	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

LTE2500 (Band 7) Body SAR results / Antenna 1

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #	
				Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz			
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*					
	Conducted Power [dBm]			21.0	21.1	21.1	0.4	0.3	0.3	dB		
	Time-averaged power [dBm]			21.0	21.1	21.1	1.10	1.07	1.07	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.192	-	-	0.206	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.193	-	-	0.207	-	-	0.01	-
			Full SAR	-	0.199	-	-	0.213	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.149	-	-	0.160	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.156	-	-	0.167	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
CC-3086 Back facing phantom Headset WH-108	Estimated SAR		-	0.214	-	-	0.229	-	-	0.01	-	
	Full SAR		-	0.221	-	-	0.237	-	-	-	-	
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*					
	Conducted Power [dBm]			21.1	21.1	21.0	0.3	0.3	0.4	dB		
	Time-averaged power [dBm]			21.1	21.1	21.0	1.07	1.07	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*					
	Conducted Power [dBm]			21.0	21.1	21.0	0.4	0.3	0.4	dB		
	Time-averaged power [dBm]			21.0	21.1	21.0	1.10	1.07	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*					
	Conducted Power [dBm]			21.0	21.1	21.1	0.4	0.3	0.3	dB		
	Time-averaged power [dBm]			21.0	21.1	21.1	1.10	1.07	1.07	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.165	-	-	0.177	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.167	-	-	0.179	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.119	-	-	0.128	-	-	-	
Full SAR			-	-	-	-	-	-	-	-		
Headset WH-108		Estimated SAR	-	0.118	-	-	0.126	-	-	-	-	
		Full SAR	-	-	-	-	-	-	-	-	-	
20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*					
	Conducted Power [dBm]			21.1	21.1	21.0	0.3	0.3	0.4	dB		
	Time-averaged power [dBm]			21.1	21.1	21.0	1.07	1.07	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*					
	Conducted Power [dBm]			21.0	21.1	21.0	0.4	0.3	0.4	dB		
	Time-averaged power [dBm]			21.0	21.1	21.0	1.10	1.07	1.10	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			20.4			Scaling factor*					
	Conducted Power [dBm]			20.0	20.1	20.1	0.4	0.3	0.3	dB		
	Time-averaged power [dBm]			20.0	20.1	20.1	1.10	1.07	1.07	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

LTE2500 (Band 7) Body SAR results / Antenna 2

Mode	Test configuration		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz		
20MHz Ch BW 1RB 0% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*				
	Conducted Power [dBm]			20.7	20.8	20.8	0.7	0.6	0.6	dB	
	Time-averaged power [dBm]			20.7	20.8	20.8	1.17	1.15	1.15	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.183	-	-	0.210	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.191	-	-	0.219	-	0.01	-
			Full SAR	-	0.196	-	-	0.225	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.145	-	-	0.166	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.147	-	-	0.169	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
CC-3086 Back facing phantom Headset WH-108		Estimated SAR	-	0.207	-	-	0.238	-	0.01	21	
		Full SAR	-	0.214	-	-	0.246	-	-	-	
20MHz Ch BW 1RB 50% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*				
	Conducted Power [dBm]			20.8	20.8	20.7	0.6	0.6	0.7	dB	
	Time-averaged power [dBm]			20.8	20.8	20.7	1.15	1.15	1.17	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*				
	Conducted Power [dBm]			20.7	20.8	20.7	0.7	0.6	0.7	dB	
	Time-averaged power [dBm]			20.7	20.8	20.7	1.17	1.15	1.17	Lin	
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 0% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*					
	Conducted Power [dBm]			20.7	20.8	20.8	0.7	0.6	0.6	dB		
	Time-averaged power [dBm]			20.7	20.8	20.8	1.17	1.15	1.15	Lin		
	Back facing phantom	Without headset	Estimated SAR	-	0.154	-	-	0.177	-	-	-	
			Full SAR	-	-	-	-	-	-	-	-	
		Headset WH-108	Estimated SAR	-	0.153	-	-	0.176	-	-	-	-
			Full SAR	-	-	-	-	-	-	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.115	-	-	0.132	-	-	-	-
Full SAR			-	-	-	-	-	-	-	-	-	
Headset WH-108		Estimated SAR	-	0.116	-	-	0.133	-	-	-	-	
		Full SAR	-	-	-	-	-	-	-	-	-	
20MHz Ch BW 50%RB 50% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*					
	Conducted Power [dBm]			20.8	20.8	20.7	0.6	0.6	0.7	dB		
	Time-averaged power [dBm]			20.8	20.8	20.7	1.15	1.15	1.17	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 50%RB 100% offset	Tuning Target + Tolerance [dBm]			21.4			Scaling factor*					
	Conducted Power [dBm]			20.7	20.8	20.7	0.7	0.6	0.7	dB		
	Time-averaged power [dBm]			20.7	20.8	20.7	1.17	1.15	1.17	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]			20.4			Scaling factor*					
	Conducted Power [dBm]			19.7	19.8	19.8	0.7	0.6	0.6	dB		
	Time-averaged power [dBm]			19.7	19.8	19.8	1.17	1.15	1.15	Lin		
				No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02								

2450MHz Body SAR results

Mode	Device orientation		SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
				Ch 2 2417.0 MHz	Ch 6 2437.0 MHz	Ch 10 2457.0 MHz	Ch 2 2417.0 MHz	Ch 6 2437.0 MHz	Ch 10 2457.0 MHz		
WLAN b-mode BPSK 1 Mbps	Tuning Target + Tolerance [dBm]			18.0			Scaling factor*				
	Conducted Power [dBm]			16.6	16.9	16.7	1.4	1.1	1.3	dB	
	Time-averaged power [dBm]			16.6	16.9	16.7	1.38	1.29	1.35	Lin	
	Back facing phantom	Without headset	Estimated SAR	-	0.051	-	-	0.065	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	0.041	0.057	0.045	0.056	0.074	0.061	0.01	-
			Full SAR	-	0.046	-	-	0.059	-	-	-
	Display facing phantom	Without headset	Estimated SAR	-	0.056	-	-	0.072	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
		Headset WH-108	Estimated SAR	-	0.039	-	-	0.050	-	-	-
			Full SAR	-	-	-	-	-	-	-	-
	CC-3086 Back facing phantom Headset WH-108		Estimated SAR	0.043	0.053	0.047	0.059	0.068	0.063	0.00	22
Full SAR			-	0.053	-	-	0.069	-			

Simultaneous transmissions: Combined head SAR results – Individual band Max results

Test configuration	Max. Reported* 1g SAR results				
	WLAN	Antenna 1			
		LTE700 (Band 17)	WCDMA850 (Band 5)	LTE850 (Band 5)	WCDMA1700/2100 (Band 4)
Body: Back facing phantom, Without Headset	0.065	0.209	0.257	0.355	0.524
Body: Back facing phantom, Headset WH-108	0.069	0.152	0.248	0.330	0.436
Body: Display facing phantom, Without Headset	0.072	0.163	0.229	0.309	0.384
Body: Display facing phantom, Headset WH-108	0.050	0.134	0.195	0.269	0.383
Test configuration	Max. Reported* 1g SAR results				
	LTE1700/2100 (Band 4)	Antenna 1			
		2-slot GPRS1900	WCDMA1900 (Band 2)	LTE1900 (Band 2)	LTE2500 (Band 7)
Body: Back facing phantom, Without Headset	0.424	0.367	0.595	0.342	0.206
Body: Back facing phantom, Headset WH-108	0.422	0.331	0.572	0.341	0.237
Body: Display facing phantom, Without Headset	0.487	0.428	0.632	0.565	0.160
Body: Display facing phantom, Headset WH-108	0.440	0.374	0.778	0.419	0.167

Test configuration	Max. Reported* 1g SAR results					
	WLAN	Antenna 2				
		LTE700 (Band 17)	1-slot GPRS850	WCDMA850 (band 5)	LTE850 (Band 5)	WCDMA1700/2100 (Band 4)
Body: Back facing phantom, Without Headset	0.065	0.548	0.411	0.488	0.424	0.202
Body: Back facing phantom, Headset WH-108	0.069	0.477	0.358	0.446	0.397	0.168
Body: Display facing phantom, Without Headset	0.072	0.477	0.353	0.437	0.433	0.259
Body: Display facing phantom, Headset WH-108	0.050	0.410	0.281	0.363	0.362	0.210
Test configuration	Max. Reported* 1g SAR results					
	Antenna 2					
	LTE1700/2100 (Band 4)	WCDMA1900 (Band 2)	LTE 1900 (Band 2)	LTE2500 (Band 7)		
Body: Back facing phantom, Without Headset	0.179	0.235	0.151	0.210		
Body: Back facing phantom, Headset WH-108	0.163	0.319	0.214	0.246		
Body: Display facing phantom, Without Headset	0.175	0.394	0.200	0.166		
Body: Display facing phantom, Headset WH-108	0.160	0.280	0.190	0.169		

**Simultaneous transmissions: Combined head SAR results –
Max + Max combined results**

Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN	LTE1700/ 2100 (Band 4) + WLAN
Body: Back facing phantom, Without Headset	0.274	0.322	0.420	0.589	0.489
Body: Back facing phantom, Headset WH-108	0.221	0.317	0.399	0.505	0.491
Body: Display facing phantom, Without Headset	0.235	0.301	0.381	0.456	0.559
Body: Display facing phantom, Headset WH-108	0.184	0.245	0.319	0.433	0.490
Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Body: Back facing phantom, Without Headset	0.432	0.660	0.407	0.271	
Body: Back facing phantom, Headset WH-108	0.400	0.641	0.410	0.306	
Body: Display facing phantom, Without Headset	0.500	0.704	0.637	0.232	
Body: Display facing phantom, Headset WH-108	0.424	0.828	0.469	0.217	

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN
Body: Back facing phantom, Without Headset	0.613	0.476	0.553	0.489	0.267
Body: Back facing phantom, Headset WH-108	0.546	0.427	0.515	0.466	0.237
Body: Display facing phantom, Without Headset	0.549	0.425	0.509	0.505	0.331
Body: Display facing phantom, Headset WH-108	0.460	0.331	0.413	0.412	0.260
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Body: Back facing phantom, Without Headset	0.244	0.300	0.216	0.275	
Body: Back facing phantom, Headset WH-108	0.232	0.388	0.283	0.315	
Body: Display facing phantom, Without Headset	0.247	0.466	0.272	0.238	
Body: Display facing phantom, Headset WH-108	0.210	0.330	0.240	0.219	

Note: Simultaneous Transmission Procedures as described in KDB648474 are not required for this product.

7.2.1 Combined Body SAR data

The Combined SAR data given in the tables below has been voluntarily calculated and should be ignored for FCC certification.

The following table gives a more accurate assessment of the SAR values for simultaneous transmission. These values have been calculated using the SPEAG Combined Multiband algorithm, which is based on area scans. It a) converts the 2D area scans into 3D volume scans by assuming frequency-dependent decay characteristics for the E-field, b) sums the SAR values for WLAN2450 and the cellular bands point-by-point and c) calculates the combined average SAR values.

**Simultaneous transmissions: Combined body SAR results –
SPEAG Combined Multiband algorithm results**

Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN	LTE1700/ 2100 (Band 4) + WLAN
Body: Back facing phantom, Without Headset	-	-	-	0.505	-
Body: Back facing phantom, Headset WH-108	-	-	-	-	-
Body: Display facing phantom, Without Headset	-	-	-	-	0.481
Body: Display facing phantom, Headset WH-108	-	-	-	-	-
Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Body: Back facing phantom, Without Headset	-	-	-	-	
Body: Back facing phantom, Headset WH-108	-	-	-	-	
Body: Display facing phantom, Without Headset	0.403	-	0.546	-	
Body: Display facing phantom, Headset WH-108	-	0.739	-	-	

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN
Body: Back facing phantom, Without Headset	0.563	0.427	0.501	-	-
Body: Back facing phantom, Headset WH-108	-	-	-	-	-
Body: Display facing phantom, Without Headset	-	-	-	0.450	-
Body: Display facing phantom, Headset WH-108	-	-	-	-	-
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Body: Back facing phantom, Without Headset	-	-	-	-	
Body: Back facing phantom, Headset WH-108	-	-	-	0.244	
Body: Display facing phantom, Without Headset	-	-	-	-	
Body: Display facing phantom, Headset WH-108	-	-	-	-	

Some of the Combined SAR values in the above table are less than the maximum SAR values for the contributing cellular band. This is due to a) minimal overlap of the SAR distributions of the cellular band with WLAN2450 and b) uncertainties associated with the different methods of calculation. In these cases, the maximum SAR values given for the combined Modes in the Summary table in Section 1.2 are those for the individual cellular band.

7.3 Body SAR assessment of Wireless Router mode at 10.0mm separation distance

LTE700 (Band 17) Wireless Router SAR results / Antenna 1

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.7	23.7	0.2	0.2	0.2	dB	
	Time-averaged power [dBm]		23.7	23.7	23.7	1.05	1.05	1.05	Lin	
	Back facing phantom	Estimated SAR	-	0.241	-	-	0.252	-	0.00	-
		Full SAR	-	0.239	-	-	0.250	-		
	Display facing phantom	Estimated SAR	-	0.230	-	-	0.241	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.004	-	-	0.005	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.176	-	-	0.184	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.054	-	-	0.057	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.185	-	-	0.194	-	-	-
		Full SAR	-	-	-	-	-	-		
CC-3086 Back facing phantom	Estimated SAR	-	0.255	-	-	0.267	-	0.00	-	
	Full SAR	-	0.253	-	-	0.265	-			
10MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.6	23.7	23.7	0.3	0.2	0.2	dB	
	Time-averaged power [dBm]		23.6	23.7	23.7	1.07	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.6	23.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]		23.7	23.6	23.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

10MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.7	23.7	0.2	0.2	0.2	dB	
	Time-averaged power [dBm]		23.7	23.7	23.7	1.05	1.05	1.05	Lin	
	Back facing phantom	Estimated SAR	-	0.212	-	-	0.222	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.178	-	-	0.186	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.004	-	-	0.004	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.147	-	-	0.154	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left edge facing phantom	Estimated SAR	-	0.040	-	-	0.042	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
10MHz Ch BW 50%RB 50 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.6	23.7	23.7	0.3	0.2	0.2	dB	
	Time-averaged power [dBm]		23.6	23.7	23.7	1.07	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 100 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.6	23.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]		23.7	23.6	23.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.7	0.2	0.2	0.2	dB	
	Time-averaged power [dBm]		22.7	22.7	22.7	1.05	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE700 (Band 17) Wireless Router SAR results / Antenna 2

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz	Ch 23780 709.0 MHz	Ch 23790 710.0 MHz	Ch 23800 711.0 MHz		
10MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.5	23.5	0.4	0.4	0.4	dB	
	Time-averaged power [dBm]		23.5	23.5	23.5	1.10	1.10	1.10	Lin	
	Back facing phantom	Estimated SAR	-	0.496	-	-	0.544	-	0.00	23
		Full SAR	-	0.494	-	-	0.542	-		
	Display facing phantom	Estimated SAR	-	0.433	-	-	0.475	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.012	-	-	0.013	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.297	-	-	0.326	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.372	-	-	0.408	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.238	-	-	0.261	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Back facing phantom	Estimated SAR	-	0.440	-	-	0.482	-	0.01	-
Full SAR		-	0.433	-	-	0.475	-			
10MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.4	23.5	23.5	0.5	0.4	0.4	dB	
	Time-averaged power [dBm]		23.4	23.5	23.5	1.12	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.4	23.5	0.4	0.5	0.4	dB	
	Time-averaged power [dBm]		23.5	23.4	23.5	1.10	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

10MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*			
	Conducted Power [dBm]		23.5	23.5	23.5	0.4	0.4	0.4	dB
	Time-averaged power [dBm]		23.5	23.5	23.5	1.10	1.10	1.10	Lin
	Back facing phantom	Estimated SAR	-	0.386	-	-	0.423	-	-
		Full SAR	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.329	-	-	0.361	-	-
		Full SAR	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.009	-	-	0.010	-	-
		Full SAR	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.239	-	-	0.262	-	-
		Full SAR	-	-	-	-	-	-	-
	Left edge facing phantom	Estimated SAR	-	0.376	-	-	0.412	-	-
		Full SAR	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	-	0.188	-	-	0.206	-	-
		Full SAR	-	-	-	-	-	-	-
10MHz Ch BW 50%RB 50 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*			
	Conducted Power [dBm]		23.4	23.5	23.5	0.5	0.4	0.4	dB
	Time-averaged power [dBm]		23.4	23.5	23.5	1.12	1.10	1.10	Lin
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02						
10MHz Ch BW 50%RB 100 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*			
	Conducted Power [dBm]		23.5	23.4	23.5	0.4	0.5	0.4	dB
	Time-averaged power [dBm]		23.5	23.4	23.5	1.10	1.12	1.10	Lin
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02						
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*			
	Conducted Power [dBm]		22.5	22.5	22.5	0.4	0.4	0.4	dB
	Time-averaged power [dBm]		22.5	22.5	22.5	1.10	1.10	1.10	Lin
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02						

850MHz Band Wireless Router SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz	Ch 128 824.2 MHz	Ch 190 836.6 MHz	Ch 251 848.8 MHz		
1-slot GPRS	Tuning Target + Tolerance [dBm]		33.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		32.8	32.9	32.9	0.6	0.5	0.5	dB	
	Time-averaged power [dBm]		23.8	23.9	23.9	1.15	1.12	1.12	Lin	
	Back facing phantom	Estimated SAR	-	0.419	-	-	0.470	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.368	-	-	0.413	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.011	-	-	0.012	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.215	-	-	0.241	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left edge facing phantom	Estimated SAR	0.499	0.509	0.443	0.573	0.571	0.497	0.01	24
		Full SAR	0.491	-	-	0.564	-	-		
	Right edge facing phantom	Estimated SAR	-	0.249	-	-	0.279	-	-	-
		Full SAR	-	-	-	-	-	-		
CC-3086 Left edge facing phantom	Estimated SAR	0.468	0.490	0.424	0.537	0.550	0.476	0.00	-	
	Full SAR	-	0.488	-	-	0.548	-			
2-slot GPRS	Tuning Target + Tolerance [dBm]		30.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		29.6	29.5	29.6	0.8	0.9	0.8	dB	
	Time-averaged power [dBm]		23.6	23.5	23.6	1.20	1.23	1.20	Lin	
			No testing required for this slot configuration.							
3-slot GPRS	Tuning Target + Tolerance [dBm]		28.6			Scaling factor*				
	Conducted Slot Average Power [dBm]		28.0	27.9	27.8	0.6	0.7	0.8	dB	
	Time-averaged power [dBm]		23.7	23.6	23.5	1.15	1.17	1.20	Lin	
			No testing required for this slot configuration.							
4-slot GPRS	Tuning Target + Tolerance [dBm]		27.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		26.7	26.7	26.6	0.7	0.7	0.8	dB	
	Time-averaged power [dBm]		23.7	23.7	23.6	1.17	1.17	1.20	Lin	
			No testing required for this slot configuration.							

(Table continues)

(Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz	Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		24.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		24.1	24.1	24.1	0.3	0.3	0.3	dB	
	Time-averaged power [dBm]		24.1	24.1	24.1	1.07	1.07	1.07	Lin	
	Back facing phantom	Estimated SAR	-	0.443	-	-	0.475	-	0.00	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	0.448	-	-	0.480	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.013	-	-	0.014	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.276	-	-	0.296	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	0.612	0.626	0.556	0.656	0.671	0.596	0.02	25
		Full SAR	-	0.609	-	-	0.653	-		
	Right edge facing phantom	Estimated SAR	-	0.288	-	-	0.309	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Left edge facing phantom	Estimated SAR	0.590	0.591	0.528	0.632	0.633	0.566	0.01	-
		Full SAR	-	0.597	-	-	0.640	-		

WCDMA850 (Band 5) Wireless Router SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz	Ch 4132 826.4 MHz	Ch 4175 835.0 MHz	Ch 4233 846.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		24.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		24.3	24.3	24.3	0.1	0.1	0.1	dB	
	Time-averaged power [dBm]		24.3	24.3	24.3	1.02	1.02	1.02	Lin	
	Back facing phantom	Estimated SAR	0.372	0.347	0.316	0.381	0.355	0.323	0.00	-
		Full SAR	0.369	-	-	0.378	-	-		
	Display facing phantom	Estimated SAR	-	0.267	-	-	0.273	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.008	-	-	0.008	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.289	-	-	0.296	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.166	-	-	0.170	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.299	-	-	0.306	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Back facing phantom	Estimated SAR	0.394	0.363	0.332	0.403	0.371	0.340	0.00	-
		Full SAR	0.396	-	-	0.405	-	-		

LTE850 (Band 5) Wireless Router SAR results / Antenna 1

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.7	23.6	0.2	0.2	0.3	dB	
	Time-averaged power [dBm]		23.7	23.7	23.6	1.05	1.05	1.07	Lin	
	Back facing phantom	Estimated SAR	-	0.410	-	-	0.429	-	0.00	-
		Full SAR	-	0.409	-	-	0.428	-		
	Display facing phantom	Estimated SAR	-	0.351	-	-	0.368	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.009	-	-	0.010	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.141	-	-	0.148	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.317	-	-	0.332	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.326	-	-	0.341	-	-	-
		Full SAR	-	-	-	-	-	-		
CC-3086 Back facing phantom	Estimated SAR	-	0.386	-	-	0.404	-	0.01	-	
	Full SAR	-	0.392	-	-	0.410	-			
10MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.6	23.7	23.7	0.3	0.2	0.2	dB	
	Time-averaged power [dBm]		23.6	23.7	23.7	1.07	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.6	23.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]		23.7	23.6	23.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

10MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.7	23.6	0.2	0.2	0.3	dB	
	Time-averaged power [dBm]		23.7	23.7	23.6	1.05	1.05	1.07	Lin	
	Back facing phantom	Estimated SAR	-	0.346	-	-	0.362	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.276	-	-	0.289	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.007	-	-	0.007	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.114	-	-	0.119	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
10MHz Ch BW 50%RB 50 % offset	Left edge facing phantom	Estimated SAR	-	0.250	-	-	0.262	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	-	0.249	-	-	0.261	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
10MHz Ch BW 50%RB 100 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.6	23.7	23.7	0.3	0.2	0.2	dB	
	Time-averaged power [dBm]		23.6	23.7	23.7	1.07	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 100 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.7	23.6	23.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]		23.7	23.6	23.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		22.7	22.7	22.6	0.2	0.2	0.3	22.7	
	Time-averaged power [dBm]		22.7	22.7	22.6	1.05	1.05	1.07	22.7	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE850 (Band 5) Wireless Router SAR results / Antenna 2

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz	Ch 20450 829.0 MHz	Ch 20525 836.5 MHz	Ch 20600 844.0 MHz		
10MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.5	23.4	0.4	0.4	0.5	dB	
	Time-averaged power [dBm]		23.5	23.5	23.4	1.10	1.10	1.12	Lin	
	Back facing phantom	Estimated SAR	-	0.531	-	-	0.582	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	0.455	-	-	0.499	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.010	-	-	0.011	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.314	-	-	0.344	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.543	-	-	0.595	-	0.00	26
		Full SAR	-	0.543	-	-	0.595	-		
	Right edge facing phantom	Estimated SAR	-	0.339	-	-	0.372	-	-	-
		Full SAR	-	-	-	-	-	-		
CC-3086 Left facing phantom	Estimated SAR	-	0.529	-	-	0.580	-	0.00	-	
	Full SAR	-	0.529	-	-	0.580	-			
10MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.4	23.5	23.5	0.5	0.4	0.4	dB	
	Time-averaged power [dBm]		23.4	23.5	23.5	1.12	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.4	23.5	0.4	0.5	0.4	dB	
	Time-averaged power [dBm]		23.5	23.4	23.5	1.10	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

10MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.5	23.4	0.4	0.4	0.5	dB	
	Time-averaged power [dBm]		23.5	23.5	23.4	1.10	1.10	1.12	Lin	
	Back facing phantom	Estimated SAR	-	0.416	-	-	0.456	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.357	-	-	0.391	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.007	-	-	0.008	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.252	-	-	0.276	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
10MHz Ch BW 50%RB 50 % offset	Left edge facing phantom	Estimated SAR	-	0.421	-	-	0.462	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
10MHz Ch BW 50%RB 100 % offset	Right edge facing phantom	Estimated SAR	-	0.265	-	-	0.291	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
10MHz Ch BW 50%RB 50 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.4	23.5	23.5	0.5	0.4	0.4	dB	
	Time-averaged power [dBm]		23.4	23.5	23.5	1.12	1.10	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 50%RB 100 % offset	Tuning Target + Tolerance [dBm]		23.9			Scaling factor*				
	Conducted Power [dBm]		23.5	23.4	23.5	0.4	0.5	0.4	dB	
	Time-averaged power [dBm]		23.5	23.4	23.5	1.10	1.12	1.10	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
10MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		22.9			Scaling factor*				
	Conducted Power [dBm]		22.5	22.5	22.4	0.4	0.4	0.5	22.7	
	Time-averaged power [dBm]		22.5	22.5	22.4	1.10	1.10	1.12	22.7	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

WCDMA1700/2100 Wireless Router SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		20.3	20.3	20.4	0.6	0.6	0.5	dB	
	Time-averaged power [dBm]		20.3	20.3	20.4	1.15	1.15	1.12	Lin	
	Back facing phantom	Estimated SAR	-	0.423	-	-	0.486	-	-	-
		Full SAR	-	0.449	-	-	0.516	-		
	Display facing phantom	Estimated SAR	-	0.342	-	-	0.393	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.023	-	-	0.027	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	0.741	0.758	0.843	0.851	0.870	0.946	0.05	27
		Full SAR	-	-	0.891	-	-	1.00		
	Left edge facing phantom	Estimated SAR	-	0.156	-	-	0.179	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.047	-	-	0.053	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Bottom edge facing phantom	Estimated SAR	0.693	0.734	0.812	0.796	0.843	0.911	0.06	-
		Full SAR	-	-	0.876	-	-	0.983		
	Repeated SAR Bottom edge facing phantom	Estimated SAR	-	-	0.855	-	-	0.959	0.03	-
		Full SAR	-	-	0.887	-	-	0.995		

WCDMA1700/2100 Wireless Router SAR results / Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz	Ch 1312 1712.4 MHz	Ch 1412 1732.4 MHz	Ch 1513 1752.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Power [dBm]		20.0	20.0	20.1	0.9	0.9	0.8	dB	
	Time-averaged power [dBm]		20.0	20.0	20.1	1.23	1.23	1.20	Lin	
	Back facing phantom	Estimated SAR	0.103	0.127	0.150	0.127	0.156	0.180	0.01	-
		Full SAR	-	-	0.145	-	-	0.174		
	Display facing phantom	Estimated SAR	-	0.106	-	-	0.130	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.016	-	-	0.019	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.071	-	-	0.087	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.026	-	-	0.032	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.028	-	-	0.034	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Back facing phantom	Estimated SAR	0.121	0.147	0.174	0.149	0.181	0.209	0.01	-
		Full SAR	-	-	0.168	-	-	0.202		

LTE1700/2100 (Band 4) Wireless Router SAR results / Antenna 1

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.7	19.6	19.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]		19.7	19.6	19.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.6	19.7	19.7	0.3	0.2	0.2	dB	
	Time-averaged power [dBm]		19.6	19.7	19.7	1.07	1.05	1.05	Lin	
	Back facing phantom	Estimated SAR	-	0.412	-	-	0.431	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.512	-	-	0.536	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.027	-	-	0.028	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.723	-	-	0.757	-	0.02	28
		Full SAR	-	0.746	-	-	0.781	-	-	-
	Left edge facing phantom	Estimated SAR	-	0.176	-	-	0.184	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	-	0.067	-	-	0.070	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
CC-3086 Bottom edge facing phantom	Estimated SAR	-	0.684	-	-	0.716	-	-	-	
	Full SAR	-	0.701	-	-	0.734	-	-	-	
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.6	19.6	19.7	0.3	0.3	0.2	dB	
	Time-averaged power [dBm]		19.6	19.6	19.7	1.07	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.7	19.6	19.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]		19.7	19.6	19.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.6	19.7	19.7	0.3	0.2	0.2	dB	
20MHz Ch BW 50%RB 50 % offset	Time-averaged power [dBm]		19.6	19.7	19.7	1.07	1.05	1.05	Lin	
	Back facing phantom	Estimated SAR	-	0.333	-	-	0.349	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.420	-	-	0.440	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.023	-	-	0.024	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.573	-	-	0.600	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left edge facing phantom	Estimated SAR	-	0.143	-	-	0.150	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	-	0.055	-	-	0.058	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.6	19.6	19.7	0.3	0.3	0.2	dB	
	Time-averaged power [dBm]		19.6	19.6	19.7	1.07	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		18.9			Scaling factor*				
	Conducted Power [dBm]		18.7	18.6	18.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]		18.7	18.6	18.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE1700/2100 (Band 4) Wireless Router SAR results / Antenna 2

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz	Ch 20050 1720.0 MHz	Ch 23175 1732.5 MHz	Ch 20300 1745.0 MHz		
20MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.4	19.3	19.4	0.5	0.6	0.5	dB	
	Time-averaged power [dBm]		19.4	19.3	19.4	1.12	1.15	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.3	19.4	19.4	0.6	0.5	0.5	dB	
	Time-averaged power [dBm]		19.3	19.4	19.4	1.15	1.12	1.12	Lin	
	Back facing phantom	Estimated SAR	-	0.113	-	-	0.127	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.235	-	-	0.264	-	-	-
		Full SAR	-	0.232	-	-	0.260	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.013	-	-	0.015	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.081	-	-	0.091	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left edge facing phantom	Estimated SAR	-	0.030	-	-	0.033	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	-	0.055	-	-	0.061	-	-	-
Full SAR		-	-	-	-	-	-	-	-	
CC-3086 Display edge facing phantom	Estimated SAR	-	0.174	-	-	0.195	-	-	-	
	Full SAR	-	0.134	-	-	0.150	-	-	-	
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.3	19.3	19.4	0.6	0.6	0.5	dB	
	Time-averaged power [dBm]		19.3	19.3	19.4	1.15	1.15	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.4	19.3	19.4	0.5	0.6	0.5	dB	
	Time-averaged power [dBm]		19.4	19.3	19.4	1.12	1.15	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.3	19.4	19.4	0.6	0.5	0.5	dB	
20MHz Ch BW 50%RB 50 % offset	Time-averaged power [dBm]		19.3	19.4	19.4	1.15	1.12	1.12	Lin	
	Back facing phantom	Estimated SAR	-	0.092	-	-	0.103	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.097	-	-	0.109	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.010	-	-	0.011	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.067	-	-	0.075	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left edge facing phantom	Estimated SAR	-	0.025	-	-	0.028	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	-	0.044	-	-	0.049	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.3	19.3	19.4	0.6	0.6	0.5	dB	
	Time-averaged power [dBm]		19.3	19.3	19.4	1.15	1.15	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		18.9			Scaling factor*				
	Conducted Power [dBm]		18.4	18.3	18.4	0.5	0.6	0.5	dB	
	Time-averaged power [dBm]		18.4	18.3	18.4	1.12	1.15	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

1900MHz Band Wireless Router SAR results / Antenna 1

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 512	Ch 661	Ch 810	Ch 512	Ch 661	Ch 810		
			1850.2 MHz	1880.0 MHz	1909.8 MHz	1850.2 MHz	1880.0 MHz	1909.8 MHz		
1-slot GPRS	Tuning Target + Tolerance [dBm]		25.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		25.0	24.9	25.0	0.4	0.5	0.4	dB	
	Time-averaged power [dBm]		16.0	15.9	16.0	1.10	1.12	1.10	Lin	
			No testing required for this slot configuration.							
2-slot GPRS	Tuning Target + Tolerance [dBm]		22.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		22.3	22.2	22.2	0.1	0.2	0.2	dB	
	Time-averaged power [dBm]		16.3	16.2	16.2	1.02	1.05	1.05	Lin	
	Back facing phantom	Estimated SAR	-	0.233	-	-	0.244	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.222	-	-	0.232	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.008	-	-	0.008	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	0.322	0.364	0.348	0.330	0.381	0.364	0.02	-
		Full SAR	-	0.382	-	-	0.400	-	-	-
	Left edge facing phantom	Estimated SAR	-	0.025	-	-	0.026	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	-	0.065	-	-	0.068	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	CC-3086 Bottom edge facing phantom	Estimated SAR	0.331	0.357	0.350	0.339	0.374	0.366	0.04	29
Full SAR		-	0.393	-	-	0.412	-	-	-	
3-slot GPRS	Tuning Target + Tolerance [dBm]		20.6			Scaling factor*				
	Conducted Slot Average Power [dBm]		20.2	20.2	20.2	0.4	0.4	0.4	dB	
	Time-averaged power [dBm]		15.9	15.9	15.9	1.10	1.10	1.10	Lin	
			No testing required for this slot configuration.							
4-slot GPRS	Tuning Target + Tolerance [dBm]		19.4			Scaling factor*				
	Conducted Slot Average Power [dBm]		19.1	19.0	19.0	0.3	0.4	0.4	dB	
	Time-averaged power [dBm]		16.1	16.0	16.0	1.07	1.10	1.10	Lin	
			No testing required for this slot configuration.							

(Table continues)

(Table continues)

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz	Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		20.6	20.4	20.5	0.3	0.5	0.4	dB	
	Time-averaged power [dBm]		20.6	20.4	20.5	1.07	1.12	1.10	Lin	
	Back facing phantom	Estimated SAR	0.657	0.591	0.518	0.704	0.663	0.568	0.04	30
		Full SAR	0.697	-	-	0.747	-	-		
	Display facing phantom	Estimated SAR	-	0.288	-	-	0.323	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.014	-	-	0.015	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.271	-	-	0.304	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.099	-	-	0.111	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.085	-	-	0.095	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Back facing pantom	Estimated SAR	0.561	0.514	0.459	0.601	0.577	0.503	0.07	-
		Full SAR	0.632	-	-	0.677	-	-		

WCDMA1900 Wireless Router SAR results /Antenna 2

Mode	Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz	Ch 9262 1852.4 MHz	Ch 9400 1880.0 MHz	Ch 9538 1907.6 MHz		
WCDMA	Tuning Target + Tolerance [dBm]		20.9			Scaling factor*				
	Conducted Slot Average Power [dBm]		20.3	20.1	20.2	0.6	0.8	0.7	dB	
	Time-averaged power [dBm]		20.3	20.1	20.2	1.15	1.20	1.17	Lin	
	Back facing phantom	Estimated SAR	0.239	0.254	0.261	0.274	0.305	0.307	0.02	-
		Full SAR	-	-	0.285	-	-	0.335		
	Display facing phantom	Estimated SAR	-	0.211	-	-	0.254	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.018	-	-	0.021	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.137	-	-	0.165	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.127	-	-	0.153	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.036	-	-	0.043	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Back facing pantom	Estimated SAR	0.228	0.240	0.279	0.262	0.289	0.328	0.03	-
		Full SAR	-	-	0.309	-	-	0.363		

LTE1900 (Band 2) Wireless Router SAR results / Antenna 1

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.2	20.3	20.3	0.2	0.1	0.1	dB	
	Time-averaged power [dBm]		20.2	20.3	20.3	1.05	1.02	1.02	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.2	20.3	20.2	0.2	0.1	0.2	dB	
	Time-averaged power [dBm]		20.2	20.3	20.2	1.05	1.02	1.05	Lin	
	Back facing phantom	Estimated SAR	-	0.335	-	-	0.343	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	0.306	-	-	0.313	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	-	0.004	-	-	0.004	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	-	0.597	-	-	0.611	-	0.04	-
		Full SAR	-	0.638	-	-	0.653	-		
	Left edge facing phantom	Estimated SAR	-	0.032	-	-	0.033	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.081	-	-	0.082	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Bottom edge facing phantom	Estimated SAR	-	0.681	-	-	0.697	-	0.06	31
Full SAR		-	0.741	-	-	0.758	-			
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.2	20.2	20.3	0.2	0.2	0.1	dB	
	Time-averaged power [dBm]		20.2	20.2	20.3	1.05	1.05	1.02	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.2	20.3	20.3	0.2	0.1	0.1	dB	
	Time-averaged power [dBm]		20.2	20.3	20.3	1.05	1.02	1.02	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 50 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.2	20.3	20.2	0.2	0.1	0.2	dB	
	Time-averaged power [dBm]		20.2	20.3	20.2	1.05	1.02	1.05	Lin	
	Back facing phantom	Estimated SAR	-	0.293	-	-	0.300	-	-	
		Full SAR	-	-	-	-	-	-	-	
	Display facing phantom	Estimated SAR	-	0.268	-	-	0.274	-	-	
		Full SAR	-	-	-	-	-	-	-	
	Top edge facing phantom	Estimated SAR	-	0.004	-	-	0.004	-	-	
		Full SAR	-	-	-	-	-	-	-	
	Bottom edge facing phantom	Estimated SAR	-	0.441	-	-	0.451	-	-	
		Full SAR	-	-	-	-	-	-	-	
20MHz Ch BW 1RB 100 % offset	Left edge facing phantom	Estimated SAR	-	0.028	-	-	0.029	-	-	
		Full SAR	-	-	-	-	-	-	-	
	Right edge facing phantom	Estimated SAR	-	0.068	-	-	0.069	-	-	
		Full SAR	-	-	-	-	-	-	-	
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.2	20.2	20.3	0.2	0.2	0.1	dB	
	Time-averaged power [dBm]		20.2	20.2	20.3	1.05	1.05	1.02	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		19.4			Scaling factor*				
	Conducted Power [dBm]		19.2	19.3	19.3	0.2	0.1	0.1	dB	
	Time-averaged power [dBm]		19.2	19.3	19.3	1.05	1.02	1.02	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE1900 (Band 2) Wireless Router SAR results / Antenna 2

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz	Ch 18700 1860.0 MHz	Ch 18900 1880.0 MHz	Ch 19100 1900.0 MHz		
20MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.1	20.1	0.4	0.3	0.3	dB	
	Time-averaged power [dBm]		20.0	20.1	20.1	1.10	1.07	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.1	20.0	0.4	0.3	0.4	dB	
	Time-averaged power [dBm]		20.0	20.1	20.0	1.10	1.07	1.10	Lin	
	Back facing phantom	Estimated SAR	-	0.169	-	-	0.181	-	-	-
		Full SAR	-	0.179	-	-	0.192	-	-	-
	Display facing phantom	Estimated SAR	-	0.153	-	-	0.164	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.018	-	-	0.019	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.093	-	-	0.100	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Left edge facing phantom	Estimated SAR	-	0.105	-	-	0.113	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	-	0.035	-	-	0.038	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	CC-3086 Back edge facing phantom	Estimated SAR	-	0.195	-	-	0.209	-	-	-
Full SAR		-	0.202	-	-	0.216	-	-	-	
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.0	20.1	0.4	0.4	0.3	dB	
	Time-averaged power [dBm]		20.0	20.0	20.1	1.10	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.1	20.1	0.4	0.3	0.3	dB	
	Time-averaged power [dBm]		20.0	20.1	20.1	1.10	1.07	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 50 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.1	20.0	0.4	0.3	0.4	dB	
	Time-averaged power [dBm]		20.0	20.1	20.0	1.10	1.07	1.10	Lin	
	Back facing phantom	Estimated SAR	-	0.136	-	-	0.146	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	-	0.128	-	-	0.137	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	-	0.015	-	-	0.016	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	-	0.076	-	-	0.081	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		20.4			Scaling factor*				
	Conducted Power [dBm]		20.0	20.0	20.1	0.4	0.4	0.3	dB	
	Time-averaged power [dBm]		20.0	20.0	20.1	1.10	1.10	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		19.4			Scaling factor*				
	Conducted Power [dBm]		19.0	19.1	19.1	0.4	0.3	0.3	dB	
	Time-averaged power [dBm]		19.0	19.1	19.1	1.10	1.07	1.07	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE2500 (Band 7) Wireless Router SAR results / Antenna 1

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz		
20MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.7	19.6	19.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]		19.7	19.6	19.7	1.05	1.07	1.05	Lin	
	Back facing phantom	Estimated SAR	0.354	-	-	0.371	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	0.433	-	-	0.453	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	0.047	-	-	0.050	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	0.390	-	-	0.410	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	0.054	-	-	0.057	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	0.469	-	-	0.491	-	-	0.02	-
		Full SAR	0.485	-	-	0.508	-	-		
	CC-3086 Right edge facing phantom	Estimated SAR	0.459	-	-	0.481	-	-	0.01	-
		Full SAR	0.464	-	-	0.486	-	-		
20MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.6	19.7	19.7	0.3	0.2	0.2	dB	
	Time-averaged power [dBm]		19.6	19.7	19.7	1.07	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.6	19.6	19.7	0.3	0.3	0.2	dB	
	Time-averaged power [dBm]		19.6	19.6	19.7	1.07	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.7	19.6	19.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]		19.7	19.6	19.7	1.05	1.07	1.05	Lin	
	Back facing phantom	Estimated SAR	0.327	-	-	0.342	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	0.351	-	-	0.368	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	0.039	-	-	0.041	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	0.322	-	-	0.337	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
20MHz Ch BW 50%RB 50 % offset	Left edge facing phantom	Estimated SAR	0.043	-	-	0.045	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	0.392	-	-	0.410	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
20MHz Ch BW 50%RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.6	19.7	19.7	0.3	0.2	0.2	dB	
	Time-averaged power [dBm]		19.6	19.7	19.7	1.07	1.05	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.6	19.6	19.7	0.3	0.3	0.2	dB	
	Time-averaged power [dBm]		19.6	19.6	19.7	1.07	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		18.9			Scaling factor*				
	Conducted Power [dBm]		18.7	18.6	18.7	0.2	0.3	0.2	dB	
	Time-averaged power [dBm]		18.7	18.6	18.7	1.05	1.07	1.05	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

LTE2500 (Band 7) Wireless Router SAR results / Antenna 2

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz	Ch 20850 2510.0 MHz	Ch 21100 2535.0 MHz	Ch 21350 2560.0 MHz		
20MHz Ch BW 1RB 0 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.4	19.3	19.4	0.5	0.6	0.5	dB	
	Time-averaged power [dBm]		19.4	19.3	19.4	1.12	1.15	1.12	Lin	
	Back facing phantom	Estimated SAR	0.395	-	-	0.443	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	0.305	-	-	0.342	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	0.023	-	-	0.025	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Bottom edge facing phantom	Estimated SAR	0.452	-	-	0.507	-	-	0.03	-
		Full SAR	0.478	-	-	0.536	-	-		
	Left edge facing phantom	Estimated SAR	0.087	-	-	0.098	-	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	0.032	-	-	0.035	-	-	-	-
		Full SAR	-	-	-	-	-	-		
CC-3086 Bottom edge facing phantom	Estimated SAR	0.472	-	-	0.530	-	-	0.01	32	
	Full SAR	0.482	-	-	0.541	-	-			
20MHz Ch BW 1RB 50 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.3	19.4	19.4	0.6	0.5	0.5	dB	
	Time-averaged power [dBm]		19.3	19.4	19.4	1.15	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 1RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.3	19.3	19.4	0.6	0.6	0.5	dB	
	Time-averaged power [dBm]		19.3	19.3	19.4	1.15	1.15	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

(Table continues)

(Table continues)

20MHz Ch BW 50%RB 0 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.4	19.3	19.4	0.5	0.6	0.5	dB	
	Time-averaged power [dBm]		19.4	19.3	19.4	1.12	1.15	1.12	Lin	
	Back facing phantom	Estimated SAR	0.315	-	-	0.353	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Display facing phantom	Estimated SAR	0.249	-	-	0.279	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Top edge facing phantom	Estimated SAR	0.017	-	-	0.020	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Bottom edge facing phantom	Estimated SAR	0.382	-	-	0.429	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
20MHz Ch BW 50%RB 50 % offset	Left edge facing phantom	Estimated SAR	0.087	-	-	0.098	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
	Right edge facing phantom	Estimated SAR	0.028	-	-	0.031	-	-	-	-
		Full SAR	-	-	-	-	-	-	-	-
20MHz Ch BW 50%RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.3	19.4	19.4	0.6	0.5	0.5	dB	
	Time-averaged power [dBm]		19.3	19.4	19.4	1.15	1.12	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 50%RB 100 % offset	Tuning Target + Tolerance [dBm]		19.9			Scaling factor*				
	Conducted Power [dBm]		19.3	19.3	19.4	0.6	0.6	0.5	dB	
	Time-averaged power [dBm]		19.3	19.3	19.4	1.15	1.15	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							
20MHz Ch BW 100% RB	Tuning Target + Tolerance [dBm]		18.9			Scaling factor*				
	Conducted Power [dBm]		18.4	18.3	18.4	0.5	0.6	0.5	dB	
	Time-averaged power [dBm]		18.4	18.3	18.4	1.12	1.15	1.12	Lin	
			No testing required for this CBW/RB/RB offset configuration according to KDB 941225 D05 SAR for LTE Devices v02r02							

2450MHz Wireless Router SAR results

Mode	Test configuration	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation (Estimated SAR - Full SAR) [W/kg]	Plot #
			Ch 2 2417.0 MHz	Ch 6 2437.0 MHz	Ch 10 2457.0 MHz	Ch 2 2417.0 MHz	Ch 6 2437.0 MHz	Ch 10 2457.0 MHz		
WLAN b-mode BPSK 1 Mbps	Tuning Target + Tolerance [dBm]		18.0			Scaling factor*				
	Conducted Power [dBm]		16.6	16.9	16.7	1.4	1.1	1.3	dB	
	Time-averaged power [dBm]		16.6	16.9	16.7	1.38	1.29	1.35	Lin	
	Back facing phantom	Estimated SAR	-	0.104	-	-	0.134	-	-	-
		Full SAR	-	-	-	-	-	-		
	Display facing phantom	Estimated SAR	-	0.097	-	-	0.125	-	-	-
		Full SAR	-	-	-	-	-	-		
	Top edge facing phantom	Estimated SAR	0.105	0.118	0.136	0.145	0.152	0.183	0.00	33
		Full SAR	-	-	0.135	-	-	0.182		
	Bottom edge facing phantom	Estimated SAR	-	0.005	-	-	0.006	-	-	-
		Full SAR	-	-	-	-	-	-		
	Left edge facing phantom	Estimated SAR	-	0.027	-	-	0.035	-	-	-
		Full SAR	-	-	-	-	-	-		
	Right edge facing phantom	Estimated SAR	-	0.086	-	-	0.111	-	-	-
		Full SAR	-	-	-	-	-	-		
	CC-3086 Top edge facing phantom	Estimated SAR	0.113	0.120	0.110	0.156	0.155	0.148	0.01	-
		Full SAR	0.123	-	-	0.170	-	-		

**Simultaneous transmissions: Combined head SAR results –
Individual band Max results**

Test configuration	Max. Reported* 1g SAR results				
	WLAN	Antenna 1			
		LTE700 (Band 17)	WCDMA850 (Band 5)	LTE850 (Band 5)	WCDMA1700/2100 (Band 4)
Back facing phantom	0.134	0.265	0.405	0.428	0.516
Display facing phantom	0.125	0.241	0.273	0.368	0.393
Top edge facing phantom	0.182	0.005	0.008	0.010	0.027
Bottom edge facing phantom	0.006	0.184	0.296	0.148	1.00
Left edge facing phantom	0.035	0.057	0.170	0.332	0.179
Right edge facing phantom	0.111	0.194	0.306	0.341	0.053
Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	LTE1700/2100 (Band 4)	2-slot GPRS1900	WCDMA1900 (Band 2)	LTE1900 (Band 2)	LTE2500 (Band 7)
Back facing phantom	0.431	0.244	0.747	0.343	0.371
Display facing phantom	0.536	0.232	0.323	0.313	0.453
Top edge facing phantom	0.028	0.008	0.015	0.004	0.050
Bottom edge facing phantom	0.781	0.412	0.304	0.758	0.410
Left edge facing phantom	0.184	0.026	0.111	0.033	0.057
Right edge facing phantom	0.070	0.068	0.095	0.082	0.508

Test configuration	Max. Reported* 1g SAR results					
	WLAN	Antenna 2				
		LTE700 (Band 17)	1-slot GPRS850	WCDMA850 (band 5)	LTE850 (Band 5)	WCDMA1700/2100 (Band 4)
Back facing phantom	0.134	0.542	0.470	0.475	0.582	0.202
Display facing phantom	0.125	0.475	0.413	0.480	0.499	0.130
Top edge facing phantom	0.182	0.013	0.012	0.014	0.011	0.019
Bottom edge facing phantom	0.006	0.326	0.241	0.296	0.344	0.087
Left edge facing phantom	0.035	0.412	0.564	0.653	0.595	0.032
Right edge facing phantom	0.111	0.261	0.279	0.309	0.372	0.034
Test configuration	Max. Reported* 1g SAR results					
	Antenna 2					
	LTE1700/2100 (Band 4)	WCDMA1900 (Band 2)	LTE 1900 (Band 2)	LTE2500 (Band 7)		
Back facing phantom	0.127	0.363	0.216	0.443		
Display facing phantom	0.260	0.254	0.164	0.342		
Top edge facing phantom	0.015	0.021	0.019	0.025		
Bottom edge facing phantom	0.091	0.165	0.100	0.541		
Left edge facing phantom	0.033	0.153	0.113	0.098		
Right edge facing phantom	0.061	0.043	0.038	0.035		

**Simultaneous transmissions: Combined head SAR results –
Max + Max combined results**

Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN	LTE1700/ 2100 (Band 4) + WLAN
Back facing phantom	0.399	0.539	0.562	0.650	0.565
Display facing phantom	0.366	0.398	0.493	0.518	0.661
Top edge facing phantom	0.187	0.190	0.192	0.209	0.210
Bottom edge facing phantom	0.190	0.302	0.154	1.01	0.787
Left edge facing phantom	0.092	0.205	0.367	0.214	0.219
Right edge facing phantom	0.305	0.417	0.452	0.164	0.181
Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Back facing phantom	0.378	0.881	0.477	0.505	
Display facing phantom	0.357	0.448	0.438	0.578	
Top edge facing phantom	0.190	0.197	0.186	0.232	
Bottom edge facing phantom	0.418	0.310	0.764	0.416	
Left edge facing phantom	0.061	0.146	0.068	0.092	
Right edge facing phantom	0.179	0.206	0.193	0.619	

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN
Back facing phantom	0.676	0.604	0.609	0.716	0.336
Display facing phantom	0.600	0.538	0.605	0.624	0.255
Top edge facing phantom	0.195	0.194	0.196	0.193	0.201
Bottom edge facing phantom	0.332	0.247	0.302	0.350	0.093
Left edge facing phantom	0.447	0.599	0.688	0.630	0.067
Right edge facing phantom	0.372	0.390	0.420	0.483	0.145
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Back facing phantom	0.261	0.497	0.350	0.577	
Display facing phantom	0.385	0.379	0.289	0.467	
Top edge facing phantom	0.197	0.203	0.201	0.207	
Bottom edge facing phantom	0.097	0.171	0.106	0.547	
Left edge facing phantom	0.068	0.188	0.148	0.133	
Right edge facing phantom	0.172	0.154	0.149	0.146	

7.3.1 Combined Body SAR data

The Combined SAR data given in the tables below has been voluntarily calculated and should be ignored for FCC certification.

The following table gives a more accurate assessment of the SAR values for simultaneous transmission. These values have been calculated using the SPEAG Combined Multiband algorithm, which is based on area scans. It a) converts the 2D area scans into 3D volume scans by assuming frequency-dependent decay characteristics for the E-field, b) sums the SAR values for and the cellular bands point-by-point and c) calculates the combined average SAR values.

**Simultaneous transmissions: Combined SAR results –
SPEAG Combined Multiband algorithm results**

Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	LTE700 (Band 17) + WLAN	WCDMA850 (Band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN	LTE1700/ 2100 (Band 4) + WLAN
Back facing phantom	-	-	-	-	-
Display facing phantom	-	-	-	-	-
Top edge facing phantom	-	-	-	-	-
Bottom edge facing phantom	-	-	-	0.954	0.768
Left edge facing phantom	-	-	-	-	-
Right edge facing phantom	-	-	-	-	-
Test configuration	Max. Reported* 1g SAR results				
	Antenna 1				
	2-slot GPRS 1900 + WLAN	WCDMA 1900 (Band 2) + WLAN	LTE1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Back facing phantom	-	0.708	-	-	
Display facing phantom	-	-	-	-	
Top edge facing phantom	-	-	-	-	
Bottom edge facing phantom	0.383	-	0.704	-	
Left edge facing phantom	-	-	-	-	
Right edge facing phantom	-	-	-	0.527	

Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE700 (Band 17) + WLAN	2-slot GPRS850 + WLAN	WCDMA850 (band 5) + WLAN	LTE850 (Band 5) + WLAN	WCDMA1700/ 2100 (Band 4) + WLAN
Back facing phantom	0.554	0.488	-	0.607	-
Display facing phantom	-	-	-	-	-
Top edge facing phantom	-	-	-	-	-
Bottom edge facing phantom	-	-	-	-	-
Left edge facing phantom	-	-	0.681	-	-
Right edge facing phantom	-	-	-	-	-
Test configuration	Max. Reported* 1g SAR results				
	Antenna 2				
	LTE1700/ 2100 (Band 4) + WLAN	WCDMA1900 (Band 2) + WLAN	LTE 1900 (Band 2) + WLAN	LTE2500 (Band 7) + WLAN	
Back facing phantom	-	-	-	-	
Display facing phantom	-	-	-	-	
Top edge facing phantom	-	-	-	-	
Bottom edge facing phantom	-	-	-	-	
Left edge facing phantom	-	-	-	-	
Right edge facing phantom	-	-	-	-	

Some of the Combined SAR values in the above table are less than the maximum SAR values for the contributing cellular band. This is due to a) minimal overlap of the SAR distributions of the cellular band with WLAN2450 and b) uncertainties associated with the different methods of calculation. In these cases, the maximum SAR values given for the combined Modes in the Summary table in Section 1.2 are those for the individual cellular band.

Note: Simultaneous Transmission Procedures as described in KDB648474 are not required for this product. The Combined SAR data given in the tables above has been voluntarily calculated.

Plots of the Measurement scans are given in Appendix B.