SAR Compliance Test Report

Test report no.:	FCC_RM-1065_01	**Date of report:**	2015-02-03
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Tested device:	RM-1065, RM-1064		
FCC ID:	PYAAAA	**IC:**	661X-AAA
Supplement reports:	SAR_Photo_RM- 1065_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	2015-01-05 to 2015-01-20
HW and SW numbers of tested device	RM-1065, HW: 5201, SW: 02154.00000.14501.24000 RM-1064, HW: 4201, SW: 02154.00000.14501.24000
Batteries used in testing	BV-T4B
Headsets used in testing	WH-108
Other accessories used in testing	-
State of sample	Prototype unit
Notes	-

1.2 Maximum Results

The maximum reported SAR values for Head, Body-Worn, Wireless Router and 10-g Extremity SAR configurations are given in section 1.2.1, 1.2.2, 1.2.3 and 1.2.4 respectively. The device conforms to the requirements of the standards when the maximum measured SAR value is less than or equal to the limit.

1.2.1 Head Configuration

Mode	Reported* SAR value (1g avg)	SAR limit (1g avg)	Result	Plot #
LTE700 (Band 12)	**0.20 W/kg**	1.6 W/kg	**PASSED**	**H2**
LTE700 (Band 17)	**0.18 W/kg**	1.6 W/kg	**PASSED**	**H4**
LTE700 (Band 28a) LTE700 (Band 28b)	**0.22 W/kg**	1.6 W/kg	**PASSED**	**H6**
2-slot GPRS850	**0.48 W/kg**	1.6 W/kg	**PASSED**	**H7**
WCDMA850 (Band 5)	**0.27 W/kg**	1.6 W/kg	**PASSED**	**H9**
LTE850 (Band 5)	**0.27 W/kg**	1.6 W/kg	**PASSED**	**H11**
WCDMA1700/2100 (Band 4)	**0.42 W/kg**	1.6 W/kg	**PASSED**	**H13**
LTE1700/2100 (Band 4)	**0.32 W/kg**	1.6 W/kg	**PASSED**	**H15**
4-slot GPRS1900	**0.40 W/kg**	1.6 W/kg	**PASSED**	**H18**
WCDMA1900 (Band 2)	**0.68 W/kg**	1.6 W/kg	**PASSED**	**H19**
LTE1900 (Band 2)	**0.47 W/kg**	1.6 W/kg	**PASSED**	**H21**
LTE2500 (Band 7)	**0.29 W/kg**	1.6 W/kg	**PASSED**	**H24**
WLAN2450	**1.27 W/kg**	1.6 W/kg	**PASSED**	**H26**
Maximum of SPEAG combined multiband algorithm results				
WCDMA1900 (Band 2) + WLAN2450	**1.43 W/kg**	1.6 W/kg	**PASSED**	**H29**

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1.2.2 Body Worn Configuration

Summary of Maximum Results for Body-worn mode at 15 mm

Mode	Reported* SAR value (1g avg)	SAR limit (1g avg)	Result	Plot #
LTE700 (Band 12)	**0.33 W/kg**	1.6 W/kg	**PASSED**	**B2**
LTE700 (Band 17)	**0.31 W/kg**	1.6 W/kg	**PASSED**	**B4**
LTE700 (Band 28a) LTE700 (Band 28b)	**0.33 W/kg**	1.6 W/kg	**PASSED**	**B6**
2-slot GPRS850	**0.45 W/kg**	1.6 W/kg	**PASSED**	**B8**
WCDMA850 (Band 5)	**0.32 W/kg**	1.6 W/kg	**PASSED**	**B9**
LTE850 (Band 5)	**0.32 W/kg**	1.6 W/kg	**PASSED**	**B11**
WCDMA1700/2100 (Band 4)	**0.46 W/kg**	1.6 W/kg	**PASSED**	**B13**
LTE1700/2100 (Band 4)	**0.49 W/kg**	1.6 W/kg	**PASSED**	**B16**
3-slot GPRS1900	**0.49 W/kg**	1.6 W/kg	**PASSED**	**B17**
WCDMA1900 (Band 2)	**0.56 W/kg**	1.6 W/kg	**PASSED**	**B19**
LTE1900 (Band 2)	**0.37 W/kg**	1.6 W/kg	**PASSED**	**B21**
LTE2500 (Band 7)	**0.52 W/kg**	1.6 W/kg	**PASSED**	**B23**
WLAN2450	**0.11 W/kg**	1.6 W/kg	**PASSED**	**B26**
Maximum of SPEAG combined multiband algorithm results				
WCDMA1900 (Band 2) + WLAN2450	**0.57 W/kg**	1.6 W/kg	**PASSED**	**-**

1.2.3 Wireless Router Configuration

Summary of Maximum Results for Wireless Router mode at 10 mm

Mode	Reported* SAR value (1g avg)	SAR limit (1g avg)	Result	Plot #
LTE700 (Band 12)	**0.49 W/kg**	1.6 W/kg	**PASSED**	**W2**
LTE700 (Band 17)	**0.45 W/kg**	1.6 W/kg	**PASSED**	**W4**
LTE700 (Band 28a) LTE700 (Band 28b)	**0.42 W/kg**	1.6 W/kg	**PASSED**	**W6**
2-slot GPRS850	**0.73 W/kg**	1.6 W/kg	**PASSED**	**W7**
WCDMA850 (Band 5)	**0.56 W/kg**	1.6 W/kg	**PASSED**	**W9**
LTE850 (Band 5)	**0.53 W/kg**	1.6 W/kg	**PASSED**	**W11**
WCDMA1700/2100 (Band 4)	**1.13 W/kg**	1.6 W/kg	**PASSED**	**W14**
LTE1700/2100 (Band 4)	**1.16 W/kg**	1.6 W/kg	**PASSED**	**W16**
3-slot GPRS1900	**1.08 W/kg**	1.6 W/kg	**PASSED**	**W17**
WCDMA1900 (Band 2)	**1.12 W/kg**	1.6 W/kg	**PASSED**	**W20**
LTE1900 (Band 2)	**0.75 W/kg**	1.6 W/kg	**PASSED**	**W22**
LTE2500 (Band 7)	**1.22 W/kg**	1.6 W/kg	**PASSED**	**W23**
WLAN2450	**0.21 W/kg**	1.6 W/kg	**PASSED**	**W25**
Maximum of SPEAG combined multiband algorithm results				
LTE2500 (Band 7) + WLAN2450	**1.22 W/kg**	1.6 W/kg	**PASSED**	**W23**

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

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1.2.4 10-g Extremity SAR Configuration

Mode	Reported* SAR value (10g avg)	SAR limit (10g avg)	Result	Plot #
LTE2500 (Band 7)	**3.20 W/kg**	4.0 W/kg	**PASSED**	**E1**
WLAN2450	**0.05 W/kg**	4.0 W/kg	**PASSED**	**E3**
Maximum of SPEAG combined multiband algorithm results				
LTE2500 (Band 7) + WLAN2450	**3.20 W/kg**	4.0 W/kg	**PASSED**	**E1**

All other bands/communication systems and all other surfaces and edges have Wireless Router Reported SAR less than or equal to 1.2W/kg (when scaled to maximum power if WR power reduction applied), therefore there is no need to test Phablet 10g extremity SAR according to KDB 648474 D04 Handset SAR v01r01.

1.2.5 Summary SAR data

Description	**FCC-defined SAR values for the Grants of Equipment Authorization**		
	PCE	**DTS**	**NII**
Maximum Head 1g SAR values	0.68	1.27	-
{Max + Max} Simultaneous Head SAR value	1.58		
Maximum Body 1g SAR values	0.56	0.11	-
{Max + Max} Simultaneous Body 1g SAR value	0.67		
Maximum Product Specific (Wireless Router) 1g SAR values	1.22	0.21	-
{Max + Max} Simultaneous Product Specific (Wireless Router) 1g SAR value	1.37		
Maximum Product Specific (Extremity SAR) 10g SAR values	3.20	0.05	-
{Max + Max} Simultaneous Product Specific (Extremity SAR) 10g SAR value	3.25		
Maximum Simultaneous 1g SAR value **Head SAR:** **LTE1700/2100 (Band 4) + WLAN2450**	1.58		
Maximum Simultaneous 10g SAR value **Extremity SAR, Bottom edge:** **LTE2500 (Band 7) + WLAN2450**	3.25		

Note:

PCE contains the highest results between all cellular modes (cellular, AWS and PCS bands)
DTS contains the highest results between WLAN 2.4 GHz + RLAN 5725-5850 MHz
NII contains the highest results between RLAN 5150-5250, 5250-5350 and 5470-5725 MHz

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1.2.6 Maximum Drift

Maximum drift during measurements	≤ 0.2 dB

1.2.7 Measurement Uncertainty

Expanded Uncertainty (k=2) 95 %	± 29.8 %

2. DESCRIPTION OF THE DEVICE UNDER TEST

Device category	Portable
Exposure environment	General population / uncontrolled

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2.1 Bands and Modes of the DUT

Bands	Modes of Operation	Modulation Mode	Duty Cycle	Channel Bandwidth (MHz)	Transmitter Frequency Range (MHz)	Power Reduction in Wireless Router (Hotspot) Mode (dB)			
700 (Band 12)	LTE	QPSK / 16QAM	1	1.4, 3, 5, 10	699 – 716	-			
700 (Band 17)	LTE	QPSK / 16QAM	1	5, 10	704 – 716	-			
LTE700 (Band 28a) LTE700 (Band 28b)	LTE	QPSK / 16QAM	1	3, 5, 10, 15, 20	703 - 748	-			
850	GSM/GPRS	GMSK	1/8 to 4/8	-	824 – 849	1-slot -	2-slot -	3-slot -	4-slot -
850	EGPRS	GMSK / 8PSK	1/8 to 4/8	-	824 – 849	-	-	-	-
850 (Band 5)	WCDMA	-	1	-	826 – 847	-			
850 (Band 5)	HSUPA	-	1	-	826 – 847	-			
850 (Band 5)	DC-HSDPA	-	1	-	826 – 847	-			
850 (Band 5)	LTE	QPSK / 16QAM	1	1.4, 3, 5, 10	824 – 849	-			
1700/2100 (Band 4)	WCDMA	-	1	-	1712 - 1753	-			
1700/2100 (Band 4)	HSUPA	-	1	-	1712 - 1753	-			
1700/2100 (Band 4)	DC-HSDPA	-	1	-	1712 - 1753	-			
1700/2100 (Band 4)	LTE	QPSK / 16QAM	1	1.4, 3, 5, 10, 15, 20	1710 – 1755	-			
1900	GSM/GPRS	GMSK	1/8 to 4/8	-	1850 – 1910	1-slot -	2-slot -	3-slot -	4-slot -
1900	EGPRS	GMSK / 8PSK	1/8 to 4/8	-	1850 – 1910	-	-	-	-
1900 (Band 2)	WCDMA	-	1	-	1852 – 1908	-			
1900 (Band 2)	HSUPA	-	1	-	1852 – 1908	-			
1900 (Band 2)	DC-HSDPA	-	1	-	1852 – 1908	-			
1900 (Band 2)	LTE	QPSK / 16QAM	1	1.4, 3, 5, 10, 15, 20	1850 – 1910	-			
2500 (Band 7)	LTE	QPSK / 16QAM	1	5, 10, 15, 20	2500 - 2570	-			
2450	BT	GFSK	1	-	2402 – 2480	-			
2450	WLAN b-mode	DSSS	1	20	2412 – 2462	-			
2450	WLAN g-mode	OFDM	1	20	2412 – 2462	-			
2450	WLAN n-mode	OFDM	1	20	2412 – 2462	-			

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2.2 DUT Features and Test Requirements

Common features	Testing / Specification / KDB
Bands operating outside USA and Canada	These bands are not part of this filing: GSM/GPRS/EGPRS900 GSM/GPRS/EGPRS1800 WCDMA/HSUPA/DC-HSDPA900 (Band 8) WCDMA/HSUPA/DC-HSDPA2100 (Band 1) LTE850 (Band 20) LTE900 (Band 8) LTE1800 (Band 3) LTE2100 (Band 1) LTE2300 (Band 40) LTE2600 (Band 38)
Number of SIM cards:	RM-1065: **2** RM-1064: **1** The only difference between RM-1064 and RM-1065 is in the number of SIM cards the devices have. The associated mechanical differences between the products have no impact on the radiated performance and, as a result, it is valid to use test results of RM-1065 as a true representation of the SAR performance of RM-1064.
Ambient temperature:	20.5 – 22.5 °C / Controlled
Ambient humidity (RH %):	35 – 55 %RH / Controlled
Output power and batteries	The device output power was set to maximum power level for all tests. A fully charged battery was used for every test sequence.
Test channels	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.
VOIP	This device has Voice-over-IP capability for use at the ear. Therefore SAR for data modes was evaluated against the head profile of the phantom for all communication systems.
Antennas	See the antenna drawing in the report SAR_Photo_RM-1065_02, Section 3. Two antennas are used for transmission of some of the cellular bands in diversity-Tx mode, except only one antenna is used for LTE2500 (Band 7). 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. Same RF PA circuitry is used for both antennas and therefore same output power targets and conducted power results apply to both antennas. Control software was used to route the TX power to the chosen antenna during the SAR test sequence.

(DUT Features and Test Requirements table continues)

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(DUT Features and Test Requirements table continues)

<table>
<tr><td>Antennas</td><td>
<table>
<tr><th rowspan="2">Band</th><th colspan="2">Tx Antennas</th></tr>
<tr><th>Antenna 1</th><th>Antenna 2</th></tr>
<tr><td>LTE700 (Band 12)</td><td>✓</td><td>✓</td></tr>
<tr><td>LTE700 (Band 17)</td><td>✓</td><td>✓</td></tr>
<tr><td>LTE700 (Band 28a)
LTE700 (Band 28b)</td><td>✓</td><td>✓</td></tr>
<tr><td>GSM/GPRS/EGPRS850</td><td>✓</td><td>✓</td></tr>
<tr><td>WCDMA850 (Band 5)</td><td>✓</td><td>✓</td></tr>
<tr><td>LTE850 (Band 5)</td><td>✓</td><td>✓</td></tr>
<tr><td>WCDMA1700/2100 (Band 4)</td><td>✓</td><td>✓</td></tr>
<tr><td>LTE1700/2100 (Band 4)</td><td>✓</td><td>✓</td></tr>
<tr><td>GSM/GPRS/EGPRS1900</td><td>✓</td><td>✓</td></tr>
<tr><td>WCDMA1900 (Band 2)</td><td>✓</td><td>✓</td></tr>
<tr><td>LTE1900 (Band 2)</td><td>✓</td><td>✓</td></tr>
<tr><td>LTE2500 (Band 7)</td><td>–</td><td>✓</td></tr>
</table>
</td></tr>
<tr><td>GSM/GPRS/EGPRS</td><td>KDB 941225 D03 SAR Test Reduction Procedures for GSM/GPRS/EDGE</td></tr>
<tr><td>Device Class</td><td>B</td></tr>
<tr><td>GSM multi slot class</td><td>MSC33</td></tr>
<tr><td>DTM class</td><td>MSC33.
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.</td></tr>
<tr><td>EGPRS</td><td>8PSK EGPRS mode was not measured, because maximum averaged output power is lower in 8PSK EGPRS mode than in GPRS mode.</td></tr>
<tr><td>Call tester settings</td><td>CMU200 / Anritsu: MS signal was always set to maximum power: Pmax 5 for GSM850 and 0 for GSM1900.</td></tr>
<tr><td>Number of slots used in testing</td><td>The number of Tx slots in all GSM/GPRS mode tests was based on tuning target/conducted power data, see Section 3. The number of slots with highest or equal highest time-average power was tested.</td></tr>
<tr><td>WCDMA</td><td>KDB 941225 D01 SAR Measurement Procedures for 3G Devices</td></tr>
<tr><td>WCDMA</td><td>Rel10.
Conducted power measurements for WCDMA modes have been carried out in accordance with 3GPP TS34.1083 and GPP TS 34.121-1. See conducted power results in section 3.</td></tr>
<tr><td>Call test settings for WCDMA</td><td>CMU200 / Anritsu: UE uplink signal was configured to 12.2kbps RMC with all TPC bit set to 1.</td></tr>
<tr><td>HSUPA</td><td>SAR tests for HSUPA mode have not been performed as no HSUPA Sub-test mode has an average power > 0.25 dB above the basic WCDMA 12.2 kbps RMC mode.</td></tr>
<tr><td>DC-HSDPA</td><td>SAR tests for DC-HSDPA mode have not been performed as no DC-HSDPA Sub-test mode has an average power > 0.25 dB above the basic WCDMA 12.2 kbps RMC mode.</td></tr>
</table>

(DUT Features and Test Requirements table continues)

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(DUT Features and Test Requirements table continues)

<table>
<tr><th>LTE</th><th>KDB 941225 D05 SAR for LTE Devices v02r02 DR07-41372</th></tr>
<tr><td>LTE Category</td><td>4</td></tr>
<tr><td>Call tester settings</td><td>CMW500:
Uplink Power Control was set to ‘Max Power’.
Additional Spectrum Emission was set to ‘NS_01’ to disable A-MPR.</td></tr>
<tr><td>LTE MPR</td><td>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
<table>
<tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (RB)</th><th rowspan="2">MPR (dB)</th></tr>
<tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr>
<tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr>
<tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr>
<tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr>
</table>
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.

Conducted Power Tables in Section 3: “Nominal” column lists measured powers with MPR active. The “A-MPR active” column lists measured powers with MPR and A-MPR active (as defined by 3GPP TS 36.101).</td></tr>
<tr><th>WLAN</th><th>KDB 248227 SAR Measurement Procedures for 802.11 a/b/g Transmitters</th></tr>
<tr><td>WLAN modes tested</td><td>The standard transmission mode of the device in all WLAN b-mode tests was BPSK 1 Mbps.
The standard transmission modes used have maximum time-averaged output powers within 0.25 dB of the highest time-averaged output power of all the WLAN b, g and n modulation modes in this device as illustrated by the tables in Section 3.
In the tables in Section 3 it is shown if other transmission modes are used for check measurements.</td></tr>
<tr><td>WLAN test settings</td><td>The device was put into operation by using control software.</td></tr>
<tr><th>BT</th><th>KDB 447498 D01 General RF Exposure Guidance v05</th></tr>
<tr><td>BT Class</td><td>I</td></tr>
<tr><td>BT testing</td><td>BT power tuning target upper limit is 11.5 dBm.
WLAN2450 power tuning target upper limit is 16.5 dBm.
Since WLAN2450 and BT use same frequency and antenna, WLAN2450 power is 5.0 dB 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 results are below limit, also BT+cellular combined SAR can be deemed to comply without further analysis.</td></tr>
</table>

(DUT Features and Test Requirements table continues)

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(DUT Features and Test Requirements table continues)

Simultaneous transmission	**KDB 447498 D01 General RF Exposure Guidance v05**
In Head and Body-worn use	Simultaneous transmission of any singular cellular, PCS or AWS with WLAN2450 is possible.
Wireless Router "Hotspot" mode	Yes
In Wireless Router use	Simultaneous transmission of any singular cellular, AWS or PCS band with WLAN2450 is possible. 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 Section 2.1 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.
Power reduction for Wireless Router mode	See the table in Section 2.1.
10-g Extremity SAR for phablets	**KDB 648474 D04 SAR Handsets SAR**
Test concentration	For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. Phablet procedures applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g SAR > 1.2 W/kg.
KDBs used in testing	**KDB 248227 SAR Measurement Procedures for 802.11 a/b/g Transmitters** **KDB 447498 D01 General RF Exposure Guidance v05** **KDB 648474 D04 Handset SAR v01r01** **KDB 690783 D01 SAR Listings on Grants** **KDB 865664 D01 SAR Measurements 100 MHz to 6 GHz v01** **KDB 865664 D02 SAR Reporting v01** **KDB 941225 D01 SAR Measurement Procedures for 3G Devices** **KDB 941225 D03 SAR Test Reduction Procedures for GSM/GPRS/EDGE** **KDB 941225 D05 SAR for LTE Devices v02r02 DR07-41372**

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3. CONDUCTED POWERS

The conducted output power of the device was measured by a separate test laboratory on the same units as used for SAR testing.

Shaded lines in the tables below show which mode/configuration is used in testing.

3.1 GSM/GPRS/EGPRS

3.1.1 GSM850 Antenna 1 Head, Body-worn and Wireless Router / RM-1065

GSM 850								
SN: 004402741071728			Conducted power (dBm)			Time-averaged power (dBm)		
Slot configuration	Tuning target (dBm)	Upper limit (dBm)	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 1-slot	**32.5**	**32.9**	32.7	32.6	32.5	23.7	23.6	23.5
GPRS 2-slot	**31.8**	**32.2**	31.9	31.7	31.7	**25.9**	25.7	25.7
GPRS 3-slot	**29.8**	**30.2**	29.8	29.5	29.3	25.5	25.2	25.0
GPRS 4-slot	**28.0**	**28.4**	28.2	27.9	27.7	25.2	24.9	24.7
EGRPS 1-slot	**27.0**	**27.4**	27.1	26.8	26.8	18.1	17.8	17.8
EGPRS 2-slot	**27.0**	**27.4**	26.9	26.7	26.6	20.9	20.7	20.6
EGPRS 3-slot	**26.0**	**26.4**	26.2	25.9	25.9	21.9	21.6	21.6
EGPRS 4-slot	**24.8**	**25.2**	25.0	24.8	24.7	22.0	21.8	21.7

3.1.2 GSM850 Antenna 1 Head, Body-worn and Wireless Router / RM-1064

GSM 850								
SN: 004402741051514			Conducted power (dBm)			Time-averaged power (dBm)		
Slot configuration	Tuning target (dBm)	Upper limit (dBm)	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 1-slot	**32.5**	**32.9**	32.3	32.2	32.2	23.3	23.2	23.2
GPRS 2-slot	**31.8**	**32.2**	31.8	31.8	31.7	**25.8**	**25.8**	25.7
GPRS 3-slot	**29.8**	**30.2**	30.0	29.8	29.6	25.7	25.5	25.3
GPRS 4-slot	**28.0**	**28.4**	28.2	27.7	27.7	25.2	24.7	24.7
EGRPS 1-slot	**27.0**	**27.4**	27.1	26.7	26.8	18.1	17.7	17.8
EGPRS 2-slot	**27.0**	**27.4**	26.9	26.7	26.6	20.9	20.7	20.6
EGPRS 3-slot	**26.0**	**26.4**	26.2	25.8	25.7	21.9	21.5	21.4
EGPRS 4-slot	**24.8**	**25.2**	25.0	24.7	24.7	22.0	21.7	21.7

3.1.3 GSM850 Antenna 2 Head, Body-worn and Wireless Router / RM-1065

GSM 850								
SN: 004402741071728			Conducted power (dBm)			Time-averaged power (dBm)		
Slot configuration	Tuning target (dBm)	Upper limit (dBm)	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 1-slot	**32.5**	**32.9**	32.5	32.4	32.3	23.5	23.4	23.3
GPRS 2-slot	**31.8**	**32.2**	31.7	31.5	31.5	**25.7**	25.5	25.5
GPRS 3-slot	**29.8**	**30.2**	29.6	29.3	29.1	25.3	25.0	24.8
GPRS 4-slot	**28.0**	**28.4**	28.0	27.7	27.5	25.0	24.7	24.5
EGRPS 1-slot	**27.0**	**27.4**	26.9	26.6	26.6	17.9	17.6	17.6
EGPRS 2-slot	**27.0**	**27.4**	26.7	26.5	26.4	20.7	20.5	20.4
EGPRS 3-slot	**26.0**	**26.4**	26.0	25.7	25.7	21.7	21.4	21.4
EGPRS 4-slot	**24.8**	**25.2**	24.8	24.6	24.5	21.8	21.6	21.5

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3.1.4 GSM850 Antenna 2 Head, Body-worn and Wireless Router / RM-1064

GSM 850								
SN: 004402741051514			Conducted power (dBm)			Time-averaged power (dBm)		
Slot configuration	Tuning target (dBm)	Upper limit (dBm)	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 1-slot	**32.5**	**32.9**	32.1	32.0	32.0	23.1	23.0	23.0
GPRS 2-slot	**31.8**	**32.2**	31.6	31.6	31.5	**25.6**	**25.6**	25.5
GPRS 3-slot	**29.8**	**30.2**	29.8	29.6	29.4	25.5	25.3	25.1
GPRS 4-slot	**28.0**	**28.4**	28.0	27.5	27.5	25.0	24.5	24.5
EGRPS 1-slot	**27.0**	**27.4**	26.9	26.5	26.6	17.9	17.5	17.6
EGPRS 2-slot	**27.0**	**27.4**	26.7	26.5	26.4	20.7	20.5	20.4
EGPRS 3-slot	**26.0**	**26.4**	26.0	25.6	25.5	21.7	21.3	21.2
EGPRS 4-slot	**24.8**	**25.2**	24.8	24.5	24.5	21.8	21.5	21.5

3.1.5 GSM1900 Antenna 1 Head, Body-worn and Wireless Router / RM-1065

GSM 1900								
SN:004402741070787			Conducted power (dBm)			Time-averaged power (dBm)		
Slot configuration	Tuning target (dBm)	Upper limit (dBm)	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 1-slot	**29.5**	**29.9**	29.5	29.4	29.3	20.5	20.4	20.3
GPRS 2-slot	**28.5**	**28.9**	28.6	28.6	28.5	22.6	22.6	22.5
GPRS 3-slot	**27.0**	**27.4**	26.9	26.9	26.7	**22.6**	**22.6**	22.4
GPRS 4-slot	**25.5**	**25.9**	25.5	25.5	25.3	22.5	22.5	22.3
EGRPS 1-slot	**26.0**	**26.4**	26.2	26.0	25.9	17.2	17.0	16.9
EGPRS 2-slot	**25.5**	**25.9**	25.9	25.7	25.7	19.9	19.7	19.7
EGPRS 3-slot	**25.5**	**25.9**	25.8	25.6	25.5	21.5	21.3	21.2
EGPRS 4-slot	**25.0**	**25.4**	25.2	25.0	24.9	22.2	22.0	21.9

3.1.6 GSM1900 Antenna 1 Head, Body-worn and Wireless Router / RM-1064

GSM 1900								
SN: 004402741051449			Conducted power (dBm)			Time-averaged power (dBm)		
Slot configuration	Tuning target (dBm)	Upper limit (dBm)	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 1-slot	**29.5**	**29.9**	29.4	29.3	29.3	20.4	20.3	20.3
GPRS 2-slot	**28.5**	**28.9**	28.6	28.5	28.4	22.6	22.5	22.4
GPRS 3-slot	**27.0**	**27.4**	27.0	26.8	26.6	22.7	22.5	22.3
GPRS 4-slot	**25.5**	**25.9**	25.7	25.5	25.6	**22.7**	22.5	22.6
EGRPS 1-slot	**26.0**	**26.4**	26.1	26.0	25.9	17.1	17.0	16.9
EGPRS 2-slot	**25.5**	**25.9**	25.9	25.7	25.6	19.9	19.7	19.6
EGPRS 3-slot	**25.5**	**25.9**	25.8	25.6	25.4	21.5	21.3	21.1
EGPRS 4-slot	**25.0**	**25.4**	25.2	24.9	24.9	22.2	21.9	21.9

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3.1.7 GSM1900 Antenna 2 Head, Body-worn and Wireless Router / RM-1065

GSM 1900								
SN:004402741070787			Conducted power (dBm)			Time-averaged power (dBm)		
Slot configuration	Tuning target (dBm)	Upper limit (dBm)	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 1-slot	29.5	29.9	29.1	29.0	28.9	20.1	20.0	19.9
GPRS 2-slot	28.5	28.9	28.2	28.2	28.1	22.2	22.2	22.1
GPRS 3-slot	27.0	27.4	26.5	26.5	26.3	**22.2**	**22.2**	22.0
GPRS 4-slot	25.5	25.9	25.1	25.1	24.9	22.1	22.1	21.9
EGRPS 1-slot	26.0	26.4	25.8	25.6	25.5	16.8	16.6	16.5
EGPRS 2-slot	25.5	25.9	25.5	25.3	25.3	19.5	19.3	19.3
EGPRS 3-slot	25.5	25.9	25.4	25.2	25.1	21.1	20.9	20.8
EGPRS 4-slot	25.0	25.4	24.8	24.6	24.5	21.8	21.6	21.5

3.1.8 GSM1900 Antenna 2 Head, Body-worn and Wireless Router / RM-1064

GSM 1900								
SN: 004402741051449			Conducted power (dBm)			Time-averaged power (dBm)		
Slot configuration	Tuning target (dBm)	Upper limit (dBm)	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 1-slot	29.5	29.9	29.0	28.9	28.9	20.0	19.9	19.9
GPRS 2-slot	28.5	28.9	28.2	28.1	28.0	22.2	22.1	22.0
GPRS 3-slot	27.0	27.4	26.6	26.4	26.2	22.3	22.1	21.9
GPRS 4-slot	25.5	25.9	25.3	25.1	25.2	**22.3**	22.1	22.2
EGRPS 1-slot	26.0	26.4	25.7	25.6	25.5	16.7	16.6	16.5
EGPRS 2-slot	25.5	25.9	25.5	25.3	25.2	19.5	19.3	19.2
EGPRS 3-slot	25.5	25.9	25.4	25.2	25.0	21.1	20.9	20.7
EGPRS 4-slot	25.0	25.4	24.8	24.5	24.5	21.8	21.5	21.5

3.2 WCDMA

3.2.1 WCDMA850 (Band 5) Antenna 1 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741071728	WCDMA 5				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 4132 826.4 MHz	CH 4175 835.0 MHz	CH 4233 846.6 MHz
WCDMA	23.5	23.9	23.6	23.4	23.4
HSUPA Sub-mode 1	22.5	22.9	22.6	22.0	22.4
HSUPA Sub-mode 2	20.5	20.9	21.0	21.0	21.3
HSUPA Sub-mode 3	21.5	21.9	21.4	20.7	20.9
HSUPA Sub-mode 4	20.5	20.9	22.0	21.9	21.9
HSUPA Sub-mode 5	22.5	22.9	22.5	22.4	22.4
DC-HSDPA Sub-mode 1	22.5	22.9	22.4	22.4	22.4
DC-HSDPA Sub-mode 2	22.5	22.9	22.5	22.5	22.4
DC-HSDPA Sub-mode 3	22	22.4	22.1	22.0	21.9
DC-HSDPA Sub-mode 4	22	22.4	22.1	21.9	21.9

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3.2.2 WCDMA850 (Band 5) Antenna 1 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051514	WCDMA 5				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 4132 826.4 MHz	CH 4175 835.0 MHz	CH 4233 846.6 MHz
WCDMA	**23.5**	**23.9**	23.1	23.1	23.1
HSUPA Sub-mode 1	**22.5**	**22.9**	22.0	22.2	21.6
HSUPA Sub-mode 2	**20.5**	**20.9**	21.2	21.0	21.2
HSUPA Sub-mode 3	**21.5**	**21.9**	20.9	21.2	20.9
HSUPA Sub-mode 4	**20.5**	**20.9**	21.7	21.7	21.7
HSUPA Sub-mode 5	**22.5**	**22.9**	22.2	22.2	22.2
DC-HSDPA Sub-mode 1	**22.5**	**22.9**	22.2	22.1	22.1
DC-HSDPA Sub-mode 2	**22.5**	**22.9**	22.2	22.1	22.2
DC-HSDPA Sub-mode 3	**22**	**22.4**	21.7	21.5	21.7
DC-HSDPA Sub-mode 4	**22**	**22.4**	21.8	21.7	21.7

3.2.3 WCDMA850 (Band 5) Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741071728	WCDMA 5				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 4132 826.4 MHz	CH 4175 835.0 MHz	CH 4233 846.6 MHz
WCDMA	**23.5**	**23.9**	23.2	23.0	23.0
HSUPA Sub-mode 1	**22.5**	**22.9**	22.2	21.6	22.0
HSUPA Sub-mode 2	**20.5**	**20.9**	20.6	20.6	20.9
HSUPA Sub-mode 3	**21.5**	**21.9**	21.0	20.3	20.5
HSUPA Sub-mode 4	**20.5**	**20.9**	21.6	21.5	21.5
HSUPA Sub-mode 5	**22.5**	**22.9**	22.1	22.0	22.0
DC-HSDPA Sub-mode 1	**22.5**	**22.9**	22.0	22.0	22.0
DC-HSDPA Sub-mode 2	**22.5**	**22.9**	22.1	22.1	22.0
DC-HSDPA Sub-mode 3	**22**	**22.4**	21.7	21.6	21.5
DC-HSDPA Sub-mode 4	**22**	**22.4**	21.7	21.5	21.5

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3.2.4 WCDMA850 (Band 5) Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051514	WCDMA 5				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 4132 826.4 MHz	CH 4175 835.0 MHz	CH 4233 846.6 MHz
WCDMA	**23.5**	**23.9**	22.9	22.9	22.9
HSUPA Sub-mode 1	**22.5**	**22.9**	21.8	22.0	21.4
HSUPA Sub-mode 2	**20.5**	**20.9**	21.0	20.8	21.0
HSUPA Sub-mode 3	**21.5**	**21.9**	20.7	21.0	20.7
HSUPA Sub-mode 4	**20.5**	**20.9**	21.5	21.5	21.5
HSUPA Sub-mode 5	**22.5**	**22.9**	22.0	22.0	22.0
DC-HSDPA Sub-mode 1	**22.5**	**22.9**	22.0	21.9	21.9
DC-HSDPA Sub-mode 2	**22.5**	**22.9**	22.0	21.9	22.0
DC-HSDPA Sub-mode 3	**22**	**22.4**	21.5	21.3	21.5
DC-HSDPA Sub-mode 4	**22**	**22.4**	21.6	21.5	21.5

3.2.5 WCDMA1700/2100 (Band 4) Antenna 1 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070704	WCDMA 4				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 1312 1712.4 MHz	CH 1412 1732.4 MHz	CH 1513 1752.6 MHz
WCDMA	**23.2**	**23.6**	23.1	23.1	23.1
HSUPA Sub-mode 1	**22.2**	**22.6**	22.0	21.4	22.2
HSUPA Sub-mode 2	**20.2**	**20.6**	20.6	20.9	21.0
HSUPA Sub-mode 3	**21.2**	**21.6**	20.4	20.6	21.3
HSUPA Sub-mode 4	**20.2**	**20.6**	20.9	21.6	21.6
HSUPA Sub-mode 5	**22.2**	**22.6**	22.1	22.1	22.2
DC-HSDPA Sub-mode 1	**22.2**	**22.6**	22.1	22.0	22.1
DC-HSDPA Sub-mode 2	**22.2**	**22.6**	22.1	22.0	22.1
DC-HSDPA Sub-mode 3	**21.8**	**22.2**	21.6	21.6	21.6
DC-HSDPA Sub-mode 4	**21.8**	**22.2**	21.6	21.6	21.6

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3.2.6 WCDMA1700/2100 (Band 4) Antenna 1 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051431	WCDMA 4				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 1312 1712.4 MHz	CH 1412 1732.4 MHz	CH 1513 1752.6 MHz
WCDMA	**23.2**	**23.6**	23.1	23.1	23.0
HSUPA Sub-mode 1	**22.2**	**22.6**	21.9	21.5	22.2
HSUPA Sub-mode 2	**20.2**	**20.6**	20.8	21.0	20.9
HSUPA Sub-mode 3	**21.2**	**21.6**	21.1	20.4	21.1
HSUPA Sub-mode 4	**20.2**	**20.6**	21.7	21.6	21.7
HSUPA Sub-mode 5	**22.2**	**22.6**	22.1	22.1	22.2
DC-HSDPA Sub-mode 1	**22.2**	**22.6**	22.1	22.1	22.1
DC-HSDPA Sub-mode 2	**22.2**	**22.6**	22.1	22.1	22.1
DC-HSDPA Sub-mode 3	**21.8**	**22.2**	21.6	21.6	21.7
DC-HSDPA Sub-mode 4	**21.8**	**22.2**	21.6	21.7	21.6

3.2.7 WCDMA1700/2100 (Band 4) Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070704	WCDMA 4				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 1312 1712.4 MHz	CH 1412 1732.4 MHz	CH 1513 1752.6 MHz
WCDMA	**23.2**	**23.6**	22.7	22.7	22.7
HSUPA Sub-mode 1	**22.2**	**22.6**	21.6	21.0	21.8
HSUPA Sub-mode 2	**20.2**	**20.6**	20.2	20.5	20.6
HSUPA Sub-mode 3	**21.2**	**21.6**	20.0	20.2	20.9
HSUPA Sub-mode 4	**20.2**	**20.6**	20.5	21.2	21.2
HSUPA Sub-mode 5	**22.2**	**22.6**	21.7	21.7	21.8
DC-HSDPA Sub-mode 1	**22.2**	**22.6**	21.7	21.6	21.7
DC-HSDPA Sub-mode 2	**22.2**	**22.6**	21.7	21.6	21.7
DC-HSDPA Sub-mode 3	**21.8**	**22.2**	21.2	21.2	21.2
DC-HSDPA Sub-mode 4	**21.8**	**22.2**	21.2	21.2	21.2

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3.2.8 WCDMA1700/2100 (Band 4) Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051431	WCDMA 4				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 1312 1712.4 MHz	CH 1412 1732.4 MHz	CH 1513 1752.6 MHz
WCDMA	**23.2**	**23.6**	22.7	22.7	22.6
HSUPA Sub-mode 1	**22.2**	**22.6**	21.5	21.1	21.8
HSUPA Sub-mode 2	**20.2**	**20.6**	20.4	20.6	20.5
HSUPA Sub-mode 3	**21.2**	**21.6**	20.7	20.0	20.7
HSUPA Sub-mode 4	**20.2**	**20.6**	21.3	21.2	21.3
HSUPA Sub-mode 5	**22.2**	**22.6**	21.7	21.7	21.8
DC-HSDPA Sub-mode 1	**22.2**	**22.6**	21.7	21.7	21.7
DC-HSDPA Sub-mode 2	**22.2**	**22.6**	21.7	21.7	21.7
DC-HSDPA Sub-mode 3	**21.8**	**22.2**	21.2	21.2	21.3
DC-HSDPA Sub-mode 4	**21.8**	**22.2**	21.2	21.3	21.2

3.2.9 WCDMA1900 (Band 2) Antenna 1 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741071660	WCDMA 2				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 9262 1852.4 MHz	CH 9400 1880.0 MHz	CH 9538 1907.6 MHz
WCDMA	**23.5**	**23.9**	23.0	23.2	23.0
HSUPA Sub-mode 1	**22.5**	**22.9**	21.8	21.6	22.1
HSUPA Sub-mode 2	**20.5**	**20.9**	21.2	21.2	20.7
HSUPA Sub-mode 3	**21.5**	**21.9**	20.9	20.9	20.4
HSUPA Sub-mode 4	**20.5**	**20.9**	21.7	21.1	21.6
HSUPA Sub-mode 5	**22.5**	**22.9**	22.3	22.3	22.1
DC-HSDPA Sub-mode 1	**22.5**	**22.9**	22.2	22.2	22.1
DC-HSDPA Sub-mode 2	**22.5**	**22.9**	22.2	22.2	22.1
DC-HSDPA Sub-mode 3	**22**	**22.4**	21.7	21.8	21.5
DC-HSDPA Sub-mode 4	**22**	**22.4**	21.7	21.8	21.6

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3.2.10 WCDMA1900 (Band 2) Antenna 1 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051449	WCDMA 2				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 9262 1852.4 MHz	CH 9400 1880.0 MHz	CH 9538 1907.6 MHz
WCDMA	**23.5**	**23.9**	23.1	23.4	23.1
HSUPA Sub-mode 1	**22.5**	**22.9**	22.1	21.7	22.1
HSUPA Sub-mode 2	**20.5**	**20.9**	21.3	21.3	20.7
HSUPA Sub-mode 3	**21.5**	**21.9**	21.0	21.0	21.1
HSUPA Sub-mode 4	**20.5**	**20.9**	21.8	21.9	21.7
HSUPA Sub-mode 5	**22.5**	**22.9**	22.3	22.4	22.2
DC-HSDPA Sub-mode 1	**22.5**	**22.9**	22.2	22.4	22.2
DC-HSDPA Sub-mode 2	**22.5**	**22.9**	22.2	22.4	22.2
DC-HSDPA Sub-mode 3	**22**	**22.4**	21.7	21.9	21.6
DC-HSDPA Sub-mode 4	**22**	**22.4**	21.7	21.9	21.6

3.2.11 WCDMA1900 (Band 2) Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741071660	WCDMA 2				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 9262 1852.4 MHz	CH 9400 1880.0 MHz	CH 9538 1907.6 MHz
WCDMA	**23.5**	**23.9**	22.6	22.8	22.6
HSUPA Sub-mode 1	**22.5**	**22.9**	21.4	21.2	21.7
HSUPA Sub-mode 2	**20.5**	**20.9**	20.8	20.8	20.3
HSUPA Sub-mode 3	**21.5**	**21.9**	20.5	20.5	20.0
HSUPA Sub-mode 4	**20.5**	**20.9**	21.3	20.7	21.2
HSUPA Sub-mode 5	**22.5**	**22.9**	21.9	21.9	21.7
DC-HSDPA Sub-mode 1	**22.5**	**22.9**	21.8	21.8	21.7
DC-HSDPA Sub-mode 2	**22.5**	**22.9**	21.8	21.8	21.7
DC-HSDPA Sub-mode 3	**22**	**22.4**	21.3	21.4	21.1
DC-HSDPA Sub-mode 4	**22**	**22.4**	21.3	21.4	21.2

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3.2.12 WCDMA1900 (Band 2) Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051449	WCDMA 2				
Mode	Tuning target (dBm)	Upper limit (dBm)	CH 9262 1852.4 MHz	CH 9400 1880.0 MHz	CH 9538 1907.6 MHz
WCDMA	**23.5**	**23.9**	22.7	23.0	22.7
HSUPA Sub-mode 1	**22.5**	**22.9**	21.7	21.3	21.7
HSUPA Sub-mode 2	**20.5**	**20.9**	20.9	20.9	20.3
HSUPA Sub-mode 3	**21.5**	**21.9**	20.6	20.6	20.7
HSUPA Sub-mode 4	**20.5**	**20.9**	21.4	21.5	21.3
HSUPA Sub-mode 5	**22.5**	**22.9**	21.9	22.0	21.8
DC-HSDPA Sub-mode 1	**22.5**	**22.9**	21.8	22.0	21.8
DC-HSDPA Sub-mode 2	**22.5**	**22.9**	21.8	22.0	21.8
DC-HSDPA Sub-mode 3	**22**	**22.4**	21.3	21.5	21.2
DC-HSDPA Sub-mode 4	**22**	**22.4**	21.3	21.5	21.2

3.3 LTE

3.3.1 LTE700 (Band 12), Antenna 1 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23017 / 699.7 MHz	Ch23095 / 707.5 MHz	Ch23173 / 715.3 MHz	Ch23017 / 699.7 MHz	Ch23095 / 707.5 MHz	Ch23173 / 715.3 MHz
LTE12 1.4 MHz	QPSK	1	0	**23.0**	**23.4**	23.1	23.0	23.1			
		1	2	**23.0**	**23.4**	23.2	23.0	23.0			
		1	5	**23.0**	**23.4**	23.1	23.0	23.1			
		3	0	**23.0**	**23.4**	23.3	23.0	23.1			
		3	2	**23.0**	**23.4**	23.3	23.0	23.1			
		3	3	**23.0**	**23.4**	23.3	23.0	23.1			
		6	0	**22.0**	**22.4**	22.3	22.1	22.0			
	16QAM	1	0	**22.0**	**22.4**	22.1	22.0	22.2			
		1	2	**22.0**	**22.4**	21.9	22.2	22.2			
		1	5	**22.0**	**22.4**	22.2	22.1	22.2			
		3	0	**22.0**	**22.4**	22.2	22.0	22.0			
		3	2	**22.0**	**22.4**	22.1	22.0	22.0			
		3	3	**22.0**	**22.4**	22.1	22.0	22.1			
		6	0	**21.0**	**21.4**	21.1	21.0	21.1			

(LTE700 (Band 12), Antenna 1/ RM-1065 table continues)

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(LTE700 (Band 12), Antenna 1/ RM-1065 table continues)

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23025 / 700.5 MHz	Ch23095 / 707.5 MHz	Ch23165 / 714.5 MHz	Ch23025 / 700.5 MHz	Ch23095 / 707.5 MHz	Ch23165 / 714.5 MHz
LTE12 3 MHz	QPSK	1	0	23.0	23.4	23.1	22.9	23.1			
		1	7	23.0	23.4	23.1	23.0	23.0			
		1	14	23.0	23.4	23.1	23.1	23.0			
		8	0	22.0	22.4	22.2	22.1	22.0			
		8	3	22.0	22.4	22.2	22.0	22.0			
		8	7	22.0	22.4	22.2	22.1	22.1			
		15	0	22.0	22.4	22.3	22.1	22.1			
	16QAM	1	0	22.0	22.4	21.8	21.8	22.1			
		1	7	22.0	22.4	21.9	21.9	22.1			
		1	14	22.0	22.4	21.9	21.9	22.1			
		8	0	21.0	21.4	21.1	21.0	21.0			
		8	3	21.0	21.4	21.0	21.0	21.0			
		8	7	21.0	21.4	21.0	21.0	21.1			
		15	0	21.0	21.4	21.1	21.0	21.0			

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23035 / 701.5 MHz	Ch23095 / 707.5 MHz	Ch23155 / 713.5 MHz	Ch23035 / 701.5 MHz	Ch23095 / 707.5 MHz	Ch23155 / 713.5 MHz
LTE12 5 MHz	QPSK	1	0	23.0	23.4	23.1	22.9	23.1			
		1	12	23.0	23.4	23.1	23.0	23.1			
		1	24	23.0	23.4	23.1	23.0	23.1			
		12	0	22.0	22.4	22.1	22.0	22.0			
		12	6	22.0	22.4	22.1	22.0	22.0			
		12	13	22.0	22.4	22.2	22.0	22.0			
		25	0	22.0	22.4	22.3	22.0	22.0			
	16QAM	1	0	22.0	22.4	22.0	22.0	22.2			
		1	12	22.0	22.4	22.1	22.1	22.1			
		1	24	22.0	22.4	22.1	22.1	22.1			
		12	0	21.0	21.4	21.0	21.1	21.1			
		12	6	21.0	21.4	21.0	21.1	21.1			
		12	13	21.0	21.4	21.1	21.0	21.1			
		25	0	21.0	21.4	21.1	21.1	21.0			

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23060 / 704 MHz	Ch23095 / 707.5 MHz	Ch23130 / 711 MHz	Ch23060 / 704 MHz	Ch23095 / 707.5 MHz	Ch23130 / 711 MHz
LTE12 10 MHz	QPSK	1	0	23.0	23.4	23.1	22.9	23.0			
		1	24	23.0	23.4	23.0	23.0	23.0			
		1	49	23.0	23.4	23.1	23.1	23.0			
		25	0	22.0	22.4	22.1	22.1	21.9			
		25	12	22.0	22.4	22.2	22.0	22.0			
		25	25	22.0	22.4	22.2	22.0	22.0			
		50	0	22.0	22.4	22.3	22.1	22.1			
	16QAM	1	0	22.0	22.4	21.8	21.8	22.1			
		1	24	22.0	22.4	21.8	21.9	22.1			
		1	49	22.0	22.4	21.9	21.9	22.2			
		25	0	21.0	21.4	21.1	21.0	21.0			
		25	12	21.0	21.4	21.1	20.9	21.0			
		25	25	21.0	21.4	21.0	21.0	21.0			
		50	0	21.0	21.4	21.1	21.0	20.9			

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3.3.2 LTE700 (Band 12), Antenna 1 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23017 / 699.7 MHz	Ch23095 / 707.5 MHz	Ch23173 / 715.3 MHz	Ch23017 / 699.7 MHz	Ch23095 / 707.5 MHz	Ch23173 / 715.3 MHz
LTE12 1.4 MHz	QPSK	1	0	23.0	23.4	23.2	23.1	23.0			
		1	2	23.0	23.4	23.2	23.1	23.0			
		1	5	23.0	23.4	23.2	23.0	23.0			
		3	0	23.0	23.4	23.3	23.1	23.1			
		3	2	23.0	23.4	23.3	23.1	23.1			
		3	3	23.0	23.4	23.2	23.2	23.1			
		6	0	22.0	22.4	22.3	22.2	22.1			
	16QAM	1	0	22.0	22.4	22.2	22.0	22.0			
		1	2	22.0	22.4	22.1	22.0	21.9			
		1	5	22.0	22.4	22.0	22.0	22.0			
		3	0	22.0	22.4	22.3	22.1	22.0			
		3	2	22.0	22.4	22.1	22.1	22.0			
		3	3	22.0	22.4	22.2	22.1	22.0			
		6	0	21.0	21.4	21.3	21.1	21.0			

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23025 / 700.5 MHz	Ch23095 / 707.5 MHz	Ch23165 / 714.5 MHz	Ch23025 / 700.5 MHz	Ch23095 / 707.5 MHz	Ch23165 / 714.5 MHz
LTE12 3 MHz	QPSK	1	0	23.0	23.4	23.1	23.1	23.1			
		1	7	23.0	23.4	23.1	22.9	23.0			
		1	14	23.0	23.4	23.1	23.1	23.1			
		8	0	22.0	22.4	22.1	21.9	22.0			
		8	3	22.0	22.4	22.2	22.0	22.1			
		8	7	22.0	22.4	22.1	22.0	22.0			
		15	0	22.0	22.4	22.3	22.1	22.2			
	16QAM	1	0	22.0	22.4	22.1	22.2	22.2			
		1	7	22.0	22.4	22.1	22.1	22.1			
		1	14	22.0	22.4	22.1	22.3	22.2			
		8	0	21.0	21.4	21.1	21.0	21.0			
		8	3	21.0	21.4	21.2	21.0	21.0			
		8	7	21.0	21.4	21.2	21.0	21.0			
		15	0	21.0	21.4	21.2	21.0	21.1			

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23035 / 701.5 MHz	Ch23095 / 707.5 MHz	Ch23155 / 713.5 MHz	Ch23035 / 701.5 MHz	Ch23095 / 707.5 MHz	Ch23155 / 713.5 MHz
LTE12 5 MHz	QPSK	1	0	23.0	23.4	23.0	23.0	23.1			
		1	12	23.0	23.4	22.9	22.9	23.0			
		1	24	23.0	23.4	23.0	23.1	23.0			
		12	0	22.0	22.4	22.1	22.0	22.0			
		12	6	22.0	22.4	22.3	22.0	22.0			
		12	13	22.0	22.4	22.0	22.0	22.0			
		25	0	22.0	22.4	22.2	22.0	22.0			
	16QAM	1	0	22.0	22.4	21.9	21.9	22.0			
		1	12	22.0	22.4	21.8	21.8	21.9			
		1	24	22.0	22.4	22.0	22.0	21.9			
		12	0	21.0	21.4	21.1	21.1	21.0			
		12	6	21.0	21.4	21.1	21.0	21.0			
		12	13	21.0	21.4	21.0	21.0	21.0			
		25	0	21.0	21.4	21.1	21.1	21.0			

(LTE700 (Band 12), Antenna 1/ RM-1064 table continues)

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(LTE700 (Band 12), Antenna 1/ RM-1064 table continues)

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23060 / 704 MHz	Ch23095 / 707.5 MHz	Ch23130 / 711 MHz	Ch23060 / 704 MHz	Ch23095 / 707.5 MHz	Ch23130 / 711 MHz
LTE12 10 MHz	QPSK	1	0	23.0	23.4	23.0	22.9	22.9			
		1	24	23.0	23.4	23.0	22.9	23.1			
		1	49	23.0	23.4	23.0	23.0	23.0			
		25	0	22.0	22.4	22.1	22.1	22.1			
		25	12	22.0	22.4	22.2	22.1	22.0			
		25	25	22.0	22.4	22.1	22.0	22.1			
		50	0	22.0	22.4	22.2	22.0	22.1			
	16QAM	1	0	22.0	22.4	22.1	22.0	22.1			
		1	24	22.0	22.4	22.1	22.0	22.2			
		1	49	22.0	22.4	22.0	22.1	22.2			
		25	0	21.0	21.4	21.1	21.0	21.0			
		25	12	21.0	21.4	21.1	21.0	21.0			
		25	25	21.0	21.4	21.0	21.0	21.0			
		50	0	21.0	21.4	21.0	21.0	21.0			

3.3.3 LTE700 (Band 12), Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23017 / 699.7 MHz	Ch23095 / 707.5 MHz	Ch23173 / 715.3 MHz	Ch23017 / 699.7 MHz	Ch23095 / 707.5 MHz	Ch23173 / 715.3 MHz
LTE12 1.4 MHz	QPSK	1	0	23.0	23.4	22.9	22.8	22.9			
		1	2	23.0	23.4	23.0	22.8	22.8			
		1	5	23.0	23.4	22.9	22.8	22.9			
		3	0	23.0	23.4	23.1	22.8	22.9			
		3	2	23.0	23.4	23.1	22.8	22.9			
		3	3	23.0	23.4	23.1	22.8	22.9			
		6	0	22.0	22.4	22.1	21.9	21.8			
	16QAM	1	0	22.0	22.4	21.9	21.8	22.0			
		1	2	22.0	22.4	21.7	22.0	22.0			
		1	5	22.0	22.4	22.0	21.9	22.0			
		3	0	22.0	22.4	22.0	21.8	21.8			
		3	2	22.0	22.4	21.9	21.8	21.8			
		3	3	22.0	22.4	21.9	21.8	21.9			
		6	0	21.0	21.4	20.9	20.8	20.9			
SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23025 / 700.5 MHz	Ch23095 / 707.5 MHz	Ch23165 / 714.5 MHz	Ch23025 / 700.5 MHz	Ch23095 / 707.5 MHz	Ch23165 / 714.5 MHz
LTE12 3 MHz	QPSK	1	0	23.0	23.4	22.9	22.7	22.9			
		1	7	23.0	23.4	22.9	22.8	22.8			
		1	14	23.0	23.4	22.9	22.9	22.8			
		8	0	22.0	22.4	22.0	21.9	21.8			
		8	3	22.0	22.4	22.0	21.8	21.8			
		8	7	22.0	22.4	22.0	21.9	21.9			
		15	0	22.0	22.4	22.1	21.9	21.9			
	16QAM	1	0	22.0	22.4	21.6	21.6	21.9			
		1	7	22.0	22.4	21.7	21.7	21.9			
		1	14	22.0	22.4	21.7	21.7	21.9			
		8	0	21.0	21.4	20.9	20.8	20.8			
		8	3	21.0	21.4	20.8	20.8	20.8			
		8	7	21.0	21.4	20.8	20.8	20.9			
		15	0	21.0	21.4	20.9	20.8	20.8			

(LTE700 (Band 12), Antenna 2/ RM-1065 table continues)

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(LTE700 (Band 12), Antenna 2/ RM-1065 table continues)

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23035 / 701.5 MHz	Ch23095 / 707.5 MHz	Ch23155 / 713.5 MHz	Ch23035 / 701.5 MHz	Ch23095 / 707.5 MHz	Ch23155 / 713.5 MHz
LTE12 5 MHz	QPSK	1	0	23.0	23.4	22.9	22.7	22.9			
		1	12	23.0	23.4	22.9	22.8	22.9			
		1	24	23.0	23.4	22.9	22.8	22.9			
		12	0	22.0	22.4	21.9	21.8	21.8			
		12	6	22.0	22.4	21.9	21.8	21.8			
		12	13	22.0	22.4	22.0	21.8	21.8			
		25	0	22.0	22.4	22.1	21.8	21.8			
	16QAM	1	0	22.0	22.4	21.8	21.8	22.0			
		1	12	22.0	22.4	21.9	21.9	21.9			
		1	24	22.0	22.4	21.9	21.9	21.9			
		12	0	21.0	21.4	20.8	20.9	20.9			
		12	6	21.0	21.4	20.8	20.9	20.9			
		12	13	21.0	21.4	20.9	20.8	20.9			
		25	0	21.0	21.4	20.9	20.9	20.8			

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23060 / 704 MHz	Ch23095 / 707.5 MHz	Ch23130 / 711 MHz	Ch23060 / 704 MHz	Ch23095 / 707.5 MHz	Ch23130 / 711 MHz
LTE12 10 MHz	QPSK	1	0	23.0	23.4	22.9	22.7	22.8			
		1	24	23.0	23.4	22.8	22.8	22.8			
		1	49	23.0	23.4	22.9	22.9	22.8			
		25	0	22.0	22.4	21.9	21.9	21.7			
		25	12	22.0	22.4	22.0	21.8	21.8			
		25	25	22.0	22.4	22.0	21.8	21.8			
		50	0	22.0	22.4	22.1	21.9	21.9			
	16QAM	1	0	22.0	22.4	21.6	21.6	21.9			
		1	24	22.0	22.4	21.6	21.7	21.9			
		1	49	22.0	22.4	21.7	21.7	22.0			
		25	0	21.0	21.4	20.9	20.8	20.8			
		25	12	21.0	21.4	20.9	20.7	20.8			
		25	25	21.0	21.4	20.8	20.8	20.8			
		50	0	21.0	21.4	20.9	20.8	20.7			

3.3.4 LTE700 (Band 12), Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23017 / 699.7 MHz	Ch23095 / 707.5 MHz	Ch23173 / 715.3 MHz	Ch23017 / 699.7 MHz	Ch23095 / 707.5 MHz	Ch23173 / 715.3 MHz
LTE12 1.4 MHz	QPSK	1	0	23.0	23.4	23.0	22.9	22.8			
		1	2	23.0	23.4	23.0	22.9	22.8			
		1	5	23.0	23.4	23.0	22.8	22.8			
		3	0	23.0	23.4	23.1	22.9	22.9			
		3	2	23.0	23.4	23.1	22.9	22.9			
		3	3	23.0	23.4	23.0	23.0	22.9			
		6	0	22.0	22.4	22.1	22.0	21.9			
	16QAM	1	0	22.0	22.4	22.0	21.8	21.8			
		1	2	22.0	22.4	21.9	21.8	21.7			
		1	5	22.0	22.4	21.8	21.8	21.8			
		3	0	22.0	22.4	22.1	21.9	21.8			
		3	2	22.0	22.4	21.9	21.9	21.8			
		3	3	22.0	22.4	22.0	21.9	21.8			
		6	0	21.0	21.4	21.1	20.9	20.8			

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SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23025 / 700.5 MHz	Ch23095 / 707.5 MHz	Ch23165 / 714.5 MHz	Ch23025 / 700.5 MHz	Ch23095 / 707.5 MHz	Ch23165 / 714.5 MHz
LTE12 3 MHz	QPSK	1	0	23.0	23.4	22.9	22.9	22.9			
		1	7	23.0	23.4	22.9	22.7	22.8			
		1	14	23.0	23.4	22.9	22.9	22.9			
		8	0	22.0	22.4	21.9	21.7	21.8			
		8	3	22.0	22.4	22.0	21.8	21.9			
		8	7	22.0	22.4	21.9	21.8	21.8			
		15	0	22.0	22.4	22.1	21.9	22.0			
	16QAM	1	0	22.0	22.4	21.9	22.0	22.0			
		1	7	22.0	22.4	21.9	21.9	21.9			
		1	14	22.0	22.4	21.9	22.1	22.0			
		8	0	21.0	21.4	20.9	20.8	20.8			
		8	3	21.0	21.4	21.0	20.8	20.8			
		8	7	21.0	21.4	21.0	20.8	20.8			
		15	0	21.0	21.4	21.0	20.8	20.9			

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23035 / 701.5 MHz	Ch23095 / 707.5 MHz	Ch23155 / 713.5 MHz	Ch23035 / 701.5 MHz	Ch23095 / 707.5 MHz	Ch23155 / 713.5 MHz
LTE12 5 MHz	QPSK	1	0	23.0	23.4	22.8	22.8	22.9			
		1	12	23.0	23.4	22.7	22.7	22.8			
		1	24	23.0	23.4	22.8	22.9	22.8			
		12	0	22.0	22.4	21.9	21.8	21.8			
		12	6	22.0	22.4	22.1	21.8	21.8			
		12	13	22.0	22.4	21.8	21.8	21.8			
		25	0	22.0	22.4	22.0	21.8	21.8			
	16QAM	1	0	22.0	22.4	21.7	21.7	21.8			
		1	12	22.0	22.4	21.6	21.6	21.7			
		1	24	22.0	22.4	21.8	21.8	21.7			
		12	0	21.0	21.4	20.9	20.9	20.8			
		12	6	21.0	21.4	20.9	20.8	20.8			
		12	13	21.0	21.4	20.8	20.8	20.8			
		25	0	21.0	21.4	20.9	20.9	20.8			

(LTE700 (Band 12), Antenna 2/ RM-1064 table continues)

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(LTE700 (Band 12), Antenna 2/ RM-1064 table continues)

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23060 / 704 MHz	Ch23095 / 707.5 MHz	Ch23130 / 711 MHz	Ch23060 / 704 MHz	Ch23095 / 707.5 MHz	Ch23130 / 711 MHz
LTE12 10 MHz	QPSK	1	0	23.0	23.4	22.8	22.7	22.7			
		1	24	23.0	23.4	22.8	22.7	22.9			
		1	49	23.0	23.4	22.8	22.8	22.8			
		25	0	22.0	22.4	21.9	21.9	21.9			
		25	12	22.0	22.4	22.0	21.9	21.8			
		25	25	22.0	22.4	21.9	21.8	21.9			
		50	0	22.0	22.4	22.0	21.8	21.9			
	16QAM	1	0	22.0	22.4	21.9	21.8	21.9			
		1	24	22.0	22.4	21.9	21.8	22.0			
		1	49	22.0	22.4	21.8	21.9	22.0			
		25	0	21.0	21.4	20.9	20.8	20.8			
		25	12	21.0	21.4	20.9	20.8	20.8			
		25	25	21.0	21.4	20.8	20.8	20.8			
		50	0	21.0	21.4	20.8	20.8	20.8			

3.3.5 LTE700 (Band 17), Antenna 1 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23755 / 706.5 MHz	Ch23790 / 710 MHz	Ch23825 / 713.5 MHz	Ch23755 / 706.5 MHz	Ch23790 / 710 MHz	Ch23825 / 713.5 MHz
LTE17 5 MHz	QPSK	1	0	23.0	23.4	23.0	22.9	22.8			
		1	12	23.0	23.4	23.0	23.0	22.9			
		1	24	23.0	23.4	23.1	22.8	22.9			
		12	0	22.0	22.4	22.1	22.0	22.0			
		12	6	22.0	22.4	22.2	22.0	21.9			
		12	13	22.0	22.4	22.1	22.0	22.0			
		25	0	22.0	22.4	22.2	22.1	22.0			
	16QAM	1	0	22.0	22.4	21.9	21.8	22.0			
		1	12	22.0	22.4	21.9	21.8	22.1			
		1	24	22.0	22.4	21.9	21.8	22.0			
		12	0	21.0	21.4	21.1	21.0	21.0			
		12	6	21.0	21.4	21.1	21.0	21.0			
		12	13	21.0	21.4	21.1	21.1	21.0			
		25	0	21.0	21.4	21.0	21.0	20.9			
SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23780 / 709 MHz	Ch23790 / 710 MHz	Ch23800 / 711 MHz	Ch23780 / 709 MHz	Ch23790 / 710 MHz	Ch23800 / 711 MHz
LTE17 10 MHz	QPSK	1	0	23.0	23.4	22.9	22.8	22.8			
		1	24	23.0	23.4	23.1	23.0	23.0			
		1	49	23.0	23.4	23.0	22.9	22.9			
		25	0	22.0	22.4	22.1	22.0	22.0			
		25	12	22.0	22.4	22.2	22.1	22.1			
		25	25	22.0	22.4	22.2	22.1	22.0			
		50	0	22.0	22.4	22.3	22.1	22.1			
	16QAM	1	0	22.0	22.4	21.6	21.7	21.7			
		1	24	22.0	22.4	21.7	21.7	21.7			
		1	49	22.0	22.4	21.6	21.7	21.8			
		25	0	21.0	21.4	21.1	21.0	21.1			
		25	12	21.0	21.4	21.1	21.0	21.0			
		25	25	21.0	21.4	21.2	21.1	21.0			
		50	0	21.0	21.4	21.2	21.1	21.0			

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3.3.6 LTE700 (Band 17), Antenna 1 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23755 / 706.5 MHz	Ch23790 / 710 MHz	Ch23825 / 713.5 MHz	Ch23755 / 706.5 MHz	Ch23790 / 710 MHz	Ch23825 / 713.5 MHz
LTE17 5 MHz	QPSK	1	0	23.0	23.4	23.0	23.1	22.9			
		1	12	23.0	23.4	23.1	23.1	22.9			
		1	24	23.0	23.4	23.1	23.0	22.9			
		12	0	22.0	22.4	22.2	22.2	22.0			
		12	6	22.0	22.4	22.1	22.1	21.9			
		12	13	22.0	22.4	22.1	22.1	22.0			
		25	0	22.0	22.4	22.2	22.1	22.0			
	16QAM	1	0	22.0	22.4	22.0	22.1	22.0			
		1	12	22.0	22.4	22.1	22.1	22.0			
		1	24	22.0	22.4	21.9	22.1	22.0			
		12	0	21.0	21.4	21.2	21.1	21.0			
		12	6	21.0	21.4	21.2	21.1	21.0			
		12	13	21.0	21.4	21.1	21.0	21.0			
		25	0	21.0	21.4	21.2	21.1	21.0			
SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23780 / 709 MHz	Ch23790 / 710 MHz	Ch23800 / 711 MHz	Ch23780 / 709 MHz	Ch23790 / 710 MHz	Ch23800 / 711 MHz
LTE17 10 MHz	QPSK	1	0	23.0	23.4	22.9	23.0	23.0			
		1	24	23.0	23.4	23.1	23.0	23.0			
		1	49	23.0	23.4	23.0	23.0	22.9			
		25	0	22.0	22.4	22.2	22.0	22.0			
		25	12	22.0	22.4	22.1	22.0	22.1			
		25	25	22.0	22.4	22.2	22.1	22.0			
		50	0	22.0	22.4	22.2	22.0	22.1			
	16QAM	1	0	22.0	22.4	22.1	21.9	21.8			
		1	24	22.0	22.4	22.1	22.1	21.9			
		1	49	22.0	22.4	22.1	21.8	21.8			
		25	0	21.0	21.4	21.1	21.1	21.1			
		25	12	21.0	21.4	21.1	21.1	21.0			
		25	25	21.0	21.4	21.1	21.1	21.0			
		50	0	21.0	21.4	21.1	21.0	21.1			

3.3.7 LTE700 (Band 17), Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23755 / 706.5 MHz	Ch23790 / 710 MHz	Ch23825 / 713.5 MHz	Ch23755 / 706.5 MHz	Ch23790 / 710 MHz	Ch23825 / 713.5 MHz
LTE17 5 MHz	QPSK	1	0	23.0	23.4	22.8	22.7	22.6			
		1	12	23.0	23.4	22.8	22.8	22.7			
		1	24	23.0	23.4	22.9	22.6	22.7			
		12	0	22.0	22.4	21.9	21.8	21.8			
		12	6	22.0	22.4	22.0	21.8	21.7			
		12	13	22.0	22.4	21.9	21.8	21.8			
		25	0	22.0	22.4	22.0	21.9	21.8			
	16QAM	1	0	22.0	22.4	21.7	21.6	21.8			
		1	12	22.0	22.4	21.7	21.6	21.9			
		1	24	22.0	22.4	21.7	21.6	21.8			
		12	0	21.0	21.4	20.9	20.8	20.8			
		12	6	21.0	21.4	20.9	20.8	20.8			
		12	13	21.0	21.4	20.9	20.9	20.8			
		25	0	21.0	21.4	20.8	20.8	20.7			

(LTE700 (Band 17), Antenna 2/ RM-1065 table continues)

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(LTE700 (Band 17), Antenna 2/ RM-1065 table continues)

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23780 / 709 MHz	Ch23790 / 710 MHz	Ch23800 / 711 MHz	Ch23780 / 709 MHz	Ch23790 / 710 MHz	Ch23800 / 711 MHz
LTE17 10 MHz	QPSK	1	0	23.0	23.4	22.7	22.6	22.6			
		1	24	23.0	23.4	22.9	22.8	22.8			
		1	49	23.0	23.4	22.8	22.7	22.7			
		25	0	22.0	22.4	21.9	21.8	21.8			
		25	12	22.0	22.4	22.0	21.9	21.9			
		25	25	22.0	22.4	22.0	21.9	21.8			
		50	0	22.0	22.4	22.1	21.9	21.9			
	16QAM	1	0	22.0	22.4	21.4	21.5	21.5			
		1	24	22.0	22.4	21.5	21.5	21.5			
		1	49	22.0	22.4	21.4	21.5	21.6			
		25	0	21.0	21.4	20.9	20.8	20.9			
		25	12	21.0	21.4	20.9	20.8	20.8			
		25	25	21.0	21.4	21.0	20.9	20.8			
		50	0	21.0	21.4	21.0	20.9	20.8			

3.3.8 LTE700 (Band 17), Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23755 / 706.5 MHz	Ch23790 / 710 MHz	Ch23825 / 713.5 MHz	Ch23755 / 706.5 MHz	Ch23790 / 710 MHz	Ch23825 / 713.5 MHz
LTE17 5 MHz	QPSK	1	0	23.0	23.4	22.8	22.9	22.7			
		1	12	23.0	23.4	22.9	22.9	22.7			
		1	24	23.0	23.4	22.9	22.8	22.7			
		12	0	22.0	22.4	22.0	22.0	21.8			
		12	6	22.0	22.4	21.9	21.9	21.7			
		12	13	22.0	22.4	21.9	21.9	21.8			
		25	0	22.0	22.4	22.0	21.9	21.8			
	16QAM	1	0	22.0	22.4	21.8	21.9	21.8			
		1	12	22.0	22.4	21.9	21.9	21.8			
		1	24	22.0	22.4	21.7	21.9	21.8			
		12	0	21.0	21.4	21.0	20.9	20.8			
		12	6	21.0	21.4	21.0	20.9	20.8			
		12	13	21.0	21.4	20.9	20.8	20.8			
		25	0	21.0	21.4	21.0	20.9	20.8			
SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch23780 / 709 MHz	Ch23790 / 710 MHz	Ch23800 / 711 MHz	Ch23780 / 709 MHz	Ch23790 / 710 MHz	Ch23800 / 711 MHz
LTE17 10 MHz	QPSK	1	0	23.0	23.4	22.7	22.8	22.8			
		1	24	23.0	23.4	22.9	22.8	22.8			
		1	49	23.0	23.4	22.8	22.8	22.7			
		25	0	22.0	22.4	22.0	21.8	21.8			
		25	12	22.0	22.4	21.9	21.8	21.9			
		25	25	22.0	22.4	22.0	21.9	21.8			
		50	0	22.0	22.4	22.0	21.8	21.9			
	16QAM	1	0	22.0	22.4	21.9	21.7	21.6			
		1	24	22.0	22.4	21.9	21.9	21.7			
		1	49	22.0	22.4	21.9	21.6	21.6			
		25	0	21.0	21.4	20.9	20.9	20.9			
		25	12	21.0	21.4	20.9	20.9	20.8			
		25	25	21.0	21.4	20.9	20.9	20.8			
		50	0	21.0	21.4	20.9	20.8	20.9			

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3.3.9 LTE700 (Band 28a), Antenna 1 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27225 / 704.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz	Ch27225 / 704.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz
LTE28a 3 MHz	QPSK	1	0	23.0	23.4	23.0	22.9	22.9			
		1	7	23.0	23.4	23.0	23.0	22.9			
		1	14	23.0	23.4	23.0	22.9	23.0			
		8	0	22.0	22.4	22.1	22.0	21.9			
		8	3	22.0	22.4	22.1	22.0	21.9			
		8	7	22.0	22.4	22.1	22.0	21.9			
		15	0	22.0	22.4	22.2	22.0	21.9			
	16QAM	1	0	22.0	22.4	21.8	21.7	22.1			
		1	7	22.0	22.4	21.8	21.7	22.1			
		1	14	22.0	22.4	22.0	21.8	22.1			
		8	0	21.0	21.4	21.0	21.0	21.0			
		8	3	21.0	21.4	21.0	20.9	20.9			
		8	7	21.0	21.4	21.0	20.9	21.0			
		15	0	21.0	21.4	20.9	20.9	20.9			

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27235 / 705.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz	Ch27235 / 705.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz
LTE28a 5 MHz	QPSK	1	0	23.0	23.4	22.9	22.9	22.9	22.9	23.0	23.0
		1	12	23.0	23.4	23.0	22.9	22.9	22.9	22.9	22.9
		1	24	23.0	23.4	23.0	22.9	22.9	23.0	22.9	22.9
		12	0	22.0	22.4	22.1	22.0	21.9	22.0	21.9	21.9
		12	6	22.0	22.4	22.2	22.0	21.9	22.1	21.9	21.9
		12	13	22.0	22.4	22.2	21.9	22.0	22.0	21.9	21.9
		25	0	22.0	22.4	22.3	22.0	21.9	22.0	21.9	21.9
	16QAM	1	0	22.0	22.4	22.0	22.0	22.0	21.7	21.8	21.9
		1	12	22.0	22.4	22.0	22.0	22.1	21.7	21.7	21.9
		1	24	22.0	22.4	22.1	21.9	22.1	21.9	21.8	22.0
		12	0	21.0	21.4	21.0	20.9	20.9	20.9	20.9	21.0
		12	6	21.0	21.4	21.1	20.9	20.9	21.0	20.9	20.9
		12	13	21.0	21.4	21.1	20.9	20.9	21.0	20.9	21.0
		25	0	21.0	21.4	21.0	20.9	20.9	21.0	21.0	20.9

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27260 / 708 MHz	Ch27335 / 715.5 MHz	Ch27409 / 722.9 MHz	Ch27260 / 708 MHz	Ch27335 / 715.5 MHz	Ch27409 / 722.9 MHz
LTE28a 10 MHz	QPSK	1	0	23.0	23.4	22.9	22.9	22.9	19.0	22.9	22.9
		1	24	23.0	23.4	23.1	22.9	22.9	19.1	23.0	23.0
		1	49	23.0	23.4	23.0	22.9	22.9	19.1	23.0	23.0
		25	0	22.0	22.4	22.2	22.0	21.9	18.1	22.0	21.9
		25	12	22.0	22.4	22.1	22.0	21.9	18.0	22.0	21.9
		25	25	22.0	22.4	22.1	22.0	21.9	18.0	22.0	21.9
		50	0	22.0	22.4	22.3	22.0	21.9	18.0	22.0	22.0
	16QAM	1	0	22.0	22.4	21.8	22.0	22.0	17.8	21.8	21.9
		1	24	22.0	22.4	21.9	22.0	22.0	17.8	21.9	22.0
		1	49	22.0	22.4	22.0	22.1	22.1	17.9	21.9	22.1
		25	0	21.0	21.4	21.0	20.9	20.9	17.0	20.9	20.9
		25	12	21.0	21.4	21.0	20.9	21.0	17.1	20.9	20.9
		25	25	21.0	21.4	21.0	21.0	21.0	17.1	21.0	21.0
		50	0	21.0	21.4	21.0	20.9	20.9	17.0	20.9	20.9

(LTE700 (Band 28a), Antenna 1/ RM-1065 table continues)

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(LTE700 (Band 28a), Antenna 1/ RM-1065 table continues)

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27285 / 710.5 MHz	Ch27360 / 718 MHz	Ch27434 / 725.4 MHz	Ch27285 / 710.5 MHz	Ch27360 / 718 MHz	Ch27434 / 725.4 MHz
LTE28a 15 MHz	QPSK	1	0	23.0	23.4	22.8	22.8	22.8	19.1	19.1	19.1
		1	36	23.0	23.4	23.0	22.9	22.9	19.1	19.1	19.0
		1	74	23.0	23.4	23.0	22.9	22.9	19.1	19.1	19.0
		36	0	22.0	22.4	22.1	21.9	21.9	18.0	18.0	18.0
		36	18	22.0	22.4	22.1	21.9	21.9	18.0	18.0	18.0
		36	38	22.0	22.4	22.1	22.0	21.9	18.0	18.1	18.0
		75	0	22.0	22.4	22.3	22.0	21.9	18.0	18.0	18.0
	16QAM	1	0	22.0	22.4	21.5	21.6	21.6	17.8	17.9	17.9
		1	36	22.0	22.4	21.7	21.6	21.7	17.9	17.9	18.0
		1	74	22.0	22.4	21.7	21.7	21.7	18.0	18.1	18.0
		36	0	21.0	21.4	21.0	20.8	20.8	17.0	17.0	17.0
		36	18	21.0	21.4	20.9	20.9	20.9	17.0	17.0	17.0
		36	38	21.0	21.4	21.0	20.8	20.9	17.0	17.0	17.1
		75	0	21.0	21.4	21.0	20.9	20.9	17.1	17.1	17.1

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27310 / 713 MHz	Ch27372 / 719.2 MHz	Ch27434 / 725.4 MHz	Ch27310 / 713 MHz	Ch27372 / 719.2 MHz	Ch27434 / 725.4 MHz
LTE28a 20 MHz	QPSK	1	0	23.0	23.4	22.9	22.9	22.8	19.1	19.1	19.0
		1	49	23.0	23.4	23.0	23.0	22.9	19.2	19.1	19.0
		1	99	23.0	23.4	23.0	23.0	22.8	19.2	19.2	19.0
		50	0	22.0	22.4	22.1	22.0	21.9	18.0	18.1	18.0
		50	24	22.0	22.4	22.1	22.0	21.9	18.0	18.1	17.9
		50	50	22.0	22.4	22.2	22.0	21.9	18.0	18.1	18.0
		100	0	22.0	22.4	22.2	22.0	21.9	18.0	18.1	18.0
	16QAM	1	0	22.0	22.4	21.7	21.8	21.9	17.7	17.9	17.5
		1	49	22.0	22.4	21.9	21.9	22.0	17.8	18.0	17.6
		1	99	22.0	22.4	21.8	22.0	21.9	18.0	18.0	17.7
		50	0	21.0	21.4	20.9	20.9	20.8	17.0	17.1	17.0
		50	24	21.0	21.4	21.0	21.0	20.8	17.0	17.1	17.0
		50	50	21.0	21.4	21.0	21.0	20.9	17.1	17.2	17.0
		100	0	21.0	21.4	21.0	21.0	20.9	17.1	17.1	17.0

3.3.10 LTE700 (Band 28a), Antenna 1 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27225 / 704.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz	Ch27225 / 704.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz
LTE28a 3 MHz	QPSK	1	0	23.0	23.4	23.0	23.0	23.0			
		1	7	23.0	23.4	23.0	23.0	23.0			
		1	14	23.0	23.4	23.1	23.0	23.0			
		8	0	22.0	22.4	22.1	22.0	22.0			
		8	3	22.0	22.4	22.1	22.1	22.1			
		8	7	22.0	22.4	22.1	22.1	22.0			
		15	0	22.0	22.4	22.2	22.1	22.1			
	16QAM	1	0	22.0	22.4	21.9	21.9	21.9			
		1	7	22.0	22.4	21.9	21.9	21.9			
		1	14	22.0	22.4	22.1	21.9	22.0			
		8	0	21.0	21.4	21.0	21.1	21.1			
		8	3	21.0	21.4	21.1	21.1	21.1			
		8	7	21.0	21.4	21.1	21.1	21.1			
		15	0	21.0	21.4	21.2	21.0	21.0			

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SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27235 / 705.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz	Ch27235 / 705.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz
LTE28a 5 MHz	QPSK	1	0	23.0	23.4	22.9	23.0	23.0	22.9	23.0	23.1
		1	12	23.0	23.4	22.9	23.0	23.0	22.9	23.0	23.0
		1	24	23.0	23.4	23.1	23.0	23.1	23.1	23.1	23.1
		12	0	22.0	22.4	22.0	22.0	22.0	22.0	22.1	22.0
		12	6	22.0	22.4	22.1	22.1	22.0	22.1	22.0	22.1
		12	13	22.0	22.4	22.1	22.0	22.1	22.1	22.0	22.1
		25	0	22.0	22.4	22.1	22.1	22.1	22.1	22.1	22.1
	16QAM	1	0	22.0	22.4	21.8	21.9	22.0	21.9	21.9	22.0
		1	12	22.0	22.4	21.8	21.9	21.9	21.8	21.9	22.0
		1	24	22.0	22.4	21.9	21.9	21.9	22.0	22.1	22.1
		12	0	21.0	21.4	21.0	21.1	21.0	21.0	21.0	21.0
		12	6	21.0	21.4	21.1	21.1	21.0	21.1	21.0	21.0
		12	13	21.0	21.4	21.1	21.1	21.0	21.2	21.1	21.1
		25	0	21.0	21.4	21.1	21.1	21.1	21.1	21.0	21.1

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27260 / 708 MHz	Ch27335 / 715.5 MHz	Ch27409 / 722.9 MHz	Ch27260 / 708 MHz	Ch27335 / 715.5 MHz	Ch27409 / 722.9 MHz
LTE28a 10 MHz	QPSK	1	0	23.0	23.4	22.9	22.9	23.0	19.0	22.9	23.0
		1	24	23.0	23.4	23.0	23.0	23.0	19.0	23.0	23.0
		1	49	23.0	23.4	23.0	23.0	23.1	19.1	23.0	23.0
		25	0	22.0	22.4	22.1	22.0	22.0	18.0	22.1	22.0
		25	12	22.0	22.4	22.1	22.1	22.0	18.0	22.1	22.1
		25	25	22.0	22.4	22.1	22.1	22.1	18.0	22.1	22.0
		50	0	22.0	22.4	22.1	22.1	22.0	18.0	22.1	22.0
	16QAM	1	0	22.0	22.4	22.2	21.9	21.8	18.1	22.1	22.1
		1	24	22.0	22.4	22.2	21.9	21.9	18.2	22.1	22.2
		1	49	22.0	22.4	22.2	21.9	21.9	18.2	22.2	22.2
		25	0	21.0	21.4	21.1	21.1	21.1	17.1	21.1	21.1
		25	12	21.0	21.4	21.1	21.1	21.1	17.1	21.1	21.1
		25	25	21.0	21.4	21.1	21.2	21.2	17.1	21.1	21.2
		50	0	21.0	21.4	21.1	21.0	21.0	17.0	21.0	21.0

(LTE700 (Band 28a), Antenna 1/ RM-1064 table continues)

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(LTE700 (Band 28a), Antenna 1/ RM-1064 table continues)

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27285 / 710.5 MHz	Ch27360 / 718 MHz	Ch27434 / 725.4 MHz	Ch27285 / 710.5 MHz	Ch27360 / 718 MHz	Ch27434 / 725.4 MHz
LTE28a 15 MHz	QPSK	1	0	23.0	23.4	22.9	22.9	22.9	19.1	19.0	19.0
		1	36	23.0	23.4	23.0	23.0	23.0	19.1	19.0	19.1
		1	74	23.0	23.4	23.0	23.0	23.0	19.1	19.1	19.1
		36	0	22.0	22.4	22.0	22.0	22.0	18.0	17.9	18.0
		36	18	22.0	22.4	22.0	22.0	22.0	17.9	18.0	18.0
		36	38	22.0	22.4	22.0	22.1	22.0	18.0	18.1	18.0
		75	0	22.0	22.4	22.1	22.0	22.0	18.0	18.0	18.0
	16QAM	1	0	22.0	22.4	21.8	21.9	22.1	17.9	18.0	18.1
		1	36	22.0	22.4	21.9	21.9	22.1	18.0	18.1	18.1
		1	74	22.0	22.4	21.9	21.9	22.0	18.0	18.2	18.1
		36	0	21.0	21.4	21.0	21.0	21.0	17.0	17.0	17.0
		36	18	21.0	21.4	21.0	21.0	21.0	17.0	17.0	17.0
		36	38	21.0	21.4	21.0	21.0	21.0	17.0	17.1	17.0
		75	0	21.0	21.4	21.1	21.1	20.9	17.1	17.1	17.0
SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27310 / 713 MHz	Ch27372 / 719.2 MHz	Ch27434 / 725.4 MHz	Ch27310 / 713 MHz	Ch27372 / 719.2 MHz	Ch27434 / 725.4 MHz
LTE28a 20 MHz	QPSK	1	0	23.0	23.4	22.8	22.8	22.8	19.0	18.9	18.9
		1	49	23.0	23.4	23.0	22.9	22.9	19.1	19.0	19.0
		1	99	23.0	23.4	23.0	23.0	22.8	19.1	19.1	19.0
		50	0	22.0	22.4	22.1	22.0	22.0	17.9	18.0	17.9
		50	24	22.0	22.4	22.1	22.1	22.0	18.0	18.0	18.0
		50	50	22.0	22.4	22.1	22.1	21.9	18.0	18.0	18.0
		100	0	22.0	22.4	22.1	22.1	22.0	18.0	18.0	18.0
	16QAM	1	0	22.0	22.4	21.9	21.9	21.7	17.5	17.6	17.6
		1	49	22.0	22.4	21.9	21.8	21.8	17.7	17.7	17.7
		1	99	22.0	22.4	22.0	21.9	21.8	17.8	17.7	17.6
		50	0	21.0	21.4	20.9	21.0	20.9	17.0	17.0	17.0
		50	24	21.0	21.4	21.0	20.9	21.0	17.1	17.1	17.1
		50	50	21.0	21.4	21.1	21.0	20.9	17.0	17.2	17.1
		100	0	21.0	21.4	21.1	21.0	21.0	17.1	17.0	17.0

3.3.11 LTE700 (Band 28a), Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27225 / 704.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz	Ch27225 / 704.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz
LTE28a 3 MHz	QPSK	1	0	23.0	23.4	22.8	22.7	22.7			
		1	7	23.0	23.4	22.8	22.8	22.7			
		1	14	23.0	23.4	22.8	22.7	22.8			
		8	0	22.0	22.4	21.9	21.8	21.7			
		8	3	22.0	22.4	21.9	21.8	21.7			
		8	7	22.0	22.4	21.9	21.8	21.7			
		15	0	22.0	22.4	22.0	21.8	21.7			
	16QAM	1	0	22.0	22.4	21.6	21.5	21.9			
		1	7	22.0	22.4	21.6	21.5	21.9			
		1	14	22.0	22.4	21.8	21.6	21.9			
		8	0	21.0	21.4	20.8	20.8	20.8			
		8	3	21.0	21.4	20.8	20.7	20.7			
		8	7	21.0	21.4	20.8	20.7	20.8			
		15	0	21.0	21.4	20.7	20.7	20.7			

(LTE700 (Band 28a), Antenna 2/ RM-1065 table continues)

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(LTE700 (Band 28a), Antenna 2/ RM-1065 table continues)

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27235 / 705.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz	Ch27235 / 705.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz
LTE28a 5 MHz	QPSK	1	0	23.0	23.4	22.7	22.7	22.7	22.7	22.8	22.8
		1	12	23.0	23.4	22.8	22.7	22.7	22.7	22.7	22.7
		1	24	23.0	23.4	22.8	22.7	22.7	22.8	22.7	22.7
		12	0	22.0	22.4	21.9	21.8	21.7	21.8	21.7	21.7
		12	6	22.0	22.4	22.0	21.8	21.7	21.9	21.7	21.7
		12	13	22.0	22.4	22.0	21.7	21.8	21.8	21.7	21.7
		25	0	22.0	22.4	22.1	21.8	21.7	21.8	21.7	21.7
	16QAM	1	0	22.0	22.4	21.8	21.8	21.8	21.5	21.6	21.7
		1	12	22.0	22.4	21.8	21.8	21.9	21.5	21.5	21.7
		1	24	22.0	22.4	21.9	21.7	21.9	21.7	21.6	21.8
		12	0	21.0	21.4	20.8	20.7	20.7	20.7	20.7	20.8
		12	6	21.0	21.4	20.9	20.7	20.7	20.8	20.7	20.7
		12	13	21.0	21.4	20.9	20.7	20.7	20.8	20.7	20.8
		25	0	21.0	21.4	20.8	20.7	20.7	20.8	20.8	20.7

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27260 / 708 MHz	Ch27335 / 715.5 MHz	Ch27409 / 722.9 MHz	Ch27260 / 708 MHz	Ch27335 / 715.5 MHz	Ch27409 / 722.9 MHz
LTE28a 10 MHz	QPSK	1	0	23.0	23.4	22.7	22.7	22.7	18.8	22.7	22.7
		1	24	23.0	23.4	22.9	22.7	22.7	18.9	22.8	22.8
		1	49	23.0	23.4	22.8	22.7	22.7	18.9	22.8	22.8
		25	0	22.0	22.4	22.0	21.8	21.7	17.9	21.8	21.7
		25	12	22.0	22.4	21.9	21.8	21.7	17.8	21.8	21.7
		25	25	22.0	22.4	21.9	21.8	21.7	17.8	21.8	21.7
		50	0	22.0	22.4	22.1	21.8	21.7	17.8	21.8	21.8
	16QAM	1	0	22.0	22.4	21.6	21.8	21.8	17.6	21.6	21.7
		1	24	22.0	22.4	21.7	21.8	21.8	17.6	21.7	21.8
		1	49	22.0	22.4	21.8	21.9	21.9	17.7	21.7	21.9
		25	0	21.0	21.4	20.8	20.7	20.7	16.8	20.7	20.7
		25	12	21.0	21.4	20.8	20.7	20.8	16.9	20.7	20.7
		25	25	21.0	21.4	20.8	20.8	20.8	16.9	20.8	20.8
		50	0	21.0	21.4	20.8	20.7	20.7	16.8	20.7	20.7

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27285 / 710.5 MHz	Ch27360 / 718 MHz	Ch27434 / 725.4 MHz	Ch27285 / 710.5 MHz	Ch27360 / 718 MHz	Ch27434 / 725.4 MHz
LTE28a 15 MHz	QPSK	1	0	23.0	23.4	22.6	22.6	22.6	18.9	18.9	18.9
		1	36	23.0	23.4	22.8	22.7	22.7	18.9	18.9	18.8
		1	74	23.0	23.4	22.8	22.7	22.7	18.9	18.9	18.8
		36	0	22.0	22.4	21.9	21.7	21.7	17.8	17.8	17.8
		36	18	22.0	22.4	21.9	21.7	21.7	17.8	17.8	17.8
		36	38	22.0	22.4	21.9	21.8	21.7	17.8	17.9	17.8
		75	0	22.0	22.4	22.1	21.8	21.7	17.8	17.8	17.8
	16QAM	1	0	22.0	22.4	21.3	21.4	21.4	17.6	17.7	17.7
		1	36	22.0	22.4	21.5	21.4	21.5	17.7	17.7	17.8
		1	74	22.0	22.4	21.5	21.5	21.5	17.8	17.9	17.8
		36	0	21.0	21.4	20.8	20.6	20.6	16.8	16.8	16.8
		36	18	21.0	21.4	20.7	20.7	20.7	16.8	16.8	16.8
		36	38	21.0	21.4	20.8	20.6	20.7	16.8	16.8	16.9
		75	0	21.0	21.4	20.8	20.7	20.7	16.9	16.9	16.9

(LTE700 (Band 28a), Antenna 2/ RM-1065 table continues)

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(LTE700 (Band 28a), Antenna 2/ RM-1065 table continues)

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27310 / 713 MHz	Ch27372 / 719.2 MHz	Ch27434 / 725.4 MHz	Ch27310 / 713 MHz	Ch27372 / 719.2 MHz	Ch27434 / 725.4 MHz
LTE28a 20 MHz	QPSK	1	0	23.0	23.4	22.7	22.7	22.6	18.9	18.9	18.8
		1	49	23.0	23.4	22.8	22.8	22.7	19.0	18.9	18.8
		1	99	23.0	23.4	22.8	22.8	22.6	19.0	19.0	18.8
		50	0	22.0	22.4	21.9	21.8	21.7	17.8	17.9	17.8
		50	24	22.0	22.4	21.9	21.8	21.7	17.8	17.9	17.7
		50	50	22.0	22.4	22.0	21.8	21.7	17.8	17.9	17.8
		100	0	22.0	22.4	22.0	21.8	21.7	17.8	17.9	17.8
	16QAM	1	0	22.0	22.4	21.5	21.6	21.7	17.5	17.7	17.3
		1	49	22.0	22.4	21.7	21.7	21.8	17.6	17.8	17.4
		1	99	22.0	22.4	21.6	21.8	21.7	17.8	17.8	17.5
		50	0	21.0	21.4	20.7	20.7	20.6	16.8	16.9	16.8
		50	24	21.0	21.4	20.8	20.8	20.6	16.8	16.9	16.8
		50	50	21.0	21.4	20.8	20.8	20.7	16.9	17.0	16.8
		100	0	21.0	21.4	20.8	20.8	20.7	16.9	16.9	16.8

3.3.12 LTE700 (Band 28a), Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27225 / 704.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz	Ch27225 / 704.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz
LTE28a 3 MHz	QPSK	1	0	23.0	23.4	22.8	22.8	22.8			
		1	7	23.0	23.4	22.8	22.8	22.8			
		1	14	23.0	23.4	22.9	22.8	22.8			
		8	0	22.0	22.4	21.9	21.8	21.8			
		8	3	22.0	22.4	21.9	21.9	21.9			
		8	7	22.0	22.4	21.9	21.9	21.8			
		15	0	22.0	22.4	22.0	21.9	21.9			
	16QAM	1	0	22.0	22.4	21.7	21.7	21.7			
		1	7	22.0	22.4	21.7	21.7	21.7			
		1	14	22.0	22.4	21.9	21.7	21.8			
		8	0	21.0	21.4	20.8	20.9	20.9			
		8	3	21.0	21.4	20.9	20.9	20.9			
		8	7	21.0	21.4	20.9	20.9	20.9			
		15	0	21.0	21.4	21.0	20.8	20.8			
SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27235 / 705.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz	Ch27235 / 705.5 MHz	Ch27305 / 712.5 MHz	Ch27384 / 720.4 MHz
LTE28a 5 MHz	QPSK	1	0	23.0	23.4	22.7	22.8	22.8	22.7	22.8	22.9
		1	12	23.0	23.4	22.7	22.8	22.8	22.7	22.8	22.8
		1	24	23.0	23.4	22.9	22.8	22.9	22.9	22.9	22.9
		12	0	22.0	22.4	21.8	21.8	21.8	21.8	21.9	21.8
		12	6	22.0	22.4	21.9	21.9	21.8	21.9	21.8	21.9
		12	13	22.0	22.4	21.9	21.8	21.9	21.9	21.8	21.9
		25	0	22.0	22.4	21.9	21.9	21.9	21.9	21.9	21.9
	16QAM	1	0	22.0	22.4	21.6	21.7	21.8	21.7	21.7	21.8
		1	12	22.0	22.4	21.6	21.7	21.7	21.6	21.7	21.8
		1	24	22.0	22.4	21.7	21.7	21.7	21.8	21.9	21.9
		12	0	21.0	21.4	20.8	20.9	20.8	20.8	20.8	20.8
		12	6	21.0	21.4	20.9	20.9	20.8	20.9	20.8	20.8
		12	13	21.0	21.4	20.9	20.9	20.8	21.0	20.9	20.9
		25	0	21.0	21.4	20.9	20.9	20.9	20.9	20.8	20.9

(LTE700 (Band 28a), Antenna 2/ RM-1064 table continues)

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(LTE700 (Band 28a), Antenna 2/ RM-1064 table continues)

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27260 / 708 MHz	Ch27335 / 715.5 MHz	Ch27409 / 722.9 MHz	Ch27260 / 708 MHz	Ch27335 / 715.5 MHz	Ch27409 / 722.9 MHz
LTE28a 10 MHz	QPSK	1	0	23.0	23.4	22.7	22.7	22.8	18.8	22.7	22.8
		1	24	23.0	23.4	22.8	22.8	22.8	18.8	22.8	22.8
		1	49	23.0	23.4	22.8	22.8	22.9	18.9	22.8	22.8
		25	0	22.0	22.4	21.9	21.8	21.8	17.8	21.9	21.8
		25	12	22.0	22.4	21.9	21.9	21.8	17.8	21.9	21.9
		25	25	22.0	22.4	21.9	21.9	21.9	17.8	21.9	21.8
		50	0	22.0	22.4	21.9	21.9	21.8	17.8	21.9	21.8
	16QAM	1	0	22.0	22.4	22.0	21.7	21.6	17.9	21.9	21.9
		1	24	22.0	22.4	22.0	21.7	21.7	18.0	21.9	22.0
		1	49	22.0	22.4	22.0	21.7	21.7	18.0	22.0	22.0
		25	0	21.0	21.4	20.9	20.9	20.9	16.9	20.9	20.9
		25	12	21.0	21.4	20.9	20.9	20.9	16.9	20.9	20.9
		25	25	21.0	21.4	20.9	21.0	21.0	16.9	20.9	21.0
		50	0	21.0	21.4	20.9	20.8	20.8	16.8	20.8	20.8

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27285 / 710.5 MHz	Ch27360 / 718 MHz	Ch27434 / 725.4 MHz	Ch27285 / 710.5 MHz	Ch27360 / 718 MHz	Ch27434 / 725.4 MHz
LTE28a 15 MHz	QPSK	1	0	23.0	23.4	22.7	22.7	22.7	18.9	18.8	18.8
		1	36	23.0	23.4	22.8	22.8	22.8	18.9	18.8	18.9
		1	74	23.0	23.4	22.8	22.8	22.8	18.9	18.9	18.9
		36	0	22.0	22.4	21.8	21.8	21.8	17.8	17.7	17.8
		36	18	22.0	22.4	21.8	21.8	21.8	17.7	17.8	17.8
		36	38	22.0	22.4	21.8	21.9	21.8	17.8	17.9	17.8
		75	0	22.0	22.4	21.9	21.8	21.8	17.8	17.8	17.8
	16QAM	1	0	22.0	22.4	21.6	21.7	21.9	17.7	17.8	17.9
		1	36	22.0	22.4	21.7	21.7	21.9	17.8	17.9	17.9
		1	74	22.0	22.4	21.7	21.7	21.8	17.8	18.0	17.9
		36	0	21.0	21.4	20.8	20.8	20.8	16.8	16.8	16.8
		36	18	21.0	21.4	20.8	20.8	20.8	16.8	16.8	16.8
		36	38	21.0	21.4	20.8	20.8	20.8	16.8	16.9	16.8
		75	0	21.0	21.4	20.9	20.9	20.7	16.9	16.9	16.8

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27310 / 713 MHz	Ch27372 / 719.2 MHz	Ch27434 / 725.4 MHz	Ch27310 / 713 MHz	Ch27372 / 719.2 MHz	Ch27434 / 725.4 MHz
LTE28a 20 MHz	QPSK	1	0	23.0	23.4	22.6	22.6	22.6	18.8	18.7	18.7
		1	49	23.0	23.4	22.8	22.7	22.7	18.9	18.8	18.8
		1	99	23.0	23.4	22.8	22.8	22.6	18.9	18.9	18.8
		50	0	22.0	22.4	21.9	21.8	21.8	17.7	17.8	17.7
		50	24	22.0	22.4	21.9	21.9	21.8	17.8	17.8	17.8
		50	50	22.0	22.4	21.9	21.9	21.7	17.8	17.8	17.8
		100	0	22.0	22.4	21.9	21.9	21.8	17.8	17.8	17.8
	16QAM	1	0	22.0	22.4	21.7	21.7	21.5	17.3	17.4	17.4
		1	49	22.0	22.4	21.7	21.6	21.6	17.5	17.5	17.5
		1	99	22.0	22.4	21.8	21.7	21.6	17.6	17.5	17.4
		50	0	21.0	21.4	20.7	20.8	20.7	16.8	16.8	16.8
		50	24	21.0	21.4	20.8	20.7	20.8	16.9	16.9	16.9
		50	50	21.0	21.4	20.9	20.8	20.7	16.8	17.0	16.9
		100	0	21.0	21.4	20.9	20.8	20.8	16.9	16.8	16.8

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3.3.13 LTE700 (Band 28b), Antenna 1 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27645 / 746.5 MHz	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27645 / 746.5 MHz
LTE28b 3 MHz	QPSK	1	0	23.0	23.4	23.0	23.0	22.9			
		1	7	23.0	23.4	23.0	22.9	22.9			
		1	14	23.0	23.4	23.1	23.0	22.9			
		8	0	22.0	22.4	22.1	22.0	21.9			
		8	3	22.0	22.4	22.1	22.0	21.9			
		8	7	22.0	22.4	22.2	22.0	21.9			
		15	0	22.0	22.4	22.2	22.1	22.0			
	16QAM	1	0	22.0	22.4	22.0	22.0	22.1			
		1	7	22.0	22.4	22.0	22.1	22.0			
		1	14	22.0	22.4	22.0	22.0	22.1			
		8	0	21.0	21.4	21.0	21.0	20.9			
		8	3	21.0	21.4	21.0	21.0	20.9			
		8	7	21.0	21.4	21.1	21.0	20.9			
		15	0	21.0	21.4	21.0	21.0	20.9			

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27635 / 745.5 MHz	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27635 / 745.5 MHz
LTE28b 5 MHz	QPSK	1	0	23.0	23.4	22.9	22.9	22.8	22.9	22.9	22.8
		1	12	23.0	23.4	23.0	22.9	22.9	22.9	22.9	22.9
		1	24	23.0	23.4	23.1	23.0	22.9	23.1	23.0	22.8
		12	0	22.0	22.4	22.1	22.0	21.9	22.0	22.0	21.8
		12	6	22.0	22.4	22.1	22.0	22.0	21.9	22.0	22.0
		12	13	22.0	22.4	22.2	22.0	21.9	22.0	22.0	21.9
		25	0	22.0	22.4	22.3	22.0	21.9	22.0	22.0	21.9
	16QAM	1	0	22.0	22.4	21.7	21.7	21.8	21.9	22.0	22.0
		1	12	22.0	22.4	21.7	21.7	21.8	21.8	22.0	22.1
		1	24	22.0	22.4	21.7	21.7	21.7	22.1	22.1	22.0
		12	0	21.0	21.4	20.9	21.0	20.9	20.8	20.9	20.9
		12	6	21.0	21.4	20.9	21.0	21.0	20.8	20.9	20.9
		12	13	21.0	21.4	21.0	21.0	20.9	21.0	21.0	20.9
		25	0	21.0	21.4	21.0	21.0	20.8	21.0	21.0	20.9

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27410 / 723 MHz	Ch27510 / 733 MHz	Ch27610 / 743 MHz	Ch27410 / 723 MHz	Ch27510 / 733 MHz	Ch27610 / 743 MHz
LTE28b 10 MHz	QPSK	1	0	23.0	23.4	23.0	22.9	22.9	19.0	19.0	19.0
		1	24	23.0	23.4	23.2	22.9	22.8	19.1	19.1	19.0
		1	49	23.0	23.4	23.1	23.0	22.9	19.2	19.1	19.1
		25	0	22.0	22.4	22.3	22.0	21.9	18.1	18.1	18.0
		25	12	22.0	22.4	22.3	22.1	21.9	18.1	18.1	18.0
		25	25	22.0	22.4	22.3	22.0	21.8	18.1	18.1	18.0
		50	0	22.0	22.4	22.4	22.1	21.9	18.1	18.1	18.0
	16QAM	1	0	22.0	22.4	21.9	21.8	22.0	18.2	18.1	18.1
		1	24	22.0	22.4	22.0	21.8	22.0	18.3	18.2	18.1
		1	49	22.0	22.4	21.8	21.9	22.0	18.3	18.3	18.2
		25	0	21.0	21.4	21.1	20.9	20.9	17.2	17.2	17.2
		25	12	21.0	21.4	21.1	21.0	20.9	17.2	17.2	17.1
		25	25	21.0	21.4	21.1	21.0	20.9	17.3	17.2	17.1
		50	0	21.0	21.4	21.1	21.0	20.8	17.1	17.2	17.1

(LTE700 (Band 28b), Antenna 1/ RM-1065 table continues)

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(LTE700 (Band 28b), Antenna 1/ RM-1065 table continues)

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27435 / 725.5 MHz	Ch27510 / 733 MHz	Ch27585 / 740.5 MHz	Ch27435 / 725.5 MHz	Ch27510 / 733 MHz	Ch27585 / 740.5 MHz
LTE28b 15 MHz	QPSK	1	0	23.0	23.4	22.9	22.9	22.8	19.0	19.1	19.0
		1	36	23.0	23.4	23.0	22.9	22.9	19.1	19.1	19.1
		1	74	23.0	23.4	23.0	23.0	22.9	19.2	19.2	19.1
		36	0	22.0	22.4	22.1	21.9	21.9	18.0	18.0	18.0
		36	18	22.0	22.4	22.1	21.9	21.9	18.0	18.1	18.0
		36	38	22.0	22.4	22.1	22.0	21.9	18.0	18.1	18.0
		75	0	22.0	22.4	22.3	22.0	21.9	18.0	18.1	18.0
	16QAM	1	0	22.0	22.4	21.9	22.0	22.0	18.1	18.1	18.1
		1	36	22.0	22.4	22.1	22.0	22.0	18.2	18.2	18.2
		1	74	22.0	22.4	22.1	22.1	22.1	18.1	18.2	18.2
		36	0	21.0	21.4	20.9	20.9	20.8	17.1	17.1	17.0
		36	18	21.0	21.4	20.9	20.9	20.8	17.0	17.1	17.1
		36	38	21.0	21.4	21.0	20.9	20.9	17.1	17.1	17.0
		75	0	21.0	21.4	21.0	21.0	20.9	17.1	17.1	17.0

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27435 / 725.5 MHz	Ch27498 / 731.8 MHz	Ch27560 / 738 MHz	Ch27435 / 725.5 MHz	Ch27498 / 731.8 MHz	Ch27560 / 738 MHz
LTE28b 20 MHz	QPSK	1	0	23.0	23.4	22.9	22.8	22.8	19.0	18.9	19.0
		1	49	23.0	23.4	23.0	22.8	22.9	19.1	19.0	19.1
		1	99	23.0	23.4	23.0	22.9	23.0	19.1	19.0	19.1
		50	0	22.0	22.4	22.1	21.9	22.0	18.0	18.0	18.0
		50	24	22.0	22.4	22.2	21.9	22.0	18.0	18.0	18.0
		50	50	22.0	22.4	22.2	21.9	21.9	18.0	18.0	18.0
		100	0	22.0	22.4	22.3	22.0	22.0	18.1	18.0	18.1
	16QAM	1	0	22.0	22.4	21.9	21.9	22.0	17.6	17.6	17.7
		1	49	22.0	22.4	22.1	22.0	22.1	17.6	17.7	17.8
		1	99	22.0	22.4	22.1	22.0	22.0	17.7	17.7	17.8
		50	0	21.0	21.4	20.9	20.8	20.9	17.1	17.0	17.0
		50	24	21.0	21.4	21.0	20.9	20.9	17.1	17.0	17.0
		50	50	21.0	21.4	20.9	20.9	20.9	17.1	17.1	17.1
		100	0	21.0	21.4	21.0	20.9	20.9	17.0	17.0	17.1

3.3.14 LTE700 (Band 28b), Antenna 1 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27645 / 746.5 MHz	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27645 / 746.5 MHz
LTE28b 3 MHz	QPSK	1	0	23.0	23.4	23.0	23.1	23.1			
		1	7	23.0	23.4	23.0	23.1	23.1			
		1	14	23.0	23.4	23.0	23.2	23.1			
		8	0	22.0	22.4	22.0	22.2	22.1			
		8	3	22.0	22.4	22.0	22.1	22.1			
		8	7	22.0	22.4	22.1	22.1	22.0			
		15	0	22.0	22.4	22.1	22.2	22.1			
	16QAM	1	0	22.0	22.4	22.1	22.3	22.2			
		1	7	22.0	22.4	22.1	22.2	22.1			
		1	14	22.0	22.4	22.1	22.3	22.2			
		8	0	21.0	21.4	21.0	21.1	21.0			
		8	3	21.0	21.4	21.0	21.1	21.0			
		8	7	21.0	21.4	21.1	21.2	21.0			
		15	0	21.0	21.4	21.0	21.1	21.0			

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SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27635 / 745.5 MHz	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27635 / 745.5 MHz
LTE28b 5 MHz	QPSK	1	0	23.0	23.4	23.0	23.1	23.1	23.0	23.0	23.0
		1	12	23.0	23.4	23.0	23.1	23.0	23.0	23.1	23.0
		1	24	23.0	23.4	23.1	23.1	23.0	22.9	23.1	23.1
		12	0	22.0	22.4	22.0	22.2	22.1	22.0	22.2	22.1
		12	6	22.0	22.4	22.0	22.2	22.1	22.0	22.2	22.0
		12	13	22.0	22.4	22.1	22.1	22.1	22.1	22.1	22.1
		25	0	22.0	22.4	22.1	22.2	22.2	22.1	22.2	22.1
	16QAM	1	0	22.0	22.4	22.1	22.1	22.2	22.2	22.3	22.1
		1	12	22.0	22.4	22.0	22.2	22.2	22.1	22.3	22.2
		1	24	22.0	22.4	22.1	22.2	22.2	22.2	22.0	21.9
		12	0	21.0	21.4	21.0	21.1	21.1	21.0	21.2	21.1
		12	6	21.0	21.4	21.0	21.1	21.1	21.0	21.2	21.1
		12	13	21.0	21.4	21.0	21.1	21.1	21.1	21.2	21.1
		25	0	21.0	21.4	21.1	21.1	21.1	21.1	21.2	21.1
SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27410 / 723 MHz	Ch27510 / 733 MHz	Ch27610 / 743 MHz	Ch27410 / 723 MHz	Ch27510 / 733 MHz	Ch27610 / 743 MHz
LTE28b 10 MHz	QPSK	1	0	23.0	23.4	22.9	22.9	23.0	19.0	19.0	19.1
		1	24	23.0	23.4	23.0	23.0	23.0	19.1	19.1	19.1
		1	49	23.0	23.4	23.0	22.9	23.0	19.1	19.1	19.1
		25	0	22.0	22.4	22.1	22.1	22.1	18.1	18.0	18.0
		25	12	22.0	22.4	22.1	22.1	22.2	18.1	18.0	18.1
		25	25	22.0	22.4	22.1	22.1	22.2	18.0	18.0	18.1
		50	0	22.0	22.4	22.1	22.1	22.1	18.1	18.1	18.2
	16QAM	1	0	22.0	22.4	21.6	21.8	21.8	18.1	17.9	17.9
		1	24	22.0	22.4	21.7	21.8	21.9	18.2	17.8	18.0
		1	49	22.0	22.4	21.7	21.9	21.9	18.3	17.9	17.9
		25	0	21.0	21.4	21.1	21.1	21.0	17.2	17.1	17.2
		25	12	21.0	21.4	21.1	21.1	21.1	17.2	17.2	17.3
		25	25	21.0	21.4	21.1	21.1	21.1	17.2	17.1	17.2
		50	0	21.0	21.4	21.1	21.1	21.0	17.2	17.1	17.2

(LTE700 (Band 28b), Antenna 1/ RM-1064 table continues)

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(LTE700 (Band 28b), Antenna 1/ RM-1064 table continues)

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27435 / 725.5 MHz	Ch27510 / 733 MHz	Ch27585 / 740.5 MHz	Ch27435 / 725.5 MHz	Ch27510 / 733 MHz	Ch27585 / 740.5 MHz
LTE28b 15 MHz	QPSK	1	0	23.0	23.4	22.9	22.9	23.0	19.2	19.0	19.0
		1	36	23.0	23.4	23.0	22.9	23.1	19.2	19.1	19.2
		1	74	23.0	23.4	23.1	23.0	23.0	19.2	19.1	19.1
		36	0	22.0	22.4	22.1	22.0	22.0	18.0	18.0	18.1
		36	18	22.0	22.4	22.1	22.0	22.0	18.0	18.0	18.0
		36	38	22.0	22.4	22.1	22.0	22.0	18.1	18.0	18.1
		75	0	22.0	22.4	22.1	22.1	22.1	18.1	18.0	18.0
	16QAM	1	0	22.0	22.4	22.2	22.0	22.0	18.1	18.1	17.9
		1	36	22.0	22.4	22.1	22.1	22.1	18.2	18.2	18.0
		1	74	22.0	22.4	22.2	22.1	21.9	18.3	18.3	17.9
		36	0	21.0	21.4	21.0	21.0	21.0	17.1	17.0	17.1
		36	18	21.0	21.4	20.9	20.9	20.9	17.1	17.0	17.1
		36	38	21.0	21.4	21.0	20.9	21.0	17.1	17.1	17.2
		75	0	21.0	21.4	21.0	21.0	21.0	17.1	17.1	17.1
SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27435 / 725.5 MHz	Ch27498 / 731.8 MHz	Ch27560 / 738 MHz	Ch27435 / 725.5 MHz	Ch27498 / 731.8 MHz	Ch27560 / 738 MHz
LTE28b 20 MHz	QPSK	1	0	23.0	23.4	22.9	22.8	22.9	19.1	19.0	19.0
		1	49	23.0	23.4	23.0	22.9	22.9	19.2	19.1	19.1
		1	99	23.0	23.4	23.1	23.0	23.0	19.2	19.2	19.1
		50	0	22.0	22.4	22.1	22.0	22.0	18.0	18.0	18.1
		50	24	22.0	22.4	22.1	22.0	22.0	18.1	18.0	18.0
		50	50	22.0	22.4	22.1	22.0	22.0	18.1	18.0	18.0
		100	0	22.0	22.4	22.1	22.0	22.0	18.1	18.1	18.0
	16QAM	1	0	22.0	22.4	21.9	22.0	22.1	17.7	17.8	17.8
		1	49	22.0	22.4	22.1	22.0	22.2	17.8	17.9	17.9
		1	99	22.0	22.4	22.1	22.1	22.1	17.9	18.0	18.0
		50	0	21.0	21.4	20.9	20.9	21.0	17.1	17.0	17.1
		50	24	21.0	21.4	20.9	20.9	21.0	17.0	17.1	17.1
		50	50	21.0	21.4	21.0	21.0	21.0	17.1	17.1	17.1
		100	0	21.0	21.4	21.0	21.0	21.0	17.1	17.1	17.1

3.3.15 LTE700 (Band 28b), Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27645 / 746.5 MHz	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27645 / 746.5 MHz
LTE28b 3 MHz	QPSK	1	0	23.0	23.4	22.8	22.8	22.7			
		1	7	23.0	23.4	22.8	22.7	22.7			
		1	14	23.0	23.4	22.9	22.8	22.7			
		8	0	22.0	22.4	21.9	21.8	21.7			
		8	3	22.0	22.4	21.9	21.8	21.7			
		8	7	22.0	22.4	22.0	21.8	21.7			
		15	0	22.0	22.4	22.0	21.9	21.8			
	16QAM	1	0	22.0	22.4	21.8	21.8	21.9			
		1	7	22.0	22.4	21.8	21.9	21.8			
		1	14	22.0	22.4	21.8	21.8	21.9			
		8	0	21.0	21.4	20.8	20.8	20.7			
		8	3	21.0	21.4	20.8	20.8	20.7			
		8	7	21.0	21.4	20.9	20.8	20.7			
		15	0	21.0	21.4	20.8	20.8	20.7			

(LTE700 (Band 28b), Antenna 2/ RM-1065 table continues)

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(LTE700 (Band 28b), Antenna 2/ RM-1065 table continues)

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27635 / 745.5 MHz	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27635 / 745.5 MHz
LTE28b 5 MHz	QPSK	1	0	23.0	23.4	22.7	22.7	22.6	22.7	22.7	22.6
		1	12	23.0	23.4	22.8	22.7	22.7	22.7	22.7	22.7
		1	24	23.0	23.4	22.9	22.8	22.7	22.9	22.8	22.6
		12	0	22.0	22.4	21.9	21.8	21.7	21.8	21.8	21.6
		12	6	22.0	22.4	21.9	21.8	21.8	21.7	21.8	21.8
		12	13	22.0	22.4	22.0	21.8	21.7	21.8	21.8	21.7
		25	0	22.0	22.4	22.1	21.8	21.7	21.8	21.8	21.7
	16QAM	1	0	22.0	22.4	21.5	21.5	21.6	21.7	21.8	21.8
		1	12	22.0	22.4	21.5	21.5	21.6	21.6	21.8	21.9
		1	24	22.0	22.4	21.5	21.5	21.5	21.9	21.9	21.8
		12	0	21.0	21.4	20.7	20.8	20.7	20.6	20.7	20.7
		12	6	21.0	21.4	20.7	20.8	20.8	20.6	20.7	20.7
		12	13	21.0	21.4	20.8	20.8	20.7	20.8	20.8	20.7
		25	0	21.0	21.4	20.8	20.8	20.6	20.8	20.8	20.7

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27410 / 723 MHz	Ch27510 / 733 MHz	Ch27610 / 743 MHz	Ch27410 / 723 MHz	Ch27510 / 733 MHz	Ch27610 / 743 MHz
LTE28b 10 MHz	QPSK	1	0	23.0	23.4	22.8	22.7	22.7	18.8	18.8	18.8
		1	24	23.0	23.4	23.0	22.7	22.6	18.9	18.9	18.8
		1	49	23.0	23.4	22.9	22.8	22.7	19.0	18.9	18.9
		25	0	22.0	22.4	22.1	21.8	21.7	17.9	17.9	17.8
		25	12	22.0	22.4	22.1	21.9	21.7	17.9	17.9	17.8
		25	25	22.0	22.4	22.1	21.8	21.6	17.9	17.9	17.8
		50	0	22.0	22.4	22.2	21.9	21.7	17.9	17.9	17.8
	16QAM	1	0	22.0	22.4	21.7	21.6	21.8	18.0	17.9	17.9
		1	24	22.0	22.4	21.8	21.6	21.8	18.1	18.0	17.9
		1	49	22.0	22.4	21.6	21.7	21.8	18.1	18.1	18.0
		25	0	21.0	21.4	20.9	20.7	20.7	17.0	17.0	17.0
		25	12	21.0	21.4	20.9	20.8	20.7	17.0	17.0	16.9
		25	25	21.0	21.4	20.9	20.8	20.7	17.1	17.0	16.9
		50	0	21.0	21.4	20.9	20.8	20.6	16.9	17.0	16.9

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27435 / 725.5 MHz	Ch27510 / 733 MHz	Ch27585 / 740.5 MHz	Ch27435 / 725.5 MHz	Ch27510 / 733 MHz	Ch27585 / 740.5 MHz
LTE28b 15 MHz	QPSK	1	0	23.0	23.4	22.7	22.7	22.6	18.8	18.9	18.8
		1	36	23.0	23.4	22.8	22.7	22.7	18.9	18.9	18.9
		1	74	23.0	23.4	22.8	22.8	22.7	19.0	19.0	18.9
		36	0	22.0	22.4	21.9	21.7	21.7	17.8	17.8	17.8
		36	18	22.0	22.4	21.9	21.7	21.7	17.8	17.9	17.8
		36	38	22.0	22.4	21.9	21.8	21.7	17.8	17.9	17.8
		75	0	22.0	22.4	22.1	21.8	21.7	17.8	17.9	17.8
	16QAM	1	0	22.0	22.4	21.7	21.8	21.8	17.9	17.9	17.9
		1	36	22.0	22.4	21.9	21.8	21.8	18.0	18.0	18.0
		1	74	22.0	22.4	21.9	21.9	21.9	17.9	18.0	18.0
		36	0	21.0	21.4	20.7	20.7	20.6	16.9	16.9	16.8
		36	18	21.0	21.4	20.7	20.7	20.6	16.8	16.9	16.9
		36	38	21.0	21.4	20.8	20.7	20.7	16.9	16.9	16.8
		75	0	21.0	21.4	20.8	20.8	20.7	16.9	16.9	16.8

(LTE700 (Band 28b), Antenna 2/ RM-1065 table continues)

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(LTE700 (Band 28b), Antenna 2/ RM-1065 table continues)

SN: 004402741070647						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27435 / 725.5 MHz	Ch27498 / 731.8 MHz	Ch27560 / 738 MHz	Ch27435 / 725.5 MHz	Ch27498 / 731.8 MHz	Ch27560 / 738 MHz
LTE28b 20 MHz	QPSK	1	0	23.0	23.4	22.7	22.6	22.6	18.8	18.7	18.8
		1	49	23.0	23.4	22.8	22.6	22.7	18.9	18.8	18.9
		1	99	23.0	23.4	22.8	22.7	22.8	18.9	18.8	18.9
		50	0	22.0	22.4	21.9	21.7	21.8	17.8	17.8	17.8
		50	24	22.0	22.4	22.0	21.7	21.8	17.8	17.8	17.8
		50	50	22.0	22.4	22.0	21.7	21.7	17.8	17.8	17.8
		100	0	22.0	22.4	22.1	21.8	21.8	17.9	17.8	17.9
	16QAM	1	0	22.0	22.4	21.7	21.7	21.8	17.4	17.4	17.5
		1	49	22.0	22.4	21.9	21.8	21.9	17.4	17.5	17.6
		1	99	22.0	22.4	21.9	21.8	21.8	17.5	17.5	17.6
		50	0	21.0	21.4	20.7	20.6	20.7	16.9	16.8	16.8
		50	24	21.0	21.4	20.8	20.7	20.7	16.9	16.8	16.8
		50	50	21.0	21.4	20.7	20.7	20.7	16.9	16.9	16.9
		100	0	21.0	21.4	20.8	20.7	20.7	16.8	16.8	16.9

3.3.16 LTE700 (Band 28b), Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27645 / 746.5 MHz	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27645 / 746.5 MHz
LTE28b 3 MHz	QPSK	1	0	23.0	23.4	22.8	22.9	22.9			
		1	7	23.0	23.4	22.8	22.9	22.9			
		1	14	23.0	23.4	22.8	23.0	22.9			
		8	0	22.0	22.4	21.8	22.0	21.9			
		8	3	22.0	22.4	21.8	21.9	21.9			
		8	7	22.0	22.4	21.9	21.9	21.8			
		15	0	22.0	22.4	21.9	22.0	21.9			
	16QAM	1	0	22.0	22.4	21.9	22.1	22.0			
		1	7	22.0	22.4	21.9	22.0	21.9			
		1	14	22.0	22.4	21.9	22.1	22.0			
		8	0	21.0	21.4	20.8	20.9	20.8			
		8	3	21.0	21.4	20.8	20.9	20.8			
		8	7	21.0	21.4	20.9	21.0	20.8			
		15	0	21.0	21.4	20.8	20.9	20.8			
SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27635 / 745.5 MHz	Ch27385 / 720.5 MHz	Ch27515 / 733.5 MHz	Ch27635 / 745.5 MHz
LTE28b 5 MHz	QPSK	1	0	23.0	23.4	22.8	22.9	22.9	22.8	22.8	22.8
		1	12	23.0	23.4	22.8	22.9	22.8	22.8	22.9	22.8
		1	24	23.0	23.4	22.9	22.9	22.8	22.7	22.9	22.9
		12	0	22.0	22.4	21.8	22.0	21.9	21.8	22.0	21.9
		12	6	22.0	22.4	21.8	22.0	21.9	21.8	22.0	21.8
		12	13	22.0	22.4	21.9	21.9	21.9	21.9	21.9	21.9
		25	0	22.0	22.4	21.9	22.0	22.0	21.9	22.0	21.9
	16QAM	1	0	22.0	22.4	21.9	21.9	22.0	22.0	22.1	21.9
		1	12	22.0	22.4	21.8	22.0	22.0	21.9	22.1	22.0
		1	24	22.0	22.4	21.9	22.0	22.0	22.0	21.8	21.7
		12	0	21.0	21.4	20.8	20.9	20.9	20.8	21.0	20.9
		12	6	21.0	21.4	20.8	20.9	20.9	20.8	21.0	20.9
		12	13	21.0	21.4	20.8	20.9	20.9	20.9	21.0	20.9
		25	0	21.0	21.4	20.9	20.9	20.9	20.9	21.0	20.9

(LTE700 (Band 28b), Antenna 2/ RM-1064 table continues)

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(LTE700 (Band 28b), Antenna 2/ RM-1064 table continues)

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27410 / 723 MHz	Ch27510 / 733 MHz	Ch27610 / 743 MHz	Ch27410 / 723 MHz	Ch27510 / 733 MHz	Ch27610 / 743 MHz
LTE28b 10 MHz	QPSK	1	0	23.0	23.4	22.7	22.7	22.8	18.8	18.8	18.9
		1	24	23.0	23.4	22.8	22.8	22.8	18.9	18.9	18.9
		1	49	23.0	23.4	22.8	22.7	22.8	18.9	18.9	18.9
		25	0	22.0	22.4	21.9	21.9	21.9	17.9	17.8	17.8
		25	12	22.0	22.4	21.9	21.9	22.0	17.9	17.8	17.9
		25	25	22.0	22.4	21.9	21.9	22.0	17.8	17.8	17.9
		50	0	22.0	22.4	21.9	21.9	21.9	17.9	17.9	18.0
	16QAM	1	0	22.0	22.4	21.4	21.6	21.6	17.9	17.7	17.7
		1	24	22.0	22.4	21.5	21.6	21.7	18.0	17.6	17.8
		1	49	22.0	22.4	21.5	21.7	21.7	18.1	17.7	17.7
		25	0	21.0	21.4	20.9	20.9	20.8	17.0	16.9	17.0
		25	12	21.0	21.4	20.9	20.9	20.9	17.0	17.0	17.1
		25	25	21.0	21.4	20.9	20.9	20.9	17.0	16.9	17.0
		50	0	21.0	21.4	20.9	20.9	20.8	17.0	16.9	17.0

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27435 / 725.5 MHz	Ch27510 / 733 MHz	Ch27585 / 740.5 MHz	Ch27435 / 725.5 MHz	Ch27510 / 733 MHz	Ch27585 / 740.5 MHz
LTE28b 15 MHz	QPSK	1	0	23.0	23.4	22.7	22.7	22.8	19.0	18.8	18.8
		1	36	23.0	23.4	22.8	22.7	22.9	19.0	18.9	19.0
		1	74	23.0	23.4	22.9	22.8	22.8	19.0	18.9	18.9
		36	0	22.0	22.4	21.9	21.8	21.8	17.8	17.8	17.9
		36	18	22.0	22.4	21.9	21.8	21.8	17.8	17.8	17.8
		36	38	22.0	22.4	21.9	21.8	21.8	17.9	17.8	17.9
		75	0	22.0	22.4	21.9	21.9	21.9	17.9	17.8	17.8
	16QAM	1	0	22.0	22.4	22.0	21.8	21.8	17.9	17.9	17.7
		1	36	22.0	22.4	21.9	21.9	21.9	18.0	18.0	17.8
		1	74	22.0	22.4	22.0	21.9	21.7	18.1	18.1	17.7
		36	0	21.0	21.4	20.8	20.8	20.8	16.9	16.8	16.9
		36	18	21.0	21.4	20.7	20.7	20.7	16.9	16.8	16.9
		36	38	21.0	21.4	20.8	20.7	20.8	16.9	16.9	17.0
		75	0	21.0	21.4	20.8	20.8	20.8	16.9	16.9	16.9

SN: 004402741051423						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch27435 / 725.5 MHz	Ch27498 / 731.8 MHz	Ch27560 / 738 MHz	Ch27435 / 725.5 MHz	Ch27498 / 731.8 MHz	Ch27560 / 738 MHz
LTE28b 20 MHz	QPSK	1	0	23.0	23.4	22.7	22.6	22.7	18.9	18.8	18.8
		1	49	23.0	23.4	22.8	22.7	22.7	19.0	18.9	18.9
		1	99	23.0	23.4	22.9	22.8	22.8	19.0	19.0	18.9
		50	0	22.0	22.4	21.9	21.8	21.8	17.8	17.8	17.9
		50	24	22.0	22.4	21.9	21.8	21.8	17.9	17.8	17.8
		50	50	22.0	22.4	21.9	21.8	21.8	17.9	17.8	17.8
		100	0	22.0	22.4	21.9	21.8	21.8	17.9	17.9	17.8
	16QAM	1	0	22.0	22.4	21.7	21.8	21.9	17.5	17.6	17.6
		1	49	22.0	22.4	21.9	21.8	22.0	17.6	17.7	17.7
		1	99	22.0	22.4	21.9	21.9	21.9	17.7	17.8	17.8
		50	0	21.0	21.4	20.7	20.7	20.8	16.9	16.8	16.9
		50	24	21.0	21.4	20.7	20.7	20.8	16.8	16.9	16.9
		50	50	21.0	21.4	20.8	20.8	20.8	16.9	16.9	16.9
		100	0	21.0	21.4	20.8	20.8	20.8	16.9	16.9	16.9

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3.3.17 LTE850 (Band 5), Antenna 1 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741071728						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20407 / 824.7 MHz	Ch20525 / 836.5 MHz	Ch20643 / 848.3 MHz	Ch20407 / 824.7 MHz	Ch20525 / 836.5 MHz	Ch20643 / 848.3 MHz
LTE5 1.4 MHz	QPSK	1	0	23.5	23.9	23.8	23.8	23.8			
		1	2	23.5	23.9	23.8	23.7	23.8			
		1	5	23.5	23.9	23.8	23.8	23.8			
		3	0	23.5	23.9	23.8	23.8	23.9			
		3	2	23.5	23.9	23.8	23.8	23.8			
		3	3	23.5	23.9	23.8	23.8	23.8			
		6	0	22.5	22.9	22.8	22.8	22.8			
	16QAM	1	0	22.5	22.9	22.6	22.6	22.9			
		1	2	22.5	22.9	22.7	22.6	22.9			
		1	5	22.5	22.9	22.6	22.6	22.9			
		3	0	22.5	22.9	22.7	22.8	22.8			
		3	2	22.5	22.9	22.7	22.7	22.8			
		3	3	22.5	22.9	22.7	22.8	22.8			
		6	0	21.5	21.9	21.8	21.8	21.9			

SN: 004402741071728						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20415 / 825.5 MHz	Ch20525 / 836.5 MHz	Ch20635 / 847.5 MHz	Ch20415 / 825.5 MHz	Ch20525 / 836.5 MHz	Ch20635 / 847.5 MHz
LTE5 3 MHz	QPSK	1	0	23.5	23.9	23.8	23.7	23.8			
		1	7	23.5	23.9	23.8	23.7	23.8			
		1	14	23.5	23.9	23.8	23.8	23.8			
		8	0	22.5	22.9	22.7	22.7	22.8			
		8	3	22.5	22.9	22.7	22.7	22.8			
		8	7	22.5	22.9	22.7	22.7	22.7			
		15	0	22.5	22.9	22.7	22.7	22.8			
	16QAM	1	0	22.5	22.9	22.6	22.6	22.8			
		1	7	22.5	22.9	22.6	22.6	22.9			
		1	14	22.5	22.9	22.6	22.6	22.9			
		8	0	21.5	21.9	21.8	21.8	21.9			
		8	3	21.5	21.9	21.8	21.8	21.9			
		8	7	21.5	21.9	21.8	21.8	21.8			
		15	0	21.5	21.9	21.8	21.8	21.8			

SN: 004402741071728						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20425 / 826.5 MHz	Ch20525 / 836.5 MHz	Ch20625 / 846.5 MHz	Ch20425 / 826.5 MHz	Ch20525 / 836.5 MHz	Ch20625 / 846.5 MHz
LTE5 5 MHz	QPSK	1	0	23.5	23.9	23.8	23.7	23.8			
		1	12	23.5	23.9	23.7	23.7	23.8			
		1	24	23.5	23.9	23.8	23.7	23.8			
		12	0	22.5	22.9	22.7	22.7	22.7			
		12	6	22.5	22.9	22.7	22.7	22.7			
		12	13	22.5	22.9	22.7	22.7	22.7			
		25	0	22.5	22.9	22.7	22.7	22.8			
	16QAM	1	0	22.5	22.9	22.6	22.6	22.8			
		1	12	22.5	22.9	22.5	22.6	22.8			
		1	24	22.5	22.9	22.5	22.7	22.9			
		12	0	21.5	21.9	21.8	21.8	21.9			
		12	6	21.5	21.9	21.8	21.8	21.9			
		12	13	21.5	21.9	21.8	21.8	21.9			
		25	0	21.5	21.9	21.7	21.7	21.8			

(LTE850 (Band 5), Antenna 1/ RM-1065 table continues)

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(LTE850 (Band 5), Antenna 1/ RM-1065 table continues)

SN: 004402741071728						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20450 / 829 MHz	Ch20525 / 836.5 MHz	Ch20600 / 844 MHz	Ch20450 / 829 MHz	Ch20525 / 836.5 MHz	Ch20600 / 844 MHz
LTE5 10 MHz	QPSK	1	0	23.5	23.9	23.8	23.7	23.7			
		1	24	23.5	23.9	23.8	23.7	23.8			
		1	49	23.5	23.9	23.8	23.7	23.7			
		25	0	22.5	22.9	22.7	22.7	22.7			
		25	12	22.5	22.9	22.7	22.7	22.7			
		25	25	22.5	22.9	22.7	22.7	22.7			
		50	0	22.5	22.9	22.8	22.8	22.7			
	16QAM	1	0	22.5	22.9	22.8	22.9	22.9			
		1	24	22.5	22.9	22.8	22.8	22.9			
		1	49	22.5	22.9	22.9	22.8	22.9			
		25	0	21.5	21.9	21.8	21.8	21.8			
		25	12	21.5	21.9	21.7	21.8	21.8			
		25	25	21.5	21.9	21.8	21.8	21.8			
		50	0	21.5	21.9	21.8	21.8	21.8			

3.3.18 LTE850 (Band 5), Antenna 1 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051514						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20407 / 824.7 MHz	Ch20525 / 836.5 MHz	Ch20643 / 848.3 MHz	Ch20407 / 824.7 MHz	Ch20525 / 836.5 MHz	Ch20643 / 848.3 MHz
LTE5 1.4 MHz	QPSK	1	0	23.5	23.9	23.5	23.6	23.6			
		1	2	23.5	23.9	23.5	23.5	23.6			
		1	5	23.5	23.9	23.3	23.5	23.5			
		3	0	23.5	23.9	23.6	23.6	23.6			
		3	2	23.5	23.9	23.6	23.6	23.6			
		3	3	23.5	23.9	23.6	23.6	23.6			
		6	0	22.5	22.9	22.5	22.5	22.6			
	16QAM	1	0	22.5	22.9	22.4	22.5	22.5			
		1	2	22.5	22.9	22.3	22.4	22.5			
		1	5	22.5	22.9	22.4	22.4	22.4			
		3	0	22.5	22.9	22.5	22.6	22.6			
		3	2	22.5	22.9	22.4	22.5	22.5			
		3	3	22.5	22.9	22.4	22.5	22.6			
		6	0	21.5	21.9	21.5	21.6	21.6			
SN: 004402741051514						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20415 / 825.5 MHz	Ch20525 / 836.5 MHz	Ch20635 / 847.5 MHz	Ch20415 / 825.5 MHz	Ch20525 / 836.5 MHz	Ch20635 / 847.5 MHz
LTE5 3 MHz	QPSK	1	0	23.5	23.9	23.5	23.5	23.6			
		1	7	23.5	23.9	23.5	23.5	23.5			
		1	14	23.5	23.9	23.5	23.5	23.6			
		8	0	22.5	22.9	22.5	22.4	22.5			
		8	3	22.5	22.9	22.5	22.5	22.5			
		8	7	22.5	22.9	22.4	22.5	22.5			
		15	0	22.5	22.9	22.5	22.5	22.5			
	16QAM	1	0	22.5	22.9	22.6	22.7	22.7			
		1	7	22.5	22.9	22.6	22.7	22.7			
		1	14	22.5	22.9	22.6	22.7	22.7			
		8	0	21.5	21.9	21.6	21.6	21.6			
		8	3	21.5	21.9	21.6	21.6	21.6			
		8	7	21.5	21.9	21.6	21.6	21.7			
		15	0	21.5	21.9	21.6	21.6	21.6			

(LTE850 (Band 5), Antenna 1/ RM-1064 table continues)

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(LTE850 (Band 5), Antenna 1/ RM-1064 table continues)

SN: 004402741051514						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20425 / 826.5 MHz	Ch20525 / 836.5 MHz	Ch20625 / 846.5 MHz	Ch20425 / 826.5 MHz	Ch20525 / 836.5 MHz	Ch20625 / 846.5 MHz
LTE5 5 MHz	QPSK	1	0	23.5	23.9	23.5	23.5	23.5			
		1	12	23.5	23.9	23.5	23.5	23.5			
		1	24	23.5	23.9	23.5	23.5	23.5			
		12	0	22.5	22.9	22.4	22.5	22.5			
		12	6	22.5	22.9	22.5	22.4	22.5			
		12	13	22.5	22.9	22.5	22.5	22.5			
		25	0	22.5	22.9	22.5	22.5	22.5			
	16QAM	1	0	22.5	22.9	22.3	22.3	22.5			
		1	12	22.5	22.9	22.3	22.3	22.4			
		1	24	22.5	22.9	22.3	22.3	22.5			
		12	0	21.5	21.9	21.6	21.6	21.6			
		12	6	21.5	21.9	21.6	21.6	21.5			
		12	13	21.5	21.9	21.6	21.6	21.6			
		25	0	21.5	21.9	21.6	21.6	21.6			
SN: 004402741051514						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20450 / 829 MHz	Ch20525 / 836.5 MHz	Ch20600 / 844 MHz	Ch20450 / 829 MHz	Ch20525 / 836.5 MHz	Ch20600 / 844 MHz
LTE5 10 MHz	QPSK	1	0	23.5	23.9	23.5	23.5	23.5			
		1	24	23.5	23.9	23.5	23.5	23.5			
		1	49	23.5	23.9	23.5	23.5	23.5			
		25	0	22.5	22.9	22.5	22.5	22.5			
		25	12	22.5	22.9	22.4	22.5	22.5			
		25	25	22.5	22.9	22.5	22.5	22.5			
		50	0	22.5	22.9	22.5	22.6	22.6			
	16QAM	1	0	22.5	22.9	22.5	22.6	22.6			
		1	24	22.5	22.9	22.6	22.6	22.7			
		1	49	22.5	22.9	22.5	22.5	22.7			
		25	0	21.5	21.9	21.6	21.5	21.6			
		25	12	21.5	21.9	21.5	21.5	21.6			
		25	25	21.5	21.9	21.6	21.6	21.6			
		50	0	21.5	21.9	21.6	21.6	21.7			

3.3.19 LTE850 (Band 5), Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741071728						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20407 / 824.7 MHz	Ch20525 / 836.5 MHz	Ch20643 / 848.3 MHz	Ch20407 / 824.7 MHz	Ch20525 / 836.5 MHz	Ch20643 / 848.3 MHz
LTE5 1.4 MHz	QPSK	1	0	23.5	23.9	23.6	23.6	23.6			
		1	2	23.5	23.9	23.6	23.5	23.6			
		1	5	23.5	23.9	23.6	23.6	23.6			
		3	0	23.5	23.9	23.6	23.6	23.7			
		3	2	23.5	23.9	23.6	23.6	23.6			
		3	3	23.5	23.9	23.6	23.6	23.6			
		6	0	22.5	22.9	22.6	22.6	22.6			
	16QAM	1	0	22.5	22.9	22.4	22.4	22.7			
		1	2	22.5	22.9	22.5	22.4	22.7			
		1	5	22.5	22.9	22.4	22.4	22.7			
		3	0	22.5	22.9	22.5	22.6	22.6			
		3	2	22.5	22.9	22.5	22.5	22.6			
		3	3	22.5	22.9	22.5	22.6	22.6			
		6	0	21.5	21.9	21.6	21.6	21.7			

(LTE850 (Band 5), Antenna 2/ RM-1065 table continues)

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(LTE850 (Band 5), Antenna 2/ RM-1065 table continues)

SN: 004402741071728						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20415 / 825.5 MHz	Ch20525 / 836.5 MHz	Ch20635 / 847.5 MHz	Ch20415 / 825.5 MHz	Ch20525 / 836.5 MHz	Ch20635 / 847.5 MHz
LTE5 3 MHz	QPSK	1	0	23.5	23.9	23.6	23.5	23.6			
		1	7	23.5	23.9	23.6	23.5	23.6			
		1	14	23.5	23.9	23.6	23.6	23.6			
		8	0	22.5	22.9	22.5	22.5	22.6			
		8	3	22.5	22.9	22.5	22.5	22.6			
		8	7	22.5	22.9	22.5	22.5	22.5			
		15	0	22.5	22.9	22.5	22.5	22.6			
	16QAM	1	0	22.5	22.9	22.4	22.4	22.6			
		1	7	22.5	22.9	22.4	22.4	22.7			
		1	14	22.5	22.9	22.4	22.4	22.7			
		8	0	21.5	21.9	21.6	21.6	21.7			
		8	3	21.5	21.9	21.6	21.6	21.7			
		8	7	21.5	21.9	21.6	21.6	21.6			
		15	0	21.5	21.9	21.6	21.6	21.6			

SN: 004402741071728						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20425 / 826.5 MHz	Ch20525 / 836.5 MHz	Ch20625 / 846.5 MHz	Ch20425 / 826.5 MHz	Ch20525 / 836.5 MHz	Ch20625 / 846.5 MHz
LTE5 5 MHz	QPSK	1	0	23.5	23.9	23.6	23.5	23.6			
		1	12	23.5	23.9	23.5	23.5	23.6			
		1	24	23.5	23.9	23.6	23.5	23.6			
		12	0	22.5	22.9	22.5	22.5	22.5			
		12	6	22.5	22.9	22.5	22.5	22.5			
		12	13	22.5	22.9	22.5	22.5	22.5			
		25	0	22.5	22.9	22.5	22.5	22.6			
	16QAM	1	0	22.5	22.9	22.4	22.4	22.6			
		1	12	22.5	22.9	22.3	22.4	22.6			
		1	24	22.5	22.9	22.3	22.5	22.7			
		12	0	21.5	21.9	21.6	21.6	21.7			
		12	6	21.5	21.9	21.6	21.6	21.7			
		12	13	21.5	21.9	21.6	21.6	21.7			
		25	0	21.5	21.9	21.5	21.5	21.6			

SN: 004402741071728						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20450 / 829 MHz	Ch20525 / 836.5 MHz	Ch20600 / 844 MHz	Ch20450 / 829 MHz	Ch20525 / 836.5 MHz	Ch20600 / 844 MHz
LTE5 10 MHz	QPSK	1	0	23.5	23.9	23.6	23.5	23.5			
		1	24	23.5	23.9	23.6	23.5	23.6			
		1	49	23.5	23.9	23.6	23.5	23.5			
		25	0	22.5	22.9	22.5	22.5	22.5			
		25	12	22.5	22.9	22.5	22.5	22.5			
		25	25	22.5	22.9	22.5	22.5	22.5			
		50	0	22.5	22.9	22.6	22.6	22.5			
	16QAM	1	0	22.5	22.9	22.6	22.7	22.7			
		1	24	22.5	22.9	22.6	22.6	22.7			
		1	49	22.5	22.9	22.7	22.6	22.7			
		25	0	21.5	21.9	21.6	21.6	21.6			
		25	12	21.5	21.9	21.5	21.6	21.6			
		25	25	21.5	21.9	21.6	21.6	21.6			
		50	0	21.5	21.9	21.6	21.6	21.6			

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3.3.20 LTE850 (Band 5), Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051514						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20407 / 824.7 MHz	Ch20525 / 836.5 MHz	Ch20643 / 848.3 MHz	Ch20407 / 824.7 MHz	Ch20525 / 836.5 MHz	Ch20643 / 848.3 MHz
LTE5 1.4 MHz	QPSK	1	0	23.5	23.9	23.3	23.4	23.4			
		1	2	23.5	23.9	23.3	23.3	23.4			
		1	5	23.5	23.9	23.1	23.3	23.3			
		3	0	23.5	23.9	23.4	23.4	23.4			
		3	2	23.5	23.9	23.4	23.4	23.4			
		3	3	23.5	23.9	23.4	23.4	23.4			
		6	0	22.5	22.9	22.3	22.3	22.4			
	16QAM	1	0	22.5	22.9	22.2	22.3	22.3			
		1	2	22.5	22.9	22.1	22.2	22.3			
		1	5	22.5	22.9	22.2	22.2	22.2			
		3	0	22.5	22.9	22.3	22.4	22.4			
		3	2	22.5	22.9	22.2	22.3	22.3			
		3	3	22.5	22.9	22.2	22.3	22.4			
		6	0	21.5	21.9	21.3	21.4	21.4			

SN: 004402741051514						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20415 / 825.5 MHz	Ch20525 / 836.5 MHz	Ch20635 / 847.5 MHz	Ch20415 / 825.5 MHz	Ch20525 / 836.5 MHz	Ch20635 / 847.5 MHz
LTE5 3 MHz	QPSK	1	0	23.5	23.9	23.3	23.3	23.4			
		1	7	23.5	23.9	23.3	23.3	23.3			
		1	14	23.5	23.9	23.3	23.3	23.4			
		8	0	22.5	22.9	22.3	22.2	22.3			
		8	3	22.5	22.9	22.3	22.3	22.3			
		8	7	22.5	22.9	22.2	22.3	22.3			
		15	0	22.5	22.9	22.3	22.3	22.3			
	16QAM	1	0	22.5	22.9	22.4	22.5	22.5			
		1	7	22.5	22.9	22.4	22.5	22.5			
		1	14	22.5	22.9	22.4	22.5	22.5			
		8	0	21.5	21.9	21.4	21.4	21.4			
		8	3	21.5	21.9	21.4	21.4	21.4			
		8	7	21.5	21.9	21.4	21.4	21.5			
		15	0	21.5	21.9	21.4	21.4	21.4			

SN: 004402741051514						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20425 / 826.5 MHz	Ch20525 / 836.5 MHz	Ch20625 / 846.5 MHz	Ch20425 / 826.5 MHz	Ch20525 / 836.5 MHz	Ch20625 / 846.5 MHz
LTE5 5 MHz	QPSK	1	0	23.5	23.9	23.3	23.3	23.3			
		1	12	23.5	23.9	23.3	23.3	23.3			
		1	24	23.5	23.9	23.3	23.3	23.3			
		12	0	22.5	22.9	22.2	22.3	22.3			
		12	6	22.5	22.9	22.3	22.2	22.3			
		12	13	22.5	22.9	22.3	22.3	22.3			
		25	0	22.5	22.9	22.3	22.3	22.3			
	16QAM	1	0	22.5	22.9	22.1	22.1	22.3			
		1	12	22.5	22.9	22.1	22.1	22.2			
		1	24	22.5	22.9	22.1	22.1	22.3			
		12	0	21.5	21.9	21.4	21.4	21.4			
		12	6	21.5	21.9	21.4	21.4	21.3			
		12	13	21.5	21.9	21.4	21.4	21.4			
		25	0	21.5	21.9	21.4	21.4	21.4			

(LTE850 (Band 5), Antenna 2/ RM-1064 table continues)

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(LTE850 (Band 5), Antenna 2/ RM-1064 table continues)

SN: 004402741051514						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20450 / 829 MHz	Ch20525 / 836.5 MHz	Ch20600 / 844 MHz	Ch20450 / 829 MHz	Ch20525 / 836.5 MHz	Ch20600 / 844 MHz
LTE5 10 MHz	QPSK	1	0	23.5	23.9	23.3	23.3	23.3			
		1	24	23.5	23.9	23.3	23.3	23.3			
		1	49	23.5	23.9	23.3	23.3	23.3			
		25	0	22.5	22.9	22.3	22.3	22.3			
		25	12	22.5	22.9	22.2	22.3	22.3			
		25	25	22.5	22.9	22.3	22.3	22.3			
		50	0	22.5	22.9	22.3	22.4	22.4			
	16QAM	1	0	22.5	22.9	22.3	22.4	22.4			
		1	24	22.5	22.9	22.4	22.4	22.5			
		1	49	22.5	22.9	22.3	22.3	22.5			
		25	0	21.5	21.9	21.4	21.3	21.4			
		25	12	21.5	21.9	21.3	21.3	21.4			
		25	25	21.5	21.9	21.4	21.4	21.4			
		50	0	21.5	21.9	21.4	21.4	21.5			

3.3.21 LTE1700/2100 (Band 4), Antenna 1 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19957 / 1710.7 MHz	Ch20175 / 1732.5 MHz	Ch20393 / 1754.3 MHz	Ch19957 / 1710.7 MHz	Ch20175 / 1732.5 MHz	Ch20393 / 1754.3 MHz
LTE4 1.4 MHz	QPSK	1	0	23.2	23.6	23.4	23.3	23.5			
		1	2	23.2	23.6	23.4	23.2	23.4			
		1	5	23.2	23.6	23.4	23.2	23.5			
		3	0	23.2	23.6	23.5	23.3	23.5			
		3	2	23.2	23.6	23.5	23.3	23.5			
		3	3	23.2	23.6	23.5	23.3	23.5			
		6	0	22.2	22.6	22.5	22.3	22.4			
	16QAM	1	0	22.2	22.6	22.5	22.3	22.6			
		1	2	22.2	22.6	22.5	22.3	22.6			
		1	5	22.2	22.6	22.4	22.3	22.7			
		3	0	22.2	22.6	22.4	22.2	22.3			
		3	2	22.2	22.6	22.4	22.2	22.4			
		3	3	22.2	22.6	22.4	22.2	22.3			
		6	0	21.2	21.6	21.4	21.2	21.4			
SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19965 / 1711.5 MHz	Ch20175 / 1732.5 MHz	Ch20385 / 1753.5 MHz	Ch19965 / 1711.5 MHz	Ch20175 / 1732.5 MHz	Ch20385 / 1753.5 MHz
LTE4 3 MHz	QPSK	1	0	23.2	23.6	23.4	23.3	23.4	23.4	23.2	23.3
		1	7	23.2	23.6	23.4	23.2	23.5	23.3	23.2	23.3
		1	14	23.2	23.6	23.4	23.2	23.4	23.4	23.2	23.4
		8	0	22.2	22.6	22.4	22.2	22.4	21.4	21.1	21.3
		8	3	22.2	22.6	22.4	22.2	22.4	21.4	21.1	21.3
		8	7	22.2	22.6	22.4	22.2	22.4	21.3	21.1	21.3
		15	0	22.2	22.6	22.4	22.2	22.4	21.4	21.1	21.4
	16QAM	1	0	22.2	22.6	22.2	22.3	22.5	22.1	22.0	22.2
		1	7	22.2	22.6	22.1	22.3	22.4	22.0	22.0	22.2
		1	14	22.2	22.6	22.3	22.3	22.4	22.1	22.0	22.3
		8	0	21.2	21.6	21.3	21.2	21.4	20.3	20.2	20.4
		8	3	21.2	21.6	21.4	21.2	21.4	20.3	20.2	20.4
		8	7	21.2	21.6	21.3	21.2	21.4	20.3	20.3	20.5
		15	0	21.2	21.6	21.4	21.2	21.4	20.2	20.1	20.4

(LTE1700/2100 (Band 4), Antenna 1/ RM-1065 table continues)

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(LTE1700/2100 (Band 4), Antenna 1/ RM-1065 table continues)

SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19975 / 1712.5 MHz	Ch20175 / 1732.5 MHz	Ch20375 / 1752.5 MHz	Ch19975 / 1712.5 MHz	Ch20175 / 1732.5 MHz	Ch20375 / 1752.5 MHz
LTE4 5 MHz	QPSK	1	0	23.2	23.6	23.4	23.2	23.4	23.4	23.2	23.3
		1	12	23.2	23.6	23.4	23.2	23.3	23.4	23.1	23.3
		1	24	23.2	23.6	23.3	23.2	23.4	23.3	23.1	23.4
		12	0	22.2	22.6	22.4	22.2	22.3	21.3	21.1	21.3
		12	6	22.2	22.6	22.5	22.2	22.4	21.3	21.1	21.3
		12	13	22.2	22.6	22.4	22.2	22.3	21.3	21.1	21.3
		25	0	22.2	22.6	22.5	22.2	22.4	21.4	21.1	21.3
	16QAM	1	0	22.2	22.6	22.5	22.4	22.5	22.1	22.0	22.3
		1	12	22.2	22.6	22.5	22.3	22.5	22.0	22.0	22.3
		1	24	22.2	22.6	22.3	22.3	22.5	22.0	21.9	22.4
		12	0	21.2	21.6	21.4	21.2	21.4	20.3	20.2	20.4
		12	6	21.2	21.6	21.5	21.2	21.3	20.3	20.2	20.4
		12	13	21.2	21.6	21.5	21.1	21.3	20.3	20.2	20.5
		25	0	21.2	21.6	21.5	21.2	21.4	20.4	20.1	20.3

SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20000 / 1715 MHz	Ch20175 / 1732.5 MHz	Ch20350 / 1750 MHz	Ch20000 / 1715 MHz	Ch20175 / 1732.5 MHz	Ch20350 / 1750 MHz
LTE4 10 MHz	QPSK	1	0	23.2	23.6	23.4	23.2	23.4	23.4	23.2	23.3
		1	24	23.2	23.6	23.3	23.2	23.3	23.3	23.2	23.3
		1	49	23.2	23.6	23.3	23.1	23.3	23.2	23.1	23.3
		25	0	22.2	22.6	22.4	22.3	22.3	21.4	21.1	21.3
		25	12	22.2	22.6	22.3	22.2	22.4	21.3	21.1	21.2
		25	25	22.2	22.6	22.3	22.1	22.3	21.3	21.1	21.3
		50	0	22.2	22.6	22.4	22.2	22.4	21.4	21.3	21.3
	16QAM	1	0	22.2	22.6	22.1	22.1	22.3	22.6	22.4	22.5
		1	24	22.2	22.6	21.9	22.0	22.2	22.4	22.3	22.5
		1	49	22.2	22.6	21.9	21.9	22.2	22.3	22.3	22.5
		25	0	21.2	21.6	21.3	21.2	21.3	20.4	20.3	20.4
		25	12	21.2	21.6	21.3	21.1	21.3	20.3	20.2	20.4
		25	25	21.2	21.6	21.2	21.1	21.3	20.3	20.3	20.4
		50	0	21.2	21.6	21.3	21.2	21.3	20.3	20.3	20.4

SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20025 / 1717.5 MHz	Ch20175 / 1732.5 MHz	Ch20325 / 1747.5 MHz	Ch20025 / 1717.5 MHz	Ch20175 / 1732.5 MHz	Ch20325 / 1747.5 MHz
LTE4 15 MHz	QPSK	1	0	23.2	23.6	23.4	23.2	23.4	23.4	23.2	23.2
		1	36	23.2	23.6	23.3	23.2	23.3	23.3	23.2	23.3
		1	74	23.2	23.6	23.3	23.1	23.3	23.2	23.0	23.3
		36	0	22.2	22.6	22.4	22.2	22.4	21.3	21.2	21.2
		36	18	22.2	22.6	22.4	22.2	22.4	21.3	21.1	21.3
		36	38	22.2	22.6	22.3	22.1	22.4	21.2	21.1	21.2
		75	0	22.2	22.6	22.5	22.2	22.4	21.3	21.2	21.3
	16QAM	1	0	22.2	22.6	22.5	22.3	22.6	22.2	22.0	22.4
		1	36	22.2	22.6	22.3	22.3	22.5	22.0	22.0	22.2
		1	74	22.2	22.6	22.3	22.2	22.5	22.0	22.0	22.4
		36	0	21.2	21.6	21.3	21.1	21.3	20.2	20.2	20.3
		36	18	21.2	21.6	21.2	21.1	21.3	20.2	20.2	20.3
		36	38	21.2	21.6	21.2	21.1	21.3	20.2	20.1	20.3
		75	0	21.2	21.6	21.3	21.2	21.3	20.3	20.2	20.4

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(LTE1700/2100 (Band 4), Antenna 1/ RM-1065 table continues)

SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20050 / 1720 MHz	Ch20175 / 1732.5 MHz	Ch20300 / 1745 MHz	Ch20050 / 1720 MHz	Ch20175 / 1732.5 MHz	Ch20300 / 1745 MHz
LTE4 20 MHz	QPSK	1	0	23.2	23.6	23.4	23.3	23.2	23.4	23.2	23.3
		1	49	23.2	23.6	23.3	23.2	23.2	23.3	23.2	23.2
		1	99	23.2	23.6	23.2	23.1	23.2	23.2	23.1	23.2
		50	0	22.2	22.6	22.4	22.3	22.3	21.3	21.2	21.2
		50	24	22.2	22.6	22.4	22.2	22.3	21.4	21.1	21.2
		50	50	22.2	22.6	22.3	22.2	22.2	21.2	21.1	21.1
		100	0	22.2	22.6	22.4	22.2	22.3	21.4	21.1	21.2
	16QAM	1	0	22.2	22.6	22.2	22.4	22.4	22.5	22.4	22.4
		1	49	22.2	22.6	22.1	22.3	22.3	22.4	22.3	22.4
		1	99	22.2	22.6	22.1	22.2	22.3	22.2	22.2	22.4
		50	0	21.2	21.6	21.2	21.2	21.2	20.4	20.2	20.3
		50	24	21.2	21.6	21.2	21.1	21.2	20.3	20.2	20.2
		50	50	21.2	21.6	21.1	21.1	21.2	20.2	20.2	20.3
		100	0	21.2	21.6	21.2	21.2	21.2	20.3	20.2	20.2

3.3.22 LTE1700/2100 (Band 4), Antenna 1 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19957 / 1710.7 MHz	Ch20175 / 1732.5 MHz	Ch20393 / 1754.3 MHz	Ch19957 / 1710.7 MHz	Ch20175 / 1732.5 MHz	Ch20393 / 1754.3 MHz
LTE4 1.4 MHz	QPSK	1	0	23.2	23.6	23.3	23.3	23.3			
		1	2	23.2	23.6	23.3	23.3	23.2			
		1	5	23.2	23.6	23.3	23.3	23.2			
		3	0	23.2	23.6	23.3	23.3	23.2			
		3	2	23.2	23.6	23.3	23.2	23.2			
		3	3	23.2	23.6	23.3	23.3	23.3			
		6	0	22.2	22.6	22.3	22.3	22.2			
	16QAM	1	0	22.2	22.6	22.4	22.4	22.0			
		1	2	22.2	22.6	22.5	22.4	22.1			
		1	5	22.2	22.6	22.5	22.5	22.0			
		3	0	22.2	22.6	22.2	22.1	22.1			
		3	2	22.2	22.6	22.1	22.1	22.1			
		3	3	22.2	22.6	22.1	22.1	22.1			
		6	0	21.2	21.6	21.2	21.2	21.0			
SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19965 / 1711.5 MHz	Ch20175 / 1732.5 MHz	Ch20385 / 1753.5 MHz	Ch19965 / 1711.5 MHz	Ch20175 / 1732.5 MHz	Ch20385 / 1753.5 MHz
LTE4 3 MHz	QPSK	1	0	23.2	23.6	23.2	23.3	23.3	23.3	23.2	23.3
		1	7	23.2	23.6	23.2	23.2	23.3	23.2	23.2	23.3
		1	14	23.2	23.6	23.2	23.3	23.4	23.2	23.3	23.4
		8	0	22.2	22.6	22.3	22.2	22.3	21.2	21.2	21.3
		8	3	22.2	22.6	22.2	22.2	22.3	21.2	21.2	21.3
		8	7	22.2	22.6	22.2	22.3	22.3	21.2	21.2	21.3
		15	0	22.2	22.6	22.3	22.2	22.3	21.2	21.2	21.3
	16QAM	1	0	22.2	22.6	22.1	22.1	22.3	22.1	22.1	22.2
		1	7	22.2	22.6	22.0	22.1	22.2	22.0	22.0	22.1
		1	14	22.2	22.6	22.1	22.2	22.3	21.9	22.1	22.3
		8	0	21.2	21.6	21.3	21.2	21.3	20.3	20.3	20.4
		8	3	21.2	21.6	21.3	21.2	21.3	20.3	20.3	20.4
		8	7	21.2	21.6	21.3	21.2	21.3	20.4	20.4	20.4
		15	0	21.2	21.6	21.2	21.3	21.3	20.3	20.2	20.4

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(LTE1700/2100 (Band 4), Antenna 1/ RM-1064 table continues)

SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19975 / 1712.5 MHz	Ch20175 / 1732.5 MHz	Ch20375 / 1752.5 MHz	Ch19975 / 1712.5 MHz	Ch20175 / 1732.5 MHz	Ch20375 / 1752.5 MHz
LTE4 5 MHz	QPSK	1	0	23.2	23.6	23.3	23.2	23.2	23.3	23.2	23.3
		1	12	23.2	23.6	23.3	23.2	23.3	23.3	23.2	23.3
		1	24	23.2	23.6	23.3	23.2	23.3	23.3	23.2	23.3
		12	0	22.2	22.6	22.2	22.2	22.3	21.2	21.2	21.3
		12	6	22.2	22.6	22.1	22.2	22.2	21.2	21.2	21.3
		12	13	22.2	22.6	22.2	22.2	22.3	21.2	21.2	21.2
		25	0	22.2	22.6	22.3	22.3	22.3	21.2	21.2	21.3
	16QAM	1	0	22.2	22.6	22.3	22.4	22.4	22.3	22.4	22.4
		1	12	22.2	22.6	22.3	22.3	22.4	22.4	22.3	22.4
		1	24	22.2	22.6	22.3	22.3	22.6	22.3	22.4	22.5
		12	0	21.2	21.6	21.2	21.3	21.3	20.4	20.3	20.3
		12	6	21.2	21.6	21.2	21.2	21.3	20.3	20.3	20.3
		12	13	21.2	21.6	21.2	21.2	21.3	20.3	20.3	20.4
		25	0	21.2	21.6	21.2	21.2	21.3	20.3	20.3	20.4

SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20000 / 1715 MHz	Ch20175 / 1732.5 MHz	Ch20350 / 1750 MHz	Ch20000 / 1715 MHz	Ch20175 / 1732.5 MHz	Ch20350 / 1750 MHz
LTE4 10 MHz	QPSK	1	0	23.2	23.6	23.3	23.2	23.3	23.2	23.2	23.4
		1	24	23.2	23.6	23.2	23.2	23.3	23.2	23.2	23.4
		1	49	23.2	23.6	23.2	23.2	23.2	23.2	23.2	23.3
		25	0	22.2	22.6	22.3	22.3	22.4	21.2	21.3	21.4
		25	12	22.2	22.6	22.2	22.2	22.3	21.2	21.2	21.3
		25	25	22.2	22.6	22.2	22.2	22.3	21.2	21.2	21.2
		50	0	22.2	22.6	22.3	22.3	22.4	21.3	21.3	21.4
	16QAM	1	0	22.2	22.6	22.1	22.1	22.0	22.1	22.2	22.3
		1	24	22.2	22.6	22.0	22.0	22.0	22.1	22.1	22.3
		1	49	22.2	22.6	22.0	22.0	21.8	22.0	22.0	22.2
		25	0	21.2	21.6	21.4	21.3	21.4	20.4	20.4	20.5
		25	12	21.2	21.6	21.4	21.3	21.5	20.4	20.4	20.4
		25	25	21.2	21.6	21.3	21.3	21.3	20.3	20.3	20.3
		50	0	21.2	21.6	21.3	21.3	21.4	20.4	20.4	20.5

SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20025 / 1717.5 MHz	Ch20175 / 1732.5 MHz	Ch20325 / 1747.5 MHz	Ch20025 / 1717.5 MHz	Ch20175 / 1732.5 MHz	Ch20325 / 1747.5 MHz
LTE4 15 MHz	QPSK	1	0	23.2	23.6	23.2	23.3	23.2	23.3	23.3	23.3
		1	36	23.2	23.6	23.2	23.2	23.2	23.3	23.2	23.3
		1	74	23.2	23.6	23.1	23.1	23.1	23.2	23.2	23.2
		36	0	22.2	22.6	22.3	22.3	22.3	21.3	21.3	21.3
		36	18	22.2	22.6	22.3	22.2	22.2	21.3	21.2	21.2
		36	38	22.2	22.6	22.2	22.2	22.3	21.2	21.2	21.3
		75	0	22.2	22.6	22.3	22.3	22.3	21.3	21.3	21.3
	16QAM	1	0	22.2	22.6	22.0	22.1	22.1	22.4	22.4	22.3
		1	36	22.2	22.6	22.0	22.0	22.1	22.2	22.3	22.4
		1	74	22.2	22.6	21.9	21.9	22.0	22.2	22.2	22.2
		36	0	21.2	21.6	21.3	21.3	21.2	20.3	20.3	20.3
		36	18	21.2	21.6	21.2	21.2	21.2	20.3	20.3	20.2
		36	38	21.2	21.6	21.2	21.2	21.2	20.3	20.2	20.2
		75	0	21.2	21.6	21.4	21.3	21.2	20.4	20.4	20.3

(LTE1700/2100 (Band 4), Antenna 1/ RM-1064 table continues)

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(LTE1700/2100 (Band 4), Antenna 1/ RM-1064 table continues)

SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20050 / 1720 MHz	Ch20175 / 1732.5 MHz	Ch20300 / 1745 MHz	Ch20050 / 1720 MHz	Ch20175 / 1732.5 MHz	Ch20300 / 1745 MHz
LTE4 20 MHz	QPSK	1	0	23.2	23.6	23.3	23.3	23.3	23.3	23.3	23.3
		1	49	23.2	23.6	23.2	23.2	23.2	23.2	23.2	23.2
		1	99	23.2	23.6	23.2	23.1	23.0	23.1	23.1	23.1
		50	0	22.2	22.6	22.4	22.3	22.4	21.3	21.3	21.4
		50	24	22.2	22.6	22.3	22.3	22.3	21.3	21.3	21.3
		50	50	22.2	22.6	22.3	22.2	22.3	21.2	21.3	21.2
		100	0	22.2	22.6	22.4	22.3	22.3	21.2	21.3	21.3
	16QAM	1	0	22.2	22.6	22.2	22.5	22.3	22.6	22.2	22.1
		1	49	22.2	22.6	22.0	22.3	22.3	22.4	22.1	22.1
		1	99	22.2	22.6	22.0	22.3	22.1	22.3	22.0	22.1
		50	0	21.2	21.6	21.4	21.3	21.3	20.4	20.3	20.2
		50	24	21.2	21.6	21.3	21.3	21.2	20.3	20.3	20.3
		50	50	21.2	21.6	21.2	21.2	21.2	20.3	20.2	20.3
		100	0	21.2	21.6	21.3	21.3	21.3	20.4	20.3	20.3

3.3.23 LTE1700/2100 (Band 4), Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19957 / 1710.7 MHz	Ch20175 / 1732.5 MHz	Ch20393 / 1754.3 MHz	Ch19957 / 1710.7 MHz	Ch20175 / 1732.5 MHz	Ch20393 / 1754.3 MHz
LTE4 1.4 MHz	QPSK	1	0	23.2	23.6	23.0	22.9	23.1			
		1	2	23.2	23.6	23.0	22.8	23.0			
		1	5	23.2	23.6	23.0	22.8	23.1			
		3	0	23.2	23.6	23.1	22.9	23.1			
		3	2	23.2	23.6	23.1	22.9	23.1			
		3	3	23.2	23.6	23.1	22.9	23.1			
		6	0	22.2	22.6	22.1	21.9	22.0			
	16QAM	1	0	22.2	22.6	22.1	21.9	22.2			
		1	2	22.2	22.6	22.1	21.9	22.2			
		1	5	22.2	22.6	22.0	21.9	22.3			
		3	0	22.2	22.6	22.0	21.8	21.9			
		3	2	22.2	22.6	22.0	21.8	22.0			
		3	3	22.2	22.6	22.0	21.8	21.9			
		6	0	21.2	21.6	21.0	20.8	21.0			
SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19965 / 1711.5 MHz	Ch20175 / 1732.5 MHz	Ch20385 / 1753.5 MHz	Ch19965 / 1711.5 MHz	Ch20175 / 1732.5 MHz	Ch20385 / 1753.5 MHz
LTE4 3 MHz	QPSK	1	0	23.2	23.6	23.0	22.9	23.0	23.0	22.8	22.9
		1	7	23.2	23.6	23.0	22.8	23.1	22.9	22.8	22.9
		1	14	23.2	23.6	23.0	22.8	23.0	23.0	22.8	23.0
		8	0	22.2	22.6	22.0	21.8	22.0	21.0	20.7	20.9
		8	3	22.2	22.6	22.0	21.8	22.0	21.0	20.7	20.9
		8	7	22.2	22.6	22.0	21.8	22.0	20.9	20.7	20.9
		15	0	22.2	22.6	22.0	21.8	22.0	21.0	20.7	21.0
	16QAM	1	0	22.2	22.6	21.8	21.9	22.1	21.7	21.6	21.8
		1	7	22.2	22.6	21.7	21.9	22.0	21.6	21.6	21.8
		1	14	22.2	22.6	21.9	21.9	22.0	21.7	21.6	21.9
		8	0	21.2	21.6	20.9	20.8	21.0	19.9	19.8	20.0
		8	3	21.2	21.6	21.0	20.8	21.0	19.9	19.8	20.0
		8	7	21.2	21.6	20.9	20.8	21.0	19.9	19.9	20.1
		15	0	21.2	21.6	21.0	20.8	21.0	19.8	19.7	20.0

(LTE1700/2100 (Band 4), Antenna 2/ RM-1065 table continues)

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(LTE1700/2100 (Band 4), Antenna 2/ RM-1065 table continues)

SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19975 / 1712.5 MHz	Ch20175 / 1732.5 MHz	Ch20375 / 1752.5 MHz	Ch19975 / 1712.5 MHz	Ch20175 / 1732.5 MHz	Ch20375 / 1752.5 MHz
LTE4 5 MHz	QPSK	1	0	23.2	23.6	23.0	22.8	23.0	23.0	22.8	22.9
		1	12	23.2	23.6	23.0	22.8	22.9	23.0	22.7	22.9
		1	24	23.2	23.6	22.9	22.8	23.0	22.9	22.7	23.0
		12	0	22.2	22.6	22.0	21.8	21.9	20.9	20.7	20.9
		12	6	22.2	22.6	22.1	21.8	22.0	20.9	20.7	20.9
		12	13	22.2	22.6	22.0	21.8	21.9	20.9	20.7	20.9
		25	0	22.2	22.6	22.1	21.8	22.0	21.0	20.7	20.9
	16QAM	1	0	22.2	22.6	22.1	22.0	22.1	21.7	21.6	21.9
		1	12	22.2	22.6	22.1	21.9	22.1	21.6	21.6	21.9
		1	24	22.2	22.6	21.9	21.9	22.1	21.6	21.5	22.0
		12	0	21.2	21.6	21.0	20.8	21.0	19.9	19.8	20.0
		12	6	21.2	21.6	21.1	20.8	20.9	19.9	19.8	20.0
		12	13	21.2	21.6	21.1	20.7	20.9	19.9	19.8	20.1
		25	0	21.2	21.6	21.1	20.8	21.0	20.0	19.7	19.9

SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20000 / 1715 MHz	Ch20175 / 1732.5 MHz	Ch20350 / 1750 MHz	Ch20000 / 1715 MHz	Ch20175 / 1732.5 MHz	Ch20350 / 1750 MHz
LTE4 10 MHz	QPSK	1	0	23.2	23.6	23.0	22.8	23.0	23.0	22.8	22.9
		1	24	23.2	23.6	22.9	22.8	22.9	22.9	22.8	22.9
		1	49	23.2	23.6	22.9	22.7	22.9	22.8	22.7	22.9
		25	0	22.2	22.6	22.0	21.9	21.9	21.0	20.7	20.9
		25	12	22.2	22.6	21.9	21.8	22.0	20.9	20.7	20.8
		25	25	22.2	22.6	21.9	21.7	21.9	20.9	20.7	20.9
		50	0	22.2	22.6	22.0	21.8	22.0	21.0	20.9	20.9
	16QAM	1	0	22.2	22.6	21.7	21.7	21.9	22.2	22.0	22.1
		1	24	22.2	22.6	21.5	21.6	21.8	22.0	21.9	22.1
		1	49	22.2	22.6	21.5	21.5	21.8	21.9	21.9	22.1
		25	0	21.2	21.6	20.9	20.8	20.9	20.0	19.9	20.0
		25	12	21.2	21.6	20.9	20.7	20.9	19.9	19.8	20.0
		25	25	21.2	21.6	20.8	20.7	20.9	19.9	19.9	20.0
		50	0	21.2	21.6	20.9	20.8	20.9	19.9	19.9	20.0

SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20025 / 1717.5 MHz	Ch20175 / 1732.5 MHz	Ch20325 / 1747.5 MHz	Ch20025 / 1717.5 MHz	Ch20175 / 1732.5 MHz	Ch20325 / 1747.5 MHz
LTE4 15 MHz	QPSK	1	0	23.2	23.6	23.0	22.8	23.0	23.0	22.8	22.8
		1	36	23.2	23.6	22.9	22.8	22.9	22.9	22.8	22.9
		1	74	23.2	23.6	22.9	22.7	22.9	22.8	22.6	22.9
		36	0	22.2	22.6	22.0	21.8	22.0	20.9	20.8	20.8
		36	18	22.2	22.6	22.0	21.8	22.0	20.9	20.7	20.9
		36	38	22.2	22.6	21.9	21.7	22.0	20.8	20.7	20.8
		75	0	22.2	22.6	22.1	21.8	22.0	20.9	20.8	20.9
	16QAM	1	0	22.2	22.6	22.1	21.9	22.2	21.8	21.6	22.0
		1	36	22.2	22.6	21.9	21.9	22.1	21.6	21.6	21.8
		1	74	22.2	22.6	21.9	21.8	22.1	21.6	21.6	22.0
		36	0	21.2	21.6	20.9	20.7	20.9	19.8	19.8	19.9
		36	18	21.2	21.6	20.8	20.7	20.9	19.8	19.8	19.9
		36	38	21.2	21.6	20.8	20.7	20.9	19.8	19.7	19.9
		75	0	21.2	21.6	20.9	20.8	20.9	19.9	19.8	20.0

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(LTE1700/2100 (Band 4), Antenna 2/ RM-1065 table continues)

SN: 004402741070704						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20050 / 1720 MHz	Ch20175 / 1732.5 MHz	Ch20300 / 1745 MHz	Ch20050 / 1720 MHz	Ch20175 / 1732.5 MHz	Ch20300 / 1745 MHz
LTE4 20 MHz	QPSK	1	0	23.2	23.6	23.0	22.9	22.8	23.0	22.8	22.9
		1	49	23.2	23.6	22.9	22.8	22.8	22.9	22.8	22.8
		1	99	23.2	23.6	22.8	22.7	22.8	22.8	22.7	22.8
		50	0	22.2	22.6	22.0	21.9	21.9	20.9	20.8	20.8
		50	24	22.2	22.6	22.0	21.8	21.9	21.0	20.7	20.8
		50	50	22.2	22.6	21.9	21.8	21.8	20.8	20.7	20.7
		100	0	22.2	22.6	22.0	21.8	21.9	21.0	20.7	20.8
	16QAM	1	0	22.2	22.6	21.8	22.0	22.0	22.1	22.0	22.0
		1	49	22.2	22.6	21.7	21.9	21.9	22.0	21.9	22.0
		1	99	22.2	22.6	21.7	21.8	21.9	21.8	21.8	22.0
		50	0	21.2	21.6	20.8	20.8	20.8	20.0	19.8	19.9
		50	24	21.2	21.6	20.8	20.7	20.8	19.9	19.8	19.8
		50	50	21.2	21.6	20.7	20.7	20.8	19.8	19.8	19.9
		100	0	21.2	21.6	20.8	20.8	20.8	19.9	19.8	19.8

3.3.24 LTE1700/2100 (Band 4), Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19957 / 1710.7 MHz	Ch20175 / 1732.5 MHz	Ch20393 / 1754.3 MHz	Ch19957 / 1710.7 MHz	Ch20175 / 1732.5 MHz	Ch20393 / 1754.3 MHz
LTE4 1.4 MHz	QPSK	1	0	23.2	23.6	22.9	22.9	22.9			
		1	2	23.2	23.6	22.9	22.9	22.8			
		1	5	23.2	23.6	22.9	22.9	22.8			
		3	0	23.2	23.6	22.9	22.9	22.8			
		3	2	23.2	23.6	22.9	22.8	22.8			
		3	3	23.2	23.6	22.9	22.9	22.9			
		6	0	22.2	22.6	21.9	21.9	21.8			
	16QAM	1	0	22.2	22.6	22.0	22.0	21.6			
		1	2	22.2	22.6	22.1	22.0	21.7			
		1	5	22.2	22.6	22.1	22.1	21.6			
		3	0	22.2	22.6	21.8	21.7	21.7			
		3	2	22.2	22.6	21.7	21.7	21.7			
		3	3	22.2	22.6	21.7	21.7	21.7			
		6	0	21.2	21.6	20.8	20.8	20.6			
SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19965 / 1711.5 MHz	Ch20175 / 1732.5 MHz	Ch20385 / 1753.5 MHz	Ch19965 / 1711.5 MHz	Ch20175 / 1732.5 MHz	Ch20385 / 1753.5 MHz
LTE4 3 MHz	QPSK	1	0	23.2	23.6	22.8	22.9	22.9	22.9	22.8	22.9
		1	7	23.2	23.6	22.8	22.8	22.9	22.8	22.8	22.9
		1	14	23.2	23.6	22.8	22.9	23.0	22.8	22.9	23.0
		8	0	22.2	22.6	21.9	21.8	21.9	20.8	20.8	20.9
		8	3	22.2	22.6	21.8	21.8	21.9	20.8	20.8	20.9
		8	7	22.2	22.6	21.8	21.9	21.9	20.8	20.8	20.9
		15	0	22.2	22.6	21.9	21.8	21.9	20.8	20.8	20.9
	16QAM	1	0	22.2	22.6	21.7	21.7	21.9	21.7	21.7	21.8
		1	7	22.2	22.6	21.6	21.7	21.8	21.6	21.6	21.7
		1	14	22.2	22.6	21.7	21.8	21.9	21.5	21.7	21.9
		8	0	21.2	21.6	20.9	20.8	20.9	19.9	19.9	20.0
		8	3	21.2	21.6	20.9	20.8	20.9	19.9	19.9	20.0
		8	7	21.2	21.6	20.9	20.8	20.9	20.0	20.0	20.0
		15	0	21.2	21.6	20.8	20.9	20.9	19.9	19.8	20.0

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(LTE1700/2100 (Band 4), Antenna 2/ RM-1064 table continues)

SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch19975 / 1712.5 MHz	Ch20175 / 1732.5 MHz	Ch20375 / 1752.5 MHz	Ch19975 / 1712.5 MHz	Ch20175 / 1732.5 MHz	Ch20375 / 1752.5 MHz
LTE4 5 MHz	QPSK	1	0	23.2	23.6	22.9	22.8	22.8	22.9	22.8	22.9
		1	12	23.2	23.6	22.9	22.8	22.9	22.9	22.8	22.9
		1	24	23.2	23.6	22.9	22.8	22.9	22.9	22.8	22.9
		12	0	22.2	22.6	21.8	21.8	21.9	20.8	20.8	20.9
		12	6	22.2	22.6	21.7	21.8	21.8	20.8	20.8	20.9
		12	13	22.2	22.6	21.8	21.8	21.9	20.8	20.8	20.8
		25	0	22.2	22.6	21.9	21.9	21.9	20.8	20.8	20.9
	16QAM	1	0	22.2	22.6	21.9	22.0	22.0	21.9	22.0	22.0
		1	12	22.2	22.6	21.9	21.9	22.0	22.0	21.9	22.0
		1	24	22.2	22.6	21.9	21.9	22.2	21.9	22.0	22.1
		12	0	21.2	21.6	20.8	20.9	20.9	20.0	19.9	19.9
		12	6	21.2	21.6	20.8	20.8	20.9	19.9	19.9	19.9
		12	13	21.2	21.6	20.8	20.8	20.9	19.9	19.9	20.0
		25	0	21.2	21.6	20.8	20.8	20.9	19.9	19.9	20.0

SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20000 / 1715 MHz	Ch20175 / 1732.5 MHz	Ch20350 / 1750 MHz	Ch20000 / 1715 MHz	Ch20175 / 1732.5 MHz	Ch20350 / 1750 MHz
LTE4 10 MHz	QPSK	1	0	23.2	23.6	22.9	22.8	22.9	22.8	22.8	23.0
		1	24	23.2	23.6	22.8	22.8	22.9	22.8	22.8	23.0
		1	49	23.2	23.6	22.8	22.8	22.8	22.8	22.8	22.9
		25	0	22.2	22.6	21.9	21.9	22.0	20.8	20.9	21.0
		25	12	22.2	22.6	21.8	21.8	21.9	20.8	20.8	20.9
		25	25	22.2	22.6	21.8	21.8	21.9	20.8	20.8	20.8
		50	0	22.2	22.6	21.9	21.9	22.0	20.9	20.9	21.0
	16QAM	1	0	22.2	22.6	21.7	21.7	21.6	21.7	21.8	21.9
		1	24	22.2	22.6	21.6	21.6	21.6	21.7	21.7	21.9
		1	49	22.2	22.6	21.6	21.6	21.4	21.6	21.6	21.8
		25	0	21.2	21.6	21.0	20.9	21.0	20.0	20.0	20.1
		25	12	21.2	21.6	21.0	20.9	21.1	20.0	20.0	20.0
		25	25	21.2	21.6	20.9	20.9	20.9	19.9	19.9	19.9
		50	0	21.2	21.6	20.9	20.9	21.0	20.0	20.0	20.1

SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20025 / 1717.5 MHz	Ch20175 / 1732.5 MHz	Ch20325 / 1747.5 MHz	Ch20025 / 1717.5 MHz	Ch20175 / 1732.5 MHz	Ch20325 / 1747.5 MHz
LTE4 15 MHz	QPSK	1	0	23.2	23.6	22.8	22.9	22.8	22.9	22.9	22.9
		1	36	23.2	23.6	22.8	22.8	22.8	22.9	22.8	22.9
		1	74	23.2	23.6	22.7	22.7	22.7	22.8	22.8	22.8
		36	0	22.2	22.6	21.9	21.9	21.9	20.9	20.9	20.9
		36	18	22.2	22.6	21.9	21.8	21.8	20.9	20.8	20.8
		36	38	22.2	22.6	21.8	21.8	21.9	20.8	20.8	20.9
		75	0	22.2	22.6	21.9	21.9	21.9	20.9	20.9	20.9
	16QAM	1	0	22.2	22.6	21.6	21.7	21.7	22.0	22.0	21.9
		1	36	22.2	22.6	21.6	21.6	21.7	21.8	21.9	22.0
		1	74	22.2	22.6	21.5	21.5	21.6	21.8	21.8	21.8
		36	0	21.2	21.6	20.9	20.9	20.8	19.9	19.9	19.9
		36	18	21.2	21.6	20.8	20.8	20.8	19.9	19.9	19.8
		36	38	21.2	21.6	20.8	20.8	20.8	19.9	19.8	19.8
		75	0	21.2	21.6	21.0	20.9	20.8	20.0	20.0	19.9

(LTE1700/2100 (Band 4), Antenna 2/ RM-1064 table continues)

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(LTE1700/2100 (Band 4), Antenna 2/ RM-1064 table continues)

SN: 004402741051431						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20050 / 1720 MHz	Ch20175 / 1732.5 MHz	Ch20300 / 1745 MHz	Ch20050 / 1720 MHz	Ch20175 / 1732.5 MHz	Ch20300 / 1745 MHz
LTE4 20 MHz	QPSK	1	0	23.2	23.6	22.9	22.9	22.9	22.9	22.9	22.9
		1	49	23.2	23.6	22.8	22.8	22.8	22.8	22.8	22.8
		1	99	23.2	23.6	22.8	22.7	22.6	22.7	22.7	22.7
		50	0	22.2	22.6	22.0	21.9	22.0	20.9	20.9	21.0
		50	24	22.2	22.6	21.9	21.9	21.9	20.9	20.9	20.9
		50	50	22.2	22.6	21.9	21.8	21.9	20.8	20.9	20.8
		100	0	22.2	22.6	22.0	21.9	21.9	20.8	20.9	20.9
	16QAM	1	0	22.2	22.6	21.8	22.1	21.9	22.2	21.8	21.7
		1	49	22.2	22.6	21.6	21.9	21.9	22.0	21.7	21.7
		1	99	22.2	22.6	21.6	21.9	21.7	21.9	21.6	21.7
		50	0	21.2	21.6	21.0	20.9	20.9	20.0	19.9	19.8
		50	24	21.2	21.6	20.9	20.9	20.8	19.9	19.9	19.9
		50	50	21.2	21.6	20.8	20.8	20.8	19.9	19.8	19.9
		100	0	21.2	21.6	20.9	20.9	20.9	20.0	19.9	19.9

3.3.25 LTE1900 (Band 2), Antenna 1 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18607 / 1850.7 MHz	Ch18900 / 1880 MHz	Ch19193 / 1909.3 MHz	Ch18607 / 1850.7 MHz	Ch18900 / 1880 MHz	Ch19193 / 1909.3 MHz
LTE2 1.4 MHz	QPSK	1	0	23.0	23.4	23.1	23.0	23.0			
		1	2	23.0	23.4	23.1	22.9	22.9			
		1	5	23.0	23.4	23.1	23.0	22.9			
		3	0	23.0	23.4	23.2	23.0	23.0			
		3	2	23.0	23.4	23.1	23.1	23.0			
		3	3	23.0	23.4	23.2	23.0	23.0			
		6	0	22.0	22.4	22.2	22.2	22.0			
	16QAM	1	0	22.0	22.4	21.8	21.9	21.9			
		1	2	22.0	22.4	21.8	21.8	21.8			
		1	5	22.0	22.4	21.8	21.8	21.7			
		3	0	22.0	22.4	21.9	21.9	22.0			
		3	2	22.0	22.4	21.9	21.8	22.0			
		3	3	22.0	22.4	21.8	22.0	22.0			
		6	0	21.0	21.4	20.9	20.9	20.9			
SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18615 / 1851.5 MHz	Ch18900 / 1880 MHz	Ch19185 / 1908.5 MHz	Ch18615 / 1851.5 MHz	Ch18900 / 1880 MHz	Ch19185 / 1908.5 MHz
LTE2 3 MHz	QPSK	1	0	23.0	23.4	23.1	22.9	22.9	23.1	23.0	22.9
		1	7	23.0	23.4	23.1	22.9	22.9	23.0	22.9	22.9
		1	14	23.0	23.4	23.1	23.0	22.9	23.0	23.0	22.9
		8	0	22.0	22.4	22.1	22.0	21.9	21.1	21.0	20.9
		8	3	22.0	22.4	22.1	22.0	22.0	21.1	20.9	21.0
		8	7	22.0	22.4	22.1	22.0	21.9	21.0	21.0	21.0
		15	0	22.0	22.4	22.2	22.0	22.0	21.1	21.0	21.0
	16QAM	1	0	22.0	22.4	21.8	21.8	22.0	22.0	22.1	22.0
		1	7	22.0	22.4	22.0	21.8	22.0	21.9	22.1	22.1
		1	14	22.0	22.4	21.8	21.8	22.0	22.0	22.1	22.1
		8	0	21.0	21.4	21.1	21.1	21.0	20.1	20.0	20.0
		8	3	21.0	21.4	21.0	21.1	21.0	20.0	20.0	20.0
		8	7	21.0	21.4	20.9	21.1	21.0	20.0	20.0	20.0
		15	0	21.0	21.4	21.0	21.0	21.0	20.1	20.0	20.0

(LTE1900 (Band 2), Antenna 1/ RM-1065 table continues)

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(LTE1900 (Band 2), Antenna 1/ RM-1065 table continues)

SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18625 / 1852.5 MHz	Ch18900 / 1880 MHz	Ch19175 / 1907.5 MHz	Ch18625 / 1852.5 MHz	Ch18900 / 1880 MHz	Ch19175 / 1907.5 MHz
LTE2 5 MHz	QPSK	1	0	23.0	23.4	23.0	22.9	22.9	23.1	23.0	22.9
		1	12	23.0	23.4	23.1	22.9	22.8	23.1	23.1	22.9
		1	24	23.0	23.4	23.0	23.0	22.9	23.0	23.0	22.9
		12	0	22.0	22.4	22.1	22.0	21.9	21.1	21.1	20.9
		12	6	22.0	22.4	22.1	22.1	21.9	21.1	21.0	20.9
		12	13	22.0	22.4	22.1	22.0	22.0	21.1	21.1	21.0
		25	0	22.0	22.4	22.1	22.1	21.9	21.1	21.0	21.0
	16QAM	1	0	22.0	22.4	21.7	21.7	21.7	22.2	22.1	21.7
		1	12	22.0	22.4	21.6	21.7	21.6	22.1	22.1	21.7
		1	24	22.0	22.4	21.6	21.7	21.7	22.2	22.1	21.8
		12	0	21.0	21.4	21.0	21.0	21.0	20.1	20.0	20.0
		12	6	21.0	21.4	21.0	21.0	20.9	20.1	20.0	19.9
		12	13	21.0	21.4	21.1	21.0	21.0	20.1	20.0	20.1
		25	0	21.0	21.4	21.0	21.0	21.0	20.1	20.1	20.0

SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18650 / 1855 MHz	Ch18900 / 1880 MHz	Ch19150 / 1905 MHz	Ch18650 / 1855 MHz	Ch18900 / 1880 MHz	Ch19150 / 1905 MHz
LTE2 10 MHz	QPSK	1	0	23.0	23.4	23.1	22.9	22.9	23.0	22.8	22.9
		1	24	23.0	23.4	23.1	22.9	22.9	23.0	22.9	22.9
		1	49	23.0	23.4	23.0	22.9	23.0	22.9	22.9	23.0
		25	0	22.0	22.4	22.2	22.0	21.9	21.1	21.0	21.0
		25	12	22.0	22.4	22.1	22.0	21.9	21.0	21.0	20.9
		25	25	22.0	22.4	22.1	22.0	22.0	21.0	20.9	21.0
		50	0	22.0	22.4	22.2	22.0	21.9	21.1	21.1	20.9
	16QAM	1	0	22.0	22.4	21.9	21.8	22.1	21.7	21.6	21.6
		1	24	22.0	22.4	21.8	21.8	22.0	21.6	21.6	21.6
		1	49	22.0	22.4	21.7	21.8	22.2	21.6	21.7	21.8
		25	0	21.0	21.4	21.0	20.9	21.0	20.1	20.0	20.0
		25	12	21.0	21.4	21.0	21.0	21.0	20.1	20.0	20.0
		25	25	21.0	21.4	20.9	21.0	21.1	20.1	20.0	20.0
		50	0	21.0	21.4	21.0	21.0	20.9	20.0	20.0	19.9

SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18675 / 1857.5 MHz	Ch18900 / 1880 MHz	Ch19125 / 1902.5 MHz	Ch18675 / 1857.5 MHz	Ch18900 / 1880 MHz	Ch19125 / 1902.5 MHz
LTE2 15 MHz	QPSK	1	0	23.0	23.4	23.0	22.9	23.0	23.0	23.0	23.0
		1	36	23.0	23.4	23.1	23.0	22.9	23.1	23.0	22.9
		1	74	23.0	23.4	23.0	22.9	23.1	22.9	22.9	23.0
		36	0	22.0	22.4	22.2	22.0	21.9	21.1	21.1	21.0
		36	18	22.0	22.4	22.1	22.1	21.9	21.0	21.0	21.0
		36	38	22.0	22.4	22.1	22.2	21.9	21.1	21.1	20.9
		75	0	22.0	22.4	22.1	22.2	21.9	21.1	21.1	20.9
	16QAM	1	0	22.0	22.4	22.2	22.1	21.9	21.7	21.7	21.7
		1	36	22.0	22.4	22.2	22.1	21.8	21.6	21.7	21.6
		1	74	22.0	22.4	22.1	22.1	21.9	21.6	21.6	21.8
		36	0	21.0	21.4	21.1	21.0	21.0	20.0	20.0	19.9
		36	18	21.0	21.4	21.0	21.0	21.0	20.0	20.0	20.0
		36	38	21.0	21.4	21.0	21.0	20.9	20.0	20.1	19.9
		75	0	21.0	21.4	21.0	21.1	21.0	20.0	20.0	19.9

(LTE1900 (Band 2), Antenna 1/ RM-1065 table continues)

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(LTE1900 (Band 2), Antenna 1/ RM-1065 table continues)

SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18700 / 1860 MHz	Ch18900 / 1880 MHz	Ch19100 / 1900 MHz	Ch18700 / 1860 MHz	Ch18900 / 1880 MHz	Ch19100 / 1900 MHz
LTE2 20 MHz	QPSK	1	0	23.0	23.4	23.0	22.9	23.1	23.1	22.9	23.1
		1	49	23.0	23.4	23.0	22.9	22.9	23.0	22.9	22.9
		1	99	23.0	23.4	22.9	22.9	23.0	23.0	22.8	23.0
		50	0	22.0	22.4	22.2	22.0	22.0	21.1	21.0	21.0
		50	24	22.0	22.4	22.1	22.1	22.0	21.1	21.1	21.0
		50	50	22.0	22.4	22.1	22.0	21.9	21.0	21.1	21.0
		100	0	22.0	22.4	22.2	22.1	22.0	21.1	21.1	21.0
	16QAM	1	0	22.0	22.4	22.0	21.8	22.3	21.9	21.8	22.3
		1	49	22.0	22.4	21.8	21.8	22.1	21.8	21.8	22.1
		1	99	22.0	22.4	21.8	21.7	22.2	21.8	21.7	22.2
		50	0	21.0	21.4	21.0	21.0	21.0	20.1	20.0	19.9
		50	24	21.0	21.4	21.0	21.0	21.1	20.0	20.0	20.0
		50	50	21.0	21.4	20.9	21.1	21.0	20.0	20.0	19.9
		100	0	21.0	21.4	21.0	21.0	21.0	20.0	20.0	19.9

3.3.26 LTE1900 (Band 2), Antenna 1 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18607 / 1850.7 MHz	Ch18900 / 1880 MHz	Ch19193 / 1909.3 MHz	Ch18607 / 1850.7 MHz	Ch18900 / 1880 MHz	Ch19193 / 1909.3 MHz
LTE2 1.4 MHz	QPSK	1	0	23.0	23.4	22.9	23.0	22.9			
		1	2	23.0	23.4	22.9	23.0	22.9			
		1	5	23.0	23.4	22.9	23.1	22.9			
		3	0	23.0	23.4	22.9	23.0	22.9			
		3	2	23.0	23.4	23.0	23.0	22.9			
		3	3	23.0	23.4	22.8	23.1	22.9			
		6	0	22.0	22.4	22.0	22.1	22.0			
	16QAM	1	0	22.0	22.4	22.0	22.2	21.8			
		1	2	22.0	22.4	22.1	22.2	21.8			
		1	5	22.0	22.4	22.0	22.3	21.7			
		3	0	22.0	22.4	21.9	22.0	21.9			
		3	2	22.0	22.4	22.0	22.0	21.9			
		3	3	22.0	22.4	21.8	22.1	21.9			
		6	0	21.0	21.4	21.0	21.0	20.8			
SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18615 / 1851.5 MHz	Ch18900 / 1880 MHz	Ch19185 / 1908.5 MHz	Ch18615 / 1851.5 MHz	Ch18900 / 1880 MHz	Ch19185 / 1908.5 MHz
LTE2 3 MHz	QPSK	1	0	23.0	23.4	22.8	23.0	22.9	22.9	23.1	23.0
		1	7	23.0	23.4	22.9	22.9	22.8	22.9	23.0	22.9
		1	14	23.0	23.4	22.8	23.0	22.8	22.9	23.1	22.9
		8	0	22.0	22.4	22.0	22.1	22.0	20.9	21.1	21.0
		8	3	22.0	22.4	22.0	22.1	22.0	21.0	21.1	21.0
		8	7	22.0	22.4	22.0	22.1	21.9	20.9	21.1	21.0
		15	0	22.0	22.4	22.0	22.1	22.0	21.0	21.1	21.0
	16QAM	1	0	22.0	22.4	21.5	21.7	21.6	22.1	22.2	21.8
		1	7	22.0	22.4	21.5	21.6	21.5	22.0	22.2	21.8
		1	14	22.0	22.4	21.5	21.7	21.6	22.1	22.2	21.8
		8	0	21.0	21.4	21.0	21.2	21.1	19.9	20.1	20.1
		8	3	21.0	21.4	21.0	21.2	21.1	19.9	20.1	20.0
		8	7	21.0	21.4	21.0	21.2	21.0	19.9	20.2	20.0
		15	0	21.0	21.4	21.0	21.1	21.0	19.9	20.2	20.0

(LTE1900 (Band 2), Antenna 1/ RM-1064 table continues)

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(LTE1900 (Band 2), Antenna 1/ RM-1064 table continues)

SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18625 / 1852.5 MHz	Ch18900 / 1880 MHz	Ch19175 / 1907.5 MHz	Ch18625 / 1852.5 MHz	Ch18900 / 1880 MHz	Ch19175 / 1907.5 MHz
LTE2 5 MHz	QPSK	1	0	23.0	23.4	22.8	23.0	22.9	22.9	23.0	23.0
		1	12	23.0	23.4	23.0	23.0	22.9	22.8	23.0	22.9
		1	24	23.0	23.4	22.8	23.0	22.8	22.8	23.0	22.9
		12	0	22.0	22.4	22.0	22.1	21.9	21.0	21.0	21.1
		12	6	22.0	22.4	22.0	22.1	22.0	20.9	21.1	21.0
		12	13	22.0	22.4	22.0	22.1	22.0	20.9	21.1	21.0
		25	0	22.0	22.4	22.0	22.1	21.9	21.0	21.1	21.0
	16QAM	1	0	22.0	22.4	21.6	21.9	21.8	21.7	21.9	21.9
		1	12	22.0	22.4	21.5	21.9	21.7	21.7	21.9	21.8
		1	24	22.0	22.4	21.6	21.9	21.7	21.7	22.0	21.8
		12	0	21.0	21.4	20.9	21.1	21.1	20.0	20.1	20.0
		12	6	21.0	21.4	20.9	21.1	21.1	20.0	20.1	20.0
		12	13	21.0	21.4	20.9	21.1	21.0	20.0	20.1	19.9
		25	0	21.0	21.4	21.0	21.1	21.0	20.0	20.2	20.0

SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18650 / 1855 MHz	Ch18900 / 1880 MHz	Ch19150 / 1905 MHz	Ch18650 / 1855 MHz	Ch18900 / 1880 MHz	Ch19150 / 1905 MHz
LTE2 10 MHz	QPSK	1	0	23.0	23.4	22.8	22.9	22.9	22.9	23.0	22.8
		1	24	23.0	23.4	22.9	23.0	22.9	22.9	23.0	22.9
		1	49	23.0	23.4	22.8	23.0	22.9	22.8	23.1	22.9
		25	0	22.0	22.4	22.0	22.0	22.0	21.0	21.1	21.0
		25	12	22.0	22.4	22.0	22.1	22.0	21.0	21.0	21.0
		25	25	22.0	22.4	22.0	22.1	22.0	21.0	21.1	21.0
		50	0	22.0	22.4	22.0	22.1	22.0	21.0	21.1	21.0
	16QAM	1	0	22.0	22.4	22.1	22.2	22.1	22.0	22.1	22.0
		1	24	22.0	22.4	22.0	22.2	22.2	22.0	22.2	22.1
		1	49	22.0	22.4	22.0	22.2	22.1	21.8	22.2	22.0
		25	0	21.0	21.4	21.0	21.1	21.1	19.9	20.1	20.0
		25	12	21.0	21.4	20.9	21.2	21.1	19.9	20.1	20.0
		25	25	21.0	21.4	20.9	21.1	21.1	19.9	20.1	20.0
		50	0	21.0	21.4	20.9	21.1	21.1	19.9	20.2	20.0

SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18675 / 1857.5 MHz	Ch18900 / 1880 MHz	Ch19125 / 1902.5 MHz	Ch18675 / 1857.5 MHz	Ch18900 / 1880 MHz	Ch19125 / 1902.5 MHz
LTE2 15 MHz	QPSK	1	0	23.0	23.4	22.8	23.1	23.0	22.8	23.0	23.0
		1	36	23.0	23.4	22.8	23.0	22.9	22.8	23.0	22.9
		1	74	23.0	23.4	22.8	23.0	22.9	22.8	22.9	22.9
		36	0	22.0	22.4	22.1	22.0	22.1	20.9	21.0	21.1
		36	18	22.0	22.4	22.0	22.1	22.0	20.9	21.1	21.0
		36	38	22.0	22.4	21.9	22.1	22.0	20.9	21.1	21.0
		75	0	22.0	22.4	22.0	22.2	22.0	21.0	21.1	21.1
	16QAM	1	0	22.0	22.4	21.8	22.0	21.9	21.7	22.0	21.6
		1	36	22.0	22.4	21.7	21.9	21.9	21.7	21.8	21.6
		1	74	22.0	22.4	21.7	21.9	21.8	21.6	21.8	21.5
		36	0	21.0	21.4	20.9	21.1	21.1	19.9	20.1	20.0
		36	18	21.0	21.4	20.9	21.0	21.0	19.9	20.1	20.0
		36	38	21.0	21.4	20.8	21.1	21.0	19.9	20.1	20.0
		75	0	21.0	21.4	21.0	21.2	21.1	20.0	20.1	20.0

(LTE1900 (Band 2), Antenna 1/ RM-1064 table continues)

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(LTE1900 (Band 2), Antenna 1/ RM-1064 table continues)

SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18700 / 1860 MHz	Ch18900 / 1880 MHz	Ch19100 / 1900 MHz	Ch18700 / 1860 MHz	Ch18900 / 1880 MHz	Ch19100 / 1900 MHz
LTE2 20 MHz	QPSK	1	0	23.0	23.4	22.8	23.1	23.1	22.8	23.0	23.0
		1	49	23.0	23.4	22.8	23.1	23.0	22.7	23.0	22.9
		1	99	23.0	23.4	22.9	23.0	22.9	22.8	23.0	22.9
		50	0	22.0	22.4	22.0	22.1	22.1	21.0	21.1	21.1
		50	24	22.0	22.4	21.9	22.2	22.0	20.9	21.1	21.1
		50	50	22.0	22.4	21.9	22.1	22.1	20.9	21.1	21.0
		100	0	22.0	22.4	22.0	22.2	22.0	21.0	21.1	21.1
	16QAM	1	0	22.0	22.4	21.8	22.2	22.2	21.6	21.9	21.9
		1	49	22.0	22.4	21.8	22.1	22.0	21.5	21.7	21.8
		1	99	22.0	22.4	21.9	22.1	22.0	21.7	21.7	21.8
		50	0	21.0	21.4	21.0	21.1	21.1	19.9	20.1	20.1
		50	24	21.0	21.4	21.0	21.1	21.0	20.0	20.1	19.9
		50	50	21.0	21.4	20.9	21.2	21.0	19.9	20.1	20.0
		100	0	21.0	21.4	21.0	21.2	21.1	19.9	20.2	20.0

3.3.27 LTE1900 (Band 2), Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18607 / 1850.7 MHz	Ch18900 / 1880 MHz	Ch19193 / 1909.3 MHz	Ch18607 / 1850.7 MHz	Ch18900 / 1880 MHz	Ch19193 / 1909.3 MHz
LTE2 1.4 MHz	QPSK	1	0	23.0	23.4	22.7	22.6	22.6			
		1	2	23.0	23.4	22.7	22.5	22.5			
		1	5	23.0	23.4	22.7	22.6	22.5			
		3	0	23.0	23.4	22.8	22.6	22.6			
		3	2	23.0	23.4	22.7	22.7	22.6			
		3	3	23.0	23.4	22.8	22.6	22.6			
		6	0	22.0	22.4	21.8	21.8	21.6			
	16QAM	1	0	22.0	22.4	21.4	21.5	21.5			
		1	2	22.0	22.4	21.4	21.4	21.4			
		1	5	22.0	22.4	21.4	21.4	21.3			
		3	0	22.0	22.4	21.5	21.5	21.6			
		3	2	22.0	22.4	21.5	21.4	21.6			
		3	3	22.0	22.4	21.4	21.6	21.6			
		6	0	21.0	21.4	20.5	20.5	20.5			
SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18615 / 1851.5 MHz	Ch18900 / 1880 MHz	Ch19185 / 1908.5 MHz	Ch18615 / 1851.5 MHz	Ch18900 / 1880 MHz	Ch19185 / 1908.5 MHz
LTE2 3 MHz	QPSK	1	0	23.0	23.4	22.7	22.5	22.5	22.7	22.6	22.5
		1	7	23.0	23.4	22.7	22.5	22.5	22.6	22.5	22.5
		1	14	23.0	23.4	22.7	22.6	22.5	22.6	22.6	22.5
		8	0	22.0	22.4	21.7	21.6	21.5	20.7	20.6	20.5
		8	3	22.0	22.4	21.7	21.6	21.6	20.7	20.5	20.6
		8	7	22.0	22.4	21.7	21.6	21.5	20.6	20.6	20.6
		15	0	22.0	22.4	21.8	21.6	21.6	20.7	20.6	20.6
	16QAM	1	0	22.0	22.4	21.4	21.4	21.6	21.6	21.7	21.6
		1	7	22.0	22.4	21.6	21.4	21.6	21.5	21.7	21.7
		1	14	22.0	22.4	21.4	21.4	21.6	21.6	21.7	21.7
		8	0	21.0	21.4	20.7	20.7	20.6	19.7	19.6	19.6
		8	3	21.0	21.4	20.6	20.7	20.6	19.6	19.6	19.6
		8	7	21.0	21.4	20.5	20.7	20.6	19.6	19.6	19.6
		15	0	21.0	21.4	20.6	20.6	20.6	19.7	19.6	19.6

(LTE1900 (Band 2), Antenna 2/ RM-1065 table continues)

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(LTE1900 (Band 2), Antenna 2/ RM-1065 table continues)

SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18625 / 1852.5 MHz	Ch18900 / 1880 MHz	Ch19175 / 1907.5 MHz	Ch18625 / 1852.5 MHz	Ch18900 / 1880 MHz	Ch19175 / 1907.5 MHz
LTE2 5 MHz	QPSK	1	0	23.0	23.4	22.6	22.5	22.5	22.7	22.6	22.5
		1	12	23.0	23.4	22.7	22.5	22.4	22.7	22.7	22.5
		1	24	23.0	23.4	22.6	22.6	22.5	22.6	22.6	22.5
		12	0	22.0	22.4	21.7	21.6	21.5	20.7	20.7	20.5
		12	6	22.0	22.4	21.7	21.7	21.5	20.7	20.6	20.5
		12	13	22.0	22.4	21.7	21.6	21.6	20.7	20.7	20.6
		25	0	22.0	22.4	21.7	21.7	21.5	20.7	20.6	20.6
	16QAM	1	0	22.0	22.4	21.3	21.3	21.3	21.8	21.7	21.3
		1	12	22.0	22.4	21.2	21.3	21.2	21.7	21.7	21.3
		1	24	22.0	22.4	21.2	21.3	21.3	21.8	21.7	21.4
		12	0	21.0	21.4	20.6	20.6	20.6	19.7	19.6	19.6
		12	6	21.0	21.4	20.6	20.6	20.5	19.7	19.6	19.5
		12	13	21.0	21.4	20.7	20.6	20.6	19.7	19.6	19.7
		25	0	21.0	21.4	20.6	20.6	20.6	19.7	19.7	19.6

SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18650 / 1855 MHz	Ch18900 / 1880 MHz	Ch19150 / 1905 MHz	Ch18650 / 1855 MHz	Ch18900 / 1880 MHz	Ch19150 / 1905 MHz
LTE2 10 MHz	QPSK	1	0	23.0	23.4	22.7	22.5	22.5	22.6	22.4	22.5
		1	24	23.0	23.4	22.7	22.5	22.5	22.6	22.5	22.5
		1	49	23.0	23.4	22.6	22.5	22.6	22.5	22.5	22.6
		25	0	22.0	22.4	21.8	21.6	21.5	20.7	20.6	20.6
		25	12	22.0	22.4	21.7	21.6	21.5	20.6	20.6	20.5
		25	25	22.0	22.4	21.7	21.6	21.6	20.6	20.5	20.6
		50	0	22.0	22.4	21.8	21.6	21.5	20.7	20.7	20.5
	16QAM	1	0	22.0	22.4	21.5	21.4	21.7	21.3	21.2	21.2
		1	24	22.0	22.4	21.4	21.4	21.6	21.2	21.2	21.2
		1	49	22.0	22.4	21.3	21.4	21.8	21.2	21.3	21.4
		25	0	21.0	21.4	20.6	20.5	20.6	19.7	19.6	19.6
		25	12	21.0	21.4	20.6	20.6	20.6	19.7	19.6	19.6
		25	25	21.0	21.4	20.5	20.6	20.7	19.7	19.6	19.6
		50	0	21.0	21.4	20.6	20.6	20.5	19.6	19.6	19.5

SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18675 / 1857.5 MHz	Ch18900 / 1880 MHz	Ch19125 / 1902.5 MHz	Ch18675 / 1857.5 MHz	Ch18900 / 1880 MHz	Ch19125 / 1902.5 MHz
LTE2 15 MHz	QPSK	1	0	23.0	23.4	22.6	22.5	22.6	22.6	22.6	22.6
		1	36	23.0	23.4	22.7	22.6	22.5	22.7	22.6	22.5
		1	74	23.0	23.4	22.6	22.5	22.7	22.5	22.5	22.6
		36	0	22.0	22.4	21.8	21.6	21.5	20.7	20.7	20.6
		36	18	22.0	22.4	21.7	21.7	21.5	20.6	20.6	20.6
		36	38	22.0	22.4	21.7	21.8	21.5	20.7	20.7	20.5
		75	0	22.0	22.4	21.7	21.8	21.5	20.7	20.7	20.5
	16QAM	1	0	22.0	22.4	21.8	21.7	21.5	21.3	21.3	21.3
		1	36	22.0	22.4	21.8	21.7	21.4	21.2	21.3	21.2
		1	74	22.0	22.4	21.7	21.7	21.5	21.2	21.2	21.4
		36	0	21.0	21.4	20.7	20.6	20.6	19.6	19.6	19.5
		36	18	21.0	21.4	20.6	20.6	20.6	19.6	19.6	19.6
		36	38	21.0	21.4	20.6	20.6	20.5	19.6	19.7	19.5
		75	0	21.0	21.4	20.6	20.7	20.6	19.6	19.6	19.5

(LTE1900 (Band 2), Antenna 2/ RM-1065 table continues)

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(LTE1900 (Band 2), Antenna 2/ RM-1065 table continues)

SN: 004402741071660						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18700 / 1860 MHz	Ch18900 / 1880 MHz	Ch19100 / 1900 MHz	Ch18700 / 1860 MHz	Ch18900 / 1880 MHz	Ch19100 / 1900 MHz
LTE2 20 MHz	QPSK	1	0	23.0	23.4	22.6	22.5	22.7	22.7	22.5	22.7
		1	49	23.0	23.4	22.6	22.5	22.5	22.6	22.5	22.5
		1	99	23.0	23.4	22.5	22.5	22.6	22.6	22.4	22.6
		50	0	22.0	22.4	21.8	21.6	21.6	20.7	20.6	20.6
		50	24	22.0	22.4	21.7	21.7	21.6	20.7	20.7	20.6
		50	50	22.0	22.4	21.7	21.6	21.5	20.6	20.7	20.6
		100	0	22.0	22.4	21.8	21.7	21.6	20.7	20.7	20.6
	16QAM	1	0	22.0	22.4	21.6	21.4	21.9	21.5	21.4	21.9
		1	49	22.0	22.4	21.4	21.4	21.7	21.4	21.4	21.7
		1	99	22.0	22.4	21.4	21.3	21.8	21.4	21.3	21.8
		50	0	21.0	21.4	20.6	20.6	20.6	19.7	19.6	19.5
		50	24	21.0	21.4	20.6	20.6	20.7	19.6	19.6	19.6
		50	50	21.0	21.4	20.5	20.7	20.6	19.6	19.6	19.5
		100	0	21.0	21.4	20.6	20.6	20.6	19.6	19.6	19.5

3.3.28 LTE1900 (Band 2), Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18607 / 1850.7 MHz	Ch18900 / 1880 MHz	Ch19193 / 1909.3 MHz	Ch18607 / 1850.7 MHz	Ch18900 / 1880 MHz	Ch19193 / 1909.3 MHz
LTE2 1.4 MHz	QPSK	1	0	23.0	23.4	22.5	22.6	22.5			
		1	2	23.0	23.4	22.5	22.6	22.5			
		1	5	23.0	23.4	22.5	22.7	22.5			
		3	0	23.0	23.4	22.5	22.6	22.5			
		3	2	23.0	23.4	22.6	22.6	22.5			
		3	3	23.0	23.4	22.4	22.7	22.5			
		6	0	22.0	22.4	21.6	21.7	21.6			
	16QAM	1	0	22.0	22.4	21.6	21.8	21.4			
		1	2	22.0	22.4	21.7	21.8	21.4			
		1	5	22.0	22.4	21.6	21.9	21.3			
		3	0	22.0	22.4	21.5	21.6	21.5			
		3	2	22.0	22.4	21.6	21.6	21.5			
		3	3	22.0	22.4	21.4	21.7	21.5			
		6	0	21.0	21.4	20.6	20.6	20.4			
SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18615 / 1851.5 MHz	Ch18900 / 1880 MHz	Ch19185 / 1908.5 MHz	Ch18615 / 1851.5 MHz	Ch18900 / 1880 MHz	Ch19185 / 1908.5 MHz
LTE2 3 MHz	QPSK	1	0	23.0	23.4	22.4	22.6	22.5	22.5	22.7	22.6
		1	7	23.0	23.4	22.5	22.5	22.4	22.5	22.6	22.5
		1	14	23.0	23.4	22.4	22.6	22.4	22.5	22.7	22.5
		8	0	22.0	22.4	21.6	21.7	21.6	20.5	20.7	20.6
		8	3	22.0	22.4	21.6	21.7	21.6	20.6	20.7	20.6
		8	7	22.0	22.4	21.6	21.7	21.5	20.5	20.7	20.6
		15	0	22.0	22.4	21.6	21.7	21.6	20.6	20.7	20.6
	16QAM	1	0	22.0	22.4	21.1	21.3	21.2	21.7	21.8	21.4
		1	7	22.0	22.4	21.1	21.2	21.1	21.6	21.8	21.4
		1	14	22.0	22.4	21.1	21.3	21.2	21.7	21.8	21.4
		8	0	21.0	21.4	20.6	20.8	20.7	19.5	19.7	19.7
		8	3	21.0	21.4	20.6	20.8	20.7	19.5	19.7	19.6
		8	7	21.0	21.4	20.6	20.8	20.6	19.5	19.8	19.6
		15	0	21.0	21.4	20.6	20.7	20.6	19.5	19.8	19.6

(LTE1900 (Band 2), Antenna 2/ RM-1064 table continues)

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(LTE1900 (Band 2), Antenna 2/ RM-1064 table continues)

SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18625 / 1852.5 MHz	Ch18900 / 1880 MHz	Ch19175 / 1907.5 MHz	Ch18625 / 1852.5 MHz	Ch18900 / 1880 MHz	Ch19175 / 1907.5 MHz
LTE2 5 MHz	QPSK	1	0	23.0	23.4	22.4	22.6	22.5	22.5	22.6	22.6
		1	12	23.0	23.4	22.6	22.6	22.5	22.4	22.6	22.5
		1	24	23.0	23.4	22.4	22.6	22.4	22.4	22.6	22.5
		12	0	22.0	22.4	21.6	21.7	21.5	20.6	20.6	20.7
		12	6	22.0	22.4	21.6	21.7	21.6	20.5	20.7	20.6
		12	13	22.0	22.4	21.6	21.7	21.6	20.5	20.7	20.6
		25	0	22.0	22.4	21.6	21.7	21.5	20.6	20.7	20.6
	16QAM	1	0	22.0	22.4	21.2	21.5	21.4	21.3	21.5	21.5
		1	12	22.0	22.4	21.1	21.5	21.3	21.3	21.5	21.4
		1	24	22.0	22.4	21.2	21.5	21.3	21.3	21.6	21.4
		12	0	21.0	21.4	20.5	20.7	20.7	19.6	19.7	19.6
		12	6	21.0	21.4	20.5	20.7	20.7	19.6	19.7	19.6
		12	13	21.0	21.4	20.5	20.7	20.6	19.6	19.7	19.5
		25	0	21.0	21.4	20.6	20.7	20.6	19.6	19.8	19.6
SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18650 / 1855 MHz	Ch18900 / 1880 MHz	Ch19150 / 1905 MHz	Ch18650 / 1855 MHz	Ch18900 / 1880 MHz	Ch19150 / 1905 MHz
LTE2 10 MHz	QPSK	1	0	23.0	23.4	22.4	22.5	22.5	22.5	22.6	22.4
		1	24	23.0	23.4	22.5	22.6	22.5	22.5	22.6	22.5
		1	49	23.0	23.4	22.4	22.6	22.5	22.4	22.7	22.5
		25	0	22.0	22.4	21.6	21.6	21.6	20.6	20.7	20.6
		25	12	22.0	22.4	21.6	21.7	21.6	20.6	20.6	20.6
		25	25	22.0	22.4	21.6	21.7	21.6	20.6	20.7	20.6
		50	0	22.0	22.4	21.6	21.7	21.6	20.6	20.7	20.6
	16QAM	1	0	22.0	22.4	21.7	21.8	21.7	21.6	21.7	21.6
		1	24	22.0	22.4	21.6	21.8	21.8	21.6	21.8	21.7
		1	49	22.0	22.4	21.6	21.8	21.7	21.4	21.8	21.6
		25	0	21.0	21.4	20.6	20.7	20.7	19.5	19.7	19.6
		25	12	21.0	21.4	20.5	20.8	20.7	19.5	19.7	19.6
		25	25	21.0	21.4	20.5	20.7	20.7	19.5	19.7	19.6
		50	0	21.0	21.4	20.5	20.7	20.7	19.5	19.8	19.6
SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18675 / 1857.5 MHz	Ch18900 / 1880 MHz	Ch19125 / 1902.5 MHz	Ch18675 / 1857.5 MHz	Ch18900 / 1880 MHz	Ch19125 / 1902.5 MHz
LTE2 15 MHz	QPSK	1	0	23.0	23.4	22.4	22.7	22.6	22.4	22.6	22.6
		1	36	23.0	23.4	22.4	22.6	22.5	22.4	22.6	22.5
		1	74	23.0	23.4	22.4	22.6	22.5	22.4	22.5	22.5
		36	0	22.0	22.4	21.7	21.6	21.7	20.5	20.6	20.7
		36	18	22.0	22.4	21.6	21.7	21.6	20.5	20.7	20.6
		36	38	22.0	22.4	21.5	21.7	21.6	20.5	20.7	20.6
		75	0	22.0	22.4	21.6	21.8	21.6	20.6	20.7	20.7
	16QAM	1	0	22.0	22.4	21.4	21.6	21.5	21.3	21.6	21.2
		1	36	22.0	22.4	21.3	21.5	21.5	21.3	21.4	21.2
		1	74	22.0	22.4	21.3	21.5	21.4	21.2	21.4	21.1
		36	0	21.0	21.4	20.5	20.7	20.7	19.5	19.7	19.6
		36	18	21.0	21.4	20.5	20.6	20.6	19.5	19.7	19.6
		36	38	21.0	21.4	20.4	20.7	20.6	19.5	19.7	19.6
		75	0	21.0	21.4	20.6	20.8	20.7	19.6	19.7	19.6

(LTE1900 (Band 2), Antenna 2/ RM-1064 table continues)

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(LTE1900 (Band 2), Antenna 2/ RM-1064 table continues)

SN: 004402741051449						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch18700 / 1860 MHz	Ch18900 / 1880 MHz	Ch19100 / 1900 MHz	Ch18700 / 1860 MHz	Ch18900 / 1880 MHz	Ch19100 / 1900 MHz
LTE2 20 MHz	QPSK	1	0	23.0	23.4	22.4	22.7	22.7	22.4	22.6	22.6
		1	49	23.0	23.4	22.4	22.7	22.6	22.3	22.6	22.5
		1	99	23.0	23.4	22.5	22.6	22.5	22.4	22.6	22.5
		50	0	22.0	22.4	21.6	21.7	21.7	20.6	20.7	20.7
		50	24	22.0	22.4	21.5	21.8	21.6	20.5	20.7	20.7
		50	50	22.0	22.4	21.5	21.7	21.7	20.5	20.7	20.6
		100	0	22.0	22.4	21.6	21.8	21.6	20.6	20.7	20.7
	16QAM	1	0	22.0	22.4	21.4	21.8	21.8	21.2	21.5	21.5
		1	49	22.0	22.4	21.4	21.7	21.6	21.1	21.3	21.4
		1	99	22.0	22.4	21.5	21.7	21.6	21.3	21.3	21.4
		50	0	21.0	21.4	20.6	20.7	20.7	19.5	19.7	19.7
		50	24	21.0	21.4	20.6	20.7	20.6	19.6	19.7	19.5
		50	50	21.0	21.4	20.5	20.8	20.6	19.5	19.7	19.6
		100	0	21.0	21.4	20.6	20.8	20.7	19.5	19.8	19.6

3.3.29 LTE2500 (Band 7), Antenna 2 Head, Body-worn and Wireless Router / RM-1065

SN: 004402741070688						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20775 / 2502.5 MHz	Ch21100 / 2535 MHz	Ch21425 / 2567.5 MHz	Ch20775 / 2502.5 MHz	Ch21100 / 2535 MHz	Ch21425 / 2567.5 MHz
LTE7 5 MHz	QPSK	1	0	22.2	22.6	22.1	22.2	22.4			
		1	12	22.2	22.6	22.0	22.2	22.4			
		1	24	22.2	22.6	22.1	22.2	22.4			
		12	0	21.2	21.6	21.1	21.3	21.3			
		12	6	21.2	21.6	21.1	21.3	21.3			
		12	13	21.2	21.6	21.1	21.3	21.4			
		25	0	21.2	21.6	21.1	21.3	21.3			
	16QAM	1	0	21.2	21.6	21.3	21.4	21.5			
		1	12	21.2	21.6	21.3	21.4	21.5			
		1	24	21.2	21.6	21.3	21.5	21.5			
		12	0	20.2	20.6	20.2	20.3	20.4			
		12	6	20.2	20.6	20.2	20.3	20.4			
		12	13	20.2	20.6	20.3	20.3	20.4			
		25	0	20.2	20.6	20.1	20.4	20.5			
SN: 004402741070688						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20800 / 2505 MHz	Ch21100 / 2535 MHz	Ch21400 / 2565 MHz	Ch20800 / 2505 MHz	Ch21100 / 2535 MHz	Ch21400 / 2565 MHz
LTE7 10 MHz	QPSK	1	0	22.2	22.6	22.2	22.4	22.3			
		1	24	22.2	22.6	22.2	22.3	22.4			
		1	49	22.2	22.6	22.1	22.5	22.4			
		25	0	21.2	21.6	21.2	21.4	21.4			
		25	12	21.2	21.6	21.3	21.4	21.3			
		25	25	21.2	21.6	21.1	21.4	21.3			
		50	0	21.2	21.6	21.3	21.4	21.4			
	16QAM	1	0	21.2	21.6	21.1	21.3	21.3			
		1	24	21.2	21.6	21.1	21.3	21.3			
		1	49	21.2	21.6	21.0	21.4	21.3			
		25	0	20.2	20.6	20.3	20.4	20.4			
		25	12	20.2	20.6	20.3	20.5	20.5			
		25	25	20.2	20.6	20.2	20.4	20.4			
		50	0	20.2	20.6	20.2	20.4	20.4			

(LTE2500 (Band 7), Antenna 2/ RM-1065 table continues)

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(LTE2500 (Band 7), Antenna 2/ RM-1065 table continues)

SN: 004402741070688						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20825 / 2507.5 MHz	Ch21100 / 2535 MHz	Ch21375 / 2562.5 MHz	Ch20825 / 2507.5 MHz	Ch21100 / 2535 MHz	Ch21375 / 2562.5 MHz
LTE7 15 MHz	QPSK	1	0	22.2	22.6	22.2	22.4	22.3			
		1	36	22.2	22.6	22.0	22.4	22.3			
		1	74	22.2	22.6	22.2	22.4	22.4			
		36	0	21.2	21.6	21.3	21.4	21.4			
		36	18	21.2	21.6	21.2	21.4	21.3			
		36	38	21.2	21.6	21.1	21.5	21.4			
		75	0	21.2	21.6	21.3	21.4	21.4			
	16QAM	1	0	21.2	21.6	21.3	21.5	21.5			
		1	36	21.2	21.6	21.2	21.4	21.5			
		1	74	21.2	21.6	21.3	21.5	21.6			
		36	0	20.2	20.6	20.3	20.4	20.4			
		36	18	20.2	20.6	20.1	20.3	20.3			
		36	38	20.2	20.6	20.1	20.5	20.4			
		75	0	20.2	20.6	20.3	20.4	20.5			
SN: 004402741070688						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20850 / 2510 MHz	Ch21100 / 2535 MHz	Ch21350 / 2560 MHz	Ch20850 / 2510 MHz	Ch21100 / 2535 MHz	Ch21350 / 2560 MHz
LTE7 20 MHz	QPSK	1	0	22.2	22.6	22.1	22.3	22.3			
		1	49	22.2	22.6	22.0	22.3	22.3			
		1	99	22.2	22.6	22.4	22.4	22.3			
		50	0	21.2	21.6	21.3	21.5	21.4			
		50	24	21.2	21.6	21.1	21.4	21.4			
		50	50	21.2	21.6	21.2	21.4	21.3			
		100	0	21.2	21.6	21.2	21.3	21.4			
	16QAM	1	0	21.2	21.6	21.1	21.2	21.2			
		1	49	21.2	21.6	21.2	21.2	21.3			
		1	99	21.2	21.6	21.3	21.2	21.2			
		50	0	20.2	20.6	20.2	20.4	20.4			
		50	24	20.2	20.6	20.1	20.3	20.5			
		50	50	20.2	20.6	20.2	20.5	20.5			
		100	0	20.2	20.6	20.2	20.3	20.5			

3.3.30 LTE2500 (Band 7), Antenna 2 Head, Body-worn and Wireless Router / RM-1064

SN: 004402741051498						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20775 / 2502.5 MHz	Ch21100 / 2535 MHz	Ch21425 / 2567.5 MHz	Ch20775 / 2502.5 MHz	Ch21100 / 2535 MHz	Ch21425 / 2567.5 MHz
LTE7 5 MHz	QPSK	1	0	22.2	22.6	22.1	22.2	22.3			
		1	12	22.2	22.6	22.0	22.2	22.3			
		1	24	22.2	22.6	22.0	22.2	22.3			
		12	0	21.2	21.6	21.1	21.3	21.3			
		12	6	21.2	21.6	21.0	21.3	21.2			
		12	13	21.2	21.6	21.2	21.3	21.3			
		25	0	21.2	21.6	21.1	21.3	21.4			
	16QAM	1	0	21.2	21.6	21.3	21.5	21.4			
		1	12	21.2	21.6	21.2	21.4	21.4			
		1	24	21.2	21.6	21.2	21.4	21.4			
		12	0	20.2	20.6	20.2	20.4	20.3			
		12	6	20.2	20.6	20.2	20.4	20.3			
		12	13	20.2	20.6	20.2	20.4	20.3			
		25	0	20.2	20.6	20.1	20.4	20.4			

(LTE2500 (Band 7), Antenna 2/ RM-1064 table continues)

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(LTE2500 (Band 7), Antenna 2/ RM-1064 table continues)

SN: 004402741051498						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20800 / 2505 MHz	Ch21100 / 2535 MHz	Ch21400 / 2565 MHz	Ch20800 / 2505 MHz	Ch21100 / 2535 MHz	Ch21400 / 2565 MHz
LTE7 10 MHz	QPSK	1	0	22.2	22.6	22.2	22.3	22.3			
		1	24	22.2	22.6	22.1	22.3	22.3			
		1	49	22.2	22.6	22.3	22.4	22.3			
		25	0	21.2	21.6	21.2	21.3	21.3			
		25	12	21.2	21.6	21.2	21.4	21.3			
		25	25	21.2	21.6	21.2	21.3	21.2			
		50	0	21.2	21.6	21.3	21.3	21.3			
	16QAM	1	0	21.2	21.6	21.3	21.2	21.2			
		1	24	21.2	21.6	21.3	21.1	21.1			
		1	49	21.2	21.6	21.3	21.3	21.2			
		25	0	20.2	20.6	20.2	20.4	20.3			
		25	12	20.2	20.6	20.2	20.4	20.3			
		25	25	20.2	20.6	20.3	20.4	20.3			
		50	0	20.2	20.6	20.2	20.3	20.3			

SN: 004402741051498						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20825 / 2507.5 MHz	Ch21100 / 2535 MHz	Ch21375 / 2562.5 MHz	Ch20825 / 2507.5 MHz	Ch21100 / 2535 MHz	Ch21375 / 2562.5 MHz
LTE7 15 MHz	QPSK	1	0	22.2	22.6	22.1	22.2	22.3			
		1	36	22.2	22.6	22.2	22.3	22.4			
		1	74	22.2	22.6	22.2	22.4	22.4			
		36	0	21.2	21.6	21.3	21.3	21.3			
		36	18	21.2	21.6	21.2	21.3	21.3			
		36	38	21.2	21.6	21.3	21.4	21.3			
		75	0	21.2	21.6	21.3	21.3	21.4			
	16QAM	1	0	21.2	21.6	21.0	21.4	21.4			
		1	36	21.2	21.6	21.1	21.4	21.4			
		1	74	21.2	21.6	21.1	21.4	21.4			
		36	0	20.2	20.6	20.2	20.3	20.4			
		36	18	20.2	20.6	20.2	20.2	20.3			
		36	38	20.2	20.6	20.2	20.3	20.3			
		75	0	20.2	20.6	20.2	20.3	20.5			

SN: 004402741051498						Nominal			A-MPR active		
Band / BW	Modulation	RB Allocation	RB Offset	Tuning target (dBm)	Upper limit (dBm)	Ch20850 / 2510 MHz	Ch21100 / 2535 MHz	Ch21350 / 2560 MHz	Ch20850 / 2510 MHz	Ch21100 / 2535 MHz	Ch21350 / 2560 MHz
LTE7 20 MHz	QPSK	1	0	22.2	22.6	22.0	22.4	22.3			
		1	49	22.2	22.6	22.2	22.4	22.4			
		1	99	22.2	22.6	22.4	22.4	22.4			
		50	0	21.2	21.6	21.2	21.4	21.4			
		50	24	21.2	21.6	21.2	21.4	21.4			
		50	50	21.2	21.6	21.2	21.5	21.4			
		100	0	21.2	21.6	21.3	21.3	21.4			
	16QAM	1	0	21.2	21.6	21.3	21.5	21.2			
		1	49	21.2	21.6	21.4	21.5	21.2			
		1	99	21.2	21.6	21.6	21.5	21.2			
		50	0	20.2	20.6	20.3	20.4	20.3			
		50	24	20.2	20.6	20.3	20.4	20.3			
		50	50	20.2	20.6	20.3	20.4	20.4			
		100	0	20.2	20.6	20.3	20.3	20.3			

3.4 BT

BT	Tuning target (dBm)	Upper limit (dBm)
	10.0	11.5

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3.5 WLAN2450

3.5.1 WLAN 2450 Head, Body-worn and Wireless Router / RM-1065

WLAN 2.4 GHz: 20 MHz channel bandwidth												
					Tuning target (dBm)							
Standard	MCX index	Spatial streams	Modulation	Data speed [MBPS]	CH 1	CH 2	CH 6	CH 7	CH 10	CH 11	CH 12	CH 13
802.11b			BPSK	1	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
802.11b			QPSK	2	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11b			QPSK	5.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11b			QPSK	11	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11g			BPSK	6	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
802.11g			BPSK	9	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11g			QPSK	12	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11g			QPSK	18	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11g			16QAM	24	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11g			16QAM	36	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11g			64QAM	48	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
802.11g			64QAM	54	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
802.11n	0	1	BPSK	6.5 / 7.25	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11n	1	1	QPSK	13.0 / 14.4	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11n	2	1	QPSK	19.5 / 21.7	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11n	3	1	16QAM	26.0 / 28.9	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11n	4	1	16QAM	39.0 / 43.3	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11n	5	1	64QAM	52.0 / 57.8	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11n	6	1	64QAM	58.5 / 65.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
802.11n	7	1	64QAM	65.0 / 72.2	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0

WLAN 2.4 GHz: 20 MHz channel bandwidth												
					Upper limit of tuning target (dBm)							
Standard	MCX index	Spatial streams	Modulation	Data speed [MBPS]	CH 1	CH 2	CH 6	CH 7	CH 10	CH 11	CH 12	CH 13
802.11b			BPSK	1	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
802.11b			QPSK	2	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11b			QPSK	5.5	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11b			QPSK	11	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			BPSK	6	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
802.11g			BPSK	9	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			QPSK	12	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			QPSK	18	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			16QAM	24	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			16QAM	36	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			64QAM	48	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
802.11g			64QAM	54	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11n	0	1	BPSK	6.5 / 7.25	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	1	1	QPSK	13.0 / 14.4	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	2	1	QPSK	19.5 / 21.7	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	3	1	16QAM	26.0 / 28.9	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	4	1	16QAM	39.0 / 43.3	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	5	1	64QAM	52.0 / 57.8	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	6	1	64QAM	58.5 / 65.0	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11n	7	1	64QAM	65.0 / 72.2	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

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WLAN 2.4 GHz: 20 MHz channel bandwidth												
SN: 004402741070803					Measured value (dBm)							
Standard	MCX index	Spatial streams	Modulation	Data speed [MBPS]	CH 1	CH 2	CH 6	CH 7	CH 10	CH 11	CH 12	CH 13
802.11b			BPSK	1	16.0	16.0	16.0	16.1	16.2	16.1	16.3	16.2
802.11b			QPSK	2	15.5	15.7	15.5	15.3	15.5	15.5	15.5	15.6
802.11b			QPSK	5.5	16.0	16.0	15.6	15.8	15.7	15.8	15.8	15.8
802.11b			QPSK	11	15.7	15.8	15.5	15.7	15.7	15.7	15.7	15.8
802.11g			BPSK	6	15.7	16.1	15.8	15.8	15.8	16.0	16.0	15.8
802.11g			BPSK	9	15.3	15.4	15.4	15.4	15.3	15.4	15.4	15.5
802.11g			QPSK	12	15.3	15.6	15.5	15.4	15.3	15.4	15.5	15.5
802.11g			QPSK	18	15.3	15.4	15.2	15.5	15.3	15.5	15.2	15.6
802.11g			16QAM	24	15.2	15.4	15.2	15.2	15.3	15.2	15.4	15.3
802.11g			16QAM	36	14.8	14.9	14.7	14.7	15.2	15.2	15.2	14.9
802.11g			64QAM	48	14.1	14.3	14.3	14.3	14.3	14.4	14.1	14.4
802.11g			64QAM	54	13.2	13.3	13.3	13.5	13.1	13.3	13.5	13.3
802.11n	0	1	BPSK	6.5 / 7.25	15.3	15.6	15.5	15.5	15.4	15.4	15.3	15.5
802.11n	1	1	QPSK	13.0 / 14.4	15.2	15.4	15.1	15.3	15.4	15.4	15.3	15.3
802.11n	2	1	QPSK	19.5 / 21.7	15.4	15.5	15.1	15.3	15.4	15.3	15.4	15.6
802.11n	3	1	16QAM	26.0 / 28.9	14.9	15.0	14.8	14.8	14.9	14.9	14.9	15.0
802.11n	4	1	16QAM	39.0 / 43.3	14.9	15.1	14.8	15.0	14.6	15.0	15.1	14.9
802.11n	5	1	64QAM	52.0 / 57.8	14.8	14.8	14.9	14.9	15.0	15.0	14.9	14.9
802.11n	6	1	64QAM	58.5 / 65.0	13.1	13.1	13.1	13.2	13.4	13.3	13.5	13.4
802.11n	7	1	64QAM	65.0 / 72.2	11.0	11.7	10.9	11.1	10.8	11.4	11.3	11.3

3.5.2 WLAN 2450 Head, Body-worn and Wireless Router / RM-1064

WLAN 2.4 GHz: 20 MHz channel bandwidth												
					Tuning target (dBm)							
Standard	MCX index	Spatial streams	Modulation	Data speed [MBPS]	CH 1	CH 2	CH 6	CH 7	CH 10	CH 11	CH 12	CH 13
802.11b			BPSK	1	**15.0**	**15.0**	**15.0**	**15.0**	**15.0**	**15.0**	**15.0**	**15.0**
802.11b			QPSK	2	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11b			QPSK	5.5	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11b			QPSK	11	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11g			BPSK	6	**15.0**	**15.0**	**15.0**	**15.0**	**15.0**	**15.0**	**15.0**	**15.0**
802.11g			BPSK	9	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11g			QPSK	12	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11g			QPSK	18	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11g			16QAM	24	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11g			16QAM	36	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11g			64QAM	48	**14.0**	**14.0**	**14.0**	**14.0**	**14.0**	**14.0**	**14.0**	**14.0**
802.11g			64QAM	54	**13.0**	**13.0**	**13.0**	**13.0**	**13.0**	**13.0**	**13.0**	**13.0**
802.11n	0	1	BPSK	6.5 / 7.25	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11n	1	1	QPSK	13.0 / 14.4	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11n	2	1	QPSK	19.5 / 21.7	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11n	3	1	16QAM	26.0 / 28.9	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11n	4	1	16QAM	39.0 / 43.3	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11n	5	1	64QAM	52.0 / 57.8	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**	**14.5**
802.11n	6	1	64QAM	58.5 / 65.0	**13.0**	**13.0**	**13.0**	**13.0**	**13.0**	**13.0**	**13.0**	**13.0**
802.11n	7	1	64QAM	65.0 / 72.2	**11.0**	**11.0**	**11.0**	**11.0**	**11.0**	**11.0**	**11.0**	**11.0**

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WLAN 2.4 GHz: 20 MHz channel bandwidth												
					Upper limit of tuning target (dBm)							
Standard	MCX index	Spatial streams	Modulation	Data speed [MBPS]	CH 1	CH 2	CH 6	CH 7	CH 10	CH 11	CH 12	CH 13
802.11b			BPSK	1	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
802.11b			QPSK	2	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11b			QPSK	5.5	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11b			QPSK	11	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			BPSK	6	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
802.11g			BPSK	9	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			QPSK	12	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			QPSK	18	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			16QAM	24	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			16QAM	36	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11g			64QAM	48	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
802.11g			64QAM	54	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11n	0	1	BPSK	6.5 / 7.25	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	1	1	QPSK	13.0 / 14.4	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	2	1	QPSK	19.5 / 21.7	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	3	1	16QAM	26.0 / 28.9	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	4	1	16QAM	39.0 / 43.3	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	5	1	64QAM	52.0 / 57.8	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
802.11n	6	1	64QAM	58.5 / 65.0	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
802.11n	7	1	64QAM	65.0 / 72.2	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

WLAN 2.4 GHz: 20 MHz channel bandwidth												
SN: 004402741051522					Measured value (dBm)							
Standard	MCX index	Spatial streams	Modulation	Data speed [MBPS]	CH 1	CH 2	CH 6	CH 7	CH 10	CH 11	CH 12	CH 13
802.11b			BPSK	1	16.2	16.0	15.7	16.1	15.9	16.0	16.0	16.1
802.11b			QPSK	2	15.3	15.7	15.1	15.4	15.5	15.5	15.4	15.5
802.11b			QPSK	5.5	15.8	15.7	15.6	15.3	15.8	15.8	15.7	15.5
802.11b			QPSK	11	15.3	15.7	15.2	15.5	15.5	15.6	15.6	15.5
802.11g			BPSK	6	15.8	15.8	15.7	15.7	15.6	15.8	15.8	15.6
802.11g			BPSK	9	15.2	15.4	15.1	15.3	15.3	15.4	15.2	15.2
802.11g			QPSK	12	15.0	15.1	15.2	15.3	15.1	15.1	15.2	15.2
802.11g			QPSK	18	15.0	15.2	15.2	15.1	15.2	15.2	15.2	15.3
802.11g			16QAM	24	15.0	15.3	15.1	15.2	15.2	15.2	15.3	15.2
802.11g			16QAM	36	14.5	14.8	14.8	14.8	14.6	14.8	14.8	14.7
802.11g			64QAM	48	14.2	14.3	13.8	14.0	14.1	14.0	14.1	14.2
802.11g			64QAM	54	12.8	13.1	12.9	13.0	13.3	12.9	13.2	13.1
802.11n	0	1	BPSK	6.5 / 7.25	15.2	15.4	15.0	15.1	15.3	15.2	15.2	15.2
802.11n	1	1	QPSK	13.0 / 14.4	15.2	15.5	15.0	15.4	15.1	15.5	15.3	15.3
802.11n	2	1	QPSK	19.5 / 21.7	15.1	15.5	15.3	15.1	15.2	15.3	15.3	15.1
802.11n	3	1	16QAM	26.0 / 28.9	14.7	14.9	14.6	14.8	14.8	14.7	14.6	14.8
802.11n	4	1	16QAM	39.0 / 43.3	14.7	14.6	14.5	14.6	14.7	14.8	14.6	14.8
802.11n	5	1	64QAM	52.0 / 57.8	14.8	15.2	14.6	14.4	14.8	14.6	14.7	14.6
802.11n	6	1	64QAM	58.5 / 65.0	13.1	13.0	13.2	13.3	13.0	13.0	13.5	13.2
802.11n	7	1	64QAM	65.0 / 72.2	11.0	10.9	10.7	10.9	10.7	11.4	11.1	11.2

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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
DAE4	1355	2014-05	2015-05
DAE4	793	2014-10	2015-10
DAE4	1213	2014-10	2015-10
DAE4	555	2014-11	2015-11
DAE4	1316	2014-10	2015-10
E-field Probe EX3DV4	3834	2014-05	2015-05
E-field Probe ES3DV3	3131	2014-10	2015-10
E-field Probe EX3DV4	3835	2014-10	2015-10
E-field Probe ES3DV3	3165	2014-05	2015-05
E-field Probe ES3DV3	3118	2014-10	2015-10
Dipole Validation Kit, D750V2	1034	2014-05	2016-05
Dipole Validation Kit, D835V2	462	2014-05	2016-05
Dipole Validation Kit, D1750V2	1083	2014-05	2016-05
Dipole Validation Kit, D1900V2	5d030	2014-05	2016-05
Dipole Validation Kit, D2450V2	729	2014-05	2016-05
Dipole Validation Kit, D2600V2	1009	2014-05	2016-05
DASY5 software	Version 52.8	-	-

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Additional test equipment used in testing:

Test Equipment	Model	Serial Number	Calibration date	Calibration expiry
Signal Generator	E4438C	MY42080610	2014-09	2015-09
Signal Generator	SML03	101264	2014-09	2015-09
Signal Generator	E4436B	US39260114	2014-09	2015-09
Signal Generator	SME06	836407/007	2014-09	2015-09
Signal generator	N5181B	MY51350034	2013-06	2016-03
Amplifier	5S1G4M3	302338	-	-
Amplifier	ZHL-42-SMA	NO72095-5	-	-
Amplifier	5S1G4	330638	-	-
Amplifier	ZHL-42	854105	-	-
Amplifier	ZVE-3W-83+	0832	-	-
Power Meter	NRVS	838624/032	2014-09	2015-09
Power Meter	NRVD	840023/028	2014-09	2015-09
Power Meter	NRVZ	849305/029	2014-09	2015-09
Power Meter	NRVD	840297/032	2014-09	2015-09
Power Meter	NRP	101466	2014-12	2015-12
Power Sensor	NRV-Z32	100067	2014-09	2015-09
Power Sensor	NRV-Z32	849745/018	2014-09	2015-09
Power Sensor	NRV-Z32	825600/002	2014-09	2015-09
Power Sensor	NRV-Z53	848532/001	2014-09	2015-09
Power Sensor	NRP-Z92	100087	2014-12	2015-12
Call Tester	CMU 200	103293	-	-
Call Tester	CMU 200	104983	-	-
Call Tester	CMU 200	101111	-	-
Call Tester	CMW 500	145474	-	-
Call Tester	CMW 500	110565	-	-
Call Tester	CMW 500	136294		
Call Tester	MT8820C	6200883095	-	-
Call Tester	MT8820C	6201060952	-	-
Network Analyzer	ENA E5071C	MY46213166	2014-09	2015-09
Network Analyzer	8753E	US38432928	2014-09	2015-09
Dielectric Probe Kit	DAK-3.5	1042	-	-
Dielectric Probe Kit	DAK-3.5	2088	-	-

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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 D
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 µW/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 Distance from probe tip to dipole centers: 2.0 mm
Application	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 D
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 µW/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 Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 6 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms

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4.2 Phantoms

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

The phantom used for all Body SAR tests i.e. for both system checks and device testing, was a flat phantom also manufactured by SPEAG this phantom conform to the requirements of FCC published RF Exposure KDB Procedures.

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 ± 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 for all system check and device tests, measured from the ear reference point in the case of the SAM phantom and from the inner surface of the flat phantom.

4.3.1 Tissue Simulant Recipes

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

700 MHz 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

800 MHz band

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

1750 MHz 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

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1900 MHz 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

2450-2600 MHz 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 Salo / SAR-4	V52.8	D750V2 / 1034	EX3DV4 / 3835	CW	DAE4 / 1213	2014-10	2014-10
835	TCC Salo / SAR-2	V52.8	D835V2 / 462	ES3DV3 / 3131	CW	DAE4 / 793	2014-10	2014-12
1750	TCC Salo / SAR-5	V52.8	D1750V2 / 1083	ES3DV3 / 3165	CW	DAE4 / 555	2014-06	2014-06
1900	TCC Salo / SAR-1	V52.8	D1900V2 / 5d030	EX3DV4 / 3834	CW	DAE4 / 1355	2014-12	2014-12
2450	TCC Salo / SAR-6	V52.8	D2450V2 / 729	ES3DV3 / 3118	CW	DAE4 / 1316	2014 -12	2014-12
2600	TCC Salo / SAR-6	V52.8	D2600V2 / 1009	ES3DV3 / 3118	CW	DAE4 / 1316	2014-06	2014-10

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. The dipole 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.

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System checking, head tissue simulant

Dipole freq. [MHz]	Description	SAR 1g [W/kg]	Estimated SAR 1g [W/kg]	Estimated SAR 1g Dev. dSAR [%]	Scaled 1W SAR 1g [W/kg]	Dielectric Parameters		SAR 1g Deviation from target	Dielectric Parameters Deviation from target		Temp [°C]	Plot #
						e_r	s [S/m]	dSAR [%]	de_r [%]	ds [%]		
	Tolerances			±3%				±10 %	±5 %	±5 %		
750	Target result **SN:1034**	-	-	-	8.16	41.9	0.89	TCC Salo / SAR-4 EX3DV4 - SN:3835 Head 750 MHz				
	2015-01-08	1.99	2.03	2.01	7.96	40.6	0.89	-2.45	-3.10	0.00	22.0	-
	2015-01-09	2.00	2.04	2.00	8.00	40.9	0.89	-1.96	-2.39	0.00	22.0	-
	2015-01-10	1.99	2.01	1.01	7.96	40.2	0.87	-2.45	-4.06	-2.25	22.0	1
	2015-01-11	2.06	2.10	1.94	8.24	40.5	0.90	0.98	-3.34	1.12	22.0	-
	2015-01-16	2.08	2.11	1.44	8.32	40.0	0.89	1.96	-4.53	0.00	22.1	-
	Tolerances			±3%				±10 %	±5 %	±5 %		
835	Target result **SN:462**	-	-	-	9.19	41.5	0.90	TCC Salo / SAR-2 ES3DV3 - SN:3131 Head 835 MHz				
	2015-01-08	2.33	2.38	2.15	9.32	41.0	0.92	1.41	-1.20	2.22	22.2	2
	2015-01-09	2.31	2.37	2.60	9.24	40.6	0.91	0.54	-2.17	1.11	22.3	-
	2015-01-10	2.32	2.36	1.72	9.28	40.6	0.91	0.98	-2.17	1.11	22.0	-
	2015-01-11	2.29	2.35	2.62	9.16	40.0	0.90	-0.33	-3.61	0.00	22.2	-
	2015-01-16	2.28	2.33	2.19	9.12	40.2	0.90	-0.76	-3.13	0.00	21.9	-
	Tolerances			±3%				±10 %	±5 %	±5 %		
1750	Target result **SN:1083**	-	-	-	37.10	40.1	1.37	TCC Salo / SAR-5 ES3DV3 - SN:3165 Head 1750 MHz				
	2015-01-12	9.11	9.30	2.09	36.44	39.2	1.31	-1.78	-2.24	-4.38	22.2	-
	2015-01-13	9.15	9.25	1.09	36.60	39.3	1.31	-1.35	-2.00	-4.38	22.3	-
	2015-01-14	9.08	9.34	2.86	36.32	39.0	1.32	-2.10	-2.74	-3.65	21.8	-
	2015-01-18	9.02	9.27	2.77	36.08	39.1	1.33	-2.75	-2.49	-2.92	22.9	3
	Tolerances			±3%				±10 %	±5 %	±5 %		
1900	Target result **SN:5d030**	-	-	-	39.70	40.0	1.40	TCC Salo / SAR-1 EX3DV4 - SN:3834 Head 1900 MHz				
	2015-01-08	10.20	10.40	1.96	40.80	39.0	1.41	2.77	-2.50	0.71	21.8	4
	2015-01-12	10.10	10.20	0.99	40.40	38.6	1.39	1.76	-3.50	-0.71	21.9	-
	2015-01-14	9.81	9.87	0.61	39.24	38.7	1.36	-1.16	-3.25	-2.86	20.9	-
	2015-01-17	10.00	10.20	2.00	40.00	38.7	1.39	0.76	-3.25	-0.71	20.9	-
	Tolerances			±3%				±10 %	±5 %	±5 %		
2450	Target result **SN:729**	-	-	-	52.60	39.2	1.80	TCC Salo / SAR-6 ES3DV3 - SN:3118 Head 2450 MHz				
	2015-01-05	13.00	13.00	0.00	52.00	38.8	1.80	-1.14	-1.02	0.00	22.6	-
	2015-01-07	13.20	13.20	0.00	52.80	38.7	1.81	0.38	-1.28	0.56	22.4	-
	2015-01-08	13.50	13.60	0.74	54.00	38.3	1.84	2.66	-2.30	2.22	22.2	5
	Tolerances			±3%				±10 %	±5 %	±5 %		
2600	Target result **SN:1009**	-	-	-	57.30	39.0	1.96	TCC Salo / SAR-6 ES3DV3 - SN:3118 Head 2600 MHz				
	2015-01-15	14.10	14.40	2.13	56.40	37.7	1.94	-1.57	-3.33	-1.02	22.5	-
	2015-01-16	14.60	14.90	2.05	58.40	37.3	1.98	1.92	-4.36	1.02	21.7	6
	2015-01-19	14.50	14.80	2.07	58.00	37.5	1.96	1.22	-3.85	0.00	22.0	-

* Dielectric parameter reference data taken from IEEE1528/IEC62209

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System checking, body tissue simulant

Dipole freq. [MHz]	Description	SAR 1g [W/kg]	Estimated SAR 1g [W/kg]	Estimated SAR 1g Dev. dSAR [%]	Scaled 1W SAR 1g [W/kg]	Dielectric Parameters		SAR 1g Deviation from target	Dielectric Parameters Deviation from target		Temp [°C]	Plot #
						e_r	s [S/m]	dSAR [%]	de_r [%]	ds [%]		
	Tolerances			±3%				±10 %	±5 %	±5 %		
750	Target result **SN:1034**	-	-	-	8.65	55.5	0.96	TCC Salo / SAR-4 EX3DV4 - SN:3835 Body 750 MHz				
	2015-01-12	2.23	2.26	1.35	8.92	54.2	0.97	3.12	-2.34	1.04	22.1	-
	2015-01-13	2.23	2.27	1.79	8.92	54.1	0.97	3.12	-2.52	1.04	22.1	-
	2015-01-14	2.25	2.28	1.33	9.00	53.9	0.97	4.05	-2.88	1.04	22.2	-
	2015-01-15	2.29	2.32	1.31	9.16	53.6	0.97	5.90	-3.42	1.04	22.1	7
	2015-01-16	2.22	2.26	1.80	8.88	53.9	0.98	2.66	-2.88	2.08	22.0	-
	Tolerances			±3%				±10 %	±5 %	±5 %		
835	Target result **SN:462**	-	-	-	9.41	55.2	0.97	TCC Salo / SAR-2 ES3DV3 - SN:3131 Body 835 MHz				
	2015-01-12	2.38	2.43	2.10	9.52	53.3	0.97	1.17	-3.44	0.00	21.8	-
	2015-01-13	2.37	2.41	1.69	9.48	53.7	0.97	0.74	-2.72	0.00	21.6	-
	2015-01-14	2.37	2.41	1.69	9.48	54.1	0.97	0.74	-1.99	0.00	21.5	-
	2015-01-17	2.40	2.44	1.67	9.60	53.9	0.97	2.02	-2.36	0.00	21.8	8
	Tolerances			±3%				±10 %	±5 %	±5 %		
1750	Target result **SN:1083**	-	-	-	37.60	53.4	1.49	TCC Salo / SAR-5 ES3DV3 - SN:3165 Body 1750 MHz				
	2015-01-08	9.47	9.52	0.53	37.88	52.2	1.45	0.74	-2.25	-2.68	22.9	-
	2015-01-09	9.13	9.23	1.10	36.52	52.1	1.45	-2.87	-2.43	-2.68	22.8	-
	2015-01-18	8.94	9.04	1.12	35.76	51.3	1.44	-4.89	-3.93	-3.36	21.9	-
	2015-01-20	8.91	8.99	0.90	35.64	52.5	1.45	-5.21	-1.69	-2.68	23.0	9
	Tolerances			±3%				±10 %	±5 %	±5 %		
1900	Target result **SN:5d030**	-	-	-	40.30	53.3	1.52	TCC Salo / SAR-1 EX3DV4 - SN:3834 Body 1900 MHz				
	2015-01-07	10.30	10.40	0.97	41.20	52.1	1.56	2.23	-2.25	2.63	21.0	-
	2015-01-08	10.50	10.50	0.00	42.00	52.0	1.55	4.22	-2.44	1.97	20.7	10
	2015-01-14	10.10	10.10	0.00	40.40	51.6	1.53	0.25	-3.19	0.66	20.9	-
	2015-01-16	10.10	10.20	0.99	40.40	51.7	1.53	0.25	-3.00	0.66	20.6	-
	Tolerances			±3%				±10 %	±5 %	±5 %		
2450	Target result **SN:729**	-	-	-	51.40	52.7	1.95	TCC Salo / SAR-6 ES3DV3 - SN:3118 Body 2450 MHz				
	2015-01-09	13.00	12.80	-1.54	52.00	51.0	1.93	1.17	-3.23	-1.03	22.0	-
	2015-01-18	12.60	12.50	-0.79	50.40	50.9	1.91	-1.95	-3.42	-2.05	22.0	11
	Tolerances			±3%				±10 %	±5 %	±5 %		
2600	Target result **SN:1009**	-	-	-	56.90	52.5	2.16	TCC Salo / SAR-6 ES3DV3 - SN:3118 Body 2600 MHz				
	2015-01-09	14.30	14.40	0.70	57.20	50.6	2.10	0.53	-3.62	-2.78	22.0	-
	2015-01-14	13.90	14.00	0.72	55.60	50.9	2.08	-2.28	-3.05	-3.70	22.5	-
	2015-01-18	13.50	13.70	1.48	54.00	50.5	2.08	-5.10	-3.81	-3.70	22.0	12
	2015-01-20	14.10	14.10	0.00	56.40	50.6	2.09	-0.88	-3.62	-3.24	22.2	-

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

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

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4.5 Tissue Simulants used in the Measurements

Head tissue simulant measurements

f [MHz]	Description	Dielectric Parameters e_r	Dielectric Parameters s [S/m]	Dielectric Parameters Deviation from recommended value de_r [%]	Dielectric Parameters Deviation from recommended value ds [%]	Temp [°C]
707	Tolerances			±5 %	±5 %	
	Recommended value	42.2	0.89			
	2015-01-08	40.8	0.86	-3.32	-3.37	22.0
	2015-01-09	41.1	0.86	-2.61	-3.37	22.0
	2015-01-10	40.4	0.85	-4.27	-4.49	22.0
	2015-01-11	40.7	0.87	-3.55	-2.25	22.0
	2015-01-16	40.4	0.86	-4.27	-3.37	22.1
710	Tolerances			±5 %	±5 %	
	Recommended value	42.1	0.89			
	2015-01-08	40.8	0.86	-3.09	-3.37	22.0
	2015-01-09	41.1	0.86	-2.38	-3.37	22.0
	2015-01-10	40.4	0.85	-4.04	-4.49	22.0
	2015-01-11	40.7	0.87	-3.33	-2.25	22.0
	2015-01-16	40.3	0.87	-4.28	-2.25	22.1
725	Tolerances			±5 %	±5 %	
	Recommended value	42.1	0.89			
	2015-01-08	40.7	0.87	-3.33	-2.25	22.0
	2015-01-09	41.0	0.87	-2.61	-2.25	22.0
	2015-01-10	40.3	0.86	-4.28	-3.37	22.0
	2015-01-11	40.6	0.88	-3.56	-1.12	22.0
	2015-01-16	40.2	0.87	-4.51	-2.25	22.1
835	Tolerances			±5 %	±5 %	
	Recommended value	41.5	0.90			
	2015-01-08	41.0	0.92	-1.20	2.22	22.2
	2015-01-09	40.6	0.91	-2.17	1.11	22.3
	2015-01-10	40.6	0.91	-2.17	1.11	22.0
	2015-01-11	40.0	0.90	-3.61	0.00	22.2
	2015-01-16	40.2	0.90	-3.13	0.00	21.9
836	Tolerances			±5 %	±5 %	
	Recommended value	41.5	0.90			
	2015-01-08	41.0	0.92	-1.20	2.22	22.2
	2015-01-09	40.5	0.91	-2.41	1.11	22.3
	2015-01-10	40.6	0.91	-2.17	1.11	22.0
	2015-01-11	40.0	0.90	-3.61	0.00	22.2
	2015-01-16	40.2	0.90	-3.13	0.00	21.9
1732	Tolerances			±5 %	±5 %	
	Recommended value	40.1	1.36			
	2015-01-12	39.3	1.30	-2.00	-4.41	22.2
	2015-01-13	39.4	1.30	-1.75	-4.41	22.3
	2015-01-14	39.0	1.30	-2.74	-4.41	21.8
	2015-01-18	39.1	1.31	-2.49	-3.68	22.9

(Head tissue simulant measurements table continues)

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(Head tissue simulant measurements table continues)

1880	Tolerances			±5 %	±5 %	
	Recommended value	40.0	1.40			
	2015-01-08	39.1	1.39	-2.25	-0.71	21.8
	2015-01-12	38.6	1.37	-3.50	-2.14	21.9
	2015-01-14	38.8	1.34	-3.00	-4.29	20.9
	2015-01-17	38.8	1.37	-3.00	-2.14	20.9
2437	Tolerances			±5 %	±5 %	
	Recommended value	39.2	1.79			
	2015-01-05	38.9	1.79	-0.77	0.00	22.6
	2015-01-07	38.8	1.80	-1.02	0.56	22.4
	2015-01-08	38.4	1.83	-2.04	2.23	22.2
2535	Tolerances			±5 %	±5 %	
	Recommended value	39.1	1.89			
	2015-01-15	38.0	1.87	-2.81	-1.06	22.5
	2015-01-16	37.5	1.90	-4.09	0.53	21.7
	2015-01-19	37.7	1.89	-3.58	0.00	22.0

Body tissue simulant measurements

f		Dielectric Parameters		Dielectric Parameters Deviation from recommended value		Temp
[MHz]	Description	e_r	s [S/m]	de_r [%]	ds [%]	[°C]
707	Tolerances			±5 %	±5 %	
	Recommended value	55.7	0.96			
	2015-01-12	54.4	0.94	-2.33	-2.08	22.1
	2015-01-13	54.3	0.95	-2.51	-1.04	22.1
	2015-01-14	54.1	0.95	-2.87	-1.04	22.2
	2015-01-15	53.8	0.94	-3.41	-2.08	22.1
	2015-01-16	54.1	0.95	-2.87	-1.04	22.0
710	Tolerances			±5 %	±5 %	
	Recommended value	55.7	0.96			
	2015-01-12	54.4	0.94	-2.33	-2.08	22.1
	2015-01-13	54.3	0.95	-2.51	-1.04	22.1
	2015-01-14	54.1	0.95	-2.87	-1.04	22.2
	2015-01-15	53.8	0.94	-3.41	-2.08	22.1
	2015-01-16	54.1	0.95	-2.87	-1.04	22.0
725	Tolerances			±5 %	±5 %	
	Recommended value	55.6	0.96			
	2015-01-12	54.3	0.95	-2.34	-1.04	22.1
	2015-01-13	54.2	0.95	-2.52	-1.04	22.1
	2015-01-14	54.0	0.96	-2.88	0.00	22.2
	2015-01-15	53.7	0.95	-3.42	-1.04	22.1
	2015-01-16	54.0	0.96	-2.88	0.00	22.0

(Body tissue simulant measurements table continues)

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(Body tissue simulant measurements table continues)

835	Tolerances			±5 %	±5 %	
	Recommended value	55.2	0.97			
	2015-01-12	53.3	0.97	-3.44	0.00	21.8
	2015-01-13	53.7	0.97	-2.72	0.00	21.6
	2015-01-14	54.1	0.97	-1.99	0.00	21.5
	2015-01-17	53.9	0.97	-2.36	0.00	21.8
836	Tolerances			±5 %	±5 %	
	Recommended value	55.2	0.97			
	2015-01-12	53.3	0.97	-3.44	0.00	21.8
	2015-01-13	53.7	0.97	-2.72	0.00	21.6
	2015-01-14	54.1	0.97	-1.99	0.00	21.5
	2015-01-17	53.9	0.97	-2.36	0.00	21.8
1732	Tolerances			±5 %	±5 %	
	Recommended value	53.5	1.48			
	2015-01-08	52.3	1.43	-2.24	-3.38	22.9
	2015-01-09	52.1	1.44	-2.62	-2.70	22.8
	2015-01-18	51.4	1.43	-3.93	-3.38	21.9
	2015-01-20	52.6	1.43	-1.68	-3.38	23.0
1880	Tolerances			±5 %	±5 %	
	Recommended value	53.3	1.52			
	2015-01-07	52.2	1.54	-2.06	1.32	21.0
	2015-01-08	52.1	1.53	-2.25	0.66	20.7
	2015-01-14	51.7	1.51	-3.00	-0.66	20.9
	2015-01-16	51.7	1.51	-3.00	-0.66	20.6
2437	Tolerances			±5 %	±5 %	
	Recommended value	52.7	1.94			
	2015-01-09	51.1	1.92	-3.04	-1.03	22.0
	2015-01-18	50.9	1.89	-3.42	-2.58	22.0
2535	Tolerances			±5 %	±5 %	
	Recommended value	52.6	2.07			
	2015-01-09	50.8	2.03	-3.42	-1.93	22.0
	2015-01-14	51.1	2.00	-2.85	-3.38	22.5
	2015-01-18	50.7	2.00	-3.61	-3.38	22.0
	2015-01-20	50.8	2.01	-3.42	-2.90	22.2

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.

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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 phantom. The distance between the device and the phantom was kept at the separation distance indicated in Section 1.2 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 mm away from the flat phantom. The spacer was removed before the start of the measurements.

5.2.4 10-g Extremity SAR

The device was placed in the SPEAG holder and, in this case, only the bottom edge was positioned 0 mm away from the flat phantom.

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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 Dasy52 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.

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6. MEASUREMENT UNCERTAINTY

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

Uncertainty Component	Section in IEEE 1528	Tol. (%)	Prob Dist	Div	c_i	$c_i . u_i$ (%)	v_i
Measurement System							
Probe Calibration	E2.1	±6.6	N	1	1	±6.6	∞
Axial Isotropy	E2.2	±4.7	R	√3	$(1-c_p)^{1/2}$	±1.9	∞
Hemispherical Isotropy	E2.2	±9.6	R	√3	$(c_p)^{1/2}$	±3.9	∞
Boundary Effect	E2.3	±2.0	R	√3	1	±1.2	∞
Linearity	E2.4	±4.7	R	√3	1	±2.7	∞
System Detection Limits	E2.5	±1.0	R	√3	1	±0.6	∞
Modulation response	E2.5	±2.4	R	√3	1	±1.4	
Readout Electronics	E2.6	±0.3	N	1	1	±0.3	∞
Response Time	E2.7	±0.8	R	√3	1	±0.5	∞
Integration Time	E2.8	±2.6	R	√3	1	±1.5	∞
RF Ambient Conditions - Noise	E6.1	±3.0	R	√3	1	±1.7	∞
RF Ambient Conditions - Reflections	E6.1	±3.0	R	√3	1	±1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	±0.8	R	√3	1	±0.5	∞
Probe Positioning with respect to Phantom Shell	E6.3	±6.7	R	√3	1	±3.9	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E5	±4.0	R	√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	√3	1	±2.9	∞
Phantom and Tissue Parameters							
Phantom Uncertainty (shape and thickness tolerances)	E3.1	±6.6	R	√3	1	±3.8	∞
SAR correction	E3.2	±1.9	R	√3	1	±1.1	∞
Conductivity Target - tolerance	E3.4	±5.0	R	√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	√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**	

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Table 6.2 – Measurement uncertainty evaluation for 1g Fast SAR in 0.3-6G Hz 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	$c_i . u_i$ (%)	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**	

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7. RESULTS

7.1 The measured Head SAR values for the test device

LTE700 (Band 12) Head SAR results – Antenna 1/ RM-1065

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.1	23.0	0.3	0.3	0.4	dB	
Time-averaged Power		23.1	23.1	23.0	1.07	1.07	1.10	Lin	
Left Cheek	Estimated SAR	-	0.147	-	-	0.158	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	-	0.079	-	-	0.084	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.160	-	-	0.171	-	0.01	H1
	Full SAR	-	0.171	-	-	0.183	-		
Right Tilt	Estimated SAR	-	0.092	-	-	0.098	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	22.0	0.2	0.4	0.4	dB	
Time-averaged Power		22.2	22.0	22.0	1.05	1.10	1.10	Lin	
Left Cheek	Estimated SAR	0.115	-	-	0.120	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.057	-	-	0.059	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.132	-	-	0.138	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.075	-	-	0.078	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.3	22.1	22.1	0.1	0.3	0.3	dB	
Time-averaged Power		22.3	22.1	22.1	1.02	1.07	1.07	Lin	
Right Cheek	Estimated SAR	0.139	-	-	0.142	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 12) Head SAR results – Antenna 1/ RM-1064

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	22.9	23.1	0.4	0.5	0.3	dB	
Time-averaged Power		23.0	22.9	23.1	1.10	1.12	1.07	Lin	
Right Cheek	Estimated SAR	-	0.174	-	-	0.195	-	0.00	H2
	Full SAR	-	0.175	-	-	**0.196**	-		

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LTE700 (Band 12) Head SAR results – Antenna 2/ RM-1065

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.9	22.8	0.5	0.5	0.6	dB	
Time-averaged Power		22.9	22.9	22.8	1.12	1.12	1.15	Lin	
Left Cheek	Estimated SAR	-	0.128	-	-	0.144	-	0.01	-
	Full SAR	-	0.133	-	-	0.149	-		
Left Tilt	Estimated SAR	-	0.069	-	-	0.077	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.105	-	-	0.118	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.056	-	-	0.062	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.8	21.8	0.4	0.6	0.6	dB	
Time-averaged Power		22.0	21.8	21.8	1.10	1.15	1.15	Lin	
Left Cheek	Estimated SAR	0.107	-	-	0.117	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.059	-	-	0.064	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.104	-	-	0.114	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.051	-	-	0.056	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.1	21.9	21.9	0.3	0.5	0.5	dB	
Time-averaged Power		22.1	21.9	21.9	1.07	1.12	1.12	Lin	
Left Cheek	Estimated SAR	0.111	-	-	0.119	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 12) Head SAR results – Antenna 2/ RM-1064

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.7	22.9	0.6	0.7	0.5	dB	
Time-averaged Power		22.8	22.7	22.9	1.15	1.17	1.12	Lin	
Left Cheek	Estimated SAR	-	0.140	-	-	0.164	-	0.00	-
	Full SAR	-	0.143	-	-	0.168	-		

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LTE700 (Band 17) Head SAR results – Antenna 1/ RM-1065

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.0	23.0	0.3	0.4	0.4	dB	
Time-averaged Power		23.1	23.0	23.0	1.07	1.10	1.10	Lin	
Left Cheek	Estimated SAR	0.149	-	-	0.160	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.076	-	-	0.081	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.157	-	-	0.168	-	-	0.01	H3
	Full SAR	0.166	-	-	0.178	-	-		
Right Tilt	Estimated SAR	0.091	-	-	0.097	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.1	22.1	0.2	0.3	0.3	dB	
Time-averaged Power		22.2	22.1	22.1	1.05	1.07	1.07	Lin	
Left Cheek	Estimated SAR	0.120	-	-	0.126	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.063	-	-	0.066	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.129	-	-	0.135	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.075	-	-	0.078	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.3	22.1	22.1	0.1	0.3	0.3	dB	
Time-averaged Power		22.3	22.1	22.1	1.02	1.07	1.07	Lin	
Right Cheek	Estimated SAR	0.135	-	-	0.138	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 17) Head SAR results – Antenna 1/ RM-1064

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.0	23.0	0.3	0.4	0.4	dB	
Time-averaged Power		23.1	23.0	23.0	1.07	1.10	1.10	Lin	
Right Cheek	Estimated SAR	0.169	-	-	0.181	-	-	0.00	H4
	Full SAR	0.171	-	-	**0.183**	-	-		

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LTE700 (Band 17) Head SAR results – Antenna 2/ RM-1065

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.8	22.8	0.5	0.6	0.6	dB	
Time-averaged Power		22.9	22.8	22.8	1.12	1.15	1.15	Lin	
Left Cheek	Estimated SAR	0.126	-	-	0.141	-	-	0.00	-
	Full SAR	0.127	-	-	0.142	-	-		
Left Tilt	Estimated SAR	0.069	-	-	0.078	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.112	-	-	0.126	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.057	-	-	0.064	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.9	21.9	0.4	0.5	0.5	dB	
Time-averaged Power		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
Left Cheek	Estimated SAR	0.103	-	-	0.113	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.057	-	-	0.062	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.092	-	-	0.101	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.047	-	-	0.051	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.1	21.9	21.9	0.3	0.5	0.5	dB	
Time-averaged Power		22.1	21.9	21.9	1.07	1.12	1.12	Lin	
Left Cheek	Estimated SAR	0.104	-	-	0.111	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 17) Head SAR results – Antenna 2/ RM-1064

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.8	22.8	0.5	0.6	0.6	dB	
Time-averaged Power		22.9	22.8	22.8	1.12	1.15	1.15	Lin	
Left Cheek	Estimated SAR	0.140	-	-	0.157	-	-	0.00	-
	Full SAR	0.145	-	-	0.163	-	-		

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LTE700 (Band 28a) Head SAR results – Antenna 1/ RM-1065

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	23.0	22.9	0.4	0.4	0.5	dB	
Time-averaged Power		23.0	23.0	22.9	1.10	1.10	1.12	Lin	
Left Cheek	Estimated SAR	-	0.165	-	-	0.181	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	-	0.098	-	-	0.107	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.174	-	-	0.191	-	-	-
	Full SAR	-	0.174	-	-	0.191	-		
Right Tilt	Estimated SAR	-	0.106	-	-	0.116	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 50 RB - Offset 50									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	21.9	0.2	0.4	0.5	dB	
Time-averaged Power		22.2	22.0	21.9	1.05	1.10	1.12	Lin	
Left Cheek	Estimated SAR	0.128	-	-	0.134	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.074	-	-	0.077	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.139	-	-	0.146	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.083	-	-	0.087	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	21.9	0.2	0.4	0.5	dB	
Time-averaged Power		22.2	22.0	21.9	1.05	1.10	1.12	Lin	
Right Cheek	Estimated SAR	0.134	-	-	0.140	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 28a) Head SAR results – Antenna 1/ RM-1064

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	23.0	22.8	0.4	0.4	0.6	dB	
Time-averaged Power		23.0	23.0	22.8	1.10	1.10	1.15	Lin	
Right Cheek	Estimated SAR	-	0.188	-	-	0.206	-	0.00	-
	Full SAR	-	0.192	-	-	0.211	-		

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LTE700 (Band 28a) Head SAR results – Antenna 2/ RM-1065

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.8	22.7	0.6	0.6	0.7	dB	
Time-averaged Power		22.8	22.8	22.7	1.15	1.15	1.17	Lin	
Left Cheek	Estimated SAR	-	0.141	-	-	0.162	-	0.01	-
	Full SAR	-	0.134	-	-	0.154	-		
Left Tilt	Estimated SAR	-	0.082	-	-	0.094	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.102	-	-	0.117	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.057	-	-	0.066	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 50 RB - Offset 50									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.8	21.7	0.4	0.6	0.7	dB	
Time-averaged Power		22.0	21.8	21.7	1.10	1.15	1.17	Lin	
Left Cheek	Estimated SAR	0.108	-	-	0.118	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.063	-	-	0.069	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.082	-	-	0.090	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.046	-	-	0.050	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.8	21.7	0.4	0.6	0.7	dB	
Time-averaged Power		22.0	21.8	21.7	1.10	1.15	1.17	Lin	
Left Cheek	Estimated SAR	0.105	-	-	0.115	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 28a) Head SAR results – Antenna 2/ RM-1064

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.8	22.6	0.6	0.6	0.8	dB	
Time-averaged Power		22.8	22.8	22.6	1.15	1.15	1.20	Lin	
Left Cheek	Estimated SAR	-	0.148	-	-	0.170	-	0.00	-
	Full SAR	-	0.146	-	-	0.168	-		

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LTE700 (Band 28b) Head SAR results – Antenna 1/ RM-1065

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	22.9	23.0	0.4	0.5	0.4	dB	
Time-averaged Power		23.0	22.9	23.0	1.10	1.12	1.10	Lin	
Left Cheek	Estimated SAR	0.137	-	-	0.150	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.083	-	-	0.091	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.187	-	-	0.205	-	-	0.00	H5
	Full SAR	0.184	-	-	0.202	-	-		
Right Tilt	Estimated SAR	0.115	-	-	0.126	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 50 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	21.9	22.0	0.2	0.5	0.4	dB	
Time-averaged Power		22.2	21.9	22.0	1.05	1.12	1.10	Lin	
Left Cheek	Estimated SAR	0.125	-	-	0.131	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.071	-	-	0.075	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.142	-	-	0.149	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.086	-	-	0.090	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.3	22.0	22.0	0.1	0.4	0.4	dB	
Time-averaged Power		22.3	22.0	22.0	1.02	1.10	1.10	Lin	
Right Cheek	Estimated SAR	0.141	-	-	0.144	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 28b) Head SAR results – Antenna 1/ RM-1064

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.0	23.0	0.3	0.4	0.4	dB	
Time-averaged Power		23.1	23.0	23.0	1.07	1.10	1.10	Lin	
Right Cheek	Estimated SAR	0.200	-	-	0.214	-	-	0.00	H6
	Full SAR	0.201	-	-	**0.215**	-	-		

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LTE700 (Band 28b) Head SAR results – Antenna 2/ RM-1065

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.7	22.8	0.6	0.7	0.6	dB	
Time-averaged Power		22.8	22.7	22.8	1.15	1.17	1.15	Lin	
Left Cheek	Estimated SAR	0.162	-	-	0.186	-	-	0.01	-
	Full SAR	0.154	-	-	0.177	-	-		
Left Tilt	Estimated SAR	0.102	-	-	0.117	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.117	-	-	0.134	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.081	-	-	0.093	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 50 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.7	21.8	0.4	0.7	0.6	dB	
Time-averaged Power		22.0	21.7	21.8	1.10	1.17	1.15	Lin	
Left Cheek	Estimated SAR	0.112	-	-	0.123	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.063	-	-	0.069	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.077	-	-	0.085	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.052	-	-	0.057	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.1	21.8	21.8	0.3	0.6	0.6	dB	
Time-averaged Power		22.1	21.8	21.8	1.07	1.15	1.15	Lin	
Left Cheek	Estimated SAR	0.111	-	-	0.119	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 28b) Head SAR results – Antenna 2/ RM-1064

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.8	22.8	0.5	0.6	0.6	dB	
Time-averaged Power		22.9	22.8	22.8	1.12	1.15	1.15	Lin	
Left Cheek	Estimated SAR	0.154	-	-	0.173	-	-	0.00	-
	Full SAR	0.156	-	-	0.175	-	-		

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GSM/GPRS/EGPRS 850 Head SAR results – Antenna 1/ RM-1065

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		32.2			Scaling factor*				
Conducted Power		31.9	31.7	31.7	0.3	0.5	0.5	dB	
Time-averaged Power		25.9	25.7	25.7	1.07	1.12	1.12	Lin	
Left Cheek	Estimated SAR	-	0.374	-	-	0.420	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	-	0.197	-	-	0.221	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.343	0.396	0.420	0.368	0.444	0.471	0.01	H7
	Full SAR	-	-	0.427	-	-	**0.479**		
Right Tilt	Estimated SAR	-	0.222	-	-	0.249	-	-	-
	Full SAR	-	-	-	-	-	-		

4-slot 8PSK EGPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		25.2			Scaling factor*				
Conducted Power		25.0	24.8	24.7	0.2	0.4	0.5	dB	
Time-averaged Power		22.0	21.8	21.7	1.05	1.10	1.12	Lin	
Right Cheek	Estimated SAR	-	-	0.180	-	-	0.202	0.01	-
	Full SAR	-	-	0.187	-	-	0.210		

2-slot GPRS 850 Head SAR results – Antenna 1/ RM-1064

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		32.2			Scaling factor*				
Conducted Power		31.8	31.8	31.7	0.4	0.4	0.5	dB	
Time-averaged Power		25.8	25.8	25.7	1.10	1.10	1.12	Lin	
Right Cheek	Estimated SAR	-	-	0.420	-	-	0.471	0.01	H8
	Full SAR	-	-	0.426	-	-	0.478		

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GSM/GPRS/EGPRS 850 Head SAR results – Antenna 2/ RM-1065

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		32.2			Scaling factor*				
Conducted Power		31.7	31.5	31.5	0.5	0.7	0.7	dB	
Time-averaged Power		25.7	25.5	25.5	1.12	1.17	1.17	Lin	
Left Cheek	Estimated SAR	0.193	0.221	0.281	0.217	0.260	0.330	0.01	-
	Full SAR	-	-	0.293	-	-	0.344		
Left Tilt	Estimated SAR	-	0.130	-	-	0.153	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.214	-	-	0.251	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.123	-	-	0.145	-	-	-
	Full SAR	-	-	-	-	-	-		

4-slot 8PSK EGPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		25.2			Scaling factor*				
Conducted Power		24.8	24.6	24.5	0.4	0.6	0.7	dB	
Time-averaged Power		21.8	21.6	21.5	1.10	1.15	1.17	Lin	
Left Cheek	Estimated SAR	-	-	0.085	-	-	0.100	0.02	-
	Full SAR	-	-	0.104	-	-	0.122		

2-slot GPRS Head SAR results – Antenna 2/ RM-1064

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		32.2			Scaling factor*				
Conducted Power		31.6	31.6	31.5	0.6	0.6	0.7	dB	
Time-averaged Power		25.6	25.6	25.5	1.15	1.15	1.17	Lin	
Left Cheek	Estimated SAR	-	-	0.273	-	-	0.321	0.01	-
	Full SAR	-	-	0.286	-	-	0.336		

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WCDMA850 (Band 5) Head SAR results – Antenna 1/ RM-1065

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.6	23.4	23.4	0.3	0.5	0.5	dB	
Time-averaged Power		23.6	23.4	23.4	1.07	1.12	1.12	Lin	
Left Cheek	Estimated SAR	-	0.219	-	-	0.246	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	-	0.113	-	-	0.127	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.223	0.240	0.239	0.239	0.269	0.268	0.00	H9
	Full SAR	-	0.236	-	-	**0.265**	-		
Right Tilt	Estimated SAR	-	0.127	-	-	0.142	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA850 (Band 5) Head SAR results – Antenna 1/ RM-1064

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.1	23.1	23.1	0.8	0.8	0.8	dB	
Time-averaged Power		23.1	23.1	23.1	1.20	1.20	1.20	Lin	
Right Cheek	Estimated SAR	-	0.209	-	-	0.251	-	0.01	H10
	Full SAR	-	0.215	-	-	0.258	-		

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WCDMA850 (Band 5) Head SAR results – Antenna 2/ RM-1065

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.2	23.0	23.0	0.7	0.9	0.9	dB	
Time-averaged Power		23.2	23.0	23.0	1.17	1.23	1.23	Lin	
Left Cheek	Estimated SAR	0.165	0.185	0.210	0.194	0.228	0.258	0.00	-
	Full SAR	-	-	0.212	-	-	0.261		
Left Tilt	Estimated SAR	-	0.102	-	-	0.125	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.178	-	-	0.219	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.095	-	-	0.117	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA850 (Band 5) Head SAR results – Antenna 2/ RM-1064

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		22.9	22.9	22.9	1.0	1.0	1.0	dB	
Time-averaged Power		22.9	22.9	22.9	1.26	1.26	1.26	Lin	
Left Cheek	Estimated SAR	-	-	0.188	-	-	0.237	0.01	-
	Full SAR	-	-	0.193	-	-	0.243		

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LTE850 (Band 5) Head SAR results – Antenna 1/ RM-1065

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.8	23.7	23.8	0.1	0.2	0.1	dB	
Time-averaged Power		23.8	23.7	23.8	1.02	1.05	1.02	Lin	
Left Cheek	Estimated SAR	0.175	-	-	0.179	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.082	-	-	0.084	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.193	-	-	0.197	-	-	0.00	-
	Full SAR	0.197	-	-	0.202	-	-		
Right Tilt	Estimated SAR	0.110	-	-	0.113	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 25 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.7	22.7	22.7	0.2	0.2	0.2	dB	
Time-averaged Power		22.7	22.7	22.7	1.05	1.05	1.05	Lin	
Left Cheek	Estimated SAR	0.148	-	-	0.155	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.067	-	-	0.070	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.153	-	-	0.160	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.090	-	-	0.094	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.8	22.8	22.7	0.1	0.1	0.2	dB	
Time-averaged Power		22.8	22.8	22.7	1.02	1.02	1.05	Lin	
Right Cheek	Estimated SAR	0.153	-	-	0.157	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE850 (Band 5) Head SAR results – Antenna 1/ RM-1064

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.5	23.5	23.5	0.4	0.4	0.4	dB	
Time-averaged Power		23.5	23.5	23.5	1.10	1.10	1.10	Lin	
Right Cheek	Estimated SAR	0.167	-	-	0.183	-	-	0.01	-
	Full SAR	0.173	-	-	0.190	-	-		

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LTE850 (Band 5) Head SAR results – Antenna 2/ RM-1065

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.6	23.5	23.6	0.3	0.4	0.3	dB	
Time-averaged Power		23.6	23.5	23.6	1.07	1.10	1.07	Lin	
Left Cheek	Estimated SAR	0.249	-	-	0.267	-	-	0.01	H11
	Full SAR	0.254	-	-	**0.272**	-	-		
Left Tilt	Estimated SAR	0.188	-	-	0.201	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.235	-	-	0.252	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.136	-	-	0.146	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 25 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.5	22.5	22.5	0.4	0.4	0.4	dB	
Time-averaged Power		22.5	22.5	22.5	1.10	1.10	1.10	Lin	
Left Cheek	Estimated SAR	0.192	-	-	0.211	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.146	-	-	0.160	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.183	-	-	0.201	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.105	-	-	0.115	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.6	22.6	22.5	0.3	0.3	0.4	dB	
Time-averaged Power		22.6	22.6	22.5	1.07	1.07	1.10	Lin	
Left Cheek	Estimated SAR	0.202	-	-	0.216	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE850 (Band 5) Head SAR results – Antenna 2/ RM-1064

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.3	23.3	23.3	0.6	0.6	0.6	dB	
Time-averaged Power		23.3	23.3	23.3	1.15	1.15	1.15	Lin	
Left Cheek	Estimated SAR	0.205	-	-	0.235	-	-	0.01	H12
	Full SAR	0.214	-	-	0.246	-	-		

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WCDMA1700/2100 (Band 4) Head SAR results – Antenna 1/ RM-1065

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.1	23.1	23.1	0.5	0.5	0.5	dB	
Time-averaged Power		23.1	23.1	23.1	1.12	1.12	1.12	Lin	
Left Cheek	Estimated SAR	0.168	0.150	0.162	0.188	0.168	0.182	0.01	-
	Full SAR	0.175	-	-	0.196	-	-		
Left Tilt	Estimated SAR	-	0.088	-	-	0.098	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.124	-	-	0.139	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.087	-	-	0.098	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA1700/2100 (Band 4) Head SAR results – Antenna 1/ RM-1064

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.1	23.1	23.0	0.5	0.5	0.6	dB	
Time-averaged Power		23.1	23.1	23.0	1.12	1.12	1.15	Lin	
Left Cheek	Estimated SAR	0.156	-	-	0.175	-	-	0.00	-
	Full SAR	0.159	-	-	0.178	-	-		

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WCDMA1700/2100 (Band 4) Head SAR results – Antenna 2/ RM-1065

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		22.7	22.7	22.7	0.9	0.9	0.9	dB	
Time-averaged Power		22.7	22.7	22.7	1.23	1.23	1.23	Lin	
Left Cheek	Estimated SAR	0.283	0.302	0.357	0.348	0.372	0.439	0.01	H13
	Full SAR	-	-	0.344	-	-	**0.423**		
Left Tilt	Estimated SAR	-	0.180	-	-	0.221	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.129	-	-	0.159	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.164	-	-	0.202	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA1700/2100 (Band 4) Head SAR results – Antenna 2/ RM-1064

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		22.7	22.7	22.6	0.9	0.9	1.0	dB	
Time-averaged Power		22.7	22.7	22.6	1.23	1.23	1.26	Lin	
Left Cheek	Estimated SAR	-	-	0.285	-	-	0.359	0.00	H14
	Full SAR	-	-	0.289	-	-	0.364		

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LTE1700/2100 (Band 4) Head SAR results – Antenna 1/ RM-1065

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.4	23.3	23.2	0.2	0.3	0.4	dB	
Time-averaged Power		23.4	23.3	23.2	1.05	1.07	1.10	Lin	
Left Cheek	Estimated SAR	0.199	-	-	0.208	-	-	0.01	-
	Full SAR	0.205	-	-	0.215	-	-		
Left Tilt	Estimated SAR	0.082	-	-	0.086	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.158	-	-	0.165	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.094	-	-	0.098	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.3	22.3	0.2	0.3	0.3	dB	
Time-averaged Power		22.4	22.3	22.3	1.05	1.07	1.07	Lin	
Left Cheek	Estimated SAR	0.147	-	-	0.154	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.070	-	-	0.073	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.119	-	-	0.125	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.083	-	-	0.087	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.2	22.3	0.2	0.4	0.3	dB	
Time-averaged Power		22.4	22.2	22.3	1.05	1.10	1.07	Lin	
Left Cheek	Estimated SAR	0.150	-	-	0.157	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE1700/2100 (Band 4) Head SAR results – Antenna 1/ RM-1064

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.3	23.3	23.3	0.3	0.3	0.3	dB	
Time-averaged Power		23.3	23.3	23.3	1.07	1.07	1.07	Lin	
Left Cheek	Estimated SAR	0.200	-	-	0.214	-	-	0.00	-
	Full SAR	0.205	-	-	0.220	-	-		

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LTE1700/2100 (Band 4) Head SAR results – Antenna 2/ RM-1065

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.0	22.9	22.8	0.6	0.7	0.8	dB	
Time-averaged Power		23.0	22.9	22.8	1.15	1.17	1.20	Lin	
Left Cheek	Estimated SAR	0.263	-	-	0.302	-	-	0.01	H15
	Full SAR	0.274	-	-	**0.315**	-	-		
Left Tilt	Estimated SAR	0.176	-	-	0.202	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.164	-	-	0.188	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.147	-	-	0.169	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.0	21.9	21.9	0.6	0.7	0.7	dB	
Time-averaged Power		22.0	21.9	21.9	1.15	1.17	1.17	Lin	
Left Cheek	Estimated SAR	0.238	-	-	0.273	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.144	-	-	0.165	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.132	-	-	0.152	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.124	-	-	0.142	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.0	21.8	21.9	0.6	0.8	0.7	dB	
Time-averaged Power		22.0	21.8	21.9	1.15	1.20	1.17	Lin	
Left Cheek	Estimated SAR	0.231	-	-	0.265	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE1700/2100 (Band 4) Head SAR results – Antenna 2/ RM-1064

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		22.9	22.9	22.9	0.7	0.7	0.7	dB	
Time-averaged Power		22.9	22.9	22.9	1.17	1.17	1.17	Lin	
Left Cheek	Estimated SAR	0.211	-	-	0.248	-	-	0.00	H16
	Full SAR	0.213	-	-	0.250	-	-		

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GSM/GPRS/EGPRS 1900 Head SAR results – Antenna 1/ RM-1065

3-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		27.4			Scaling factor*				
Conducted Power		26.9	26.9	26.7	0.5	0.5	0.7	dB	
Time-averaged Power		22.6	22.6	22.4	1.12	1.12	1.17	Lin	
Left Cheek	Estimated SAR	0.138	0.110	0.081	0.155	0.123	0.095	0.01	-
	Full SAR	0.146	-	-	0.164	-	-		
Left Tilt	Estimated SAR	-	0.108	-	-	0.121	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.101	-	-	0.113	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.058	-	-	0.065	-	-	-
	Full SAR	-	-	-	-	-	-		

4-slot 8PSK EGPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		25.4			Scaling factor*				
Conducted Power		25.2	25.0	24.9	0.2	0.4	0.5	dB	
Time-averaged Power		22.2	22.0	21.9	1.05	1.10	1.12	Lin	
Left Cheek	Estimated SAR	0.096	-	-	0.101	-	-	0.00	-
	Full SAR	0.101	-	-	0.106	-	-		

4-slot GPRS1900 Head SAR results – Antenna 1/ RM-1064

4-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		25.9			Scaling factor*				
Conducted Power		25.7	25.5	25.6	0.2	0.4	0.3	dB	
Time-averaged Power		22.7	22.5	22.6	1.05	1.10	1.07	Lin	
Left Cheek	Estimated SAR	0.142	-	-	0.149	-	-	0.00	-
	Full SAR	0.146	-	-	0.153	-	-		

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GSM/GPRS/EGPRS 1900 Head SAR results – Antenna 2/ RM-1065

3-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		27.4			Scaling factor*				
Conducted Power		26.5	26.5	26.3	0.9	0.9	1.1	dB	
Time-averaged Power		22.2	22.2	22.0	1.23	1.23	1.29	Lin	
Left Cheek	Estimated SAR	0.318	0.279	0.230	0.391	0.343	0.296	0.00	H17
	Full SAR	0.320	-	-	0.394	-	-		
Left Tilt	Estimated SAR	-	0.172	-	-	0.212	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.164	-	-	0.202	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.108	-	-	0.133	-	-	-
	Full SAR	-	-	-	-	-	-		

4-slot 8PSK EGPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		25.4			Scaling factor*				
Conducted Power		24.8	24.6	24.5	0.6	0.8	0.9	dB	
Time-averaged Power		21.8	21.6	21.5	1.15	1.20	1.23	Lin	
Left Cheek	Estimated SAR	0.286	-	-	0.328	-	-	0.00	-
	Full SAR	0.288	-	-	0.331	-	-		

4-slot GPRS1900 Head SAR results – Antenna 2/ RM-1064

4-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		25.9			Scaling factor*				
Conducted Power		25.3	25.1	25.2	0.6	0.8	0.7	dB	
Time-averaged Power		22.3	22.1	22.2	1.15	1.20	1.17	Lin	
Left Cheek	Estimated SAR	0.343	-	-	0.394	-	-	0.01	H18
	Full SAR	0.350	-	-	**0.402**	-	-		

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WCDMA1900 (Band 2) Head SAR results – Antenna 1/ RM-1065

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.0	23.2	23.0	0.9	0.7	0.9	dB	
Time-averaged Power		23.0	23.2	23.0	1.23	1.17	1.23	Lin	
Left Cheek	Estimated SAR	0.119	0.110	0.089	0.146	0.129	0.109	0.01	-
	Full SAR	0.125	-	-	0.154	-	-		
Left Tilt	Estimated SAR	-	0.100	-	-	0.117	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.089	-	-	0.105	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.055	-	-	0.064	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA1900 (Band 2) Head SAR results – Antenna 1/ RM-1064

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.1	23.4	23.1	0.8	0.5	0.8	dB	
Time-averaged Power		23.1	23.4	23.1	1.20	1.12	1.20	Lin	
Left Cheek	Estimated SAR	0.099	-	-	0.119	-	-	0.01	-
	Full SAR	0.105	-	-	0.126	-	-		

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WCDMA1900 (Band 2) Head SAR results – Antenna 2/ RM-1065

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		22.6	22.8	22.6	1.3	1.1	1.3	dB	
Time-averaged Power		22.6	22.8	22.6	1.35	1.29	1.35	Lin	
Left Cheek	Estimated SAR	0.455	0.484	0.504	0.614	0.624	0.680	0.00	H19
	Full SAR	-	-	0.507	-	-	**0.684**		
Left Tilt	Estimated SAR	-	0.289	-	-	0.372	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.304	-	-	0.392	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.212	-	-	0.273	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA1900 (Band 2) Head SAR results – Antenna 2/ RM-1064

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		22.7	23.0	22.7	1.2	0.9	1.2	dB	
Time-averaged Power		22.7	23.0	22.7	1.32	1.23	1.32	Lin	
Left Cheek	Estimated SAR	-	-	0.475	-	-	0.626	0.00	H20
	Full SAR	-	-	0.472	-	-	0.622		

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LTE1900 (Band 2) Head SAR results – Antenna 1/ RM-1065

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	22.9	23.1	0.4	0.5	0.3	dB	
Time-averaged Power		23.0	22.9	23.1	1.10	1.12	1.07	Lin	
Left Cheek	Estimated SAR	-	-	0.105	-	-	0.113	0.01	-
	Full SAR	-	-	0.110	-	-	0.118		
Left Tilt	Estimated SAR	-	-	0.074	-	-	0.079	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	-	0.066	-	-	0.070	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	-	0.038	-	-	0.041	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	22.0	0.2	0.4	0.4	dB	
Time-averaged Power		22.2	22.0	22.0	1.05	1.10	1.10	Lin	
Left Cheek	Estimated SAR	0.057	-	-	0.059	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.047	-	-	0.049	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.052	-	-	0.054	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.038	-	-	0.039	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.1	22.0	0.2	0.3	0.4	dB	
Time-averaged Power		22.2	22.1	22.0	1.05	1.07	1.10	Lin	
Left Cheek	Estimated SAR	0.058	-	-	0.061	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE1900 (Band 2) Head SAR results – Antenna 1/ RM-1064

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	23.1	23.1	0.6	0.3	0.3	dB	
Time-averaged Power		22.8	23.1	23.1	1.15	1.07	1.07	Lin	
Left Cheek	Estimated SAR	-	-	0.089	-	-	0.096	0.00	-
	Full SAR	-	-	0.094	-	-	0.100		

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LTE1900 (Band 2) Head SAR results – Antenna 2/ RM-1065

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.6	22.5	22.7	0.8	0.9	0.7	dB	
Time-averaged Power		22.6	22.5	22.7	1.20	1.23	1.17	Lin	
Left Cheek	Estimated SAR	-	-	0.382	-	-	0.449	0.02	H21
	Full SAR	-	-	0.400	-	-	**0.470**		
Left Tilt	Estimated SAR	-	-	0.236	-	-	0.277	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	-	0.271	-	-	0.318	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	-	0.167	-	-	0.196	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		21.8	21.6	21.6	0.6	0.8	0.8	dB	
Time-averaged Power		21.8	21.6	21.6	1.15	1.20	1.20	Lin	
Left Cheek	Estimated SAR	0.333	-	-	0.382	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	0.231	-	-	0.265	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	0.220	-	-	0.253	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	0.158	-	-	0.181	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		21.8	21.7	21.6	0.6	0.7	0.8	dB	
Time-averaged Power		21.8	21.7	21.6	1.15	1.17	1.20	Lin	
Left Cheek	Estimated SAR	0.352	-	-	0.404	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE1900 (Band 2) Head SAR results – Antenna 2/ RM-1064

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.4	22.7	22.7	1.0	0.7	0.7	dB	
Time-averaged Power		22.4	22.7	22.7	1.26	1.17	1.17	Lin	
Left Cheek	Estimated SAR	-	-	0.383	-	-	0.450	0.00	H22
	Full SAR	-	-	0.386	-	-	0.454		

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LTE2500 (Band 7) Head SAR results – Antenna 2/ RM-1065

LTE2500 (Band 7) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.4	22.3	0.2	0.2	0.3	dB	
Time-averaged Power		22.4	22.4	22.3	1.05	1.05	1.07	Lin	
Left Cheek	Estimated SAR	-	0.247	-	-	0.259	-	0.02	H23
	Full SAR	-	0.270	-	-	0.283	-		
Left Tilt	Estimated SAR	-	0.151	-	-	0.158	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.193	-	-	0.202	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.247	-	-	0.259	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE2500 (Band 7) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		21.6			Scaling factor*				
Conducted Power		21.3	21.5	21.4	0.3	0.1	0.2	dB	
Time-averaged Power		21.3	21.5	21.4	1.07	1.02	1.05	Lin	
Left Cheek	Estimated SAR	-	0.194	-	-	0.199	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Tilt	Estimated SAR	-	0.121	-	-	0.124	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Cheek	Estimated SAR	-	0.145	-	-	0.148	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.181	-	-	0.185	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE2500 (Band 7) Head SAR results – Antenna 2/ RM-1064

LTE2500 (Band 7) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.4	22.4	0.2	0.2	0.2	dB	
Time-averaged Power		22.4	22.4	22.4	1.05	1.05	1.05	Lin	
Left Cheek	Estimated SAR	-	0.261	-	-	0.273	-	0.01	H24
	Full SAR	-	0.272	-	-	**0.285**	-		

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WLAN2450 Head SAR results / RM-1065

WLAN2450 b-mode BPSK 1 Mbps									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz	CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz		
Upper limit		16.5	16.5	16.5	Scaling factor*				
Conducted Power		16.0	16.0	16.1	0.5	0.5	0.4	dB	
Time-averaged Power		16.0	16.0	16.1	1.12	1.12	1.10	Lin	
Left Cheek	Estimated SAR	0.896	0.984	1.080	1.005	1.104	1.184	0.04	-
	Full SAR	-	-	1.040	-	-	1.140		
Left Tilt	Estimated SAR	0.648	0.715	0.732	0.727	0.802	0.803	0.00	-
	Full SAR	-	-	0.733	-	-	0.804		
Right Cheek	Estimated SAR	-	0.375	-	-	0.421	-	-	-
	Full SAR	-	-	-	-	-	-		
Right Tilt	Estimated SAR	-	0.330	-	-	0.370	-	-	-
	Full SAR	-	-	-	-	-	-		
Left Cheek Repeated	Estimated SAR	-	-	1.150	-	-	1.261	0.01	H25
	Full SAR	-	-	1.140	-	-	1.250		

WLAN2450 Head SAR results / RM-1064

WLAN2450 b-mode BPSK 1 Mbps									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz	CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz		
Upper limit		16.5	16.5	16.5	Scaling factor*				
Conducted Power		16.2	15.7	16.0	0.3	0.8	0.5	dB	
Time-averaged Power		16.2	15.7	16.0	1.07	1.20	1.12	Lin	
Left Cheek	Estimated SAR	-	-	1.150	-	-	1.290	0.02	H26
	Full SAR	-	-	1.130	-	-	**1.268**		

Individual Head SAR plots are given in Appendix B.

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Simultaneous transmissions: Combined Head 1g SAR results – WLAN and Individual band Max results - Antenna 1

Test configuration	WLAN 2450	LTE700 (Band 12)	LTE700 (Band 17)	LTE700 (Band 28a)	LTE700 (Band 28b)	GPRS 850	WCDMA 850 (Band 5)	LTE850 (Band 5)
Left Cheek	1.268	0.158	0.160	0.181	0.150	0.420	0.246	0.179
Left Tilt	0.804	0.084	0.081	0.107	0.091	0.221	0.127	0.084
Right Cheek	0.421	0.196	0.183	0.211	0.215	0.479	0.265	0.202
Right Tilt	0.370	0.098	0.097	0.116	0.126	0.249	0.142	0.113
Test configuration	**WCDMA 1700/2100 (Band 4)**	**LTE 1700/2100 (Band 4)**	**GPRS 1900**	**WCDMA 1900 (Band 2)**	**LTE 1900 (Band 2)**	**LTE 2500 (Band 7)**	**-**	**-**
Left Cheek	0.196	0.220	0.164	0.154	0.118	-	-	-
Left Tilt	0.098	0.086	0.121	0.117	0.079	-	-	-
Right Cheek	0.139	0.165	0.113	0.105	0.070	-	-	-
Right Tilt	0.098	0.098	0.065	0.064	0.041	-	-	-

Simultaneous transmissions: Combined Head 1g SAR results – WLAN Max + Max combined results - Antenna 1

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Left Cheek	**1.426**	**1.428**	**1.449**	**1.418**	**1.688**	**1.514**	**1.447**	**1.464**
Left Tilt	0.888	0.885	0.911	0.895	1.025	0.931	0.888	0.902
Right Cheek	0.617	0.604	0.632	0.636	0.900	0.686	0.623	0.560
Right Tilt	0.468	0.467	0.486	0.496	0.619	0.512	0.483	0.468
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Left Cheek	**1.488**	**1.432**	**1.422**	**1.386**	-	-	-	-
Left Tilt	0.890	0.925	0.921	0.883	-	-	-	-
Right Cheek	0.586	0.534	0.526	0.491	-	-	-	-
Right Tilt	0.468	0.435	0.434	0.411	-	-	-	-

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Simultaneous transmissions: Combined Head 1g SAR results – WLAN and Individual band Max results - Antenna 2

Test configuration	WLAN 2450	LTE700 (Band 12)	LTE700 (Band 17)	LTE700 (Band 28a)	LTE700 (Band 28b)	GPRS 850	WCDMA 850 (Band 5)	LTE850 (Band 5)
Left Cheek	1.268	0.168	0.163	0.168	0.177	0.344	0.261	0.272
Left Tilt	0.804	0.077	0.078	0.094	0.117	0.153	0.125	0.201
Right Cheek	0.421	0.118	0.126	0.117	0.134	0.251	0.219	0.252
Right Tilt	0.370	0.062	0.064	0.066	0.093	0.145	0.117	0.146
Test configuration	**WCDMA 1700/2100 (Band 4)**	**LTE 1700/2100 (Band 4)**	**GPRS 1900**	**WCDMA 1900 (Band 2)**	**LTE 1900 (Band 2)**	**LTE 2500 (Band 7)**	**-**	**-**
Left Cheek	0.423	0.315	0.402	0.684	0.470	0.285	-	-
Left Tilt	0.221	0.202	0.212	0.372	0.277	0.158	-	-
Right Cheek	0.159	0.188	0.202	0.392	0.318	0.202	-	-
Right Tilt	0.202	0.169	0.133	0.273	0.196	0.259	-	-

Simultaneous transmissions: Combined Head 1g SAR results – WLAN Max + Max combined results - Antenna 2

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Left Cheek	**1.436**	**1.431**	**1.436**	**1.445**	**1.612**	**1.529**	**1.540**	**1.691**
Left Tilt	0.881	0.882	0.898	0.921	0.957	0.929	1.005	1.025
Right Cheek	0.539	0.547	0.538	0.555	0.672	0.640	0.673	0.580
Right Tilt	0.432	0.434	0.436	0.463	0.515	0.487	0.516	0.572
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Left Cheek	**1.583**	**1.670**	**1.952**	**1.738**	**1.553**	-	-	-
Left Tilt	1.006	1.016	1.176	1.081	0.962	-	-	-
Right Cheek	0.609	0.623	0.813	0.739	0.623	-	-	-
Right Tilt	0.539	0.503	0.643	0.566	0.629	-	-	-

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7.1.1 Simultaneous Transmission SAR Test Exclusion Considerations for Head Measurements

Simultaneous transmission SAR tests exclusion procedures as described in KDB 447498 D01 v05 is needed for some Head measurements. Following table gives antenna pair SAR to peak location separation ratios for the transmitter combinations for which the sum of simultaneously transmitting 1g SAR was above limit (See "Max+Max Combined results" table in previous section).

Antenna Pair SAR to Peak Location Separation Ratio - Antenna 1

Antenna 1	**2-slot GPRS 850**	**WLAN 2450**
	Left Cheek	
X [mm]	66.6	28.9
Y [mm]	270.4	330.9
Z [mm]	174.3	173.4
DISTANCE [mm]	71.30	
MAX + MAX (Reported SAR)	1.69	
SAR to peak location separation ratio	0.03	

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Antenna Pair SAR to Peak Location Separation Ratio - Antenna 2

Antenna 2	2-slot GPRS 850	WLAN 2450	WCDMA 1700/2100 (Band 4)	WLAN 2450	4-slot GPRS1900	WLAN 2450	WCDMA 1900 (Band 2)	WLAN 2450
	Left Cheek		Left Cheek		Left Cheek		Left Cheek	
X [mm]	66.1	28.9	65.7	28.9	58.9	28.9	65.8	28.9
Y [mm]	251.7	330.9	248.6	330.9	254.2	330.9	248.4	330.9
Z [mm]	173.1	173.4	171.4	173.4	173.3	173.4	172.1	173.4
DISTANCE [mm]	87.51		90.18		82.38		90.41	
MAX + MAX (Reported SAR)	1.61		1.69		1.67		1.95	
SAR to peak location separation ratio	0.02		0.02		0.03		0.03	
Antenna 2	**LTE 1900 (Band 2)**	**WLAN 2450**	**-**	**-**	**-**	**-**	**-**	**-**
	Left Cheek		**-**		**-**		**-**	
X [mm]	65.9	28.9	-	-	-	-	-	-
Y [mm]	248.4	330.9	-	-	-	-	-	-
Z [mm]	172.3	173.4	-	-	-	-	-	-
DISTANCE [mm]	90.42		-		-		-	
MAX + MAX (Reported SAR)	1.74		-		-		-	
SAR to peak location separation ratio	0.03		-		-		-	

All simultaneous transmitter configurations where the Antenna Pair SPLSR ≤ 0.04, are excluded from expanded zoom scan testing. For this product no expanded zoom scan testing is required.

7.1.2 Combined 1g 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.

The combinations are done for the maximum Head configuration of the each band or band group. Maximum configurations are given in the Max+Max tables in the Section 7.1 of the report. The same scaling factors are used in plotting as for the individual reported SAR value calculations.

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Simultaneous transmissions: Reported* Combined 1g SAR Head results – SPEAG Combined Multiband algorithm results – Antenna 1

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Left Cheek	-	-	1.330	-	1.350	-	-	-
Plot no	-	-	-	-	H27	-	-	-
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Left Cheek	-	-	-	-	-	-	-	-
Plot no	-	-	-	-	-	-	-	-

Simultaneous transmissions: Reported* Combined 1g SAR Head results – SPEAG Combined Multiband algorithm results – Antenna 2

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Left Cheek	1.330	1.330	-	-	-	-	-	1.380
Plot no	-	-	-	-	-	-	-	H28
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Left Cheek	-	-	**1.430**	-	1.340	-	-	-
Plot no	-	-	H29	-	-	-	-	-

LTE700 (Band 28a) Antenna 1 + WLAN2450 (Antenna 1) has the highest Max+Max result of LTE700 (Band 28) Antenna 1 and Antenna 2 bands: LTE700 (Band 28a) and LTE700 (Band 28b).

2-slot GPRS850 (Band 5) Antenna 1 + WLAN2450 has the highest Max+Max result of the 850MHz Antenna 1 and Antenna 2 grouped bands: GSM/GPRS/EGPRS850, WCDMA850 (Band 5) and LTE850 (Band 5).

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WCDMA1700/2100 (Band 4) Antenna 2 + WLAN2450 has the highest Max+Max result of the 1700/2100 MHz Antenna 1 and Antenna 2 grouped bands: WCDMA1700/2100 (Band 4) and LTE1700/2100 (Band 4).

WCDMA1900 (Band 2) Antenna 2 + WLAN2450 has the highest Max+Max result of the 1900MHz Antenna 1 and Antenna 2 grouped bands: GSM/GPRS/EGPRS1900, WCDMA1900 (Band 2) and LTE1900 (Band 2).

Note:
* Reported SAR values are scaled to, or measured at, upper limit of power tuning tolerance.
The highest result within individual zoom scan or individual expanded zoom scan results is given in Section 1.2 for each transmitter. The highest result within contributing individual zoom scan, individual expanded zoom scan, Speag combined algorithm or combined expanded zoom scan results is given in the Section for the simultaneous transmitter combination giving the highest combinated value.

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7.2 The measured Body 15 mm SAR values for the test device

LTE700 (Band 12) Body SAR results – Antenna 1/ RM-1065

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.1	23.0	0.3	0.3	0.4	dB	
Time-averaged Power		23.1	23.1	23.0	1.07	1.07	1.10	Lin	
Back	Estimated SAR	-	0.255	-	-	0.273	-	0.01	B1
	Full SAR	-	0.262	-	-	0.281	-		
Display	Estimated SAR	-	0.237	-	-	0.254	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	22.0	0.2	0.4	0.4	dB	
Time-averaged Power		22.2	22.0	22.0	1.05	1.10	1.10	Lin	
Back	Estimated SAR	0.211	-	-	0.221	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.195	-	-	0.204	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.3	22.1	22.1	0.1	0.3	0.3	dB	
Time-averaged Power		22.3	22.1	22.1	1.02	1.07	1.07	Lin	
Back	Estimated SAR	0.218	-	-	0.223	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) Body SAR results – Antenna 1/ RM-1064

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	22.9	23.1	0.4	0.5	0.3	dB	
Time-averaged Power		23.0	22.9	23.1	1.10	1.12	1.07	Lin	
Back	Estimated SAR	-	0.289	-	-	0.324	-	0.01	B2
	Full SAR	-	0.295	-	-	**0.331**	-		

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LTE700 (Band 12) Body SAR results – Antenna 2/ RM-1065

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.9	22.8	0.5	0.5	0.6	dB	
Time-averaged Power		22.9	22.9	22.8	1.12	1.12	1.15	Lin	
Back	Estimated SAR	-	0.229	-	-	0.257	-	0.01	-
	Full SAR	-	0.223	-	-	0.250	-		
Display	Estimated SAR	-	0.209	-	-	0.235	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.8	21.8	0.4	0.6	0.6	dB	
Time-averaged Power		22.0	21.8	21.8	1.10	1.15	1.15	Lin	
Back	Estimated SAR	0.180	-	-	0.197	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.166	-	-	0.182	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.1	21.9	21.9	0.3	0.5	0.5	dB	
Time-averaged Power		22.1	21.9	21.9	1.07	1.12	1.12	Lin	
Back	Estimated SAR	0.184	-	-	0.197	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) Body SAR results – Antenna 2/ RM-1064

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.7	22.9	0.6	0.7	0.5	dB	
Time-averaged Power		22.8	22.7	22.9	1.15	1.17	1.12	Lin	
Back	Estimated SAR	-	0.254	-	-	0.298	-	0.01	-
	Full SAR	-	0.247	-	-	0.290	-		

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LTE700 (Band 17) Body SAR results – Antenna 1/ RM-1065

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.0	23.0	0.3	0.4	0.4	dB	
Time-averaged Power		23.1	23.0	23.0	1.07	1.10	1.10	Lin	
Back	Estimated SAR	0.264	-	-	0.283	-	-	0.00	B3
	Full SAR	0.267	-	-	0.286	-	-		
Display	Estimated SAR	0.232	-	-	0.249	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.1	22.1	0.2	0.3	0.3	dB	
Time-averaged Power		22.2	22.1	22.1	1.05	1.07	1.07	Lin	
Back	Estimated SAR	0.217	-	-	0.227	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.189	-	-	0.198	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.3	22.1	22.1	0.1	0.3	0.3	dB	
Time-averaged Power		22.3	22.1	22.1	1.02	1.07	1.07	Lin	
Back	Estimated SAR	0.218	-	-	0.223	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) Body SAR results – Antenna 1/ RM-1064

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.0	23.0	0.3	0.4	0.4	dB	
Time-averaged Power		23.1	23.0	23.0	1.07	1.10	1.10	Lin	
Back	Estimated SAR	0.283	-	-	0.303	-	-	0.01	B4
	Full SAR	0.288	-	-	**0.309**	-	-		

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LTE700 (Band 17) Body SAR results – Antenna 2/ RM-1065

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.8	22.8	0.5	0.6	0.6	dB	
Time-averaged Power		22.9	22.8	22.8	1.12	1.15	1.15	Lin	
Back	Estimated SAR	0.228	-	-	0.256	-	-	-	-
	Full SAR	0.228	-	-	0.256	-	-		
Display	Estimated SAR	0.193	-	-	0.217	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.9	21.9	0.4	0.5	0.5	dB	
Time-averaged Power		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
Back	Estimated SAR	0.188	-	-	0.206	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.161	-	-	0.177	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.1	21.9	21.9	0.3	0.5	0.5	dB	
Time-averaged Power		22.1	21.9	21.9	1.07	1.12	1.12	Lin	
Back	Estimated SAR	0.191	-	-	0.205	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) Body SAR results – Antenna 2/ RM-1064

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.8	22.8	0.5	0.6	0.6	dB	
Time-averaged Power		22.9	22.8	22.8	1.12	1.15	1.15	Lin	
Back	Estimated SAR	0.257	-	-	0.288	-	-	0.01	-
	Full SAR	0.252	-	-	0.283	-	-		

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LTE700 (Band 28a) Body SAR results – Antenna 1/ RM-1065

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	23.0	22.9	0.4	0.4	0.5	dB	
Time-averaged Power		23.0	23.0	22.9	1.10	1.10	1.12	Lin	
Back	Estimated SAR	-	0.286	-	-	0.314	-	0.01	-
	Full SAR	-	0.293	-	-	0.321	-		
Display	Estimated SAR	-	0.252	-	-	0.276	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 50 RB - Offset 50									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	21.9	0.2	0.4	0.5	dB	
Time-averaged Power		22.2	22.0	21.9	1.05	1.10	1.12	Lin	
Back	Estimated SAR	0.220	-	-	0.230	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.201	-	-	0.210	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	21.9	0.2	0.4	0.5	dB	
Time-averaged Power		22.2	22.0	21.9	1.05	1.10	1.12	Lin	
Back	Estimated SAR	0.218	-	-	0.228	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) Body SAR results – Antenna 1/ RM-1064

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	23.0	22.8	0.4	0.4	0.6	dB	
Time-averaged Power		23.0	23.0	22.8	1.10	1.10	1.15	Lin	
Back	Estimated SAR	-	0.281	-	-	0.308	-	0.01	-
	Full SAR	-	0.287	-	-	0.315	-		

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LTE700 (Band 28a) Body SAR results – Antenna 2/ RM-1065

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.8	22.7	0.6	0.6	0.7	dB	
Time-averaged Power		22.8	22.8	22.7	1.15	1.15	1.17	Lin	
Back	Estimated SAR	-	0.222	-	-	0.255	-	0.00	-
	Full SAR	-	0.221	-	-	0.254	-		
Display	Estimated SAR	-	0.195	-	-	0.224	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 50 RB - Offset 50									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.8	21.7	0.4	0.6	0.7	dB	
Time-averaged Power		22.0	21.8	21.7	1.10	1.15	1.17	Lin	
Back	Estimated SAR	0.180	-	-	0.197	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.157	-	-	0.172	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.8	21.7	0.4	0.6	0.7	dB	
Time-averaged Power		22.0	21.8	21.7	1.10	1.15	1.17	Lin	
Back	Estimated SAR	0.188	-	-	0.206	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) Body SAR results – Antenna 2/ RM-1064

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.8	22.6	0.6	0.6	0.8	dB	
Time-averaged Power		22.8	22.8	22.6	1.15	1.15	1.20	Lin	
Back	Estimated SAR	-	0.231	-	-	0.265	-	0.00	-
	Full SAR	-	0.229	-	-	0.263	-		

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LTE700 (Band 28b) Body SAR results – Antenna 1/ RM-1065

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	22.9	23.0	0.4	0.5	0.4	dB	
Time-averaged Power		23.0	22.9	23.0	1.10	1.12	1.10	Lin	
Back	Estimated SAR	0.269	-	-	0.295	-	-	0.01	B5
	Full SAR	0.275	-	-	0.302	-	-		
Display	Estimated SAR	0.230	-	-	0.252	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 50 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	21.9	22.0	0.2	0.5	0.4	dB	
Time-averaged Power		22.2	21.9	22.0	1.05	1.12	1.10	Lin	
Back	Estimated SAR	0.223	-	-	0.234	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.183	-	-	0.192	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.3	22.0	22.0	0.1	0.4	0.4	dB	
Time-averaged Power		22.3	22.0	22.0	1.02	1.10	1.10	Lin	
Back	Estimated SAR	0.222	-	-	0.227	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) Body SAR results – Antenna 1/ RM-1064

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.0	23.0	0.3	0.4	0.4	dB	
Time-averaged Power		23.1	23.0	23.0	1.07	1.10	1.10	Lin	
Back	Estimated SAR	0.300	-	-	0.321	-	-	0.01	B6
	Full SAR	0.305	-	-	**0.327**	-	-		

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LTE700 (Band 28b) Body SAR results – Antenna 2/ RM-1065

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.7	22.8	0.6	0.7	0.6	dB	
Time-averaged Power		22.8	22.7	22.8	1.15	1.17	1.15	Lin	
Back	Estimated SAR	0.206	-	-	0.237	-	-	0.00	-
	Full SAR	0.209	-	-	0.240	-	-		
Display	Estimated SAR	0.177	-	-	0.203	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 50 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.7	21.8	0.4	0.7	0.6	dB	
Time-averaged Power		22.0	21.7	21.8	1.10	1.17	1.15	Lin	
Back	Estimated SAR	0.178	-	-	0.195	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.150	-	-	0.164	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.1	21.8	21.8	0.3	0.6	0.6	dB	
Time-averaged Power		22.1	21.8	21.8	1.07	1.15	1.15	Lin	
Back	Estimated SAR	0.180	-	-	0.193	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) Body SAR results – Antenna 2/ RM-1064

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.8	22.8	0.5	0.6	0.6	dB	
Time-averaged Power		22.9	22.8	22.8	1.12	1.15	1.15	Lin	
Back	Estimated SAR	0.214	-	-	0.240	-	-	0.00	-
	Full SAR	0.218	-	-	0.245	-	-		

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2-slot GPRS850 Body SAR results – Antenna 1/ RM-1065

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		32.2			Scaling factor*				
Conducted Power		31.9	31.7	31.7	0.3	0.5	0.5	dB	
Time-averaged Power		25.9	25.7	25.7	1.07	1.12	1.12	Lin	
Back	Estimated SAR	0.354	0.373	0.391	0.379	0.419	0.439	0.01	B7
	Full SAR	-	-	0.401	-	-	0.450		
Display	Estimated SAR	-	0.350	-	-	0.393	-	-	-
	Full SAR	-	-	-	-	-	-		

2-slot GPRS850 Body SAR results – Antenna 1/ RM-1064

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		32.2			Scaling factor*				
Conducted Power		31.8	31.8	31.7	0.4	0.4	0.5	dB	
Time-averaged Power		25.8	25.8	25.7	1.10	1.10	1.12	Lin	
Back	Estimated SAR	-	-	0.397	-	-	0.445	0.01	B8
	Full SAR	-	-	0.403	-	-	**0.452**		

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2-slot GPRS850 Body SAR results – Antenna 2/ RM-1065

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		32.2			Scaling factor*				
Conducted Power		31.7	31.5	31.5	0.5	0.7	0.7	dB	
Time-averaged Power		25.7	25.5	25.5	1.12	1.17	1.17	Lin	
Back	Estimated SAR	0.316	0.312	0.347	0.355	0.367	0.408	-	-
	Full SAR	-	-	0.347	-	-	0.408		
Display	Estimated SAR	-	0.299	-	-	0.351	-	-	-
	Full SAR	-	-	-	-	-	-		

2-slot GPRS850 Body SAR results – Antenna 2/ RM-1064

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		32.2			Scaling factor*				
Conducted Power		31.6	31.6	31.5	0.6	0.6	0.7	dB	
Time-averaged Power		25.6	25.6	25.5	1.15	1.15	1.17	Lin	
Back	Estimated SAR	-	-	0.331	-	-	0.389	0.01	-
	Full SAR	-	-	0.325	-	-	0.382		

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WCDMA850 (Band 5) Body SAR results – Antenna 1/ RM-1065

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.6	23.4	23.4	0.3	0.5	0.5	dB	
Time-averaged Power		23.6	23.4	23.4	1.07	1.12	1.12	Lin	
Back	Estimated SAR	0.239	0.238	0.242	0.256	0.267	0.272	0.01	-
	Full SAR	-	-	0.250	-	-	0.281		
Display	Estimated SAR	-	0.218	-	-	0.245	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA850 (Band 5) Body SAR results – Antenna 1/ RM-1064

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.1	23.1	23.1	0.8	0.8	0.8	dB	
Time-averaged Power		23.1	23.1	23.1	1.20	1.20	1.20	Lin	
Back	Estimated SAR	-	-	0.219	-	-	0.263	0.01	-
	Full SAR	-	-	0.226	-	-	0.272		

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WCDMA850 (Band 5) Body SAR results – Antenna 2/ RM-1065

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.2	23.0	23.0	0.7	0.9	0.9	dB	
Time-averaged Power		23.2	23.0	23.0	1.17	1.23	1.23	Lin	
Back	Estimated SAR	0.262	0.261	0.263	0.308	0.321	0.324	0.00	B9
	Full SAR	-	-	0.261	-	-	**0.321**		
Display	Estimated SAR	-	0.231	-	-	0.284	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA850 (Band 5) Body SAR results – Antenna 2/ RM-1064

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		22.9	22.9	22.9	1.0	1.0	1.0	dB	
Time-averaged Power		22.9	22.9	22.9	1.26	1.26	1.26	Lin	
Back	Estimated SAR	-	-	0.240	-	-	0.302	0.01	B10
	Full SAR	-	-	0.235	-	-	0.296		

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LTE850 (Band 5) Body SAR results – Antenna 1/ RM-1065

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.8	23.7	23.8	0.1	0.2	0.1	dB	
Time-averaged Power		23.8	23.7	23.8	1.02	1.05	1.02	Lin	
Back	Estimated SAR	0.282	-	-	0.289	-	-	0.00	-
	Full SAR	0.283	-	-	0.290	-	-		
Display	Estimated SAR	0.267	-	-	0.273	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 25 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.7	22.7	22.7	0.2	0.2	0.2	dB	
Time-averaged Power		22.7	22.7	22.7	1.05	1.05	1.05	Lin	
Back	Estimated SAR	0.223	-	-	0.234	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.209	-	-	0.219	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.8	22.8	22.7	0.1	0.1	0.2	dB	
Time-averaged Power		22.8	22.8	22.7	1.02	1.02	1.05	Lin	
Back	Estimated SAR	0.228	-	-	0.233	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) Body SAR results – Antenna 1/ RM-1064

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.5	23.5	23.5	0.4	0.4	0.4	dB	
Time-averaged Power		23.5	23.5	23.5	1.10	1.10	1.10	Lin	
Back	Estimated SAR	0.219	-	-	0.240	-	-	0.01	-
	Full SAR	0.213	-	-	0.234	-	-		

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LTE850 (Band 5) Body SAR results – Antenna 2/ RM-1065

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.6	23.5	23.6	0.3	0.4	0.3	dB	
Time-averaged Power		23.6	23.5	23.6	1.07	1.10	1.07	Lin	
Back	Estimated SAR	0.282	-	-	0.302	-	-	0.01	B11
	Full SAR	0.294	-	-	**0.315**	-	-		
Display	Estimated SAR	0.238	-	-	0.255	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 25 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.5	22.5	22.5	0.4	0.4	0.4	dB	
Time-averaged Power		22.5	22.5	22.5	1.10	1.10	1.10	Lin	
Back	Estimated SAR	0.221	-	-	0.242	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.180	-	-	0.197	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.6	22.6	22.5	0.3	0.3	0.4	dB	
Time-averaged Power		22.6	22.6	22.5	1.07	1.07	1.10	Lin	
Back	Estimated SAR	0.230	-	-	0.246	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) Body SAR results – Antenna 2/ RM-1064

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.3	23.3	23.3	0.6	0.6	0.6	dB	
Time-averaged Power		23.3	23.3	23.3	1.15	1.15	1.15	Lin	
Back	Estimated SAR	0.243	-	-	0.279	-	-	0.01	B12
	Full SAR	0.248	-	-	0.285	-	-		

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WCDMA1700/2100 (Band 4) Body SAR results – Antenna 1/ RM-1065

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.1	23.1	23.1	0.5	0.5	0.5	dB	
Time-averaged Power		23.1	23.1	23.1	1.12	1.12	1.12	Lin	
Back	Estimated SAR	-	0.386	-	-	0.433	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.377	0.417	0.388	0.423	0.468	0.435	0.01	B13
	Full SAR	-	0.407	-	-	**0.457**	-		

WCDMA1700/2100 (Band 4) Body SAR results – Antenna 1/ RM-1064

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.1	23.1	23.0	0.5	0.5	0.6	dB	
Time-averaged Power		23.1	23.1	23.0	1.12	1.12	1.15	Lin	
Display	Estimated SAR	-	0.368	-	-	0.413	-	0.04	B14
	Full SAR	-	0.404	-	-	0.453	-		

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WCDMA1700/2100 (Band 4) Body SAR results – Antenna 2/ RM-1065

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		22.7	22.7	22.7	0.9	0.9	0.9	dB	
Time-averaged Power		22.7	22.7	22.7	1.23	1.23	1.23	Lin	
Back	Estimated SAR	0.215	0.223	0.227	0.265	0.274	0.279	0.00	-
	Full SAR	-	-	0.223	-	-	0.274		
Display	Estimated SAR	-	0.202	-	-	0.249	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA1700/2100 (Band 4) Body SAR results – Antenna 2/ RM-1064

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		22.7	22.7	22.6	0.9	0.9	1.0	dB	
Time-averaged Power		22.7	22.7	22.6	1.23	1.23	1.26	Lin	
Back	Estimated SAR	-	-	0.195	-	-	0.245	0.00	-
	Full SAR	-	-	0.197	-	-	0.248		

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LTE1700/2100 (Band 4) Body SAR results – Antenna 1/ RM-1065

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.4	23.3	23.2	0.2	0.3	0.4	dB	
Time-averaged Power		23.4	23.3	23.2	1.05	1.07	1.10	Lin	
Back	Estimated SAR	0.424	-	-	0.444	-	-	0.01	B15
	Full SAR	0.435	-	-	0.456	-	-		
Display	Estimated SAR	0.365	-	-	0.382	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.3	22.3	0.2	0.3	0.3	dB	
Time-averaged Power		22.4	22.3	22.3	1.05	1.07	1.07	Lin	
Back	Estimated SAR	0.347	-	-	0.363	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.296	-	-	0.310	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.2	22.3	0.2	0.4	0.3	dB	
Time-averaged Power		22.4	22.2	22.3	1.05	1.10	1.07	Lin	
Back	Estimated SAR	0.348	-	-	0.364	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) Body SAR results – Antenna 1/ RM-1064

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.3	23.3	23.3	0.3	0.3	0.3	dB	
Time-averaged Power		23.3	23.3	23.3	1.07	1.07	1.07	Lin	
Back	Estimated SAR	0.441	-	-	0.473	-	-	0.01	B16
	Full SAR	0.453	-	-	**0.485**	-	-		

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LTE1700/2100 (Band 4) Body SAR results – Antenna 2/ RM-1065

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.0	22.9	22.8	0.6	0.7	0.8	dB	
Time-averaged Power		23.0	22.9	22.8	1.15	1.17	1.20	Lin	
Back	Estimated SAR	0.239	-	-	0.274	-	-	0.00	-
	Full SAR	0.243	-	-	0.279	-	-		
Display	Estimated SAR	0.209	-	-	0.240	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.0	21.9	21.9	0.6	0.7	0.7	dB	
Time-averaged Power		22.0	21.9	21.9	1.15	1.17	1.17	Lin	
Back	Estimated SAR	0.193	-	-	0.222	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.170	-	-	0.195	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.0	21.8	21.9	0.6	0.8	0.7	dB	
Time-averaged Power		22.0	21.8	21.9	1.15	1.20	1.17	Lin	
Back	Estimated SAR	0.199	-	-	0.228	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) Body SAR results – Antenna 2/ RM-1064

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		22.9	22.9	22.9	0.7	0.7	0.7	dB	
Time-averaged Power		22.9	22.9	22.9	1.17	1.17	1.17	Lin	
Back	Estimated SAR	0.173	-	-	0.203	-	-	0.00	-
	Full SAR	0.171	-	-	0.201	-	-		

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3-slot GPRS1900 Body SAR results – Antenna 1/ RM-1065

3-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		27.4			Scaling factor*				
Conducted Power		26.9	26.9	26.7	0.5	0.5	0.7	dB	
Time-averaged Power		22.6	22.6	22.4	1.12	1.12	1.17	Lin	
Back	Estimated SAR	0.407	0.316	0.289	0.457	0.355	0.340	0.03	B17
	Full SAR	0.440	-	-	**0.494**	-	-		
Display	Estimated SAR	-	0.268	-	-	0.301	-	-	-
	Full SAR	-	-	-	-	-	-		

4-slot GPRS1900 Body SAR results – Antenna 1/ RM-1064

4-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		25.9			Scaling factor*				
Conducted Power		25.7	25.5	25.6	0.2	0.4	0.3	dB	
Time-averaged Power		22.7	22.5	22.6	1.05	1.10	1.07	Lin	
Back	Estimated SAR	0.347	-	-	0.363	-	-	0.02	B18
	Full SAR	0.370	-	-	0.387	-	-		

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3-slot GPRS1900 Body SAR results – Antenna 2/ RM-1065

3-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		27.4			Scaling factor*				
Conducted Power		26.5	26.5	26.3	0.9	0.9	1.1	dB	
Time-averaged Power		22.2	22.2	22.0	1.23	1.23	1.29	Lin	
Back	Estimated SAR	0.237	0.229	0.207	0.292	0.282	0.267	0.02	-
	Full SAR	0.256	-	-	0.315	-	-		
Display	Estimated SAR	-	0.199	-	-	0.245	-	-	-
	Full SAR	-	-	-	-	-	-		

4-slot GPRS1900 Body SAR results – Antenna 2/ RM-1064

4-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		25.9			Scaling factor*				
Conducted Power		25.3	25.1	25.2	0.6	0.8	0.7	dB	
Time-averaged Power		22.3	22.1	22.2	1.15	1.20	1.17	Lin	
Back	Estimated SAR	0.235	-	-	0.270	-	-	0.01	-
	Full SAR	0.247	-	-	0.284	-	-		

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WCDMA1900 (Band 2) Body SAR results – Antenna 1/ RM-1065

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.0	23.2	23.0	0.9	0.7	0.9	dB	
Time-averaged Power		23.0	23.2	23.0	1.23	1.17	1.23	Lin	
Back	Estimated SAR	0.304	0.277	0.257	0.374	0.325	0.316	0.02	-
	Full SAR	0.319	-	-	0.392	-	-		
Display	Estimated SAR	-	0.267	-	-	0.314	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA1900 (Band 2) Body SAR results – Antenna 1/ RM-1064

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.1	23.4	23.1	0.8	0.5	0.8	dB	
Time-averaged Power		23.1	23.4	23.1	1.20	1.12	1.20	Lin	
Back	Estimated SAR	0.262	-	-	0.315	-	-	0.02	-
	Full SAR	0.278	-	-	0.334	-	-		

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WCDMA1900 (Band 2) Body SAR results – Antenna 2/ RM-1065

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		22.6	22.8	22.6	1.3	1.1	1.3	dB	
Time-averaged Power		22.6	22.8	22.6	1.35	1.29	1.35	Lin	
Back	Estimated SAR	-	0.353	-	-	0.455	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.336	0.374	0.408	0.453	0.482	0.550	0.01	B19
	Full SAR	-	-	0.413	-	-	**0.557**		

WCDMA1900 (Band 2) Body SAR results – Antenna 2/ RM-1064

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		22.7	23.0	22.7	1.2	0.9	1.2	dB	
Time-averaged Power		22.7	23.0	22.7	1.32	1.23	1.32	Lin	
Display	Estimated SAR	-	-	0.385	-	-	0.508	0.00	B20
	Full SAR	-	-	0.389	-	-	0.513		

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LTE1900 (Band 2) Body SAR results – Antenna 1/ RM-1065

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	22.9	23.1	0.4	0.5	0.3	dB	
Time-averaged Power		23.0	22.9	23.1	1.10	1.12	1.07	Lin	
Back	Estimated SAR	-	-	0.235	-	-	0.252	0.01	-
	Full SAR	-	-	0.247	-	-	0.265		
Display	Estimated SAR	-	-	0.220	-	-	0.236	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	22.0	0.2	0.4	0.4	dB	
Time-averaged Power		22.2	22.0	22.0	1.05	1.10	1.10	Lin	
Back	Estimated SAR	0.211	-	-	0.221	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.204	-	-	0.214	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.1	22.0	0.2	0.3	0.4	dB	
Time-averaged Power		22.2	22.1	22.0	1.05	1.07	1.10	Lin	
Back	Estimated SAR	0.218	-	-	0.228	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) Body SAR results – Antenna 1/ RM-1064

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	23.1	23.1	0.6	0.3	0.3	dB	
Time-averaged Power		22.8	23.1	23.1	1.15	1.07	1.07	Lin	
Back	Estimated SAR	-	-	0.196	-	-	0.210	0.02	-
	Full SAR	-	-	0.213	-	-	0.228		

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LTE1900 (Band 2) Body SAR results – Antenna 2/ RM-1065

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.6	22.5	22.7	0.8	0.9	0.7	dB	
Time-averaged Power		22.6	22.5	22.7	1.20	1.23	1.17	Lin	
Back	Estimated SAR	-	-	0.287	-	-	0.337	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	-	-	0.313	-	-	0.368	0.00	B21
	Full SAR	-	-	0.314	-	-	**0.369**		

LTE1900 (Band 2) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		21.8	21.6	21.6	0.6	0.8	0.8	dB	
Time-averaged Power		21.8	21.6	21.6	1.15	1.20	1.20	Lin	
Back	Estimated SAR	0.229	-	-	0.263	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.241	-	-	0.277	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		21.8	21.7	21.6	0.6	0.7	0.8	dB	
Time-averaged Power		21.8	21.7	21.6	1.15	1.17	1.20	Lin	
Display	Estimated SAR	0.240	-	-	0.276	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) Body SAR results – Antenna 2/ RM-1064

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.4	22.7	22.7	1.0	0.7	0.7	dB	
Time-averaged Power		22.4	22.7	22.7	1.26	1.17	1.17	Lin	
Display	Estimated SAR	-	-	0.298	-	-	0.350	0.01	B22
	Full SAR	-	-	0.307	-	-	0.361		

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LTE2500 (Band 7) Body SAR results – Antenna 2/ RM-1065

LTE2500 (Band 7) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.4	22.3	0.2	0.2	0.3	dB	
Time-averaged Power		22.4	22.4	22.3	1.05	1.05	1.07	Lin	
Back	Estimated SAR	-	0.422	-	-	0.442	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	-	0.494	-	-	0.517	-	0.00	B23
	Full SAR	-	0.497	-	-	**0.520**	-		

LTE2500 (Band 7) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		21.6			Scaling factor*				
Conducted Power		21.3	21.5	21.4	0.3	0.1	0.2	dB	
Time-averaged Power		21.3	21.5	21.4	1.07	1.02	1.05	Lin	
Back	Estimated SAR	-	0.340	-	-	0.348	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	-	0.403	-	-	0.412	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE2500 (Band 7) Body SAR results – Antenna 2/ RM-1064

LTE2500 (Band 7) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.4	22.4	0.2	0.2	0.2	dB	
Time-averaged Power		22.4	22.4	22.4	1.05	1.05	1.05	Lin	
Display	Estimated SAR	-	0.470	-	-	0.492	-	0.00	B24
	Full SAR	-	0.472	-	-	0.494	-		

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WLAN2450 Body SAR results / RM-1065

WLAN2450 b-mode BPSK 1 Mbps									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz	CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz		
Upper limit		16.5	16.5	16.5	Scaling factor*				
Conducted Power		16.0	16.0	16.1	0.5	0.5	0.4	dB	
Time-averaged Power		16.0	16.0	16.1	1.12	1.12	1.10	Lin	
Back	Estimated SAR	-	0.074	-	-	0.083	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.077	0.082	0.092	0.087	0.091	0.101	0.01	B25
	Full SAR	-	-	0.098	-	-	0.107		

WLAN2450 Body SAR results / RM-1064

WLAN2450 b-mode BPSK 1 Mbps									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz	CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz		
Upper limit		16.5	16.5	16.5	Scaling factor*				
Conducted Power		16.2	15.7	16.0	0.3	0.8	0.5	dB	
Time-averaged Power		16.2	15.7	16.0	1.07	1.20	1.12	Lin	
Display	Estimated SAR	-	-	0.096	-	-	0.107	0.00	B26
	Full SAR	-	-	0.100	-	-	**0.112**		

Individual Body SAR plots are given Appendix B.

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Simultaneous transmissions: Combined Body 1g SAR results – WLAN and Individual band Max results - Antenna 1

Test configuration	WLAN 2450	LTE700 (Band 12)	LTE700 (Band 17)	LTE700 (Band 28a)	LTE700 (Band 28b)	GPRS 850	WCDMA 850 (Band 5)	LTE850 (Band 5)
Back	0.083	0.331	0.309	0.321	0.327	0.477	0.281	0.290
Display	0.112	0.254	0.249	0.276	0.252	0.393	0.245	0.273
Test configuration	**WCDMA 1700/2100 (Band 4)**	**LTE 1700/2100 (Band 4)**	**GPRS 1900**	**WCDMA 1900 (Band 2)**	**LTE 1900 (Band 2)**	**LTE 2500 (Band 7)**	**-**	**-**
Back	0.433	0.485	0.494	0.392	0.265	-	-	-
Display	0.457	0.382	0.301	0.314	0.236	-	-	-

Simultaneous transmissions: Combined Body 1g SAR results – WLAN Max + Max combined results - Antenna 1

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Back	**0.414**	**0.392**	**0.404**	**0.410**	**0.560**	**0.364**	0.373	0.516
Display	0.366	0.361	0.388	0.364	0.505	0.357	**0.385**	**0.569**
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Back	**0.568**	**0.577**	**0.475**	**0.348**	-	-	-	-
Display	0.494	0.413	0.426	0.348	-	-	-	-

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Simultaneous transmissions: Combined Body 1g SAR results – WLAN and Individual band Max results - Antenna 2

Test configuration	WLAN 2450	LTE700 (Band 12)	LTE700 (Band 17)	LTE700 (Band 28a)	LTE700 (Band 28b)	GPRS 850	WCDMA 850 (Band 5)	LTE850 (Band 5)
Back	0.083	0.290	0.283	0.263	0.245	0.408	0.321	0.315
Display	0.112	0.235	0.217	0.224	0.203	0.351	0.284	0.255
Test configuration	**WCDMA 1700/2100 (Band 4)**	**LTE 1700/2100 (Band 4)**	**GPRS 1900**	**WCDMA 1900 (Band 2)**	**LTE 1900 (Band 2)**	**LTE 2500 (Band 7)**	**-**	**-**
Back	0.274	0.279	0.315	0.455	0.337	0.442	-	-
Display	0.249	0.240	0.245	0.557	0.369	0.520	-	-

Simultaneous transmissions: Combined Body 1g SAR results – WLAN Max + Max combined results - Antenna 2

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Back	**0.373**	**0.366**	**0.346**	**0.328**	**0.491**	**0.404**	**0.398**	0.357
Display	0.347	0.329	0.336	0.315	0.463	0.396	0.367	**0.361**
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Back	**0.362**	**0.398**	0.538	0.420	0.525	-	-	-
Display	0.352	0.357	**0.669**	**0.481**	**0.632**	-	-	-

Note: Simultaneous Transmission Procedures as described in KDB 648474 are not required for Body testing for this product.

7.2.1 Combined 1g 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.

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The combinations are done for the maximum Body configuration of the each band or band group. Maximum configurations are given in the Max+Max tables in the Section 7.2 of the report. The same scaling factors are used in plotting as for the individual reported SAR value calculations.

Simultaneous transmissions: Reported* Combined 1g SAR Body results – SPEAG Combined Multiband algorithm results – Antenna 1

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Back	0.350	0.328	-	0.347	0.486	-	-	-
Display	-	-	-	-	-	-	-	0.487
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Back	-	-	-	-	-	-	-	-
Display	-	-	-	-	-	-	-	-

Simultaneous transmissions: Reported* Combined 1g SAR Body results – SPEAG Combined Multiband algorithm results – Antenna 2

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Back	-	-	-	-	-	-	-	-
Display	-	-	-	-	-	-	-	-
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Back	-	-	-	-	-	-	-	-
Display	-	-	**0.569**	-	0.534	-	-	-

LTE700 (Band 28a)+WLAN2450 (Antenna 1) has the highest Max+Max result of LTE700 (Band 28) bands: LTE700 (Band 28a) and LTE700 (Band 28b).

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2-slot GPRS850 (Band 5) Antenna 1+ WLAN2450 has the highest Max+Max result of the 850MHz Antenna 1 and Antenna 2 grouped bands: GPRS850, WCDMA850 (Band 5) and LTE850 (Band 5).

WCDMA1700/2100 (Band 4) Antenna 1+ WLAN2450 has the highest Max+Max result of the 1700/2100 MHz Antenna 1 and Antenna 2 grouped bands: WCDMA1700/2100 (Band 4) and LTE1700/2100 (Band 4).

WCDMA1900 (Band 2) Antenna 2+WLAN2450 has the highest Max+Max result of the 1900MHz Antenna 1 and Antenna 2 grouped bands: GSM/GPRS/EGPRS1900, WCDMA1900 (Band 2) and LTE1900 (Band 2).

Note:
* Reported SAR values are scaled to, or measured at, upper limit of power tuning tolerance.
The highest result within individual zoom scan or individual expanded zoom scan results is given in Section 1.2 for each transmitter. The highest result within contributing individual zoom scan, individual expanded zoom scan, Speag combined algorithm or combined expanded zoom scan results is given in the Section for the simultaneous transmitter combination giving the highest combinated value.

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7.3 The measured Body 10 mm SAR values of Wireless Router mode for the test device

LTE700 (Band 12) Wireless Router SAR results – Antenna 1/ RM-1065

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.1	23.0	0.3	0.3	0.4	dB	
Time-averaged Power		23.1	23.1	23.0	1.07	1.07	1.10	Lin	
Back	Estimated SAR	-	0.333	-	-	0.357	-	0.01	-
	Full SAR	-	0.338	-	-	0.362	-		
Display	Estimated SAR	-	0.291	-	-	0.312	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.014	-	-	0.015	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.205	-	-	0.220	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.125	-	-	0.134	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.250	-	-	0.268	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	22.0	0.2	0.4	0.4	dB	
Time-averaged Power		22.2	22.0	22.0	1.05	1.10	1.10	Lin	
Back	Estimated SAR	0.255	-	-	0.267	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.217	-	-	0.227	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.010	-	-	0.010	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.132	-	-	0.138	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.107	-	-	0.112	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.198	-	-	0.207	-	-	-	-
	Full SAR	-	-	-	-	-	-		

(LTE700 (Band 12) Wireless Router SAR results – Antenna 1/ RM-1065 table continues)

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(LTE700 (Band 12) Wireless Router SAR results – Antenna 1/ RM-1065 table continues)

LTE700 (Band 12) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.3	22.1	22.1	0.1	0.3	0.3	dB	
Time-averaged Power		22.3	22.1	22.1	1.02	1.07	1.07	Lin	
Back	Estimated SAR	0.258	-	-	0.264	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) Wireless Router SAR results – Antenna 1/ RM-1064

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	22.9	23.1	0.4	0.5	0.3	dB	
Time-averaged Power		23.0	22.9	23.1	1.10	1.12	1.07	Lin	
Back	Estimated SAR	-	0.362	-	-	0.406	-	0.01	-
	Full SAR	-	0.355	-	-	0.398	-		

LTE700 (Band 12) Wireless Router SAR results – Antenna 2/ RM-1065

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.9	22.8	0.5	0.5	0.6	dB	
Time-averaged Power		22.9	22.9	22.8	1.12	1.12	1.15	Lin	
Back	Estimated SAR	-	0.353	-	-	0.396	-	0.01	W1
	Full SAR	-	0.342	-	-	0.384	-		
Display	Estimated SAR	-	0.322	-	-	0.361	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.015	-	-	0.016	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.193	-	-	0.217	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.195	-	-	0.219	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.071	-	-	0.080	-	-	-
	Full SAR	-	-	-	-	-	-		

(LTE700 (Band 12) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

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(LTE700 (Band 12) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

LTE700 (Band 12) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.8	21.8	0.4	0.6	0.6	dB	
Time-averaged Power		22.0	21.8	21.8	1.10	1.15	1.15	Lin	
Back	Estimated SAR	0.280	-	-	0.307	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.252	-	-	0.276	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.013	-	-	0.014	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.192	-	-	0.211	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.162	-	-	0.178	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.075	-	-	0.082	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.1	21.9	21.9	0.3	0.5	0.5	dB	
Time-averaged Power		22.1	21.9	21.9	1.07	1.12	1.12	Lin	
Back	Estimated SAR	0.284	-	-	0.304	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 12) Wireless Router SAR results – Antenna 2/ RM-1064

LTE700 (Band 12) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz	CH 23060 704.0 MHz	CH 23095 707.5 MHz	CH 23130 711.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.7	22.9	0.6	0.7	0.5	dB	
Time-averaged Power		22.8	22.7	22.9	1.15	1.17	1.12	Lin	
Back	Estimated SAR	-	0.425	-	-	0.499	-	0.01	W2
	Full SAR	-	0.415	-	-	**0.488**	-		

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LTE700 (Band 17) Wireless Router SAR results – Antenna 1/ RM-1065

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.0	23.0	0.3	0.4	0.4	dB	
Time-averaged Power		23.1	23.0	23.0	1.07	1.10	1.10	Lin	
Back	Estimated SAR	0.324	-	-	0.347	-	-	0.01	-
	Full SAR	0.316	-	-	0.339	-	-		
Display	Estimated SAR	0.288	-	-	0.309	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.018	-	-	0.019	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.186	-	-	0.199	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.123	-	-	0.132	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.233	-	-	0.250	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.1	22.1	0.2	0.3	0.3	dB	
Time-averaged Power		22.2	22.1	22.1	1.05	1.07	1.07	Lin	
Back	Estimated SAR	0.268	-	-	0.281	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.234	-	-	0.245	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.014	-	-	0.015	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.152	-	-	0.159	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.102	-	-	0.107	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.192	-	-	0.201	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.3	22.1	22.1	0.1	0.3	0.3	dB	
Time-averaged Power		22.3	22.1	22.1	1.02	1.07	1.07	Lin	
Back	Estimated SAR	0.270	-	-	0.276	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 17) Wireless Router SAR results – Antenna 1/ RM-1064

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.0	23.0	0.3	0.4	0.4	dB	
Time-averaged Power		23.1	23.0	23.0	1.07	1.10	1.10	Lin	
Back	Estimated SAR	0.334	-	-	0.358	-	-	0.01	-
	Full SAR	0.328	-	-	0.351	-	-		

LTE700 (Band 17) Wireless Router SAR results – Antenna 2/ RM-1065

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.8	22.8	0.5	0.6	0.6	dB	
Time-averaged Power		22.9	22.8	22.8	1.12	1.15	1.15	Lin	
Back	Estimated SAR	0.372	-	-	0.417	-	-	0.01	W3
	Full SAR	0.360	-	-	0.404	-	-		
Display	Estimated SAR	0.316	-	-	0.355	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.020	-	-	0.022	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.217	-	-	0.243	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.179	-	-	0.201	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.078	-	-	0.087	-	-	-	-
	Full SAR	-	-	-	-	-	-		

(LTE700 (Band 17) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

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(LTE700 (Band 17) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

LTE700 (Band 17) - 10MHz - QPSK - 25 RB - Offset 12									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.9	21.9	0.4	0.5	0.5	dB	
Time-averaged Power		22.0	21.9	21.9	1.10	1.12	1.12	Lin	
Back	Estimated SAR	0.306	-	-	0.336	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.261	-	-	0.286	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.016	-	-	0.018	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.180	-	-	0.197	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.148	-	-	0.162	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.065	-	-	0.071	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.1	21.9	21.9	0.3	0.5	0.5	dB	
Time-averaged Power		22.1	21.9	21.9	1.07	1.12	1.12	Lin	
Back	Estimated SAR	0.307	-	-	0.329	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 17) Wireless Router SAR results – Antenna 2/ RM-1064

LTE700 (Band 17) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.8	22.8	0.5	0.6	0.6	dB	
Time-averaged Power		22.9	22.8	22.8	1.12	1.15	1.15	Lin	
Back	Estimated SAR	0.414	-	-	0.465	-	-	0.02	W4
	Full SAR	0.399	-	-	**0.448**	-	-		

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LTE700 (Band 28a) Wireless Router SAR results – Antenna 1/ RM-1065

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	23.0	22.9	0.4	0.4	0.5	dB	
Time-averaged Power		23.0	23.0	22.9	1.10	1.10	1.12	Lin	
Back	Estimated SAR	-	0.351	-	-	0.385	-	0.00	-
	Full SAR	-	0.353	-	-	0.387	-		
Display	Estimated SAR	-	0.302	-	-	0.331	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.011	-	-	0.012	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.186	-	-	0.204	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.159	-	-	0.174	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.300	-	-	0.329	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 50 RB - Offset 50									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	21.9	0.2	0.4	0.5	dB	
Time-averaged Power		22.2	22.0	21.9	1.05	1.10	1.12	Lin	
Back	Estimated SAR	0.270	-	-	0.283	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.250	-	-	0.262	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.011	-	-	0.011	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.143	-	-	0.150	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.117	-	-	0.123	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.223	-	-	0.234	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	21.9	0.2	0.4	0.5	dB	
Time-averaged Power		22.2	22.0	21.9	1.05	1.10	1.12	Lin	
Back	Estimated SAR	0.260	-	-	0.272	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 28a) Wireless Router SAR results – Antenna 1/ RM-1064

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	23.0	22.8	0.4	0.4	0.6	dB	
Time-averaged Power		23.0	23.0	22.8	1.10	1.10	1.15	Lin	
Back	Estimated SAR	-	0.368	-	-	0.404	-	0.01	-
	Full SAR	-	0.361	-	-	0.396	-		

LTE700 (Band 28a) Wireless Router SAR results – Antenna 2/ RM-1065

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 49									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.8	22.7	0.6	0.6	0.7	dB	
Time-averaged Power		22.8	22.8	22.7	1.15	1.15	1.17	Lin	
Back	Estimated SAR	-	0.350	-	-	0.402	-	0.01	-
	Full SAR	-	0.336	-	-	0.386	-		
Display	Estimated SAR	-	0.307	-	-	0.352	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.011	-	-	0.013	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.198	-	-	0.227	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.201	-	-	0.231	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.079	-	-	0.090	-	-	-
	Full SAR	-	-	-	-	-	-		

(LTE700 (Band 28a) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

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(LTE700 (Band 28a) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

LTE700 (Band 28a) - 20MHz - QPSK - 50 RB - Offset 50									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.8	21.7	0.4	0.6	0.7	dB	
Time-averaged Power		22.0	21.8	21.7	1.10	1.15	1.17	Lin	
Back	Estimated SAR	0.275	-	-	0.302	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.243	-	-	0.266	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.009	-	-	0.010	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.161	-	-	0.177	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.156	-	-	0.171	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.062	-	-	0.067	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.8	21.7	0.4	0.6	0.7	dB	
Time-averaged Power		22.0	21.8	21.7	1.10	1.15	1.17	Lin	
Back	Estimated SAR	0.285	-	-	0.312	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28a) Wireless Router SAR results – Antenna 2/ RM-1064

LTE700 (Band 28a) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz	CH 27310 713.0 MHz	CH 27372 719.2 MHz	CH 27434 725.4 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.8	22.6	0.6	0.6	0.8	dB	
Time-averaged Power		22.8	22.8	22.6	1.15	1.15	1.20	Lin	
Back	Estimated SAR	-	0.352	-	-	0.404	-	0.01	-
	Full SAR	-	0.339	-	-	0.389	-		

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LTE700 (Band 28b) Wireless Router SAR results – Antenna 1/ RM-1065

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	22.9	23.0	0.4	0.5	0.4	dB	
Time-averaged Power		23.0	22.9	23.0	1.10	1.12	1.10	Lin	
Back	Estimated SAR	0.377	-	-	0.413	-	-	0.01	W5
	Full SAR	0.369	-	-	0.405	-	-		
Display	Estimated SAR	0.333	-	-	0.365	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.013	-	-	0.014	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.173	-	-	0.190	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.150	-	-	0.164	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.341	-	-	0.374	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 50 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	21.9	22.0	0.2	0.5	0.4	dB	
Time-averaged Power		22.2	21.9	22.0	1.05	1.12	1.10	Lin	
Back	Estimated SAR	0.280	-	-	0.293	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.254	-	-	0.266	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.012	-	-	0.013	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.151	-	-	0.158	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.127	-	-	0.133	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.248	-	-	0.260	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.3	22.0	22.0	0.1	0.4	0.4	dB	
Time-averaged Power		22.3	22.0	22.0	1.02	1.10	1.10	Lin	
Back	Estimated SAR	0.284	-	-	0.291	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE700 (Band 28b) Wireless Router SAR results – Antenna 1/ RM-1064

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.1	23.0	23.0	0.3	0.4	0.4	dB	
Time-averaged Power		23.1	23.0	23.0	1.07	1.10	1.10	Lin	
Back	Estimated SAR	0.400	-	-	0.429	-	-	0.01	W6
	Full SAR	0.394	-	-	**0.422**	-	-		

LTE700 (Band 28b) Wireless Router SAR results – Antenna 2/ RM-1065

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	22.7	22.8	0.6	0.7	0.6	dB	
Time-averaged Power		22.8	22.7	22.8	1.15	1.17	1.15	Lin	
Back	Estimated SAR	0.291	-	-	0.334	-	-	0.01	-
	Full SAR	0.285	-	-	0.327	-	-		
Display	Estimated SAR	0.237	-	-	0.272	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.012	-	-	0.014	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.116	-	-	0.133	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.242	-	-	0.278	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.108	-	-	0.124	-	-	-	-
	Full SAR	-	-	-	-	-	-		

(LTE700 (Band 28b) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

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(LTE700 (Band 28b) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

LTE700 (Band 28b) - 20MHz - QPSK - 50 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.0	21.7	21.8	0.4	0.7	0.6	dB	
Time-averaged Power		22.0	21.7	21.8	1.10	1.17	1.15	Lin	
Back	Estimated SAR	0.264	-	-	0.289	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.216	-	-	0.237	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.012	-	-	0.013	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.133	-	-	0.146	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.166	-	-	0.182	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.066	-	-	0.072	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.1	21.8	21.8	0.3	0.6	0.6	dB	
Time-averaged Power		22.1	21.8	21.8	1.07	1.15	1.15	Lin	
Back	Estimated SAR	0.263	-	-	0.282	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE700 (Band 28b) Wireless Router SAR results – Antenna 2/ RM-1064

LTE700 (Band 28b) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz	CH 27435 725.5 MHz	CH 27498 731.8 MHz	CH 27560 738.0 MHz		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.9	22.8	22.8	0.5	0.6	0.6	dB	
Time-averaged Power		22.9	22.8	22.8	1.12	1.15	1.15	Lin	
Back	Estimated SAR	0.315	-	-	0.353	-	-	0.02	-
	Full SAR	0.299	-	-	0.335	-	-		

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2-slot GPRS850 Wireless Router SAR results – Antenna 1/ RM-1065

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		**32.2**			**Scaling factor***				
Conducted Power		**31.9**	**31.7**	**31.7**	**0.3**	**0.5**	**0.5**	**dB**	
Time-averaged Power		**25.9**	**25.7**	**25.7**	**1.07**	**1.12**	**1.12**	**Lin**	
Back	Estimated SAR	0.634	0.655	0.614	0.679	0.735	0.689	0.01	W7
	Full SAR	-	0.650	-	-	**0.729**	-		
Display	Estimated SAR	-	0.639	-	-	0.717	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.037	-	-	0.042	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.401	-	-	0.450	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.243	-	-	0.273	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.288	-	-	0.323	-	-	-
	Full SAR	-	-	-	-	-	-		

2-slot GPRS850 Wireless Router SAR results – Antenna 1/ RM-1064

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		**32.2**			**Scaling factor***				
Conducted Power		**31.8**	**31.8**	**31.7**	**0.4**	**0.4**	**0.5**	**dB**	
Time-averaged Power		**25.8**	**25.8**	**25.7**	**1.10**	**1.10**	**1.12**	**Lin**	
Back	Estimated SAR	-	0.669	-	-	0.734	-	0.03	W8
	Full SAR	-	0.635	-	-	0.696	-		

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2-slot GPRS850 Wireless Router SAR results – Antenna 2/ RM-1065

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		32.2			Scaling factor*				
Conducted Power		31.7	31.5	31.5	0.5	0.7	0.7	dB	
Time-averaged Power		25.7	25.5	25.5	1.12	1.17	1.17	Lin	
Back	Estimated SAR	0.569	0.599	0.630	0.638	0.704	0.740	0.02	-
	Full SAR	-	-	0.612	-	-	0.719		
Display	Estimated SAR	-	0.540	-	-	0.634	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.033	-	-	0.038	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.360	-	-	0.423	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.177	-	-	0.208	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.142	-	-	0.167	-	-	-
	Full SAR	-	-	-	-	-	-		

2-slot GPRS850 Wireless Router SAR results – Antenna 2/ RM-1064

2-slot GPRS850									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		32.2			Scaling factor*				
Conducted Power		31.6	31.6	31.5	0.6	0.6	0.7	dB	
Time-averaged Power		25.6	25.6	25.5	1.15	1.15	1.17	Lin	
Back	Estimated SAR	-	-	0.617	-	-	0.725	0.02	-
	Full SAR	-	-	0.593	-	-	0.697		

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WCDMA850 (Band 5) Wireless Router SAR results – Antenna 1/ RM-1065

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.6	23.4	23.4	0.3	0.5	0.5	dB	
Time-averaged Power		23.6	23.4	23.4	1.07	1.12	1.12	Lin	
Back	Estimated SAR	0.417	0.417	0.401	0.447	0.468	0.450	0.02	-
	Full SAR	-	0.402	-	-	0.451	-		
Display	Estimated SAR	-	0.376	-	-	0.422	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.024	-	-	0.027	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.255	-	-	0.286	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.152	-	-	0.171	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.178	-	-	0.200	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA850 (Band 5) Wireless Router SAR results – Antenna 1/ RM-1064

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.1	23.1	23.1	0.8	0.8	0.8	dB	
Time-averaged Power		23.1	23.1	23.1	1.20	1.20	1.20	Lin	
Back	Estimated SAR	-	0.385	-	-	0.463	-	0.02	-
	Full SAR	-	0.367	-	-	0.441	-		

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WCDMA850 (Band 5) Wireless Router SAR results – Antenna 2/ RM-1065

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.2	23.0	23.0	0.7	0.9	0.9	dB	
Time-averaged Power		23.2	23.0	23.0	1.17	1.23	1.23	Lin	
Back	Estimated SAR	0.469	0.480	0.467	0.551	0.591	0.575	0.03	W9
	Full SAR	-	0.455	-	-	**0.560**	-		
Display	Estimated SAR	-	0.410	-	-	0.504	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.021	-	-	0.026	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.283	-	-	0.348	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.140	-	-	0.172	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.120	-	-	0.148	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA850 (Band 5) Wireless Router SAR results – Antenna 2/ RM-1064

WCDMA850 (Band 5)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		22.9	22.9	22.9	1.0	1.0	1.0	dB	
Time-averaged Power		22.9	22.9	22.9	1.26	1.26	1.26	Lin	
Back	Estimated SAR	-	0.441	-	-	0.555	-	0.02	W10
	Full SAR	-	0.424	-	-	0.534	-		

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LTE850 (Band 5) Wireless Router SAR results – Antenna 1/ RM-1065

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.8	23.7	23.8	0.1	0.2	0.1	dB	
Time-averaged Power		23.8	23.7	23.8	1.02	1.05	1.02	Lin	
Back	Estimated SAR	0.531	-	-	0.543	-	-	0.02	W11
	Full SAR	0.516	-	-	**0.528**	-	-		
Display	Estimated SAR	0.517	-	-	0.529	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.026	-	-	0.027	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.425	-	-	0.435	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.110	-	-	0.113	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.170	-	-	0.174	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 25 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.7	22.7	22.7	0.2	0.2	0.2	dB	
Time-averaged Power		22.7	22.7	22.7	1.05	1.05	1.05	Lin	
Back	Estimated SAR	0.420	-	-	0.440	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.410	-	-	0.429	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.022	-	-	0.023	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.346	-	-	0.362	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.095	-	-	0.100	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.126	-	-	0.132	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.8	22.8	22.7	0.1	0.1	0.2	dB	
Time-averaged Power		22.8	22.8	22.7	1.02	1.02	1.05	Lin	
Back	Estimated SAR	0.431	-	-	0.441	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE850 (Band 5) Wireless Router SAR results – Antenna 1/ RM-1064

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.5	23.5	23.5	0.4	0.4	0.4	dB	
Time-averaged Power		23.5	23.5	23.5	1.10	1.10	1.10	Lin	
Back	Estimated SAR	0.426	-	-	0.467	-	-	0.01	W12
	Full SAR	0.414	-	-	0.454	-	-		

LTE850 (Band 5) Wireless Router SAR results – Antenna 2/ RM-1065

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 24									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.6	23.5	23.6	0.3	0.4	0.3	dB	
Time-averaged Power		23.6	23.5	23.6	1.07	1.10	1.07	Lin	
Back	Estimated SAR	0.444	-	-	0.476	-	-	0.02	-
	Full SAR	0.429	-	-	0.460	-	-		
Display	Estimated SAR	0.409	-	-	0.438	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.023	-	-	0.025	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.187	-	-	0.200	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.235	-	-	0.252	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.148	-	-	0.159	-	-	-	-
	Full SAR	-	-	-	-	-	-		

(LTE850 (Band 5) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

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(LTE850 (Band 5) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

LTE850 (Band 5) - 10MHz - QPSK - 25 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.5	22.5	22.5	0.4	0.4	0.4	dB	
Time-averaged Power		22.5	22.5	22.5	1.10	1.10	1.10	Lin	
Back	Estimated SAR	0.367	-	-	0.402	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.331	-	-	0.363	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.019	-	-	0.021	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.146	-	-	0.160	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.184	-	-	0.202	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.116	-	-	0.127	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) - 10MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.6	22.6	22.5	0.3	0.3	0.4	dB	
Time-averaged Power		22.6	22.6	22.5	1.07	1.07	1.10	Lin	
Back	Estimated SAR	0.371	-	-	0.398	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE850 (Band 5) Wireless Router SAR results – Antenna 2/ RM-1064

LTE850 (Band 5) - 10MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.3	23.3	23.3	0.6	0.6	0.6	dB	
Time-averaged Power		23.3	23.3	23.3	1.15	1.15	1.15	Lin	
Back	Estimated SAR	0.427	-	-	0.490	-	-	0.01	-
	Full SAR	0.414	-	-	0.475	-	-		

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WCDMA1700/2100 (Band 4) Wireless Router SAR results – Antenna 1/ RM-1065

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.1	23.1	23.1	0.5	0.5	0.5	dB	
Time-averaged Power		23.1	23.1	23.1	1.12	1.12	1.12	Lin	
Back	Estimated SAR	0.783	0.948	0.857	0.879	1.064	0.962	0.01	W13
	Full SAR	-	0.938	-	-	1.052	-		
Display	Estimated SAR	0.721	0.876	0.775	0.809	0.983	0.870	0.01	-
	Full SAR	-	0.881	-	-	0.988	-		
Top	Estimated SAR	-	0.048	-	-	0.054	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.682	0.676	0.694	0.765	0.758	0.779	0.13	-
	Full SAR	0.786	0.810	0.808	0.882	0.909	0.907		
Left	Estimated SAR	-	0.123	-	-	0.138	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.191	-	-	0.214	-	0.01	-
	Full SAR	-	0.180	-	-	0.202	-		
Back Repeated	Estimated SAR	-	0.834	-	-	0.936	-	0.10	-
	Full SAR	-	0.936	-	-	1.050	-		

WCDMA1700/2100 (Band 4) Wireless Router SAR results – Antenna 1/ RM-1064

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.1	23.1	23.0	0.5	0.5	0.6	dB	
Time-averaged Power		23.1	23.1	23.0	1.12	1.12	1.15	Lin	
Back	Estimated SAR	-	1.030	-	-	1.156	-	0.02	W14
	Full SAR	-	1.010	-	-	**1.133**	-		

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WCDMA1700/2100 (Band 4) Wireless Router SAR results – Antenna 2/ RM-1065

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		22.7	22.7	22.7	0.9	0.9	0.9	dB	
Time-averaged Power		22.7	22.7	22.7	1.23	1.23	1.23	Lin	
Back	Estimated SAR	-	0.358	-	-	0.440	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.341	0.431	0.405	0.420	0.530	0.498	0.06	-
	Full SAR	-	0.372	-	-	0.458	-		
Top	Estimated SAR	-	0.069	-	-	0.085	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.276	-	-	0.340	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.292	-	-	0.359	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.109	-	-	0.134	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA1700/2100 (Band 4) Wireless Router SAR results – Antenna 2/ RM-1064

WCDMA1700/2100 (Band 4)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.6			Scaling factor*				
Conducted Power		22.7	22.7	22.6	0.9	0.9	1.0	dB	
Time-averaged Power		22.7	22.7	22.6	1.23	1.23	1.26	Lin	
Display	Estimated SAR	-	0.348	-	-	0.428	-	0.00	-
	Full SAR	-	0.345	-	-	0.424	-		

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LTE1700/2100 (Band 4) Wireless Router SAR results – Antenna 1/ RM-1065

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.4	23.3	23.2	0.2	0.3	0.4	dB	
Time-averaged Power		23.4	23.3	23.2	1.05	1.07	1.10	Lin	
Back	Estimated SAR	1.020	1.040	1.010	1.068	1.114	1.107	0.06	W15
	Full SAR	-	0.981	-	-	1.051	-		
Display	Estimated SAR	0.751	0.769	0.768	0.786	0.824	0.842	0.14	-
	Full SAR	0.865	0.896	0.910	0.906	0.960	0.998		
Top	Estimated SAR	0.063	-	-	0.066	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.740	0.766	0.779	0.775	0.821	0.854	0.08	-
	Full SAR	-	-	0.863	-	-	0.946		
Left	Estimated SAR	0.160	-	-	0.168	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.204	-	-	0.214	-	-	0.00	-
	Full SAR	0.207	-	-	0.217	-	-		
Back Repeated	Estimated SAR	-	0.978	-	-	1.048	-	0.00	-
	Full SAR	-	0.976	-	-	1.046	-		

LTE1700/2100 (Band 4) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.3	22.3	0.2	0.3	0.3	dB	
Time-averaged Power		22.4	22.3	22.3	1.05	1.07	1.07	Lin	
Back	Estimated SAR	0.782	0.804	0.828	0.819	0.862	0.887	0.00	-
	Full SAR	-	-	0.824	-	-	0.883		
Display	Estimated SAR	0.621	-	-	0.650	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.051	-	-	0.054	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.597	-	-	0.625	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.127	-	-	0.133	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.165	-	-	0.173	-	-	-	-
	Full SAR	-	-	-	-	-	-		

(LTE1700/2100 (Band 4) Wireless Router SAR results – Antenna 1/ RM-1065 table continues)

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(LTE1700/2100 (Band 4) Wireless Router SAR results – Antenna 1/ RM-1065 table continues)

LTE1700/2100 (Band 4) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.2	22.3	0.2	0.4	0.3	dB	
Time-averaged Power		22.4	22.2	22.3	1.05	1.10	1.07	Lin	
Back	Estimated SAR	0.781	-	-	0.818	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.621	-	-	0.650	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.623	-	-	0.652	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) Wireless Router SAR results – Antenna 1/ RM-1064

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.3	23.3	23.3	0.3	0.3	0.3	dB	
Time-averaged Power		23.3	23.3	23.3	1.07	1.07	1.07	Lin	
Back	Estimated SAR	-	1.100	-	-	1.179	-	0.02	W16
	Full SAR	-	1.080	-	-	**1.157**	-		

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LTE1700/2100 (Band 4) Wireless Router SAR results – Antenna 2/ RM-1065

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		23.0	22.9	22.8	0.6	0.7	0.8	dB	
Time-averaged Power		23.0	22.9	22.8	1.15	1.17	1.20	Lin	
Back	Estimated SAR	0.401	-	-	0.460	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.436	-	-	0.501	-	-	0.03	-
	Full SAR	0.406	-	-	0.466	-	-		
Top	Estimated SAR	0.071	-	-	0.081	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.325	-	-	0.373	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.276	-	-	0.317	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.122	-	-	0.140	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.0	21.9	21.9	0.6	0.7	0.7	dB	
Time-averaged Power		22.0	21.9	21.9	1.15	1.17	1.17	Lin	
Back	Estimated SAR	0.334	-	-	0.383	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.360	-	-	0.413	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.058	-	-	0.067	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.259	-	-	0.297	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.225	-	-	0.258	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.098	-	-	0.113	-	-	-	-
	Full SAR	-	-	-	-	-	-		

(LTE1700/2100 (Band 4) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

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(LTE1700/2100 (Band 4) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

LTE1700/2100 (Band 4) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.0	21.8	21.9	0.6	0.8	0.7	dB	
Time-averaged Power		22.0	21.8	21.9	1.15	1.20	1.17	Lin	
Display	Estimated SAR	0.348	-	-	0.400	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1700/2100 (Band 4) Wireless Router SAR results – Antenna 2/ RM-1064

LTE1700/2100 (Band 4) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz	CH 20050 1720.0 MHz	CH 20175 1732.5 MHz	CH 20300 1745.0 MHz		
Upper limit		23.6			Scaling factor*				
Conducted Power		22.9	22.9	22.9	0.7	0.7	0.7	dB	
Time-averaged Power		22.9	22.9	22.9	1.17	1.17	1.17	Lin	
Display	Estimated SAR	0.325	-	-	0.382	-	-	0.00	-
	Full SAR	0.327	-	-	0.384	-	-		

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3-slot GPRS1900 Wireless Router SAR results – Antenna 1/ RM-1065

3-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		**27.4**			**Scaling factor***				
Conducted Power		**26.9**	**26.9**	**26.7**	**0.5**	**0.5**	**0.7**	**dB**	
Time-averaged Power		**22.6**	**22.6**	**22.4**	**1.12**	**1.12**	**1.17**	**Lin**	
Back	Estimated SAR	0.858	0.783	0.595	0.963	0.879	0.699	0.10	-
	Full SAR	0.959	0.848	0.693	1.076	0.951	0.814		
Display	Estimated SAR	0.710	0.635	0.531	0.797	0.712	0.624	0.14	-
	Full SAR	0.854	0.774	0.668	0.958	0.868	0.785		
Top	Estimated SAR	-	0.011	-	-	0.012	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.719	0.686	0.590	0.807	0.770	0.693	0.12	-
	Full SAR	0.840	0.798	0.691	0.942	0.895	0.812		
Left	Estimated SAR	-	0.081	-	-	0.091	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.147	-	-	0.165	-	0.01	-
	Full SAR	-	0.142	-	-	0.159	-		
Back Repeated	Estimated SAR	0.875	-	-	0.982	-	-	0.09	W17
	Full SAR	0.964	-	-	**1.082**	-	-		

4-slot GPRS1900 Wireless Router SAR results – Antenna 1/ RM-1064

4-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		**25.9**			**Scaling factor***				
Conducted Power		**25.7**	**25.5**	**25.6**	**0.2**	**0.4**	**0.3**	**dB**	
Time-averaged Power		**22.7**	**22.5**	**22.6**	**1.05**	**1.10**	**1.07**	**Lin**	
Back	Estimated SAR	0.818	-	-	0.857	-	-	0.04	W18
	Full SAR	0.853	-	-	0.893	-	-		

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3-slot GPRS1900 Wireless Router SAR results – Antenna 2/ RM-1065

3-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		27.4			Scaling factor*				
Conducted Power		26.5	26.5	26.3	0.9	0.9	1.1	dB	
Time-averaged Power		22.2	22.2	22.0	1.23	1.23	1.29	Lin	
Back	Estimated SAR	0.541	0.429	0.434	0.666	0.528	0.559	0.01	-
	Full SAR	0.555	-	-	0.683	-	-		
Display	Estimated SAR	-	0.382	-	-	0.470	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.033	-	-	0.040	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.263	-	-	0.324	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.279	-	-	0.343	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.089	-	-	0.109	-	-	-
	Full SAR	-	-	-	-	-	-		

4-slot GPRS1900 Wireless Router SAR results – Antenna 2/ RM-1064

4-slot GPRS1900									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		25.9			Scaling factor*				
Conducted Power		25.3	25.1	25.2	0.6	0.8	0.7	dB	
Time-averaged Power		22.3	22.1	22.2	1.15	1.20	1.17	Lin	
Back	Estimated SAR	0.506	-	-	0.581	-	-	0.03	-
	Full SAR	0.534	-	-	0.613	-	-		

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WCDMA1900 (Band 2) Wireless Router SAR results – Antenna 1/ RM-1065

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.0	23.2	23.0	0.9	0.7	0.9	dB	
Time-averaged Power		23.0	23.2	23.0	1.23	1.17	1.23	Lin	
Back	Estimated SAR	0.722	0.669	0.631	0.888	0.786	0.776	0.08	-
	Full SAR	0.799	-	-	0.983	-	-		
Display	Estimated SAR	-	0.601	-	-	0.706	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.011	-	-	0.013	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.599	-	-	0.704	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.068	-	-	0.080	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.128	-	-	0.150	-	-	-
	Full SAR	-	-	-	-	-	-		

WCDMA1900 (Band 2) Wireless Router SAR results – Antenna 1/ RM-1064

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		23.1	23.4	23.1	0.8	0.5	0.8	dB	
Time-averaged Power		23.1	23.4	23.1	1.20	1.12	1.20	Lin	
Back	Estimated SAR	0.610	-	-	0.733	-	-	0.01	-
	Full SAR	0.620	-	-	0.745	-	-		

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WCDMA1900 (Band 2) Wireless Router SAR results – Antenna 2/ RM-1065

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		22.6	22.8	22.6	1.3	1.1	1.3	dB	
Time-averaged Power		22.6	22.8	22.6	1.35	1.29	1.35	Lin	
Back	Estimated SAR	0.660	0.744	0.782	0.890	0.958	1.055	0.03	W19
	Full SAR	-	-	0.816	-	-	1.101		
Display	Estimated SAR	0.686	0.731	0.787	0.925	0.942	1.062	0.01	-
	Full SAR	-	-	0.796	-	-	1.074		
Top	Estimated SAR	-	0.066	-	-	0.085	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.437	-	-	0.563	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.411	-	-	0.529	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.146	-	-	0.188	-	-	-
	Full SAR	-	-	-	-	-	-		
Back Repeated	Estimated SAR	-	-	0.779	-	-	1.051	0.03	-
	Full SAR	-	-	0.814	-	-	1.098		

WCDMA1900 (Band 2) Wireless Router SAR results – Antenna 2/ RM-1064

WCDMA1900 (Band 2)									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.9			Scaling factor*				
Conducted Power		22.7	23.0	22.7	1.2	0.9	1.2	dB	
Time-averaged Power		22.7	23.0	22.7	1.32	1.23	1.32	Lin	
Back	Estimated SAR	-	-	0.812	-	-	1.070	0.03	W20
	Full SAR	-	-	0.846	-	-	**1.115**		

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LTE1900 (Band 2) Wireless Router SAR results – Antenna 1/ RM-1065

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		23.0	22.9	23.1	0.4	0.5	0.3	dB	
Time-averaged Power		23.0	22.9	23.1	1.10	1.12	1.07	Lin	
Back	Estimated SAR	-	-	0.615	-	-	0.659	0.01	-
	Full SAR	-	-	0.620	-	-	0.664		
Display	Estimated SAR	-	-	0.497	-	-	0.533	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	-	0.014	-	-	0.015	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	-	0.499	-	-	0.535	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	-	0.059	-	-	0.063	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	-	0.115	-	-	0.123	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.0	22.0	0.2	0.4	0.4	dB	
Time-averaged Power		22.2	22.0	22.0	1.05	1.10	1.10	Lin	
Back	Estimated SAR	0.552	-	-	0.578	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.437	-	-	0.458	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.010	-	-	0.011	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.409	-	-	0.428	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.035	-	-	0.037	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.078	-	-	0.082	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		22.2	22.1	22.0	0.2	0.3	0.4	dB	
Time-averaged Power		22.2	22.1	22.0	1.05	1.07	1.10	Lin	
Back	Estimated SAR	0.498	-	-	0.521	-	-	-	-
	Full SAR	-	-	-	-	-	-		

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LTE1900 (Band 2) Wireless Router SAR results – Antenna 1/ RM-1064

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.8	23.1	23.1	0.6	0.3	0.3	dB	
Time-averaged Power		22.8	23.1	23.1	1.15	1.07	1.07	Lin	
Back	Estimated SAR	-	-	0.459	-	-	0.492	0.03	-
	Full SAR	-	-	0.486	-	-	0.521		

LTE1900 (Band 2) Wireless Router SAR results – Antenna 2/ RM-1065

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.6	22.5	22.7	0.8	0.9	0.7	dB	
Time-averaged Power		22.6	22.5	22.7	1.20	1.23	1.17	Lin	
Back	Estimated SAR	-	-	0.653	-	-	0.767	0.02	W21
	Full SAR	-	-	0.631	-	-	0.741		
Display	Estimated SAR	-	-	0.609	-	-	0.716	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	-	0.060	-	-	0.071	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	-	0.439	-	-	0.516	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	-	0.372	-	-	0.437	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	-	0.122	-	-	0.143	-	-
	Full SAR	-	-	-	-	-	-		

(LTE1900 (Band 2) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

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(LTE1900 (Band 2) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

LTE1900 (Band 2) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		21.8	21.6	21.6	0.6	0.8	0.8	dB	
Time-averaged Power		21.8	21.6	21.6	1.15	1.20	1.20	Lin	
Back	Estimated SAR	0.518	-	-	0.595	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.475	-	-	0.545	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	0.053	-	-	0.061	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.219	-	-	0.251	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	0.317	-	-	0.364	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	0.135	-	-	0.155	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.4			Scaling factor*				
Conducted Power		21.8	21.7	21.6	0.6	0.7	0.8	dB	
Time-averaged Power		21.8	21.7	21.6	1.15	1.17	1.20	Lin	
Back	Estimated SAR	0.464	-	-	0.533	-	-	-	-
	Full SAR	-	-	-	-	-	-		

LTE1900 (Band 2) Wireless Router SAR results – Antenna 2/ RM-1064

LTE1900 (Band 2) - 20MHz - QPSK - 1 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		23.4			Scaling factor*				
Conducted Power		22.4	22.7	22.7	1.0	0.7	0.7	dB	
Time-averaged Power		22.4	22.7	22.7	1.26	1.17	1.17	Lin	
Back	Estimated SAR	-	-	0.602	-	-	0.707	0.03	W22
	Full SAR	-	-	0.635	-	-	**0.746**		

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LTE2500 (Band 7) Wireless Router SAR results – Antenna 2/ RM-1065

LTE2500 (Band 7) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.4	22.3	0.2	0.2	0.3	dB	
Time-averaged Power		22.4	22.4	22.3	1.05	1.05	1.07	Lin	
Back	Estimated SAR	-	0.750	-	-	0.785	-	0.01	-
	Full SAR	-	0.756	-	-	0.792	-		
Display	Estimated SAR	0.969	1.030	0.880	1.015	1.079	0.943	0.06	-
	Full SAR	-	0.967	-	-	1.013	-		
Top	Estimated SAR	-	0.021	-	-	0.021	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	1.130	1.090	1.020	1.183	1.141	1.093	0.02	-
	Full SAR	1.150	-	-	1.204	-	-		
Left	Estimated SAR	-	0.239	-	-	0.250	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.156	-	-	0.163	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom Repeated	Estimated SAR	1.130	-	-	1.183	-	-	0.03	W23
	Full SAR	1.160	-	-	**1.215**	-	-		

LTE2500 (Band 7) - 20MHz - QPSK - 50 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		21.6			Scaling factor*				
Conducted Power		21.3	21.5	21.4	0.3	0.1	0.2	dB	
Time-averaged Power		21.3	21.5	21.4	1.07	1.02	1.05	Lin	
Back	Estimated SAR	-	0.601	-	-	0.615	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	0.732	0.790	0.725	0.784	0.808	0.759	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.019	-	-	0.019	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	0.880	0.930	0.871	0.943	0.952	0.912	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.206	-	-	0.211	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.127	-	-	0.130	-	-	-
	Full SAR	-	-	-	-	-	-		

(LTE2500 (Band 7) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

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(LTE2500 (Band 7) Wireless Router SAR results – Antenna 2/ RM-1065 table continues)

LTE2500 (Band 7) - 20MHz - QPSK - 100 RB - Offset 0									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		21.6			Scaling factor*				
Conducted Power		21.2	21.3	21.4	0.4	0.3	0.2	dB	
Time-averaged Power		21.2	21.3	21.4	1.10	1.07	1.05	Lin	
Display	Estimated SAR	-	-	0.712	-	-	0.746	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	-	0.851	-	-	0.891	-	-
	Full SAR	-	-	-	-	-	-		

LTE2500 (Band 7) Wireless Router SAR results – Antenna 2/ RM-1064

LTE2500 (Band 7) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.4	22.4	0.2	0.2	0.2	dB	
Time-averaged Power		22.4	22.4	22.4	1.05	1.05	1.05	Lin	
Bottom	Estimated SAR	1.120	-	-	1.173	-	-	0.02	W24
	Full SAR	1.140	-	-	1.194	-	-		

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WLAN2450 Wireless Router SAR results / RM-1065

WLAN2450 b-mode BPSK 1 Mbps									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz	CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz		
Upper limit		**16.5**	**16.5**	**16.5**	**Scaling factor***				
Conducted Power		**16.0**	**16.0**	**16.1**	**0.5**	**0.5**	**0.4**	**dB**	
Time-averaged Power		**16.0**	**16.0**	**16.1**	**1.12**	**1.12**	**1.10**	**Lin**	
Back	Estimated SAR	0.156	0.175	0.186	0.175	0.196	0.204	0.01	W25
	Full SAR	-	-	0.195	-	-	**0.214**		
Display	Estimated SAR	-	0.172	-	-	0.193	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	0.086	-	-	0.096	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	-	0.011	-	-	0.012	-	-	-
	Full SAR	-	-	-	-	-	-		
Left	Estimated SAR	-	0.021	-	-	0.023	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	0.117	-	-	0.131	-	-	-
	Full SAR	-	-	-	-	-	-		

WLAN2450 Wireless Router SAR results / RM-1064

WLAN2450 b-mode BPSK 1 Mbps									
Device orientation	SAR measurement	Measured 1g SAR [W/kg]			Reported* 1g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz	CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz		
Upper limit		**16.5**	**16.5**	**16.5**	**Scaling factor***				
Conducted Power		**16.2**	**15.7**	**16.0**	**0.3**	**0.8**	**0.5**	**dB**	
Time-averaged Power		**16.2**	**15.7**	**16.0**	**1.07**	**1.20**	**1.12**	**Lin**	
Back	Estimated SAR	-	-	0.173	-	-	0.194	0.00	W26
	Full SAR	-	-	0.176	-	-	0.197		

Individual Wireless Router SAR plots are given in Appendix B.

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Simultaneous transmissions: Combined Wireless Router 1g SAR results – WLAN and Individual band Max results - Antenna 1

Test configuration	WLAN 2450	LTE700 (Band 12)	LTE700 (Band 17)	LTE700 (Band 28a)	LTE700 (Band 28b)	GPRS 850	WCDMA 850 (Band 5)	LTE850 (Band 5)
Back	0.214	0.398	0.351	0.396	0.422	0.729	0.451	0.528
Display	0.193	0.312	0.309	0.331	0.365	0.717	0.422	0.529
Top	0.096	0.015	0.019	0.012	0.014	0.042	0.027	0.027
Bottom	0.012	0.220	0.199	0.204	0.190	0.450	0.286	0.435
Left	0.023	0.134	0.132	0.174	0.164	0.273	0.171	0.113
Right	0.131	0.268	0.250	0.329	0.374	0.323	0.200	0.174
Test configuration	**WCDMA 1700/2100 (Band 4)**	**LTE 1700/2100 (Band 4)**	**GPRS 1900**	**WCDMA 1900 (Band 2)**	**LTE 1900 (Band 2)**	**LTE 2500 (Band 7)**	**-**	**-**
Back	1.133	1.157	1.082	0.983	0.664	-	-	-
Display	0.988	0.998	0.712	0.706	0.533	-	-	-
Top	0.054	0.066	0.012	0.013	0.015	-	-	-
Bottom	0.909	0.946	0.942	0.704	0.535	-	-	-
Left	0.138	0.168	0.091	0.080	0.063	-	-	-
Right	0.214	0.214	0.165	0.150	0.123	-	-	-

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Simultaneous transmissions: Combined Wireless Router 1g SAR results – WLAN Max + Max combined results - Antenna 1

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Back	**0.612**	**0.565**	**0.610**	**0.636**	**0.943**	**0.665**	**0.742**	**1.347**
Display	0.505	0.502	0.524	0.558	0.910	0.615	0.722	1.181
Top	0.111	0.115	0.108	0.110	0.138	0.123	0.123	0.150
Bottom	0.232	0.211	0.216	0.202	0.462	0.298	0.447	0.921
Left	0.157	0.155	0.197	0.187	0.296	0.194	0.136	0.161
Right	0.399	0.381	0.460	0.505	0.454	0.331	0.305	0.345
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Back	**1.371**	**1.296**	**1.197**	**0.878**	-	-	-	-
Display	1.191	0.905	0.899	0.726	-	-	-	-
Top	0.162	0.108	0.109	0.111	-	-	-	-
Bottom	0.958	0.954	0.716	0.547	-	-	-	-
Left	0.191	0.114	0.103	0.086	-	-	-	-
Right	0.345	0.296	0.281	0.254	-	-	-	-

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Simultaneous transmissions: Combined Wireless Router 1g SAR results – WLAN and Individual band Max results - Antenna 2

Test configuration	WLAN 2450	LTE700 (Band 12)	LTE700 (Band 17)	LTE700 (Band 28a)	LTE700 (Band 28b)	GPRS 850	WCDMA 850 (Band 5)	LTE850 (Band 5)
Back	0.214	0.488	0.448	0.389	0.335	0.719	0.560	0.475
Display	0.193	0.361	0.355	0.352	0.272	0.634	0.504	0.438
Top	0.096	0.016	0.022	0.013	0.014	0.038	0.026	0.025
Bottom	0.012	0.217	0.243	0.227	0.146	0.423	0.348	0.200
Left	0.023	0.219	0.201	0.231	0.278	0.208	0.172	0.252
Right	0.131	0.082	0.087	0.090	0.124	0.167	0.148	0.159
Test configuration	**WCDMA 1700/2100 (Band 4)**	**LTE 1700/2100 (Band 4)**	**GPRS 1900**	**WCDMA 1900 (Band 2)**	**LTE 1900 (Band 2)**	**LTE 2500 (Band 7)**	**-**	**-**
Back	0.440	0.460	0.683	1.101	0.746	0.792	-	-
Display	0.458	0.466	0.470	1.074	0.716	1.013	-	-
Top	0.085	0.081	0.040	0.085	0.071	0.021	-	-
Bottom	0.340	0.373	0.324	0.563	0.516	1.215	-	-
Left	0.359	0.317	0.343	0.529	0.437	0.250	-	-
Right	0.134	0.140	0.109	0.188	0.155	0.163	-	-

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Simultaneous transmissions: Combined Wireless Router 1g SAR results – WLAN Max + Max combined results - Antenna 2

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Back	**0.702**	**0.662**	**0.603**	**0.549**	**0.933**	**0.774**	**0.689**	**0.654**
Display	0.554	0.548	0.545	0.465	0.827	0.697	0.631	0.651
Top	0.112	0.118	0.109	0.110	0.134	0.122	0.121	0.181
Bottom	0.229	0.255	0.239	0.158	0.435	0.360	0.212	0.352
Left	0.242	0.224	0.254	0.301	0.231	0.195	0.275	0.382
Right	0.213	0.218	0.221	0.255	0.298	0.279	0.290	0.265
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Back	**0.674**	**0.897**	**1.329**	**0.960**	1.006	-	-	-
Display	0.659	0.663	1.267	0.909	1.206	-	-	-
Top	0.177	0.136	0.181	0.167	0.117	-	-	-
Bottom	0.385	0.336	0.575	0.528	**1.227**	-	-	-
Left	0.340	0.366	0.552	0.460	0.273	-	-	-
Right	0.271	0.240	0.319	0.286	0.294	-	-	-

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

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7.3.1 Combined 1g Wireless Router 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.

The combinations are done for the maximum Wireless Router configuration of the each band or band group. Maximum configurations are given in the Max+Max tables in the Section 7.3 of the report. The same scaling factors are used in plotting as for the individual reported SAR value calculations.

Simultaneous transmissions: Reported* Combined 1g SAR Wireless Router results – SPEAG Combined Multiband algorithm results – Antenna 1

Test configuration	**LTE700 (Band 12) + WLAN 2450**	**LTE700 (Band 17) + WLAN 2450**	**LTE700 (Band 28a) + WLAN 2450**	**LTE700 (Band 28b) + WLAN 2450**	**GPRS 850 + WLAN 2450**	**WCDMA 850 (Band 5) + WLAN 2450**	**LTE850 (Band 5) + WLAN 2450**	**WCDMA 1700/2100 (Band 4) + WLAN 2450**
Back	-	-	-	**0.463**	**0.774**	-	-	-
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Back	**1.210**	-	-	-	-	-	-	-

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Simultaneous transmissions: Reported* Combined 1g SAR Wireless Router results – SPEAG Combined Multiband algorithm results – Antenna 2

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Back	**0.524**	**0.491**	-	-	-	-	-	-
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Back	-	-	**1.100**	-	-	-	-	-
Bottom	-	-	-	-	**1.190**	-	-	-

LTE700 (Band 28b) Antenna 1 + WLAN2450 has the highest Max+Max result of LTE700 (Band 28) Antenna 1 and Antenna 2 bands: LTE700 (Band 28a) and LTE700 (Band 28b).

GPRS850 (Band 5) Antenna 1 + WLAN2450 has the highest Max+Max result of the 850MHz Antenna 1 and Antenna 2 grouped bands: GPRS850, WCDMA850 (Band 5) and LTE850 (Band 5).

LTE1700/2100 (Band 4) Antenna 1 + WLAN2450 has the highest Max+Max result of the 1700/2100 MHz Antenna 1 and Antenna 2 grouped bands: WCDMA1700/2100 (Band 4) and LTE1700/2100 (Band 4).

WCDMA1900 Antenna 2 + WLAN2450 has the highest Max+Max result of the 1900Hz Antenna 1 and Antenna 2 grouped bands: GPRS1900, WCDMA1900 (Band 2) and LTE1900 (Band 2).

Maximum of the Combined SAR values, namely LTE1700/2100 (Band 4)+WLAN2450, in the above table is less than the maximum SAR value 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 this case, the maximum SAR values given for the combined Mode in the Summary table in Section 1.2.2 is that for the individual cellular band LTE1700/2100 (Band 4)/WLAN2450.

Note:
* Reported SAR values are scaled to, or measured at, upper limit of power tuning tolerance.
The highest result within individual zoom scan or individual expanded zoom scan results is given in Section 1.2 for each transmitter. The highest result within contributing individual zoom scan, individual expanded zoom scan, Speag combined algorithm or combined expanded zoom scan results is given in the Section for the simultaneous transmitter combination giving the highest combinated value.

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7.4 The measured 10-g Extremity 0 cm SAR values for the test device are tabulated below

LTE2500 (Band 7) Extremity SAR results – Antenna 2/ RM-1065

LTE2500 (Band 7) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 10g SAR [W/kg]			Reported* 10g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.9			Scaling factor*				
Conducted Power		22.4	22.4	22.3	0.5	0.5	0.6	dB	
Time-averaged Power		22.4	22.4	22.3	1.12	1.12	1.15	Lin	
Back	Estimated SAR	-	-	-	-	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Display	Estimated SAR	-	-	-	-	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Top	Estimated SAR	-	-	-	-	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Bottom	Estimated SAR	2.680	2.830	2.660	3.007	3.175	3.054	0.15	-
	Full SAR	2.830	2.850	2.680	3.175	3.198	3.077		
Left	Estimated SAR	-	-	-	-	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Right	Estimated SAR	-	-	-	-	-	-	-	-
	Full SAR	-	-	-	-	-	-		
Repeated Bottom	Estimated SAR	-	2.840	-	-	3.187	-	0.01	E1
	Full SAR	-	2.850	-	-	**3.198**	-		

LTE2500 (Band 7) Extremity SAR results – Antenna 2/ RM-1064

LTE2500 (Band 7) - 20MHz - QPSK - 1 RB - Offset 99									
Device orientation	SAR measurement	Measured 10g SAR [W/kg]			Reported* 10g SAR [W/kg]			Max Deviation* [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		
Upper limit		22.6			Scaling factor*				
Conducted Power		22.4	22.4	22.4	0.2	0.2	0.2	dB	
Time-averaged Power		22.4	22.4	22.4	1.05	1.05	1.05	Lin	
Bottom	Estimated SAR	-	2.530	-	-	2.649	-	-	E2
	Full SAR	-	2.530	-	-	2.649	-		

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WLAN2450 Extremity SAR results / RM-1065

WLAN2450 b-mode BPSK 1 Mbps									
Device orientation	SAR measurement	Measured 10g SAR [W/kg]			Reported* 10g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz	CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz		
Upper limit		16.5	16.5	16.5	Scaling factor*				
Conducted Power		16.0	16.0	16.1	0.5	0.5	0.4	dB	
Time-averaged Power		16.0	16.0	16.1	1.12	1.12	1.10	Lin	
Bottom	Estimated SAR	0.033	0.037	0.041	0.037	0.042	0.045	0.01	E3
	Full SAR	-	-	0.046	-	-	**0.051**		

WLAN2450 Extremity SAR results / RM-1064

WLAN2450 b-mode BPSK 1 Mbps									
Device orientation	SAR measurement	Measured 10g SAR [W/kg]			Reported* 10g SAR [W/kg]			Max Deviation* [W/kg]	Plot #
		CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz	CH 1 2412.0 MHz	CH 6 2437.0 MHz	CH 11 2462.0 MHz		
Upper limit		16.5	16.5	16.5	Scaling factor*				
Conducted Power		16.2	15.7	16.0	0.3	0.8	0.5	dB	
Time-averaged Power		16.2	15.7	16.0	1.07	1.20	1.12	Lin	
Bottom	Estimated SAR	-	-	0.042	-	-	0.047	0.00	E4
	Full SAR	-	-	0.044	-	-	0.050		

Individual Extremity SAR plots are given in Appendix B.

All other bands/communication systems and all other surfaces and edges have Wireless Router Reported SAR less than or equal to 1.2W/kg (when scaled to maximum power if WR power reduction applied), therefore there is no need to test Phablet 10-g extremity SAR according to KDB 648474 D04 Handset SAR v01r01.

Simultaneous transmissions: Combined Extremity 10g SAR results – WLAN and Individual band Max results - Antenna 2

Test configuration	WLAN 2450	LTE700 (Band 12)	LTE700 (Band 17)	LTE700 (Band 28a)	LTE700 (Band 28b)	GPRS 850	WCDMA 850 (Band 5)	LTE850 (Band 5)
Bottom	0.051	-	-	-	-	-	-	-
Test configuration	**WCDMA 1700/2100 (Band 4)**	**LTE 1700/2100 (Band 4)**	**GPRS 1900**	**WCDMA 1900 (Band 2)**	**LTE 1900 (Band 2)**	**LTE 2500 (Band 7)**	**-**	**-**
Bottom	-	-	-	-	-	3.198	-	-

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Simultaneous transmissions: Combined Extremity 10g SAR results – WLAN Max + Max combined results - Antenna 2

Test configuration	LTE700 (Band 12) + WLAN 2450	LTE700 (Band 17) + WLAN 2450	LTE700 (Band 28a) + WLAN 2450	LTE700 (Band 28b) + WLAN 2450	GPRS 850 + WLAN 2450	WCDMA 850 (Band 5) + WLAN 2450	LTE850 (Band 5) + WLAN 2450	WCDMA 1700/2100 (Band 4) + WLAN 2450
Bottom	-	-	-	-	-	-	-	-
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Bottom	-	-	-	-	**3.249**	-	-	-

Note: Simultaneous Transmission Procedures as described in KDB 648474 are not required for Wireless router testing for this product.

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7.4.1 Combined 1g Wireless Router 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.

The combinations are done for the maximum Extremity configuration of the each band or band group. Maximum configurations are given in the Max+Max tables in the Section 7.4 of the report. The same scaling factors are used in plotting as for the individual reported SAR value calculations. For this product, 10g Extremity testing is needed only for LTE2500 (Band 7) and for WLAN23450 because of combination to estimate simultaneous transmission.

Simultaneous transmissions: Reported* Combined 10g SAR Extremity results – SPEAG Combined Multiband algorithm results – Antenna 2

Test configuration	**LTE700 (Band 12) + WLAN 2450**	**LTE700 (Band 17) + WLAN 2450**	**LTE700 (Band 28a) + WLAN 2450**	**LTE700 (Band 28b) + WLAN 2450**	**GPRS 850 + WLAN 2450**	**WCDMA 850 (Band 5) + WLAN 2450**	**LTE850 (Band 5) + WLAN 2450**	**WCDMA 1700/2100 (Band 4) + WLAN 2450**
Bottom	-	-	-	-	-	-	-	-
Test configuration	**LTE 1700/2100 (Band 4) + WLAN 2450**	**GPRS 1900 + WLAN 2450**	**WCDMA 1900 (Band 2) + WLAN 2450**	**LTE 1900 (Band 2) + WLAN 2450**	**LTE 2500 (Band 7) + WLAN 2450**	**-**	**-**	**-**
Bottom	-	-	-	-	**3.190**	-	-	-

Maximum of the Combined SAR values, namely LTE2500 (Band 7) + WLAN2450, in the above table is less than the maximum SAR value 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 this case, the maximum SAR values given for the combined Mode in the Summary table in Section 1.2.4 is that for the individual cellular band LTE2500 (Band 7)/WLAN2450.

Note:
* Reported SAR values are scaled to, or measured at, upper limit of power tuning tolerance.
The highest result within individual zoom scan or individual expanded zoom scan results is given in Section 1.2 for each transmitter. The highest result within contributing individual zoom scan, individual expanded zoom scan, Speag combined algorithm or combined expanded zoom scan results is given in the Section for the simultaneous transmitter combination giving the highest combinated value.

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APPENDIX A: SYSTEM CHECKING SCANS

Plot 1

Date/Time: 2015-01-10 07:38:04

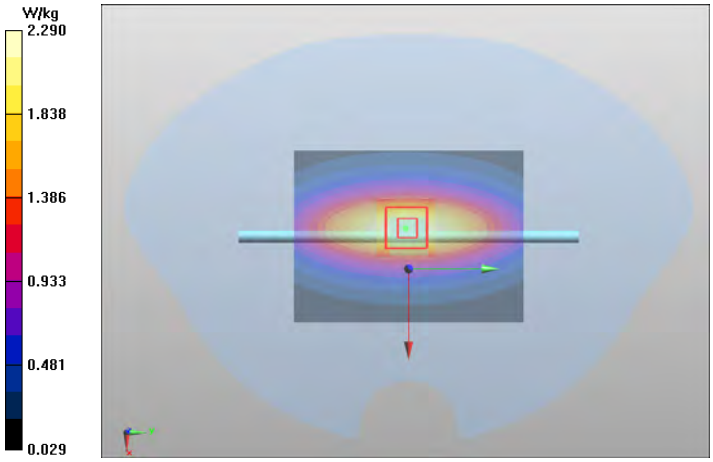
Test Laboratory: TCC Microsoft
Type: D750V3; Serial: D750V3 - SN:1034

Communication System: CW
Frequency: **750 MHz**; Duty Cycle: 1:1
Medium: HSL750; Medium Notes: t= 22,0 C
Medium parameters used: f = 750 MHz; σ = 0.876 S/m; ε_r = 40.223; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(9.14, 9.14, 9.14); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #1 SAM, SAR4; Type: SAM; Serial: TP-1018
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=15mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 48.415 V/m
Fast SAR: SAR(1 g) = 2.01 W/kg
Fast SAR(10 g) = 1.37 W/kg
Maximum value of SAR (interpolated) = 2.29 W/kg

d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 48.415 V/m
Peak SAR (extrapolated) = 2.94 W/kg
SAR(1 g) = 1.99 W/kg
SAR(10 g) = 1.31 W/kg
Power Drift = 0.04 dB
Maximum value of SAR (measured) = 2.32 W/kg



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Plot 2

Date/Time: 2015-01-08 07:22:41

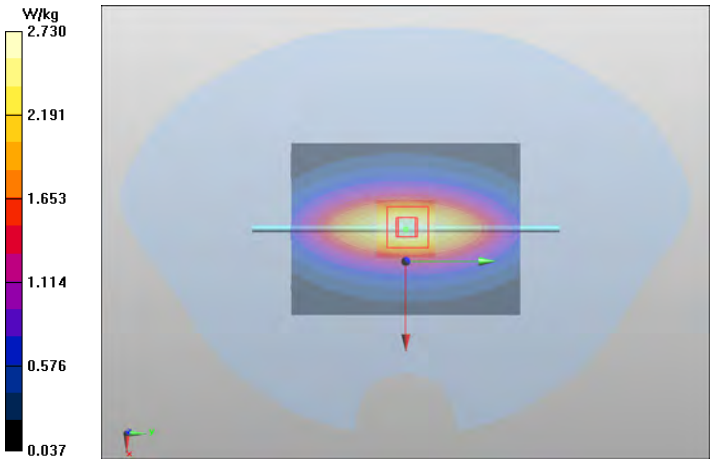
Test Laboratory: TCC Microsoft
Type: D835V2; Serial: D835V2 - SN:462

Communication System: CW
Frequency: **835 MHz**; Duty Cycle: 1:1
Medium: HSL835; Medium Notes: t= 22.2 C
Medium parameters used: f = 835 MHz; σ = 0.917 S/m; ε_r = 41.035; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(6.04, 6.04, 6.04); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1596
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=15mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 53.278 V/m
Fast SAR: SAR(1 g) = 2.38 W/kg
Fast SAR(10 g) = 1.6 W/kg
Maximum value of SAR (interpolated) = 2.73 W/kg

d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 53.278 V/m
Peak SAR (extrapolated) = 3.45 W/kg
SAR(1 g) = 2.33 W/kg
SAR(10 g) = 1.52 W/kg
Power Drift = -0.04 dB
Maximum value of SAR (measured) = 2.72 W/kg



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Plot 3

Date/Time: 2015-01-18 14:46:20

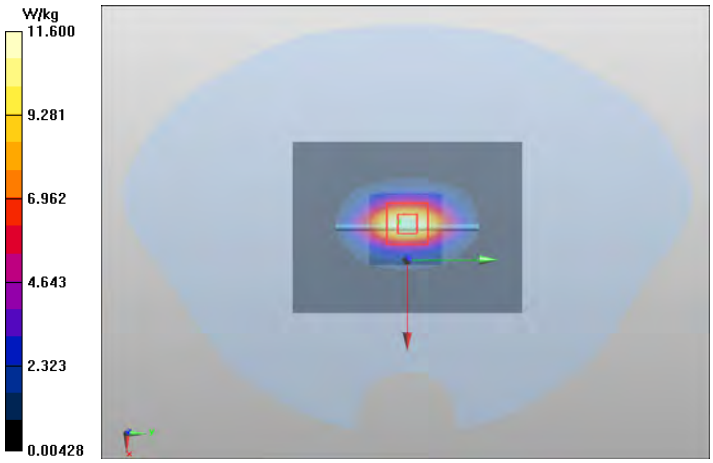
Test Laboratory: TCC Microsoft
Type: D1750V2; Serial: D1750V2 - SN:1083

Communication System: CW
Frequency: **1750 MHz**; Duty Cycle: 1:1
Medium: HSL1750; Medium Notes: t= 22.9 C
Medium parameters used: f = 1750 MHz; σ = 1.333 S/m; ε_r = 39.06; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(5.09, 5.09, 5.09); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: SAM 1; Type: SAM; Serial: TP-1167
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=10mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 88.063 V/m
Fast SAR: SAR(1 g) = 9.27 W/kg
Fast SAR(10 g) = 4.98 W/kg
Maximum value of SAR (interpolated) = 11.6 W/kg

d=10mm, Pin=250mW/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 88.063 V/m
Peak SAR (extrapolated) = 15.9 W/kg
SAR(1 g) = 9.02 W/kg
SAR(10 g) = 4.82 W/kg
Power Drift = -0.05 dB
Maximum value of SAR (measured) = 11.2 W/kg



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Plot 4

Date/Time: 2015-01-08 20:10:30

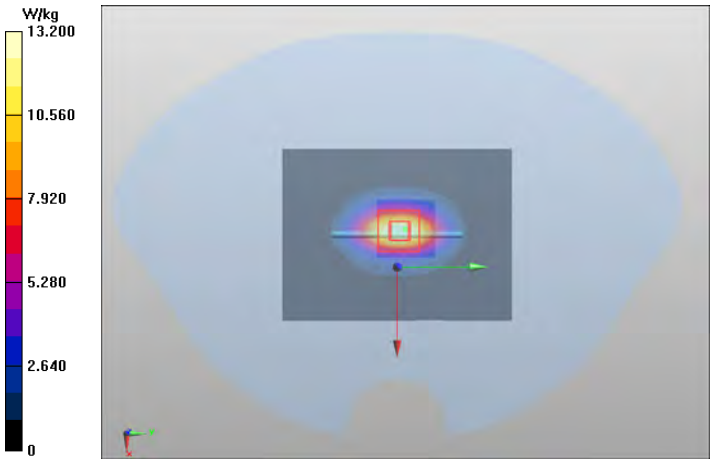
Test Laboratory: TCC Microsoft
Type: D1900V2; Serial: D1900V2 - SN:5d030

Communication System: CW
Frequency: **1900 MHz**; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: t= 21,7C
Medium parameters used: f = 1900 MHz; σ = 1.413 S/m; ε_r = 39.027; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.33, 7.33, 7.33); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=10mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 88.293 V/m
Fast SAR: SAR(1 g) = 10.4 W/kg
Fast SAR(10 g) = 5.36 W/kg
Maximum value of SAR (interpolated) = 13.2 W/kg

d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 88.293 V/m
Peak SAR (extrapolated) = 19.0 W/kg
SAR(1 g) = 10.2 W/kg
SAR(10 g) = 5.3 W/kg
Power Drift = 0.00 dB
Maximum value of SAR (measured) = 12.7 W/kg



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Plot 5

Date/Time: 2015-01-08 08:06:29

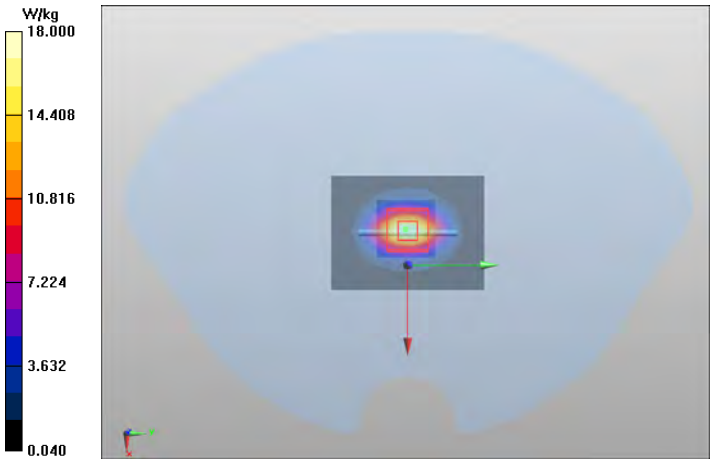
Test Laboratory: TCC Microsoft
Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW
Frequency: **2450 MHz**; Duty Cycle: 1:1
Medium: HSL2450-2600; Medium Notes: t= 21.7 C
Medium parameters used: f = 2450 MHz; σ = 1.843 S/m; ε_r = 38.35; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.25, 4.25, 4.25); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: SAM 2; Type: Twin Phantom GF-VE 20; Serial: TP-1701
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=10mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 93.470 V/m
Fast SAR: SAR(1 g) = 13.6 W/kg
Fast SAR(10 g) = 6.02 W/kg
Maximum value of SAR (interpolated) = 18.0 W/kg

d=10mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 93.470 V/m
Peak SAR (extrapolated) = 27.5 W/kg
SAR(1 g) = 13.5 W/kg
SAR(10 g) = 6.31 W/kg
Power Drift = -0.03 dB
Maximum value of SAR (measured) = 17.8 W/kg



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Plot 6

Date/Time: 2015-01-16 07:54:19

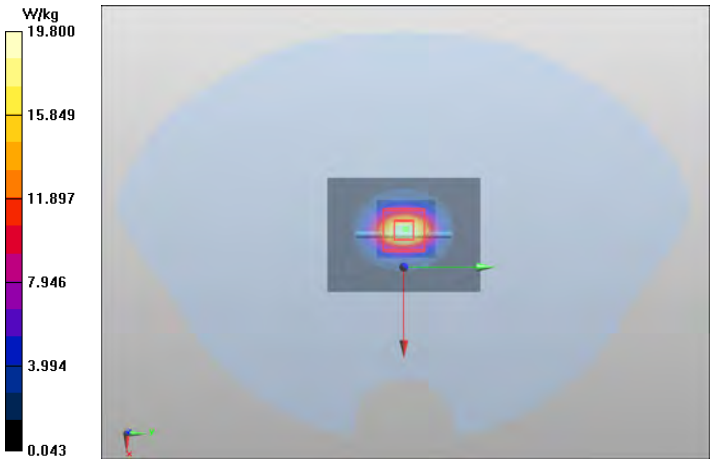
Test Laboratory: TCC Microsoft
Type: D2600V2; Serial: D2600V2 - SN:1009

Communication System: CW
Frequency: **2600 MHz**; Duty Cycle: 1:1
Medium: HSL 2450-2600; Medium Notes: t= 21,7 C
Medium parameters used: f = 2600 MHz; σ = 1.98 S/m; ε_r = 37.308; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.18, 4.18, 4.18); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: SAM 2; Type: Twin Phantom GF-VE 20; Serial: TP-1701
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=10mm, Pin=250mW/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 92.182 V/m
Fast SAR: SAR(1 g) = 14.9 W/kg
Fast SAR(10 g) = 6.71 W/kg
Maximum value of SAR (interpolated) = 19.8 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 92.182 V/m
Peak SAR (extrapolated) = 31.9 W/kg
SAR(1 g) = 14.6 W/kg
SAR(10 g) = 6.5 W/kg
Power Drift = 0.00 dB
Maximum value of SAR (measured) = 19.6 W/kg



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Plot 7

Date/Time: 2015-01-15 06:45:13

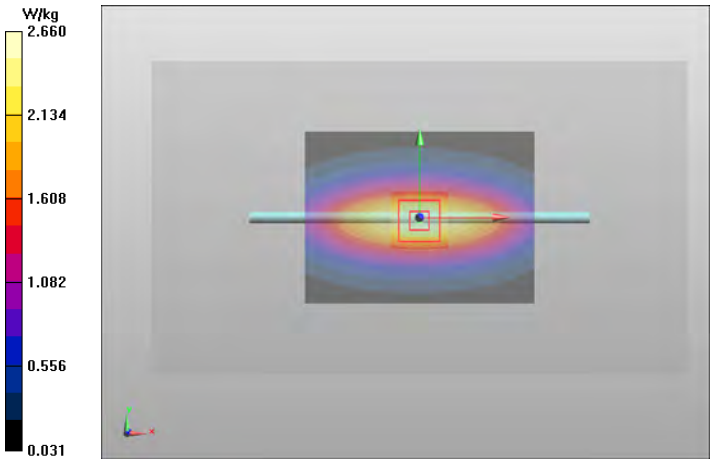
Test Laboratory: TCC Microsoft
Type: D750V3; Serial: D750V3 - SN:1034

Communication System: CW
Frequency: **750 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.1 C
Medium parameters used: f = 750 MHz; σ = 0.968 S/m; ε_r = 53.551; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=15mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 50.657 V/m
Fast SAR: SAR(1 g) = 2.32 W/kg
Fast SAR(10 g) = 1.58 W/kg
Maximum value of SAR (interpolated) = 2.66 W/kg

d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 50.657 V/m
Peak SAR (extrapolated) = 3.32 W/kg
SAR(1 g) = 2.29 W/kg
SAR(10 g) = 1.52 W/kg
Power Drift = 0.01 dB
Maximum value of SAR (measured) = 2.66 W/kg



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Plot 8

Date/Time: 2015-01-17 12:44:47

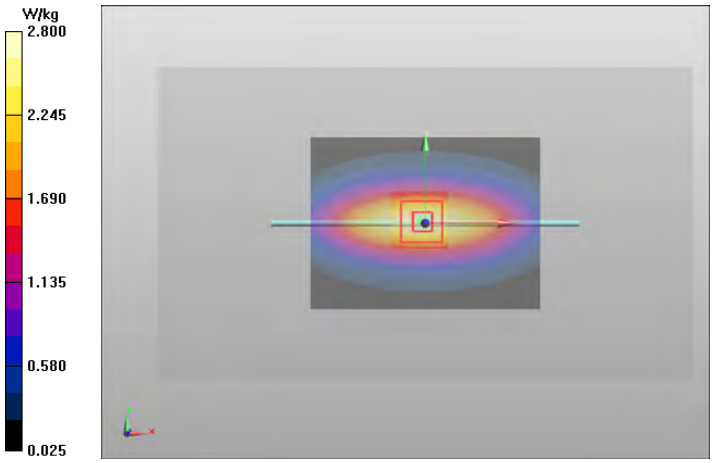
Test Laboratory: TCC Microsoft
Type: D835V2; Serial: D835V2 - SN:462

Communication System: CW
Frequency: **835 MHz**; Duty Cycle: 1:1
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 835 MHz; σ = 0.976 S/m; ε_r = 53.891; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=15mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 52.204 V/m
Fast SAR: SAR(1 g) = 2.44 W/kg
Fast SAR(10 g) = 1.63 W/kg
Maximum value of SAR (interpolated) = 2.80 W/kg

d=15mm, Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 52.204 V/m
Peak SAR (extrapolated) = 3.48 W/kg
SAR(1 g) = 2.4 W/kg
SAR(10 g) = 1.59 W/kg
Power Drift = -0.00 dB
Maximum value of SAR (measured) = 2.79 W/kg



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Plot 9

Date/Time: 2015-01-20 06:32:03

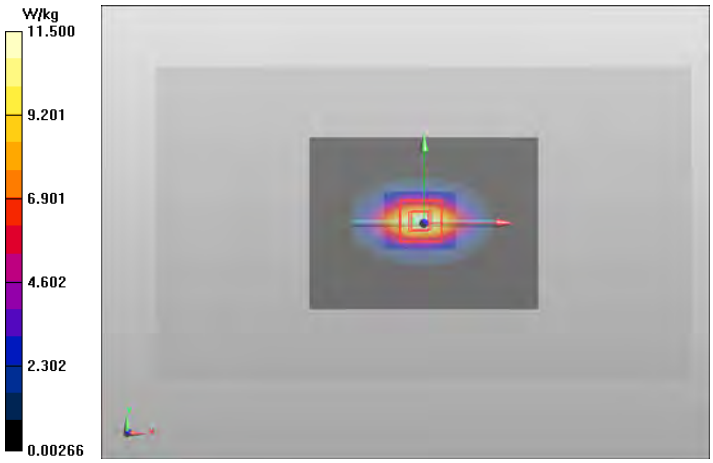
Test Laboratory: TCC Microsoft
Type: D1750V2; Serial: D1750V2 - SN:1083

Communication System: CW
Frequency: **1750 MHz**; Duty Cycle: 1:1
Medium: BSL1750; Medium Notes: t= 23.0 C
Medium parameters used: f = 1750 MHz; σ = 1.447 S/m; ε_r = 52.523; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(4.83, 4.83, 4.83); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: Triple Flat Phantom 5.1C; Type: SN 000 T01 DA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=10mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 84.565 V/m
Fast SAR: SAR(1 g) = 8.99 W/kg
Fast SAR(10 g) = 4.71 W/kg
Maximum value of SAR (interpolated) = 11.5 W/kg

d=10mm, Pin=250mW/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 84.565 V/m
Peak SAR (extrapolated) = 15.2 W/kg
SAR(1 g) = 8.91 W/kg
SAR(10 g) = 4.83 W/kg
Power Drift = 0.04 dB
Maximum value of SAR (measured) = 11.1 W/kg



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Plot 10

Date/Time: 2015-01-08 06:19:11

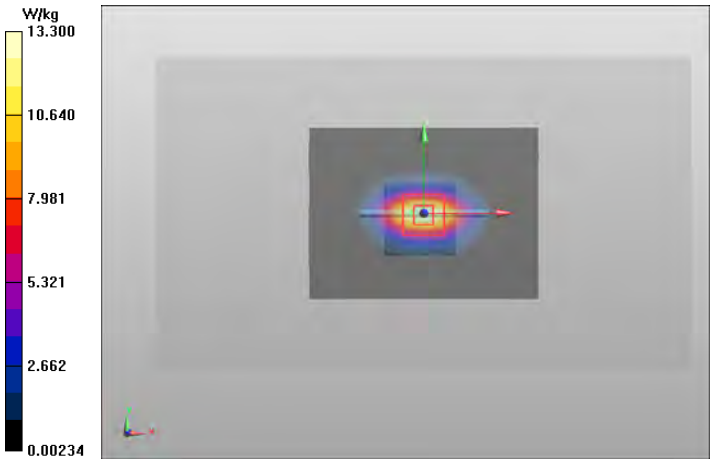
Test Laboratory: TCC Microsoft
Type: D1900V2; Serial: D1900V2 - SN:5d030

Communication System: CW
Frequency: **1900 MHz**; Duty Cycle: 1:1
Medium: BSL1900; Medium Notes: t= 20.7 C
Medium parameters used: f = 1900 MHz; σ = 1.555 S/m; ε_r = 51.975; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=10mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 87.129 V/m
Fast SAR: SAR(1 g) = 10.5 W/kg
Fast SAR(10 g) = 5.29 W/kg
Maximum value of SAR (interpolated) = 13.3 W/kg

d=10mm, Pin=250mW/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 87.129 V/m
Peak SAR (extrapolated) = 18.9 W/kg
SAR(1 g) = 10.5 W/kg
SAR(10 g) = 5.49 W/kg
Power Drift = -0.00 dB
Maximum value of SAR (measured) = 13.3 W/kg



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Plot 11

Date/Time: 2015-01-18 10:42:51

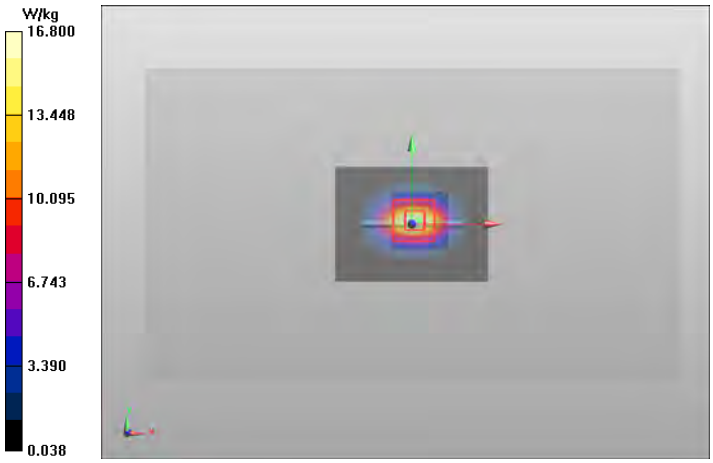
Test Laboratory: TCC Microsoft
Type: D2450V2; Serial: D2450V2 - SN:729

Communication System: CW
Frequency: **2450 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.0 C
Medium parameters used: f = 2450 MHz; σ = 1.91 S/m; ε_r = 50.91; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.03, 4.03, 4.03); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=10mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 87.327 V/m
Fast SAR: SAR(1 g) = 12.5 W/kg
Fast SAR(10 g) = 5.41 W/kg
Maximum value of SAR (interpolated) = 16.8 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 87.327 V/m
Peak SAR (extrapolated) = 25.5 W/kg
SAR(1 g) = 12.6 W/kg
SAR(10 g) = 5.91 W/kg
Power Drift = -0.00 dB
Maximum value of SAR (measured) = 16.4 W/kg



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Plot 12

Date/Time: 2015-01-18 13:01:45

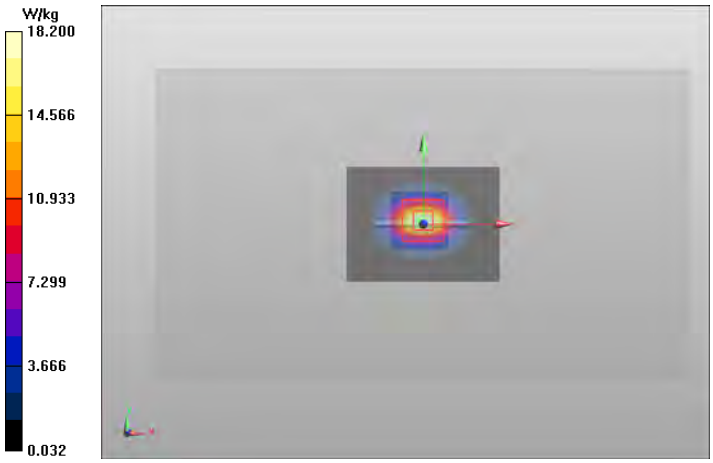
Test Laboratory: TCC Microsoft
Type: D2600V2; Serial: D2600V2 - SN:1009

Communication System: CW
Frequency: **2600 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.0 C
Medium parameters used: f = 2600 MHz; σ = 2.086 S/m; ε_r = 50.518; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(3.93, 3.93, 3.93); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

d=10mm, Pin=250mW/Area Scan (81x61x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 85.938 V/m
Fast SAR: SAR(1 g) = 13.7 W/kg
Fast SAR(10 g) = 6.05 W/kg
Maximum value of SAR (interpolated) = 18.2 W/kg

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 85.938 V/m
Peak SAR (extrapolated) = 29.3 W/kg
SAR(1 g) = 13.5 W/kg
SAR(10 g) = 6.07 W/kg
Power Drift = 0.01 dB
Maximum value of SAR (measured) = 18.0 W/kg



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APPENDIX B: MEASUREMENT SCANS

Plot H1

Date/Time: 2015-01-09 08:45:25

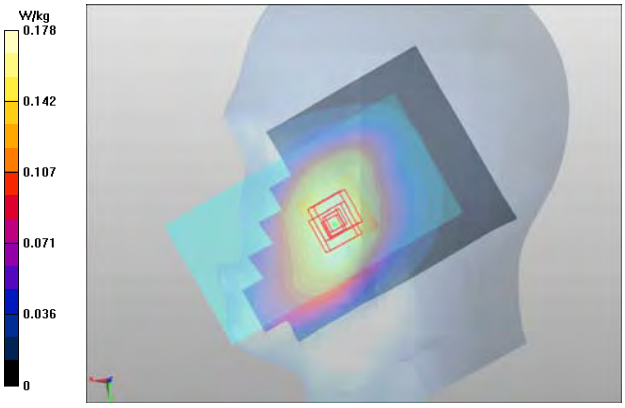
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107064/7, 004402/74/107065/4

Communication System: LTE700 (Band 12)
Frequency: **707.5 MHz**; Duty Cycle: 1:1
Medium: HSL750; Medium Notes: t= 22,0 C
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.863 S/m; ε_r = 41.133; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(9.14, 9.14, 9.14); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #1 SAM, SAR4; Type: SAM; Serial: TP-1018
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 12) - Right/Cheek - CH 23095 - 10MHz - QPSK - 1 RB - Offset 49 - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.360 V/m
Fast SAR: SAR(1 g) = 0.160 W/kg
Fast SAR(10 g) = 0.116 W/kg
Maximum value of SAR (interpolated) = 0.178 W/kg

LTE700 (Band 12) - Right/Cheek - CH 23095 - 10MHz - QPSK - 1 RB - Offset 49 - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.508 V/m
Peak SAR (extrapolated) = 0.203 W/kg
SAR(1 g) = 0.171 W/kg
SAR(10 g) = 0.139 W/kg
Power Drift = -0.12 dB
Maximum value of SAR (measured) = 0.185 W/kg



Copyright © 2015 TCC Microsoft

Plot H2

Date/Time: 2015-01-16 17:19:11

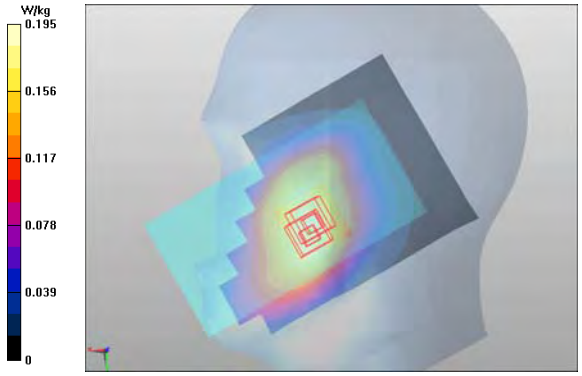
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105142/3

Communication System: LTE700 (Band 12)
Frequency: **707.5 MHz**; Duty Cycle: 1:1
Medium: HSL750; Medium Notes: t= 22,1 C
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.866 S/m; ε_r = 40.359; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(9.14, 9.14, 9.14); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #1 SAM, SAR4; Type: SAM; Serial: TP-1018
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 12) - Right/Cheek - CH 23095 - 10MHz - QPSK - 1 RB - Offset 24 - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.779 V/m
Fast SAR: SAR(1 g) = 0.174 W/kg
Fast SAR(10 g) = 0.126 W/kg
Maximum value of SAR (interpolated) = 0.195 W/kg

LTE700 (Band 12) - Right/Cheek - CH 23095 - 10MHz - QPSK - 1 RB - Offset 24 - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.779 V/m
Peak SAR (extrapolated) = 0.218 W/kg
SAR(1 g) = 0.175 W/kg
SAR(10 g) = 0.141 W/kg
Power Drift = -0.11 dB
Maximum value of SAR (measured) = 0.191 W/kg



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Plot H3

Date/Time: 2015-01-09 10:12:08

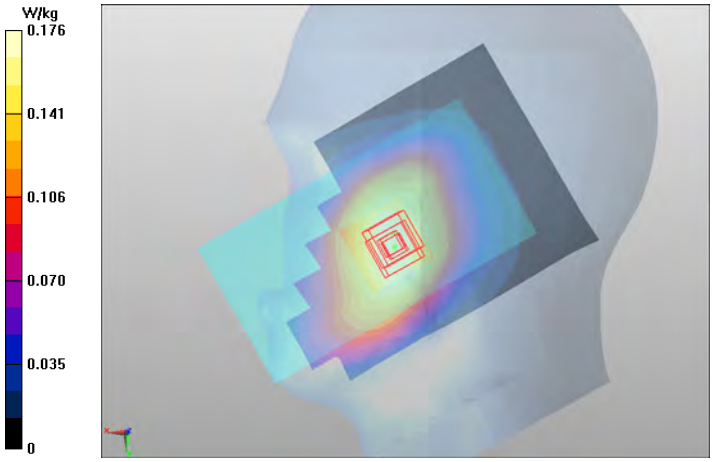
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107064/7, 004402/74/107065/4

Communication System: LTE700 (Band 17)
Frequency: **709 MHz**; Duty Cycle: 1:1
Medium: HSL750; Medium Notes: t= 22,0 C
Medium parameters used: f = 709 MHz; σ = 0.864 S/m; ε_r = 41.124; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(9.14, 9.14, 9.14); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #1 SAM, SAR4; Type: SAM; Serial: TP-1018
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 17) - Right/Cheek - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.351 V/m
Fast SAR: SAR(1 g) = 0.157 W/kg
Fast SAR(10 g) = 0.114 W/kg
Maximum value of SAR (interpolated) = 0.176 W/kg

LTE700 (Band 17) - Right/Cheek - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.454 V/m
Peak SAR (extrapolated) = 0.197 W/kg
SAR(1 g) = 0.166 W/kg
SAR(10 g) = 0.135 W/kg
Power Drift = -0.01 dB
Maximum value of SAR (measured) = 0.172 W/kg



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Plot H4

Date/Time: 2015-01-16 17:42:12

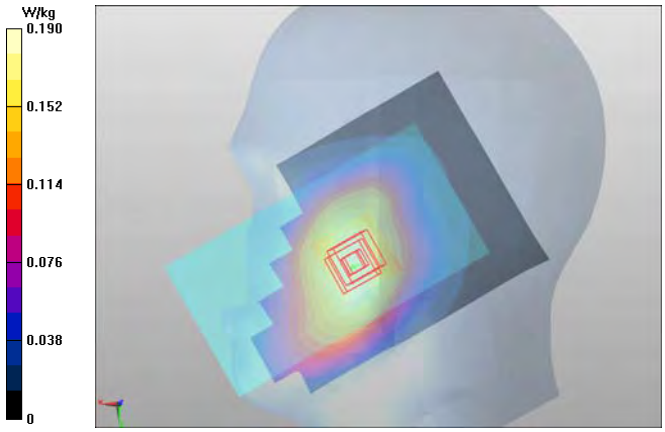
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105142/3

Communication System: LTE700 (Band 17)
Frequency: **709 MHz**; Duty Cycle: 1:1
Medium: HSL750; Medium Notes: t= 22,1 C
Medium parameters used: f = 709 MHz; σ = 0.867 S/m; ε_r = 40.346; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(9.14, 9.14, 9.14); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #1 SAM, SAR4; Type: SAM; Serial: TP-1018
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 17) - Right/Cheek - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.465 V/m
Fast SAR: SAR(1 g) = 0.169 W/kg
Fast SAR(10 g) = 0.122 W/kg
Maximum value of SAR (interpolated) = 0.190 W/kg

LTE700 (Band 17) - Right/Cheek - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.465 V/m
Peak SAR (extrapolated) = 0.209 W/kg
SAR(1 g) = 0.171 W/kg
SAR(10 g) = 0.138 W/kg
Power Drift = -0.03 dB
Maximum value of SAR (measured) = 0.182 W/kg



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Plot H5

Date/Time: 2015-01-08 09:07:47

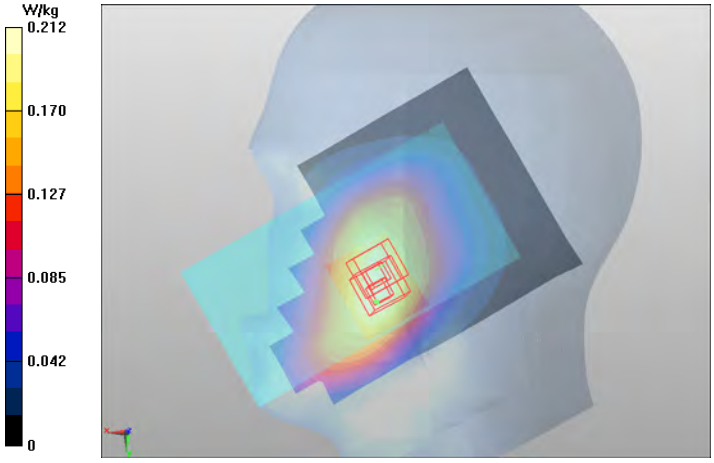
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107064/7, 004402/74/107065/4

Communication System: LTE700 (Band 28b)
Frequency: **725.5 MHz**; Duty Cycle: 1:1
Medium: HSL750; Medium Notes: t= 22,0 C
Medium parameters used (interpolated): f = 725.5 MHz; σ = 0.872 S/m; ε_r = 40.734; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(9.14, 9.14, 9.14); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #1 SAM, SAR4; Type: SAM; Serial: TP-1018
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 28a_b) - Right/Cheek - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.481 V/m
Fast SAR: SAR(1 g) = 0.187 W/kg
Fast SAR(10 g) = 0.135 W/kg
Maximum value of SAR (interpolated) = 0.212 W/kg

LTE700 (Band 28a_b) - Right/Cheek - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - Antenna 1/Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.304 V/m
Peak SAR (extrapolated) = 0.228 W/kg
SAR(1 g) = 0.184 W/kg
SAR(10 g) = 0.146 W/kg
Power Drift = -0.00 dB
Maximum value of SAR (measured) = 0.200 W/kg



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Plot H6

Date/Time: 2015-01-16 19:51:50

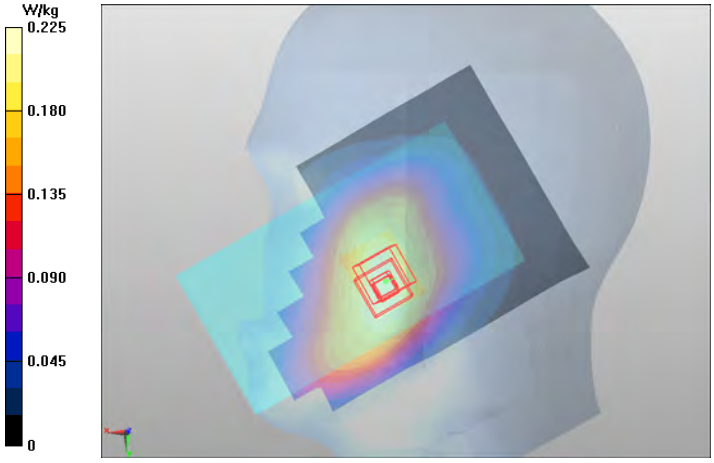
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105142/3

Communication System: LTE700 (Band 28b)
Frequency: **725.5 MHz**; Duty Cycle: 1:1
Medium: HSL750; Medium Notes: t= 22,1 C
Medium parameters used (interpolated): f = 725.5 MHz; σ = 0.876 S/m; ε_r = 40.194; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(9.14, 9.14, 9.14); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #1 SAM, SAR4; Type: SAM; Serial: TP-1018
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 28a_b) - Right/Cheek - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.851 V/m
Fast SAR: SAR(1 g) = 0.200 W/kg
Fast SAR(10 g) = 0.144 W/kg
Maximum value of SAR (interpolated) = 0.225 W/kg

LTE700 (Band 28a_b) - Right/Cheek - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - Antenna 1/Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.851 V/m
Peak SAR (extrapolated) = 0.249 W/kg
SAR(1 g) = 0.201 W/kg
SAR(10 g) = 0.158 W/kg
Power Drift = 0.09 dB
Maximum value of SAR (measured) = 0.219 W/kg



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Plot H7

Date/Time: 2015-01-08 14:17:17

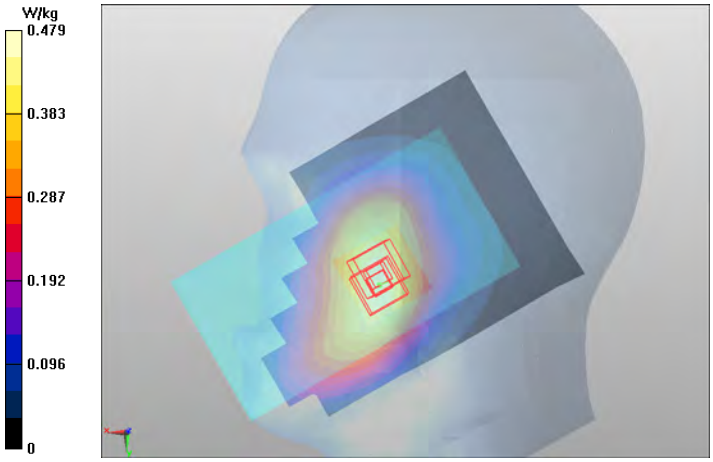
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107172/8, 004402/74/107173/6

Communication System: 2-slot GPRS850
Frequency: **848.8 MHz**; Duty Cycle: 1:4.19952
Medium: HSL835; Medium Notes: t= 22.2 C
Medium parameters used: f = 849 MHz; σ = 0.926 S/m; ε_r = 40.956; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(6.04, 6.04, 6.04); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1596
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

2-slot GPRS850 - Right/Cheek - CH 251 - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.074 V/m
Fast SAR: SAR(1 g) = 0.420 W/kg
Fast SAR(10 g) = 0.294 W/kg
Maximum value of SAR (interpolated) = 0.479 W/kg

2-slot GPRS850 - Right/Cheek - CH 251 - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.075 V/m
Peak SAR (extrapolated) = 0.543 W/kg
SAR(1 g) = 0.427 W/kg
SAR(10 g) = 0.331 W/kg
Power Drift = -0.04 dB
Maximum value of SAR (measured) = 0.468 W/kg



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Plot H8

Date/Time: 2015-01-16 10:42:28

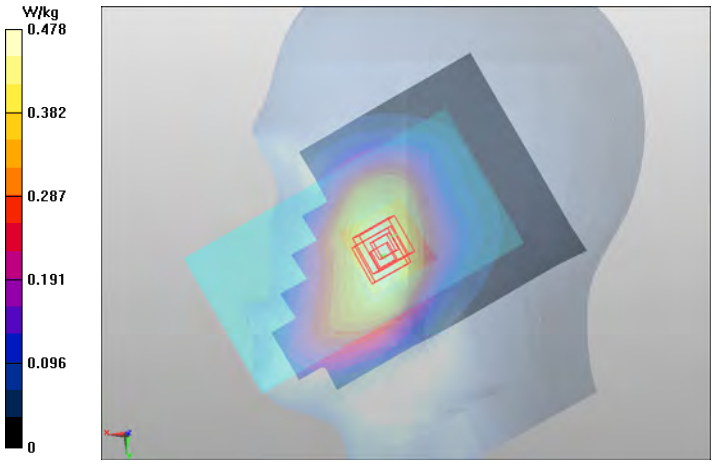
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105151/4

Communication System: 2-slot GPRS850
Frequency: **848.8 MHz**; Duty Cycle: 1:4.19952
Medium: HSL835; Medium Notes: t= 21.9 C
Medium parameters used: f = 849 MHz; σ = 0.907 S/m; ε_r = 40.144; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(6.04, 6.04, 6.04); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1596
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

2-slot GPRS850 - Right/Cheek - CH 251 - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.610 V/m
Fast SAR: SAR(1 g) = 0.420 W/kg
Fast SAR(10 g) = 0.296 W/kg
Maximum value of SAR (interpolated) = 0.478 W/kg

2-slot GPRS850 - Right/Cheek - CH 251 - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.610 V/m
Peak SAR (extrapolated) = 0.540 W/kg
SAR(1 g) = 0.426 W/kg
SAR(10 g) = 0.329 W/kg
Power Drift = -0.20 dB
Maximum value of SAR (measured) = 0.463 W/kg



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Plot H9

Date/Time: 2015-01-09 09:32:42

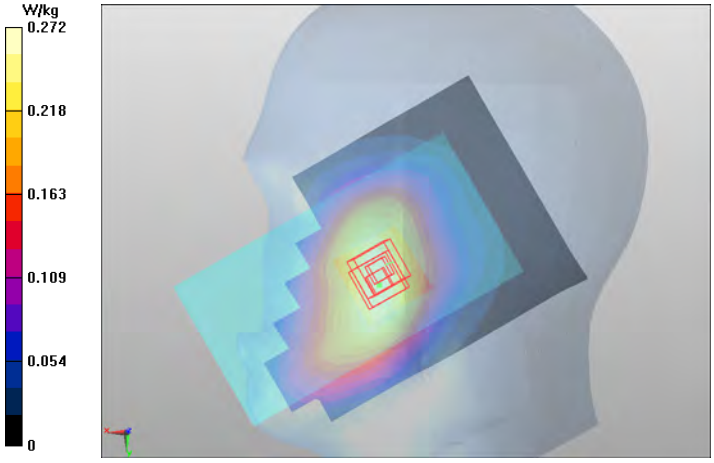
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107172/8, 004402/74/107173/6

Communication System: WCDMA850 (Band 5)
Frequency: **835 MHz**; Duty Cycle: 1:1
Medium: HSL835; Medium Notes: t= 22.3 C
Medium parameters used: f = 835 MHz; σ = 0.909 S/m; ε_r = 40.553; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(6.04, 6.04, 6.04); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1596
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA850 (Band 5) - Right/Cheek - CH 4175 - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.834 V/m
Fast SAR: SAR(1 g) = 0.240 W/kg
Fast SAR(10 g) = 0.170 W/kg
Maximum value of SAR (interpolated) = 0.272 W/kg

WCDMA850 (Band 5) - Right/Cheek - CH 4175 - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.354 V/m
Peak SAR (extrapolated) = 0.293 W/kg
SAR(1 g) = 0.236 W/kg
SAR(10 g) = 0.184 W/kg
Power Drift = 0.01 dB
Maximum value of SAR (measured) = 0.255 W/kg



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Plot H10

Date/Time: 2015-01-16 11:33:14

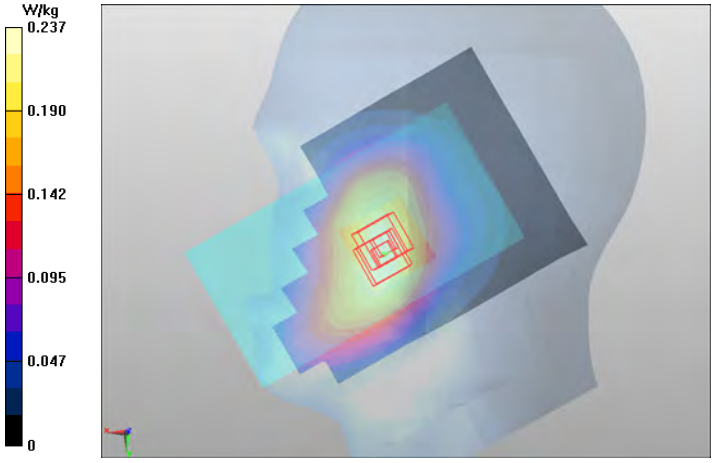
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105151/4

Communication System: WCDMA850 (Band 5)
Frequency: **835 MHz**; Duty Cycle: 1:1
Medium: HSL835; Medium Notes: t= 21.9 C
Medium parameters used: f = 835 MHz; σ = 0.898 S/m; ε_r = 40.246; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(6.04, 6.04, 6.04); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1596
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA850 (Band 5) - Right/Cheek - CH 4175 - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.730 V/m
Fast SAR: SAR(1 g) = 0.209 W/kg
Fast SAR(10 g) = 0.148 W/kg
Maximum value of SAR (interpolated) = 0.237 W/kg

WCDMA850 (Band 5) - Right/Cheek - CH 4175 - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.730 V/m
Peak SAR (extrapolated) = 0.273 W/kg
SAR(1 g) = 0.215 W/kg
SAR(10 g) = 0.166 W/kg
Power Drift = 0.04 dB
Maximum value of SAR (measured) = 0.235 W/kg



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Plot H11

Date/Time: 2015-01-10 08:58:07

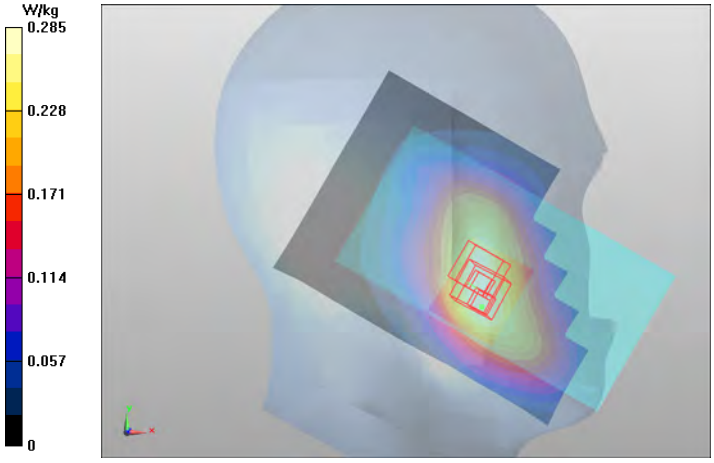
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107172/8, 004402/74/107173/6

Communication System: LTE850 (Band 5)
Frequency: **829 MHz**; Duty Cycle: 1:1
Medium: HSL835; Medium Notes: t= 22.0 C
Medium parameters used: f = 829 MHz; σ = 0.906 S/m; ε_r = 40.672; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(6.04, 6.04, 6.04); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1596
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE850 (Band 5) - Left/Cheek - CH 20450 - 10MHz - QPSK - 1 RB - Offset 24 - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.174 V/m
Fast SAR: SAR(1 g) = 0.249 W/kg
Fast SAR(10 g) = 0.177 W/kg
Maximum value of SAR (interpolated) = 0.285 W/kg

LTE850 (Band 5) - Left/Cheek - CH 20450 - 10MHz - QPSK - 1 RB - Offset 24 - Antenna 2/Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.120 V/m
Peak SAR (extrapolated) = 0.333 W/kg
SAR(1 g) = 0.254 W/kg
SAR(10 g) = 0.193 W/kg
Power Drift = -0.00 dB
Maximum value of SAR (measured) = 0.280 W/kg



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Plot H12

Date/Time: 2015-01-16 13:12:15

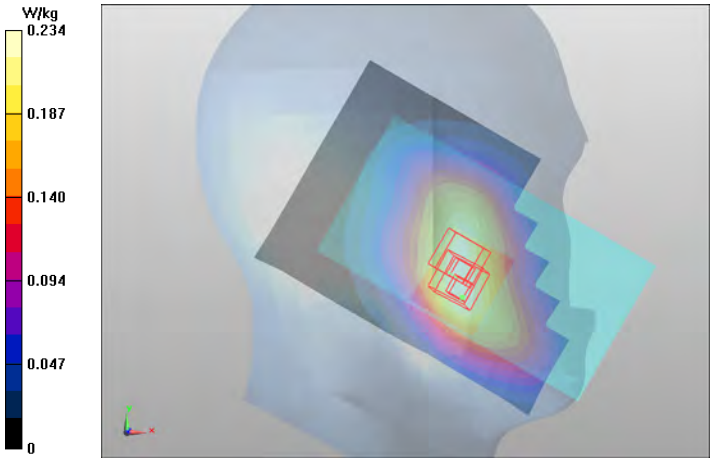
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105151/4

Communication System: LTE850 (Band 5)
Frequency: **829 MHz**; Duty Cycle: 1:1
Medium: HSL835; Medium Notes: t= 21.9 C
Medium parameters used: f = 829 MHz; σ = 0.895 S/m; ε_r = 40.294; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(6.04, 6.04, 6.04); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1596
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE850 (Band 5) - Left/Cheek - CH 20450 - 10MHz - QPSK - 1 RB - Offset 0 - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.414 V/m
Fast SAR: SAR(1 g) = 0.205 W/kg
Fast SAR(10 g) = 0.146 W/kg
Maximum value of SAR (interpolated) = 0.234 W/kg

LTE850 (Band 5) - Left/Cheek - CH 20450 - 10MHz - QPSK - 1 RB - Offset 0 - Antenna 2/Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.414 V/m
Peak SAR (extrapolated) = 0.275 W/kg
SAR(1 g) = 0.214 W/kg
SAR(10 g) = 0.164 W/kg
Power Drift = 0.04 dB
Maximum value of SAR (measured) = 0.236 W/kg



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Plot H13

Date/Time: 2015-01-12 10:52:31

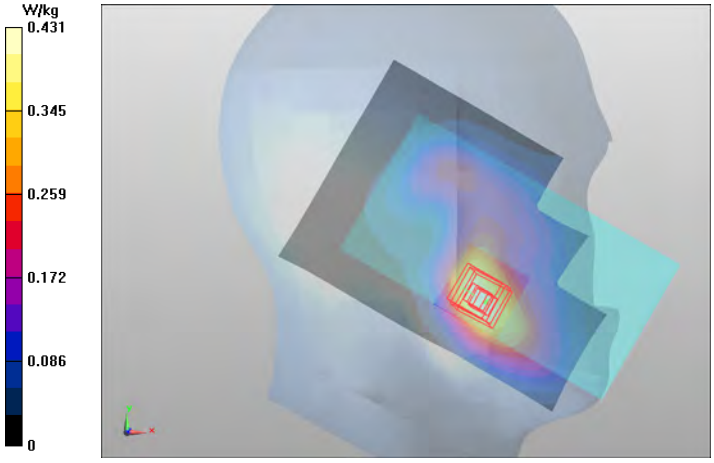
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107070/4, 004402/74/107071/2

Communication System: WCDMA1700/2100 (Band 4)
Frequency: **1752.6 MHz**; Duty Cycle: 1:1
Medium: HSL1750; Medium Notes: t= 22.2 C
Medium parameters used: f = 1753 MHz; σ = 1.317 S/m; ε_r = 39.185; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(5.09, 5.09, 5.09); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: SAM 1; Type: SAM; Serial: TP-1167
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA 1700_2100 (Band 4) - Left/Cheek - CH 1513 - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.706 V/m
Fast SAR: SAR(1 g) = 0.357 W/kg
Fast SAR(10 g) = 0.215 W/kg
Maximum value of SAR (interpolated) = 0.431 W/kg

WCDMA 1700_2100 (Band 4) - Left/Cheek - CH 1513 - Antenna 2/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.768 V/m
Peak SAR (extrapolated) = 0.500 W/kg
SAR(1 g) = 0.344 W/kg
SAR(10 g) = 0.227 W/kg
Power Drift = -0.03 dB
Maximum value of SAR (measured) = 0.397 W/kg



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Plot H14

Date/Time: 2015-01-18 15:56:15

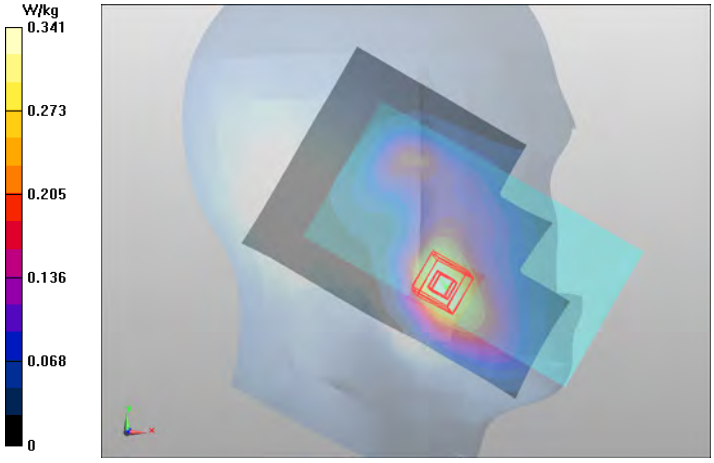
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105143/1

Communication System: WCDMA1700/2100 (Band 4)
Frequency: **1752.6 MHz**; Duty Cycle: 1:1
Medium: HSL1750; Medium Notes: t= 22.9 C
Medium parameters used: f = 1753 MHz; σ = 1.336 S/m; ε_r = 39.051; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(5.09, 5.09, 5.09); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: SAM 1; Type: SAM; Serial: TP-1167
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1700_2100 (Band 4) - Left/Cheek - CH 1513 - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.001 V/m
Fast SAR: SAR(1 g) = 0.285 W/kg
Fast SAR(10 g) = 0.172 W/kg
Maximum value of SAR (interpolated) = 0.341 W/kg

WCDMA1700_2100 (Band 4) - Left/Cheek - CH 1513 - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.001 V/m
Peak SAR (extrapolated) = 0.416 W/kg
SAR(1 g) = 0.289 W/kg
SAR(10 g) = 0.190 W/kg
Power Drift = 0.10 dB
Maximum value of SAR (measured) = 0.328 W/kg



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Plot H15

Date/Time: 2015-01-13 10:51:06

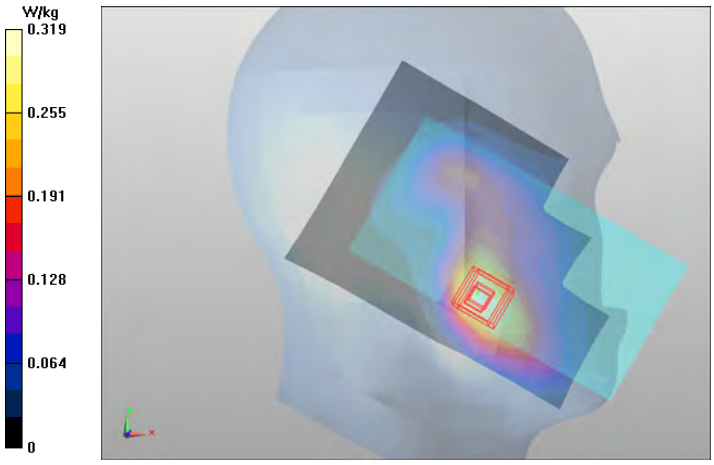
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107070/4, 004402/74/107071/2

Communication System: LTE1700/2100 (Band 4)
Frequency: **1720 MHz**; Duty Cycle: 1:1
Medium: HSL1750; Medium Notes: t= 22.3 C
Medium parameters used: f = 1720 MHz; σ = 1.289 S/m; ε_r = 39.409; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(5.09, 5.09, 5.09); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: SAM 1; Type: SAM; Serial: TP-1167
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1700_2100 (Band 4) - Left/Cheek - CH 20050 - 20MHz - QPSK - 1 RB - Offset 0 - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.753 V/m
Fast SAR: SAR(1 g) = 0.263 W/kg
Fast SAR(10 g) = 0.161 W/kg
Maximum value of SAR (interpolated) = 0.319 W/kg

LTE1700_2100 (Band 4) - Left/Cheek - CH 20050 - 20MHz - QPSK - 1 RB - Offset 0 - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.819 V/m
Peak SAR (extrapolated) = 0.404 W/kg
SAR(1 g) = 0.274 W/kg
SAR(10 g) = 0.181 W/kg
Power Drift = -0.01 dB
Maximum value of SAR (measured) = 0.312 W/kg



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Plot H16

Date/Time: 2015-01-18 15:36:21

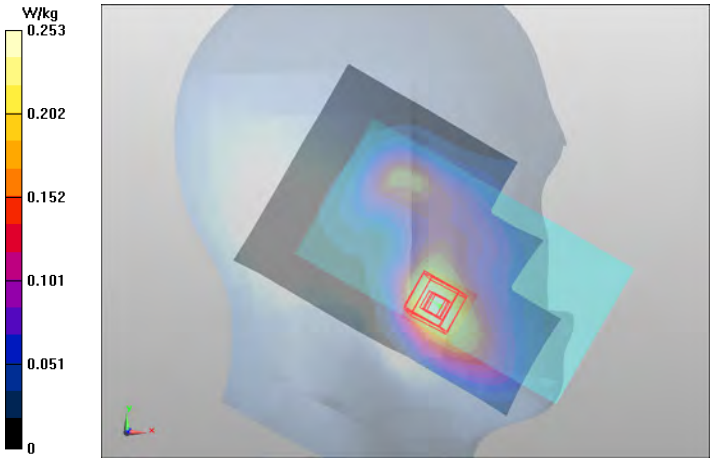
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105143/1

Communication System: LTE1700/2100 (Band 4)
Frequency: **1720 MHz**; Duty Cycle: 1:1
Medium: HSL1750; Medium Notes: t= 22.9 C
Medium parameters used: f = 1720 MHz; σ = 1.303 S/m; ε_r = 39.175; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(5.09, 5.09, 5.09); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: SAM 1; Type: SAM; Serial: TP-1167
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1700_2100 (Band 4) - Left/Cheek - CH 20050 - 20MHz - QPSK - 1 RB - Offset 0 - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.292 V/m
Fast SAR: SAR(1 g) = 0.211 W/kg
Fast SAR(10 g) = 0.128 W/kg
Maximum value of SAR (interpolated) = 0.253 W/kg

LTE1700_2100 (Band 4) - Left/Cheek - CH 20050 - 20MHz - QPSK - 1 RB - Offset 0 - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.292 V/m
Peak SAR (extrapolated) = 0.303 W/kg
SAR(1 g) = 0.213 W/kg
SAR(10 g) = 0.142 W/kg
Power Drift = 0.04 dB
Maximum value of SAR (measured) = 0.240 W/kg



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Plot H17

Date/Time: 2015-01-15 07:05:49

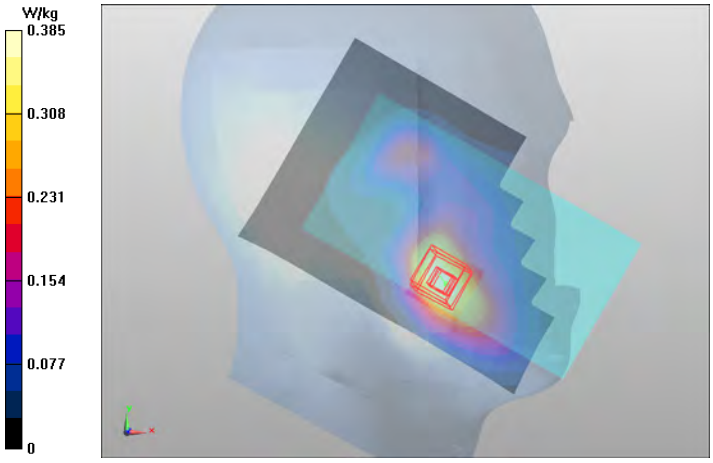
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107078/7, 004402/74/107079/5

Communication System: 3-slot GPRS1900
Frequency: **1850.2 MHz**; Duty Cycle: 1:2.80027
Medium: HSL1900; Medium Notes: t= 20,9 C
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.315 S/m; ε_r = 38.909; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.33, 7.33, 7.33); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

3-slot GPRS1900 - Left/Cheek - CH 512 - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.127 V/m
Fast SAR: SAR(1 g) = 0.318 W/kg
Fast SAR(10 g) = 0.188 W/kg
Maximum value of SAR (interpolated) = 0.385 W/kg

3-slot GPRS1900 - Left/Cheek - CH 512 - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.127 V/m
Peak SAR (extrapolated) = 0.473 W/kg
SAR(1 g) = 0.320 W/kg
SAR(10 g) = 0.208 W/kg
Power Drift = 0.13 dB
Maximum value of SAR (measured) = 0.367 W/kg



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Plot H18

Date/Time: 2015-01-17 12:43:13

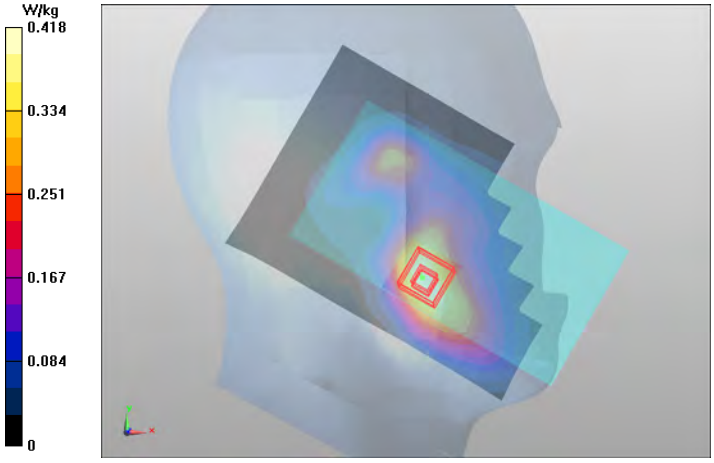
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105144/9

Communication System: 4-slot GPRS1900
Frequency: **1850.2 MHz**; Duty Cycle: 1:2.09991
Medium: HSL1900; Medium Notes: t= 20.9 C
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.343 S/m; ε_r = 38.916; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.33, 7.33, 7.33); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

4-slot GPRS1900 - Left/Cheek - CH 512 - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.794 V/m
Fast SAR: SAR(1 g) = 0.343 W/kg
Fast SAR(10 g) = 0.206 W/kg
Maximum value of SAR (interpolated) = 0.418 W/kg

4-slot GPRS1900 - Left/Cheek - CH 512 - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.794 V/m
Peak SAR (extrapolated) = 0.510 W/kg
SAR(1 g) = 0.350 W/kg
SAR(10 g) = 0.232 W/kg
Power Drift = 0.03 dB
Maximum value of SAR (measured) = 0.403 W/kg



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Plot H19

Date/Time: 2015-01-08 22:18:23

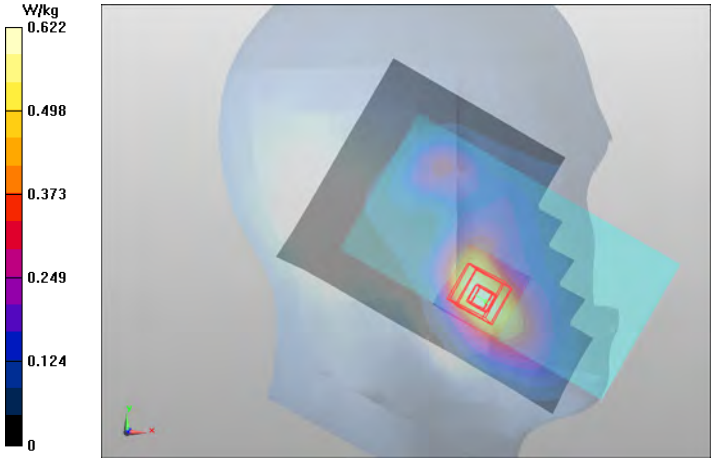
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107166/0, 004402/74/107167/8

Communication System: WCDMA1900 (Band 2)
Frequency: **1907.6 MHz**; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: t= 21,7C
Medium parameters used: f = 1908 MHz; σ = 1.421 S/m; ε_r = 38.987; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.33, 7.33, 7.33); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1900 (Band 2) - Left/Cheek - CH 9538 - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.407 V/m
Fast SAR: SAR(1 g) = 0.504 W/kg
Fast SAR(10 g) = 0.292 W/kg
Maximum value of SAR (interpolated) = 0.622 W/kg

WCDMA1900 (Band 2) - Left/Cheek - CH 9538 - Antenna 2/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.410 V/m
Peak SAR (extrapolated) = 0.785 W/kg
SAR(1 g) = 0.507 W/kg
SAR(10 g) = 0.320 W/kg
Power Drift = 0.01 dB
Maximum value of SAR (measured) = 0.594 W/kg



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Plot H20

Date/Time: 2015-01-17 11:21:07

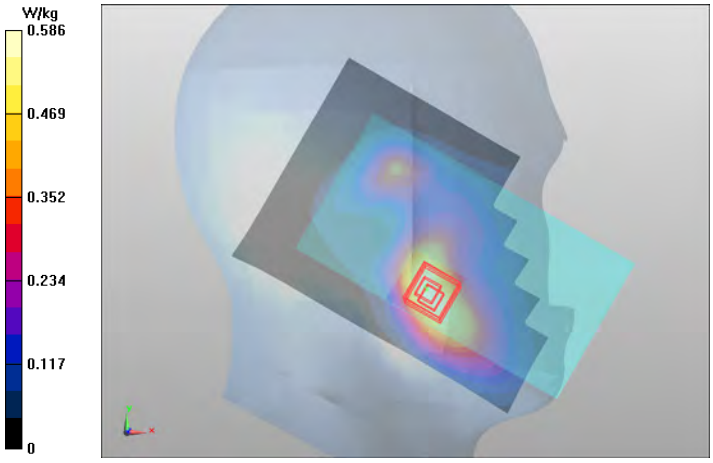
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105144/9

Communication System: WCDMA1900 (Band 2)
Frequency: **1907.6 MHz**; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: t= 20.9 C
Medium parameters used: f = 1908 MHz; σ = 1.397 S/m; ε_r = 38.684; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.33, 7.33, 7.33); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1900 (Band 2) - Left/Cheek - CH 9538 - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.823 V/m
Fast SAR: SAR(1 g) = 0.475 W/kg
Fast SAR(10 g) = 0.279 W/kg
Maximum value of SAR (interpolated) = 0.586 W/kg

WCDMA1900 (Band 2) - Left/Cheek - CH 9538 - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.637 V/m
Peak SAR (extrapolated) = 0.705 W/kg
SAR(1 g) = 0.472 W/kg
SAR(10 g) = 0.306 W/kg
Power Drift = 0.00 dB
Maximum value of SAR (measured) = 0.538 W/kg



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Plot H21

Date/Time: 2015-01-09 09:32:00

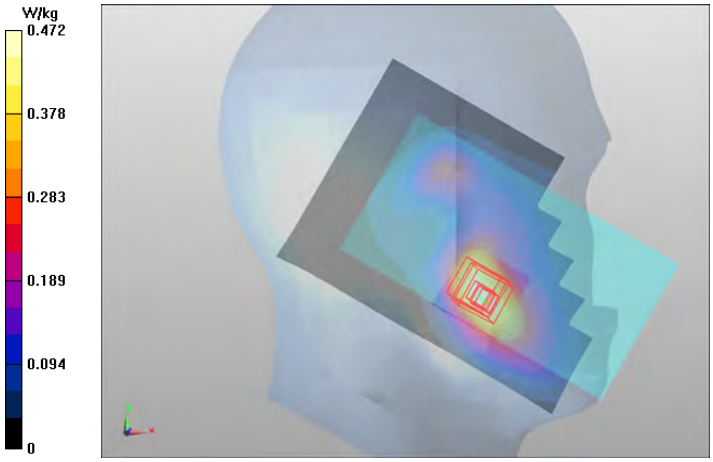
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107166/0, 004402/74/107167/8

Communication System: LTE1900 (Band 2)
Frequency: **1900 MHz**; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: t= 21,7C
Medium parameters used: f = 1900 MHz; σ = 1.413 S/m; ε_r = 39.027; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.33, 7.33, 7.33); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1900 (Band 2) - Left/Cheek - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.685 V/m
Fast SAR: SAR(1 g) = 0.382 W/kg
Fast SAR(10 g) = 0.222 W/kg
Maximum value of SAR (interpolated) = 0.472 W/kg

LTE1900 (Band 2) - Left/Cheek - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - Antenna 2/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.148 V/m
Peak SAR (extrapolated) = 0.603 W/kg
SAR(1 g) = 0.400 W/kg
SAR(10 g) = 0.258 W/kg
Power Drift = 0.01 dB
Maximum value of SAR (measured) = 0.462 W/kg



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Plot H22

Date/Time: 2015-01-17 11:01:29

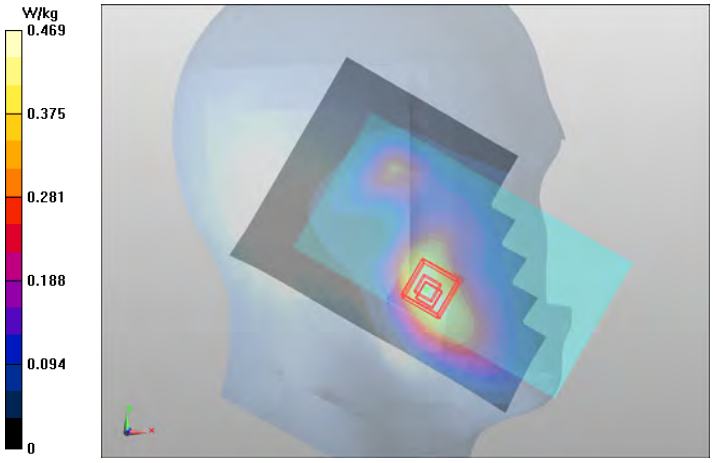
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105144/9

Communication System: LTE1900 (Band 2)
Frequency: **1900 MHz**; Duty Cycle: 1:1
Medium: HSL1900; Medium Notes: t= 20.9 C
Medium parameters used: f = 1900 MHz; σ = 1.39 S/m; ε_r = 38.71; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.33, 7.33, 7.33); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1900 (Band 2) - Left/Cheek - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.167 V/m
Fast SAR: SAR(1 g) = 0.383 W/kg
Fast SAR(10 g) = 0.227 W/kg
Maximum value of SAR (interpolated) = 0.469 W/kg

LTE1900 (Band 2) - Left/Cheek - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.167 V/m
Peak SAR (extrapolated) = 0.574 W/kg
SAR(1 g) = 0.386 W/kg
SAR(10 g) = 0.252 W/kg
Power Drift = 0.06 dB
Maximum value of SAR (measured) = 0.445 W/kg



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Plot H23

Date/Time: 2015-01-15 08:40:50

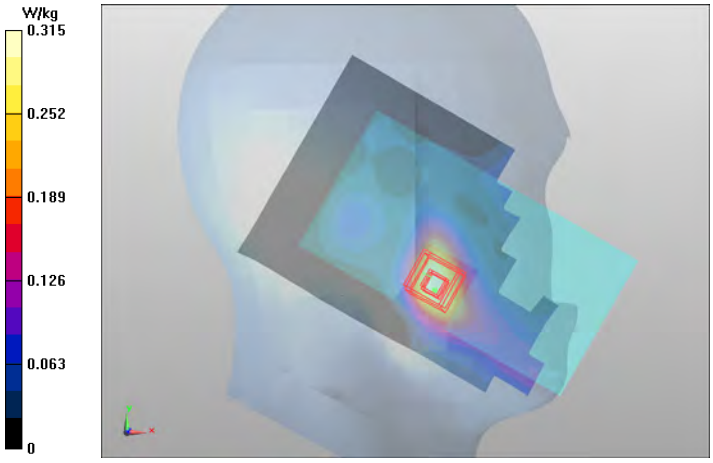
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107068/8, 004402/74/107069/6

Communication System: LTE2500 (Band 7)
Frequency: **2535 MHz**; Duty Cycle: 1:1
Medium: HSL 2450-2600; Medium Notes: t= 22,5 C
Medium parameters used: f = 2535 MHz; σ = 1.868 S/m; ε_r = 37.97; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.18, 4.18, 4.18); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: SAM 2; Type: Twin Phantom GF-VE 20; Serial: TP-1701
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE2500 (Band 7) - Left/Cheek - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - Antenna 2/Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 10.919 V/m
Fast SAR: SAR(1 g) = 0.247 W/kg
Fast SAR(10 g) = 0.133 W/kg
Maximum value of SAR (interpolated) = 0.315 W/kg

LTE2500 (Band 7) - Left/Cheek - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - Antenna 2/Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.355 V/m
Peak SAR (extrapolated) = 0.452 W/kg
SAR(1 g) = 0.270 W/kg
SAR(10 g) = 0.149 W/kg
Power Drift = 0.05 dB
Maximum value of SAR (measured) = 0.325 W/kg



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Plot H24

Date/Time: 2015-01-15 16:55:10

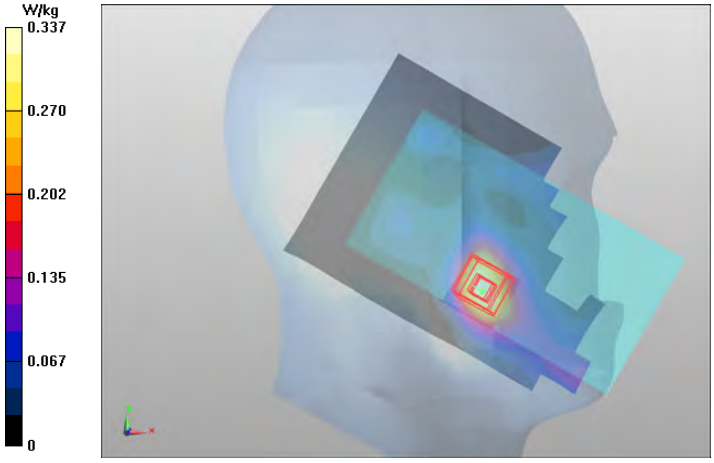
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105149/8

Communication System: LTE2500 (Band 7)
Frequency: **2535 MHz**; Duty Cycle: 1:1
Medium: HSL 2450-2600; Medium Notes: t= 22,5 C
Medium parameters used: f = 2535 MHz; σ = 1.868 S/m; ε_r = 37.97; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.18, 4.18, 4.18); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: SAM 2; Type: Twin Phantom GF-VE 20; Serial: TP-1701
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE2500 (Band 7) - Left/Cheek - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - Antenna 2/Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 11.066 V/m
Fast SAR: SAR(1 g) = 0.261 W/kg
Fast SAR(10 g) = 0.139 W/kg
Maximum value of SAR (interpolated) = 0.337 W/kg

LTE2500 (Band 7) - Left/Cheek - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - Antenna 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.066 V/m
Peak SAR (extrapolated) = 0.461 W/kg
SAR(1 g) = 0.272 W/kg
SAR(10 g) = 0.148 W/kg
Power Drift = 0.00 dB
Maximum value of SAR (measured) = 0.331 W/kg



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Plot H25

Date/Time: 2015-01-07 15:36:22

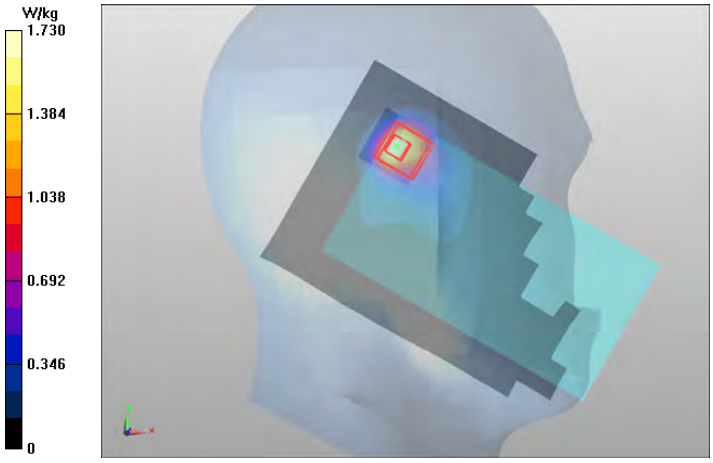
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107080/3, 04402/74/107081/1

Communication System: WLAN2450
Frequency: **2462 MHz**; Duty Cycle: 1:1
Medium: HSL2450-2600; Medium Notes: t= 22.4 C
Medium parameters used: f = 2462 MHz; σ = 1.821 S/m; ε_r = 38.66; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.25, 4.25, 4.25); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: SAM 2; Type: Twin Phantom GF-VE 20; Serial: TP-1701
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WLAN2450 b-mode - Left/Cheek - CH 11 - BPSK 1 Mbps - Repeated/Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 28.669 V/m
Fast SAR: SAR(1 g) = 1.15 W/kg
Fast SAR(10 g) = 0.539 W/kg
Maximum value of SAR (interpolated) = 1.73 W/kg

WLAN2450 b-mode - Left/Cheek - CH 11 - BPSK 1 Mbps - Repeated/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.669 V/m
Peak SAR (extrapolated) = 2.56 W/kg
SAR(1 g) = 1.14 W/kg
SAR(10 g) = 0.558 W/kg
Power Drift = 0.14 dB
Maximum value of SAR (measured) = 1.43 W/kg



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Plot H26

Date/Time: 2015-01-08 08:52:20

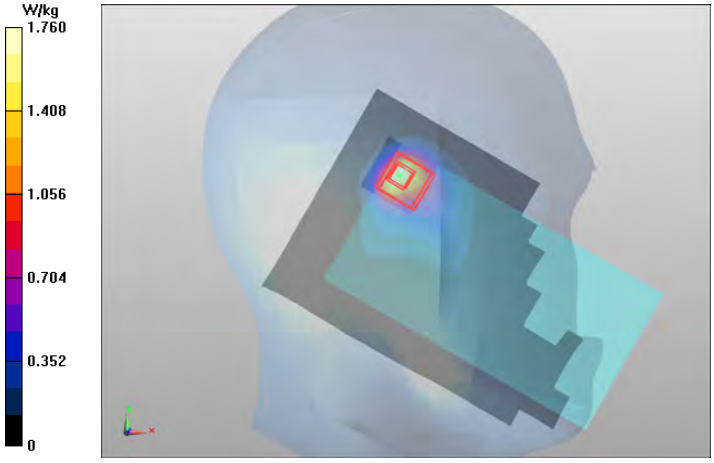
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 04402/74/105152/2

Communication System: WLAN2450
Frequency: **2462 MHz**; Duty Cycle: 1:1
Medium: HSL2450-2600; Medium Notes: t= 21.7 C
Medium parameters used: f = 2462 MHz; σ = 1.855 S/m; ε_r = 38.293; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.25, 4.25, 4.25); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: SAM 2; Type: Twin Phantom GF-VE 20; Serial: TP-1701
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WLAN2450 b-mode - Left/Cheek - CH 11 - BPSK 1 Mbps/Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 20.254 V/m
Fast SAR: SAR(1 g) = 1.15 W/kg
Fast SAR(10 g) = 0.544 W/kg
Maximum value of SAR (interpolated) = 1.76 W/kg

WLAN2450 b-mode - Left/Cheek - CH 11 - BPSK 1 Mbps/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.049 V/m
Peak SAR (extrapolated) = 2.60 W/kg
SAR(1 g) = 1.13 W/kg
SAR(10 g) = 0.553 W/kg
Power Drift = 0.05 dB
Maximum value of SAR (measured) = 1.44 W/kg



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Plot H27

Date/Time: 2015-01-08 09:49:34

DASY Configuration for 2-slot GPRS850 - Left/Cheek - CH 190 - Antenna 1/Area Scan:
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107172/8, 004402/74/107173/6
Communication System: 2-slot GPRS850; Frequency: 836.6 MHz; Duty Cycle: 1:4.19952; PMF: 2.04927
Medium: HSL835 Medium parameters used: f = 837 MHz; σ = 0.918 S/m; ε_r = 41.023; ρ = 1000 kg/m^3
Phantom section: Left Section

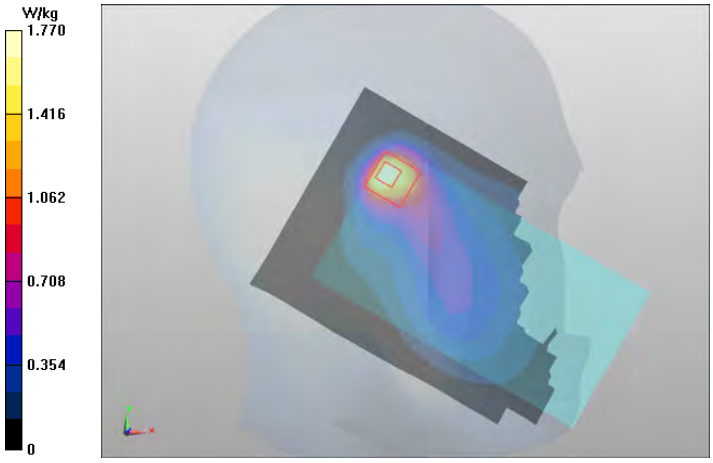
Probe: ES3DV3 - SN3131; ConvF(6.04, 6.04, 6.04); Calibrated: 2014-10-21;
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn793; Calibrated: 2014-10-14
Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1596
Measurement SW: DASY52, Version 52.8 (8)

Date/Time: 2015-01-08 08:52:20

DASY Configuration for WLAN2450 b-mode - Left/Cheek - CH 11 - BPSK 1 Mbps/Area Scan:
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 04402/74/105152/2
Communication System: WLAN2450; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2450-2600 Medium parameters used: f = 2462 MHz; σ = 1.855 S/m; ε_r = 38.293; ρ = 1000 kg/m^3
Phantom section: Left Section

Probe: ES3DV3 - SN3118; ConvF(4.25, 4.25, 4.25); Calibrated: 2014-10-21;
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
Phantom: SAM 2; Type: Twin Phantom GF-VE 20; Serial: TP-1701
Measurement SW: DASY52, Version 52.8 (8)

Fast SAR of Combined Scans: SAR(1 g) = 1.35 W/kg; SAR(10 g) = 0.655 W/kg
Maximum value of SAR (interpolated) = 1.77 W/kg



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Plot H28

Date/Time: 2015-01-12 10:52:31

DASY Configuration for WCDMA 1700_2100 (Band 4) - Left/Cheek - CH 1513 - Antenna 2/Area Scan:
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107070/4, 004402/74/107071/2
Communication System: WCDMA1700/2100 (Band 4); Frequency: 1752.6 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1750 Medium parameters used: f = 1753 MHz; σ = 1.317 S/m; ε_r = 39.185; ρ = 1000 kg/m^3
Phantom section: Left Section

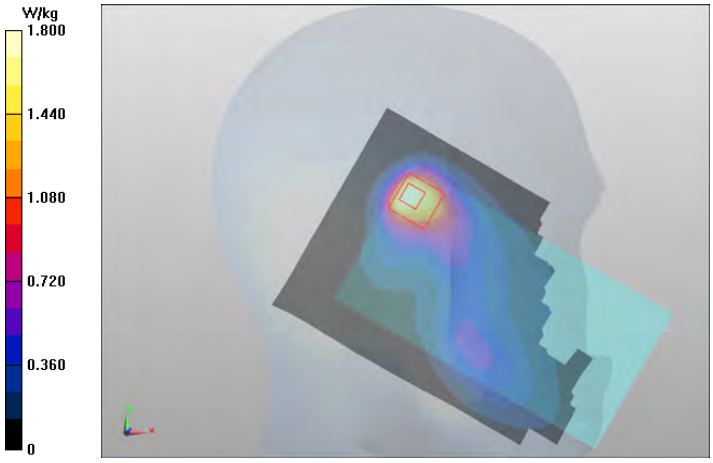
Probe: ES3DV3 - SN3165; ConvF(5.09, 5.09, 5.09); Calibrated: 2014-05-08;
Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn555; Calibrated: 2014-11-03
Phantom: SAM 1; Type: SAM; Serial: TP-1167
Measurement SW: DASY52, Version 52.8 (8)

Date/Time: 2015-01-08 08:52:20

DASY Configuration for WLAN2450 b-mode - Left/Cheek - CH 11 - BPSK 1 Mbps/Area Scan:
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 04402/74/105152/2
Communication System: WLAN2450; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2450-2600 Medium parameters used: f = 2462 MHz; σ = 1.855 S/m; ε_r = 38.293; ρ = 1000 kg/m^3
Phantom section: Left Section

Probe: ES3DV3 - SN3118; ConvF(4.25, 4.25, 4.25); Calibrated: 2014-10-21;
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
Phantom: SAM 2; Type: Twin Phantom GF-VE 20; Serial: TP-1701
Measurement SW: DASY52, Version 52.8 (8)

Fast SAR of Combined Scans: SAR(1 g) = 1.38 W/kg; SAR(10 g) = 0.677 W/kg
Maximum value of SAR (interpolated) = 1.80 W/kg



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Plot H29

Date/Time: 2015-01-08 22:18:23

DASY Configuration for WCDMA1900 (Band 2) - Left/Cheek - CH 9538 - Antenna 2/Area Scan:
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107166/0, 004402/74/107167/8
Communication System: WCDMA1900 (Band 2); Frequency: 1907.6 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL1900 Medium parameters used: f = 1908 MHz; σ = 1.421 S/m; ε_r = 38.987; ρ = 1000 kg/m^3
Phantom section: Left Section

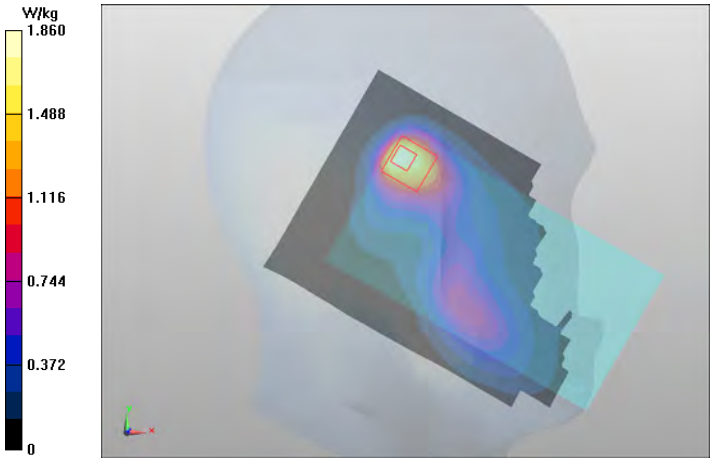
Probe: EX3DV4 - SN3834; ConvF(7.33, 7.33, 7.33); Calibrated: 2014-05-08;
Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used))
Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
Phantom: SAM 1; Type: Twin SAM 040 CA; Serial: TP-1449
Measurement SW: DASY52, Version 52.8 (8)

Date/Time: 2015-01-08 08:52:20

DASY Configuration for WLAN2450 b-mode - Left/Cheek - CH 11 - BPSK 1 Mbps/Area Scan:
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 04402/74/105152/2
Communication System: WLAN2450; Frequency: 2462 MHz; Duty Cycle: 1:1; PMF: 1
Medium: HSL2450-2600 Medium parameters used: f = 2462 MHz; σ = 1.855 S/m; ε_r = 38.293; ρ = 1000 kg/m^3
Phantom section: Left Section

Probe: ES3DV3 - SN3118; ConvF(4.25, 4.25, 4.25); Calibrated: 2014-10-21;
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
Phantom: SAM 2; Type: Twin Phantom GF-VE 20; Serial: TP-1701
Measurement SW: DASY52, Version 52.8 (8)

Fast SAR of Combined Scans: SAR(1 g) = 1.43 W/kg; SAR(10 g) = 0.721 W/kg
Maximum value of SAR (interpolated) = 1.86 W/kg



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Plot B1

Date/Time: 2015-01-12 09:03:19

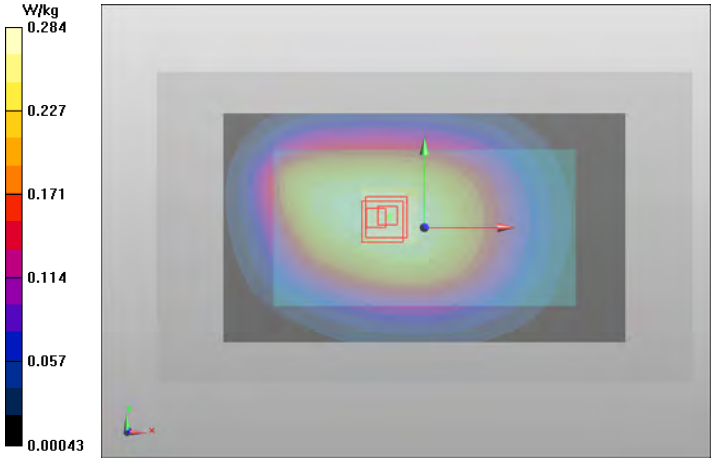
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107064/7, 004402/74/107065/4

Communication System: LTE700 (Band 12)
Frequency: **707.5 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.1 C
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.944 S/m; ε_r = 54.409; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 12)/Body - CH 23095 - 10MHz - QPSK - 1 RB - Offset 49 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.105 V/m
Fast SAR: SAR(1 g) = 0.255 W/kg
Fast SAR(10 g) = 0.187 W/kg
Maximum value of SAR (interpolated) = 0.284 W/kg

LTE700 (Band 12)/Body - CH 23095 - 10MHz - QPSK - 1 RB - Offset 49 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.171 V/m
Peak SAR (extrapolated) = 0.318 W/kg
SAR(1 g) = 0.262 W/kg
SAR(10 g) = 0.206 W/kg
Power Drift = 0.06 dB
Maximum value of SAR (measured) = 0.285 W/kg



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Plot B2

Date/Time: 2015-01-16 08:47:32

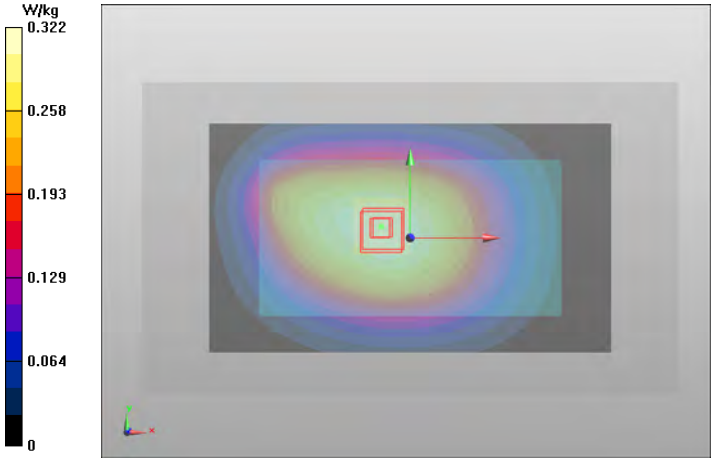
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105142/3

Communication System: LTE700 (Band 12)
Frequency: **707.5 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.0 C
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.952 S/m; ε_r = 54.132; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 12)/Body - CH 23095 - 10MHz - QPSK - 1 RB - Offset 24 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.942 V/m
Fast SAR: SAR(1 g) = 0.289 W/kg
Fast SAR(10 g) = 0.212 W/kg
Maximum value of SAR (interpolated) = 0.322 W/kg

LTE700 (Band 12)/Body - CH 23095 - 10MHz - QPSK - 1 RB - Offset 24 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.634 V/m
Peak SAR (extrapolated) = 0.357 W/kg
SAR(1 g) = 0.295 W/kg
SAR(10 g) = 0.230 W/kg
Power Drift = 0.08 dB
Maximum value of SAR (measured) = 0.322 W/kg



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Plot B3

Date/Time: 2015-01-13 11:59:24

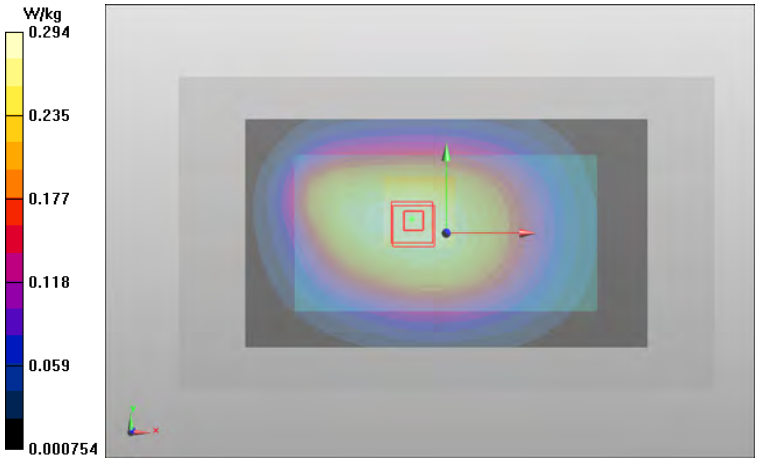
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107064/7, 004402/74/107065/4

Communication System: LTE700 (Band 17)
Frequency: **709 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.1 C
Medium parameters used: f = 709 MHz; σ = 0.948 S/m; ε_r = 54.33; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 17)/Body - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.835 V/m
Fast SAR: SAR(1 g) = 0.264 W/kg
Fast SAR(10 g) = 0.193 W/kg
Maximum value of SAR (interpolated) = 0.294 W/kg

LTE700 (Band 17)/Body - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.832 V/m
Peak SAR (extrapolated) = 0.326 W/kg
SAR(1 g) = 0.267 W/kg
SAR(10 g) = 0.209 W/kg
Power Drift = -0.02 dB
Maximum value of SAR (measured) = 0.291 W/kg



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Plot B4

Date/Time: 2015-01-16 09:10:41

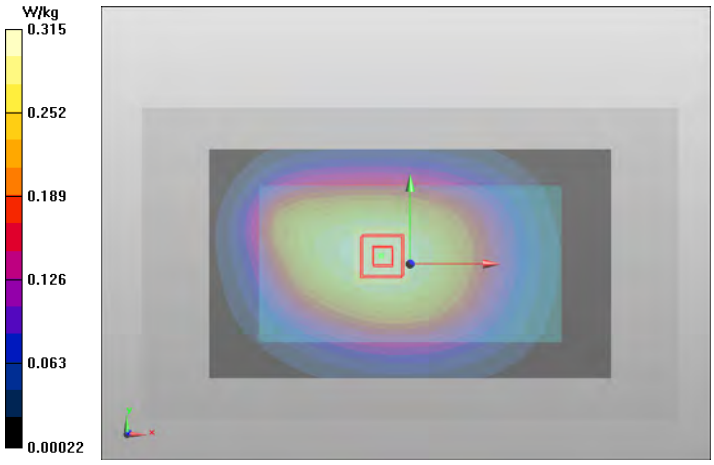
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105142/3

Communication System: LTE700 (Band 17)
Frequency: **709 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.0 C
Medium parameters used: f = 709 MHz; σ = 0.953 S/m; ε_r = 54.121; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 17)/Body - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.150 V/m
Fast SAR: SAR(1 g) = 0.283 W/kg
Fast SAR(10 g) = 0.207 W/kg
Maximum value of SAR (interpolated) = 0.315 W/kg

LTE700 (Band 17)/Body - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.150 V/m
Peak SAR (extrapolated) = 0.349 W/kg
SAR(1 g) = 0.288 W/kg
SAR(10 g) = 0.225 W/kg
Power Drift = -0.05 dB
Maximum value of SAR (measured) = 0.313 W/kg



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Plot B5

Date/Time: 2015-01-15 12:20:53

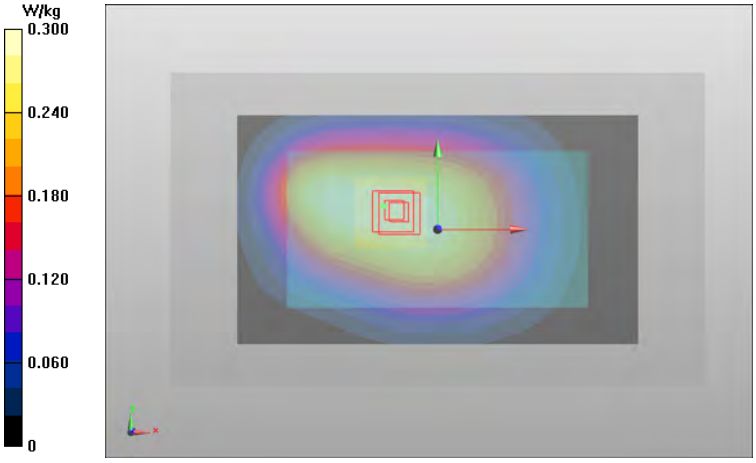
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107064/7, 004402/74/107065/4

Communication System: LTE700 (Band 28b)
Frequency: **725.5 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.1 C
Medium parameters used (interpolated): f = 725.5 MHz; σ = 0.954 S/m; ε_r = 53.677; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 28b)/Body - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.106 V/m
Fast SAR: SAR(1 g) = 0.269 W/kg
Fast SAR(10 g) = 0.197 W/kg
Maximum value of SAR (interpolated) = 0.300 W/kg

LTE700 (Band 28b)/Body - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.018 V/m
Peak SAR (extrapolated) = 0.340 W/kg
SAR(1 g) = 0.275 W/kg
SAR(10 g) = 0.214 W/kg
Power Drift = -0.00 dB
Maximum value of SAR (measured) = 0.299 W/kg



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Plot B6

Date/Time: 2015-01-16 09:49:05

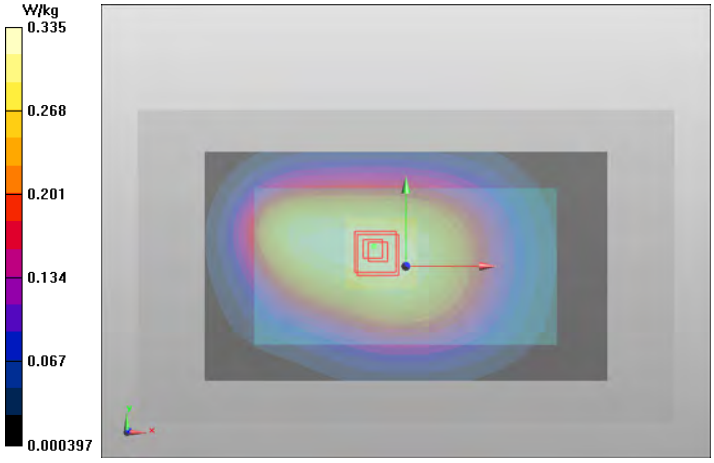
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105142/3

Communication System: LTE700 (Band 28b)
Frequency: **725.5 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.0 C
Medium parameters used (interpolated): f = 725.5 MHz; σ = 0.962 S/m; ε_r = 54.024; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 28a_b)/Body - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.501 V/m
Fast SAR: SAR(1 g) = 0.300 W/kg
Fast SAR(10 g) = 0.219 W/kg
Maximum value of SAR (interpolated) = 0.335 W/kg

LTE700 (Band 28a_b)/Body - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.501 V/m
Peak SAR (extrapolated) = 0.375 W/kg
SAR(1 g) = 0.305 W/kg
SAR(10 g) = 0.239 W/kg
Power Drift = 0.01 dB
Maximum value of SAR (measured) = 0.332 W/kg



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Plot B7

Date/Time: 2015-01-12 10:37:34

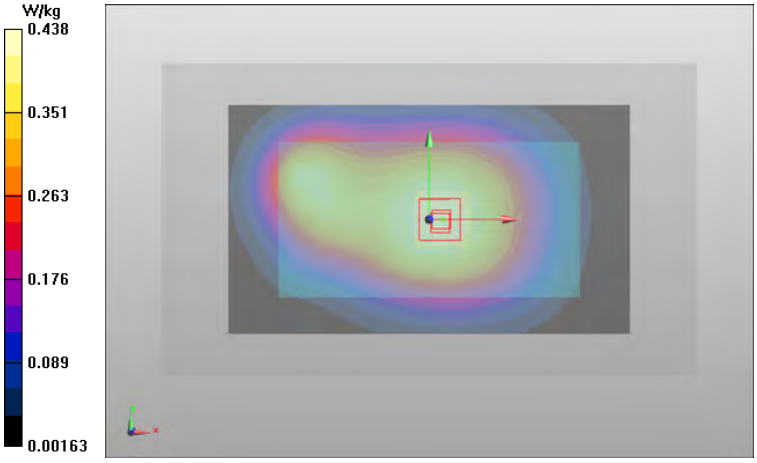
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107172/8, 004402/74/107173/6

Communication System: 2-slot GPRS850
Frequency: **848.8 MHz**; Duty Cycle: 1:4.19952
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 849 MHz; σ = 0.98 S/m; ε_r = 53.183; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

2-slot GPRS850/Body - CH 251 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.791 V/m
Fast SAR: SAR(1 g) = 0.391 W/kg
Fast SAR(10 g) = 0.283 W/kg
Maximum value of SAR (interpolated) = 0.438 W/kg

2-slot GPRS850/Body - CH 251 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.973 V/m
Peak SAR (extrapolated) = 0.504 W/kg
SAR(1 g) = 0.401 W/kg
SAR(10 g) = 0.308 W/kg
Power Drift = -0.04 dB
Maximum value of SAR (measured) = 0.437 W/kg



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Plot B8

Date/Time: 2015-01-17 13:19:08

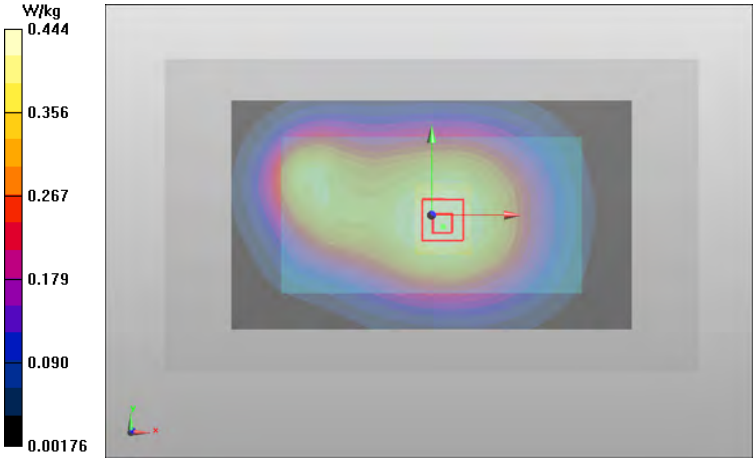
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105151/4

Communication System: 2-slot GPRS850
Frequency: **848.8 MHz**; Duty Cycle: 1:4.19952
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 849 MHz; σ = 0.984 S/m; ε_r = 53.807; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

2-slot GPRS850/Body - CH 251 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.506 V/m
Fast SAR: SAR(1 g) = 0.397 W/kg
Fast SAR(10 g) = 0.287 W/kg
Maximum value of SAR (interpolated) = 0.444 W/kg

2-slot GPRS850/Body - CH 251 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (6x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.506 V/m
Peak SAR (extrapolated) = 0.505 W/kg
SAR(1 g) = 0.403 W/kg
SAR(10 g) = 0.309 W/kg
Power Drift = -0.08 dB
Maximum value of SAR (measured) = 0.441 W/kg



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Plot B9

Date/Time: 2015-01-12 14:23:27

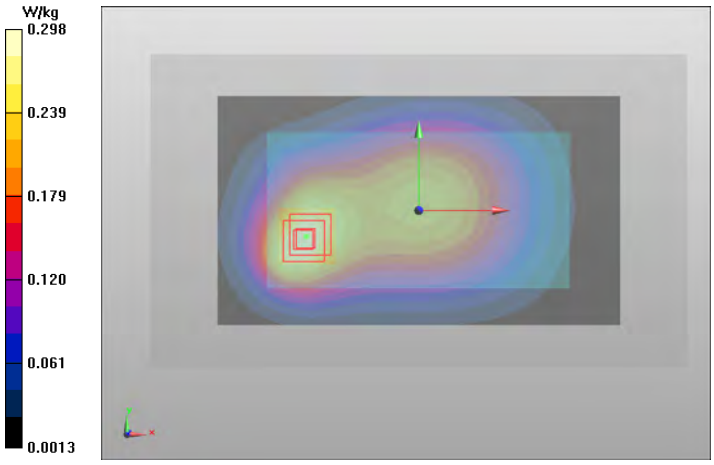
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107172/8, 004402/74/107173/6

Communication System: WCDMA850 (Band 5)
Frequency: **846.6 MHz**; Duty Cycle: 1:1
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 847 MHz; σ = 0.978 S/m; ε_r = 53.194; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA850 (Band 5)/Body - CH 4233 - 15mm - No Headset - Back - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.994 V/m
Fast SAR: SAR(1 g) = 0.263 W/kg
Fast SAR(10 g) = 0.185 W/kg
Maximum value of SAR (interpolated) = 0.298 W/kg

WCDMA850 (Band 5)/Body - CH 4233 - 15mm - No Headset - Back - Antenna 2/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.116 V/m
Peak SAR (extrapolated) = 0.371 W/kg
SAR(1 g) = 0.261 W/kg
SAR(10 g) = 0.181 W/kg
Power Drift = -0.08 dB
Maximum value of SAR (measured) = 0.297 W/kg



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Plot B10

Date/Time: 2015-01-17 14:10:48

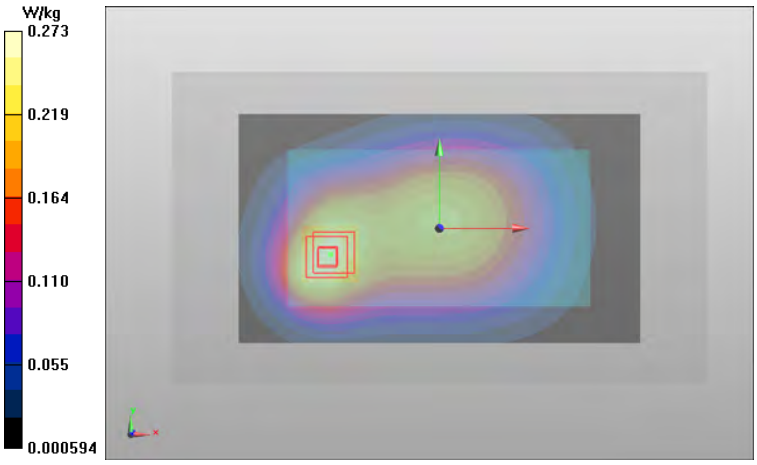
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105151/4

Communication System: WCDMA850 (Band 5)
Frequency: **846.6 MHz**; Duty Cycle: 1:1
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 847 MHz; σ = 0.983 S/m; ε_r = 53.816; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA850 (Band 5)/Body - CH 4233 - 15mm - No Headset - Back - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.931 V/m
Fast SAR: SAR(1 g) = 0.240 W/kg
Fast SAR(10 g) = 0.168 W/kg
Maximum value of SAR (interpolated) = 0.273 W/kg

WCDMA850 (Band 5)/Body - CH 4233 - 15mm - No Headset - Back - Antenna 2/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.931 V/m
Peak SAR (extrapolated) = 0.331 W/kg
SAR(1 g) = 0.235 W/kg
SAR(10 g) = 0.164 W/kg
Power Drift = 0.04 dB
Maximum value of SAR (measured) = 0.266 W/kg



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Plot B11

Date/Time: 2015-01-12 16:44:41

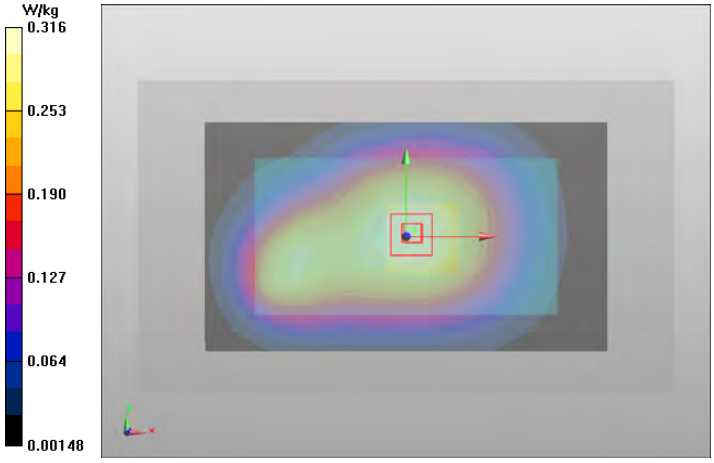
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107172/8, 004402/74/107173/6

Communication System: LTE850 (Band 5)
Frequency: **829 MHz**; Duty Cycle: 1:1
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 829 MHz; σ = 0.968 S/m; ε_r = 53.288; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE850 (Band 5)/Body - CH 20450 - 10MHz - QPSK - 1 RB - Offset 24 - 15mm - No Headset - Back - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.285 V/m
Fast SAR: SAR(1 g) = 0.282 W/kg
Fast SAR(10 g) = 0.205 W/kg
Maximum value of SAR (interpolated) = 0.316 W/kg

LTE850 (Band 5)/Body - CH 20450 - 10MHz - QPSK - 1 RB - Offset 24 - 15mm - No Headset - Back - Antenna 2/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.285 V/m
Peak SAR (extrapolated) = 0.365 W/kg
SAR(1 g) = 0.294 W/kg
SAR(10 g) = 0.226 W/kg
Power Drift = 0.03 dB
Maximum value of SAR (measured) = 0.321 W/kg



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Plot B12

Date/Time: 2015-01-17 15:19:43

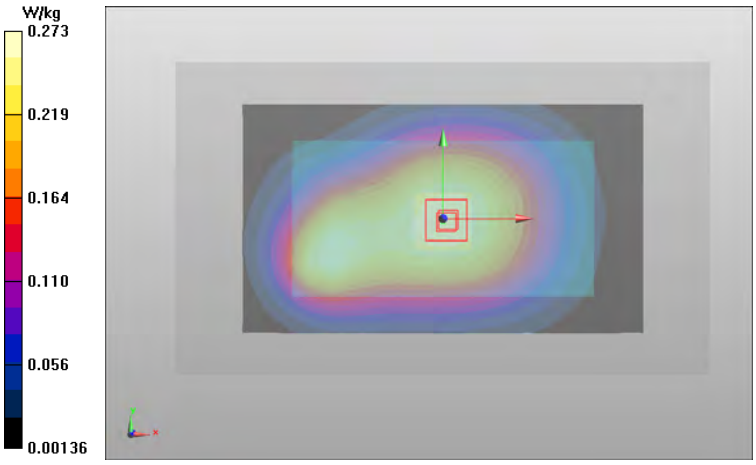
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105151/4

Communication System: LTE850 (Band 5)
Frequency: **829 MHz**; Duty Cycle: 1:1
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 829 MHz; σ = 0.972 S/m; ε_r = 53.934; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE850 (Band 5)/Body - CH 20450 - 10MHz - QPSK - 1 RB - Offset 0 - 15mm - No Headset - Back - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.917 V/m
Fast SAR: SAR(1 g) = 0.243 W/kg
Fast SAR(10 g) = 0.176 W/kg
Maximum value of SAR (interpolated) = 0.273 W/kg

LTE850 (Band 5)/Body - CH 20450 - 10MHz - QPSK - 1 RB - Offset 0 - 15mm - No Headset - Back - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.917 V/m
Peak SAR (extrapolated) = 0.307 W/kg
SAR(1 g) = 0.248 W/kg
SAR(10 g) = 0.192 W/kg
Power Drift = 0.05 dB
Maximum value of SAR (measured) = 0.271 W/kg



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Plot B13

Date/Time: 2015-01-09 15:18:28

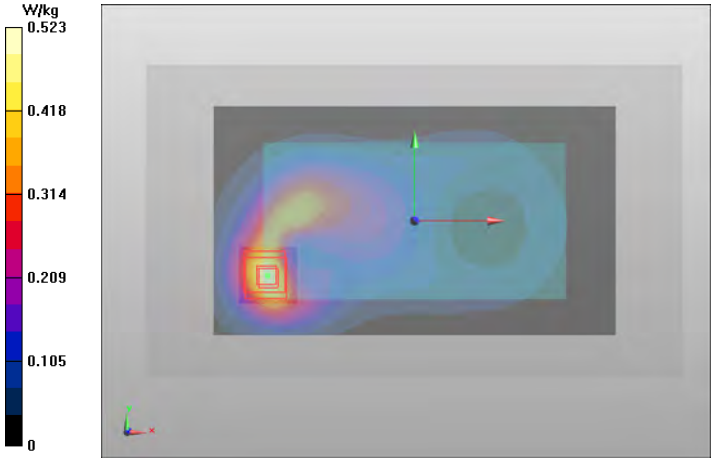
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107070/4, 004402/74/107071/2

Communication System: WCDMA1700/2100 (Band 4)
Frequency: **1732.4 MHz**; Duty Cycle: 1:1
Medium: BSL1750; Medium Notes: t= 22.8 C
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.438 S/m; ε_r = 52.128; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(4.83, 4.83, 4.83); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: Triple Flat Phantom 5.1C; Type: SN 000 T01 DA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1700_2100 (Band 4)/Body - CH 1412 - 15mm - No Headset - Display - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.332 V/m
Fast SAR: SAR(1 g) = 0.417 W/kg
Fast SAR(10 g) = 0.232 W/kg
Maximum value of SAR (interpolated) = 0.523 W/kg

WCDMA1700_2100 (Band 4)/Body - CH 1412 - 15mm - No Headset - Display - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.797 V/m
Peak SAR (extrapolated) = 0.662 W/kg
SAR(1 g) = 0.407 W/kg
SAR(10 g) = 0.230 W/kg
Power Drift = -0.05 dB
Maximum value of SAR (measured) = 0.502 W/kg



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Plot B14

Date/Time: 2015-01-18 12:51:03

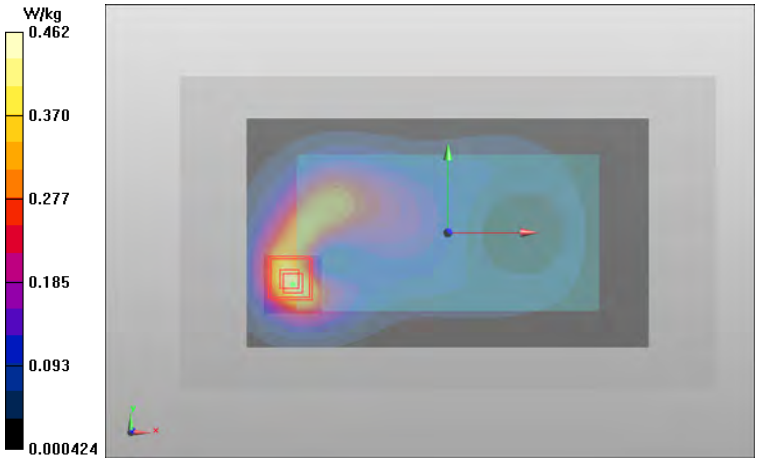
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105143/1

Communication System: WCDMA1700/2100 (Band 4)
Frequency: **1732.4 MHz**; Duty Cycle: 1:1
Medium: BSL1750; Medium Notes: t= 21.9 C
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.428 S/m; ε_r = 51.382; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(4.83, 4.83, 4.83); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: Triple Flat Phantom 5.1C; Type: SN 000 T01 DA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1700_2100 (Band 4)/Body - CH 1412 - 15mm - No Headset - Display - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.655 V/m
Fast SAR: SAR(1 g) = 0.368 W/kg
Fast SAR(10 g) = 0.211 W/kg
Maximum value of SAR (interpolated) = 0.462 W/kg

WCDMA1700_2100 (Band 4)/Body - CH 1412 - 15mm - No Headset - Display - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.655 V/m
Peak SAR (extrapolated) = 0.654 W/kg
SAR(1 g) = 0.404 W/kg
SAR(10 g) = 0.230 W/kg
Power Drift = -0.06 dB
Maximum value of SAR (measured) = 0.494 W/kg



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Plot B15

Date/Time: 2015-01-09 20:15:42

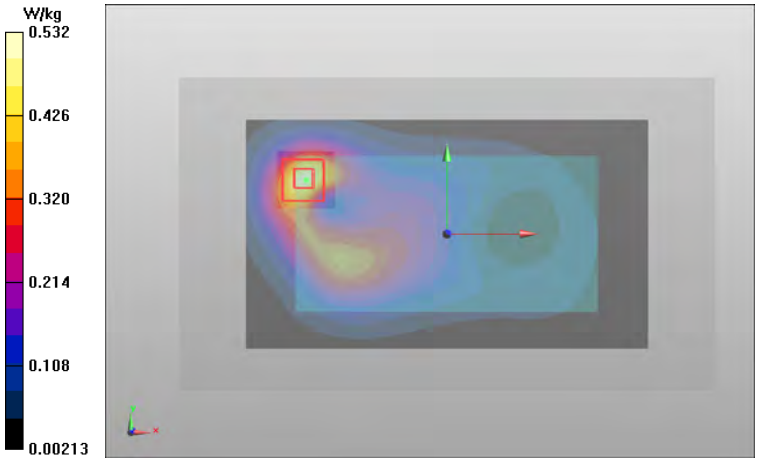
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107070/4, 004402/74/107071/2

Communication System: LTE1700/2100 (Band 4)
Frequency: **1720 MHz**; Duty Cycle: 1:1
Medium: BSL1750; Medium Notes: t= 22.8 C
Medium parameters used: f = 1720 MHz; σ = 1.425 S/m; ε_r = 52.158; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(4.83, 4.83, 4.83); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: Triple Flat Phantom 5.1C; Type: SN 000 T01 DA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1700_2100 (Band 4)/Body - CH 20050 - 20MHz - QPSK - 1 RB - Offset 0 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.137 V/m
Fast SAR: SAR(1 g) = 0.424 W/kg
Fast SAR(10 g) = 0.235 W/kg
Maximum value of SAR (interpolated) = 0.532 W/kg

LTE1700_2100 (Band 4)/Body - CH 20050 - 20MHz - QPSK - 1 RB - Offset 0 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.084 V/m
Peak SAR (extrapolated) = 0.698 W/kg
SAR(1 g) = 0.435 W/kg
SAR(10 g) = 0.250 W/kg
Power Drift = 0.06 dB
Maximum value of SAR (measured) = 0.528 W/kg



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Plot B16

Date/Time: 2015-01-18 09:53:33

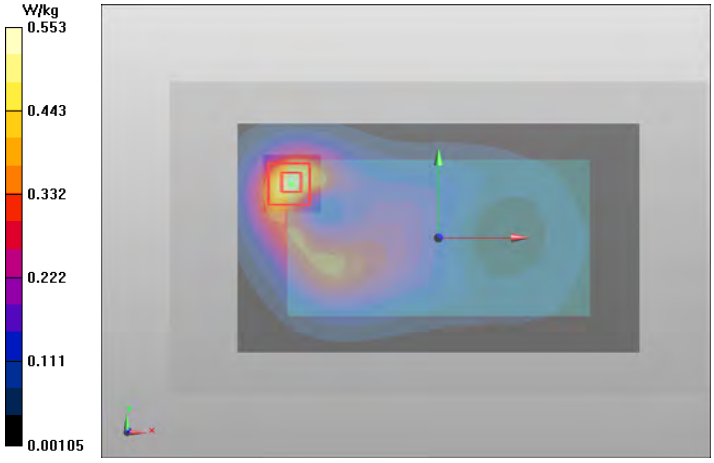
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105143/1

Communication System: LTE1700/2100 (Band 4)
Frequency: **1720 MHz**; Duty Cycle: 1:1
Medium: BSL1750; Medium Notes: t= 21.9 C
Medium parameters used: f = 1720 MHz; σ = 1.417 S/m; ε_r = 51.423; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(4.83, 4.83, 4.83); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: Triple Flat Phantom 5.1C; Type: SN 000 T01 DA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1700_2100 (Band 4)/Body - CH 20050 - 20MHz - QPSK - 1 RB - Offset 0 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.184 V/m
Fast SAR: SAR(1 g) = 0.441 W/kg
Fast SAR(10 g) = 0.245 W/kg
Maximum value of SAR (interpolated) = 0.553 W/kg

LTE1700_2100 (Band 4)/Body - CH 20050 - 20MHz - QPSK - 1 RB - Offset 0 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.158 V/m
Peak SAR (extrapolated) = 0.730 W/kg
SAR(1 g) = 0.453 W/kg
SAR(10 g) = 0.260 W/kg
Power Drift = -0.01 dB
Maximum value of SAR (measured) = 0.552 W/kg



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Plot B17

Date/Time: 2015-01-14 19:08:43

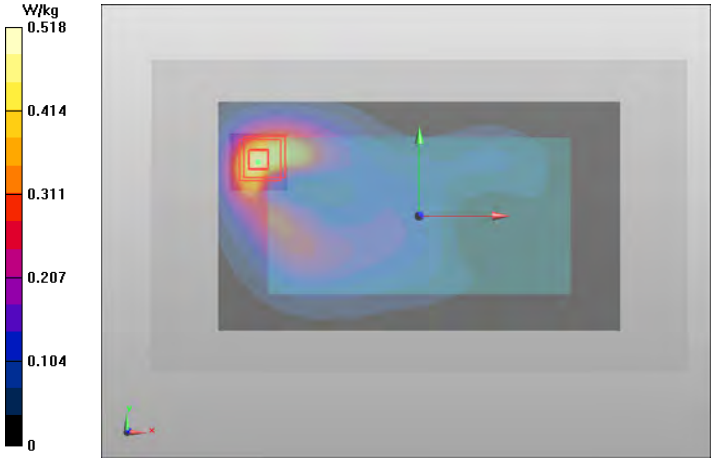
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107078/7, 004402/74/107079/5

Communication System: 3-slot GPRS1900
Frequency: **1850.2 MHz**; Duty Cycle: 1:2.80027
Medium: BSL1900; Medium Notes: t= 20.9 C
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.481 S/m; ε_r = 51.752; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

3-slot GPRS1900/Body - CH 512 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.073 V/m
Fast SAR: SAR(1 g) = 0.407 W/kg
Fast SAR(10 g) = 0.227 W/kg
Maximum value of SAR (interpolated) = 0.518 W/kg

3-slot GPRS1900/Body - CH 512 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.073 V/m
Peak SAR (extrapolated) = 0.730 W/kg
SAR(1 g) = 0.440 W/kg
SAR(10 g) = 0.246 W/kg
Power Drift = 0.03 dB
Maximum value of SAR (measured) = 0.543 W/kg



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Plot B18

Date/Time: 2015-01-16 08:47:48

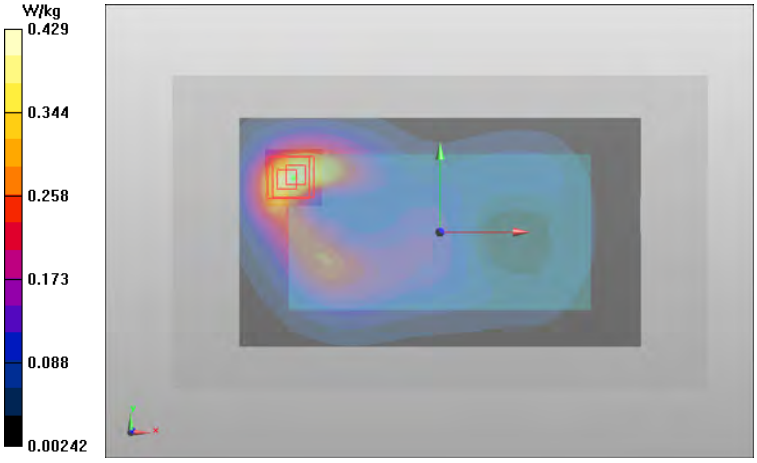
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105144/9

Communication System: 4-slot GPRS1900
Frequency: **1850.2 MHz**; Duty Cycle: 1:2.09991
Medium: BSL1900; Medium Notes: t= 20.6 C
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.484 S/m; ε_r = 51.828; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

4-slot GPRS1900/Body - CH 512 - 15mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.171 V/m
Fast SAR: SAR(1 g) = 0.347 W/kg
Fast SAR(10 g) = 0.194 W/kg
Maximum value of SAR (interpolated) = 0.429 W/kg

4-slot GPRS1900/Body - CH 512 - 15mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.494 V/m
Peak SAR (extrapolated) = 0.609 W/kg
SAR(1 g) = 0.370 W/kg
SAR(10 g) = 0.211 W/kg
Power Drift = -0.08 dB
Maximum value of SAR (measured) = 0.442 W/kg



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Plot B19

Date/Time: 2015-01-08 18:53:42

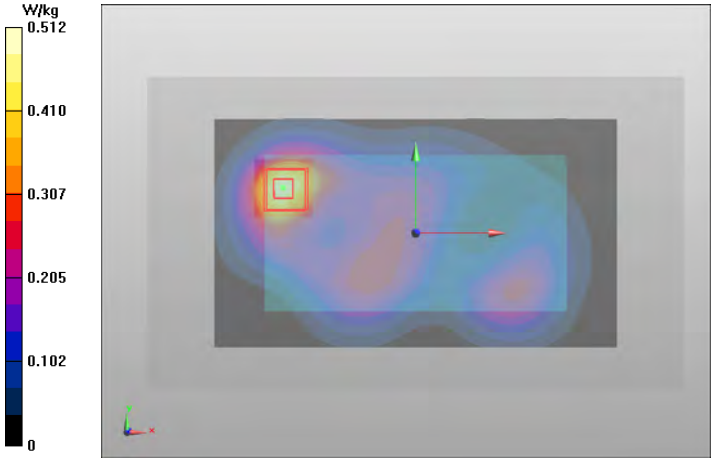
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107166/0, 004402/74/107167/8

Communication System: WCDMA1900 (Band 2)
Frequency: **1907.6 MHz**; Duty Cycle: 1:1
Medium: BSL1900; Medium Notes: t= 20.7 C
Medium parameters used: f = 1908 MHz; σ = 1.563 S/m; ε_r = 51.937; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1900 (Band 2)/Body - CH 9538 - 15mm - No Headset - Display - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 16.486 V/m
Fast SAR: SAR(1 g) = 0.408 W/kg
Fast SAR(10 g) = 0.235 W/kg
Maximum value of SAR (interpolated) = 0.512 W/kg

WCDMA1900 (Band 2)/Body - CH 9538 - 15mm - No Headset - Display - Antenna 2/Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 16.486 V/m
Peak SAR (extrapolated) = 0.692 W/kg
SAR(1 g) = 0.413 W/kg
SAR(10 g) = 0.242 W/kg
Power Drift = 0.09 dB
Maximum value of SAR (measured) = 0.500 W/kg



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Plot B20

Date/Time: 2015-01-16 14:49:13

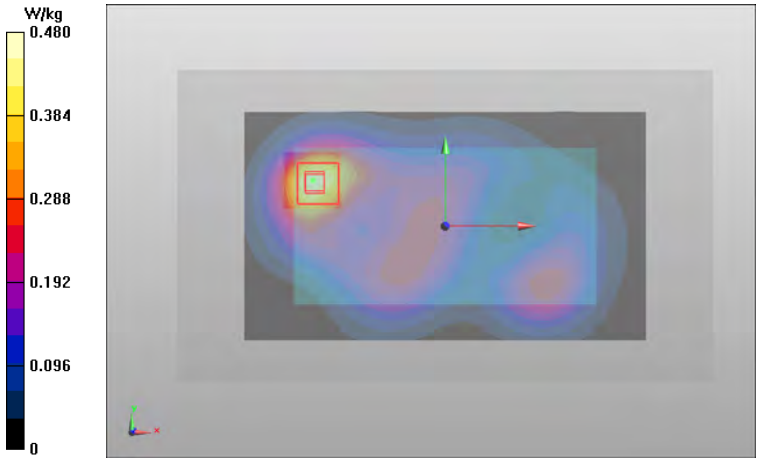
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105144/9

Communication System: WCDMA1900 (Band 2)
Frequency: **1907.6 MHz**; Duty Cycle: 1:1
Medium: BSL1900; Medium Notes: t= 20.6 C
Medium parameters used: f = 1908 MHz; σ = 1.54 S/m; ε_r = 51.637; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1900 (Band 2)/Body - CH 9538 - 15mm - No Headset - Display - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.854 V/m
Fast SAR: SAR(1 g) = 0.385 W/kg
Fast SAR(10 g) = 0.225 W/kg
Maximum value of SAR (interpolated) = 0.480 W/kg

WCDMA1900 (Band 2)/Body - CH 9538 - 15mm - No Headset - Display - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 15.626 V/m
Peak SAR (extrapolated) = 0.645 W/kg
SAR(1 g) = 0.389 W/kg
SAR(10 g) = 0.230 W/kg
Power Drift = 0.06 dB
Maximum value of SAR (measured) = 0.467 W/kg



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Plot B21

Date/Time: 2015-01-08 19:39:41

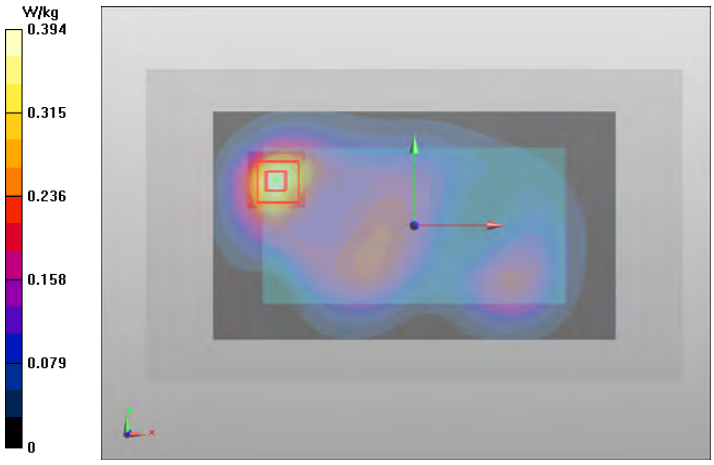
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107166/0, 004402/74/107167/8

Communication System: LTE1900 (Band 2)
Frequency: **1900 MHz**; Duty Cycle: 1:1
Medium: BSL1900; Medium Notes: t= 20.7 C
Medium parameters used: f = 1900 MHz; σ = 1.555 S/m; ε_r = 51.975; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.9 (7117)

LTE1900 (Band 2)/Body - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - 15mm - No Headset - Display - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.749 V/m
Fast SAR: SAR(1 g) = 0.313 W/kg
Fast SAR(10 g) = 0.178 W/kg
Maximum value of SAR (interpolated) = 0.394 W/kg

LTE1900 (Band 2)/Body - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - 15mm - No Headset - Display - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 12.634 V/m
Peak SAR (extrapolated) = 0.532 W/kg
SAR(1 g) = 0.314 W/kg
SAR(10 g) = 0.181 W/kg
Power Drift = -0.07 dB
Maximum value of SAR (measured) = 0.380 W/kg



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Plot B22

Date/Time: 2015-01-16 15:05:14

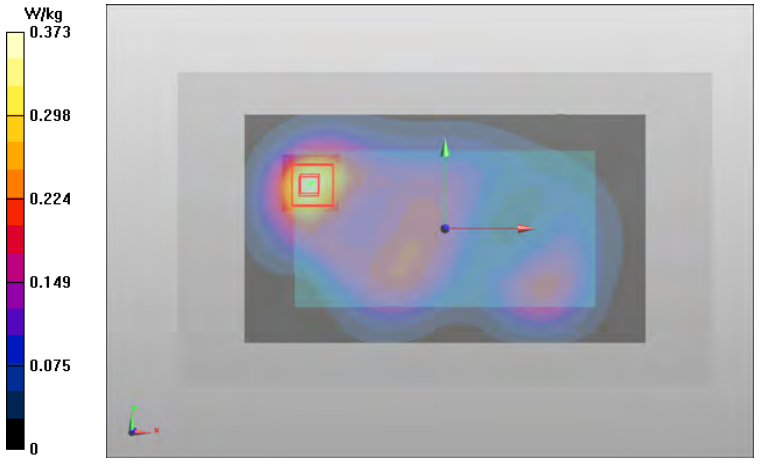
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105144/9

Communication System: LTE1900 (Band 2)
Frequency: **1900 MHz**; Duty Cycle: 1:1
Medium: BSL1900; Medium Notes: t= 20.6 C
Medium parameters used: f = 1900 MHz; σ = 1.532 S/m; ε_r = 51.661; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1900 (Band 2)/Body - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - 15mm - No Headset - Display - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.156 V/m
Fast SAR: SAR(1 g) = 0.298 W/kg
Fast SAR(10 g) = 0.171 W/kg
Maximum value of SAR (interpolated) = 0.373 W/kg

LTE1900 (Band 2)/Body - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - 15mm - No Headset - Display - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 13.120 V/m
Peak SAR (extrapolated) = 0.513 W/kg
SAR(1 g) = 0.307 W/kg
SAR(10 g) = 0.179 W/kg
Power Drift = 0.02 dB
Maximum value of SAR (measured) = 0.369 W/kg



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Plot B23

Date/Time: 2015-01-14 17:26:54

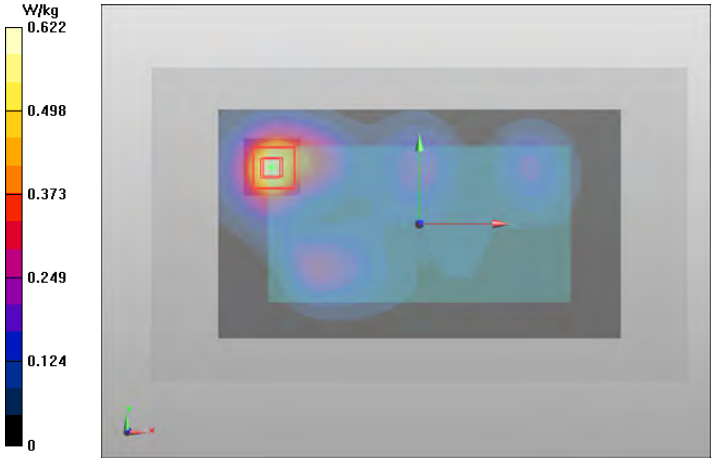
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107068/8, 004402/74/107069/6

Communication System: LTE2500 (Band 7)
Frequency: **2535 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.5 C
Medium parameters used: f = 2535 MHz; σ = 1.999 S/m; ε_r = 51.114; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(3.93, 3.93, 3.93); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE2500 (Band 7)/Body - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - 15mm - No Headset - Display- Antenna 2/Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 17.956 V/m
Fast SAR: SAR(1 g) = 0.494 W/kg
Fast SAR(10 g) = 0.256 W/kg
Maximum value of SAR (interpolated) = 0.622 W/kg

LTE2500 (Band 7)/Body - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - 15mm - No Headset - Display- Antenna 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.813 V/m
Peak SAR (extrapolated) = 0.955 W/kg
SAR(1 g) = 0.497 W/kg
SAR(10 g) = 0.260 W/kg
Power Drift = 0.05 dB
Maximum value of SAR (measured) = 0.626 W/kg



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Plot B24

Date/Time: 2015-01-18 13:34:16

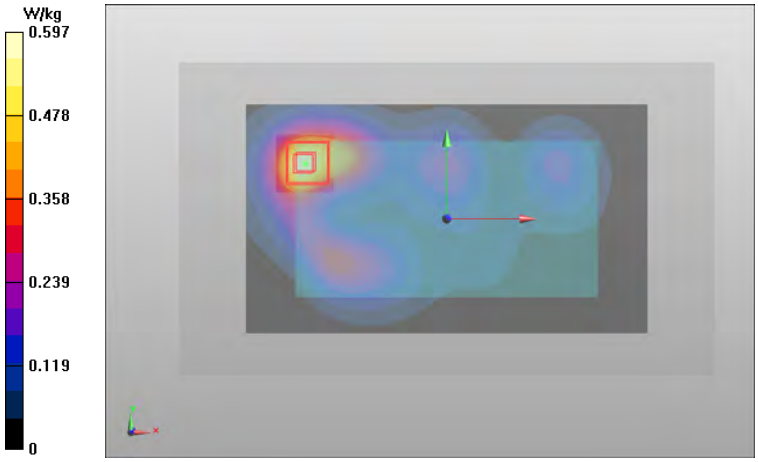
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105149/8

Communication System: LTE2500 (Band 7)
Frequency: **2535 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.0 C
Medium parameters used: f = 2535 MHz; σ = 2.007 S/m; ε_r = 50.691; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(3.93, 3.93, 3.93); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE2500 (Band 7)/Body - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - 15mm - No Headset - Display - Antenna 2/Area Scan (121x211x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 12.754 V/m
Fast SAR: SAR(1 g) = 0.470 W/kg
Fast SAR(10 g) = 0.249 W/kg
Maximum value of SAR (interpolated) = 0.597 W/kg

LTE2500 (Band 7)/Body - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - 15mm - No Headset - Display - Antenna 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.754 V/m
Peak SAR (extrapolated) = 0.904 W/kg
SAR(1 g) = 0.472 W/kg
SAR(10 g) = 0.253 W/kg
Power Drift = -0.10 dB
Maximum value of SAR (measured) = 0.587 W/kg



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Plot B25

Date/Time: 2015-01-09 15:50:43

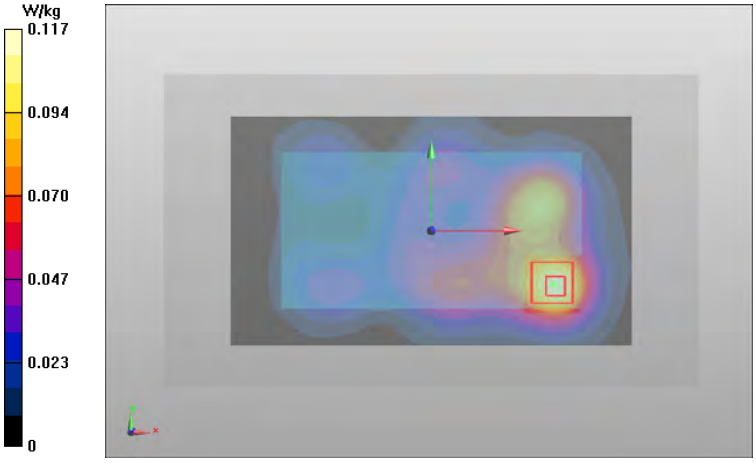
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107080/3, 04402/74/107081/1

Communication System: WLAN2450
Frequency: **2462 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.1 C
Medium parameters used: f = 2462 MHz; σ = 1.947 S/m; ε_r = 50.986; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.03, 4.03, 4.03); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WLAN2450 b-mode/Body - CH 11 - BPSK 1 Mbps - 15mm - No Headset - Display/Area Scan (121x211x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 8.096 V/m
Fast SAR: SAR(1 g) = 0.092 W/kg
Fast SAR(10 g) = 0.048 W/kg
Maximum value of SAR (interpolated) = 0.117 W/kg

WLAN2450 b-mode/Body - CH 11 - BPSK 1 Mbps - 15mm - No Headset - Display/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.115 V/m
Peak SAR (extrapolated) = 0.182 W/kg
SAR(1 g) = 0.098 W/kg
SAR(10 g) = 0.054 W/kg
Power Drift = -0.02 dB
Maximum value of SAR (measured) = 0.119 W/kg



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Plot B26

Date/Time: 2015-01-09 19:30:01

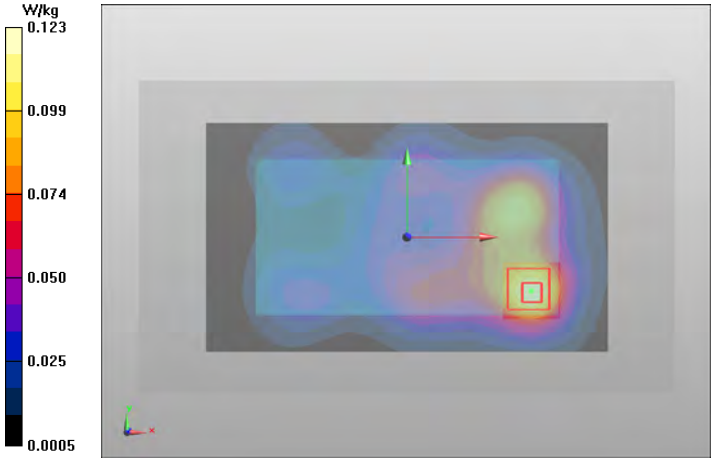
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 04402/74/105152/2

Communication System: WLAN2450
Frequency: **2462 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.1 C
Medium parameters used: f = 2462 MHz; σ = 1.947 S/m; ε_r = 50.986; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.03, 4.03, 4.03); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WLAN2450 b-mode/Body - CH 11 - BPSK 1 Mbps - 15mm - No Headset - Display/Area Scan (121x211x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 7.465 V/m
Fast SAR: SAR(1 g) = 0.096 W/kg
Fast SAR(10 g) = 0.050 W/kg
Maximum value of SAR (interpolated) = 0.123 W/kg

WLAN2450 b-mode/Body - CH 11 - BPSK 1 Mbps - 15mm - No Headset - Display/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.465 V/m
Peak SAR (extrapolated) = 0.189 W/kg
SAR(1 g) = 0.100 W/kg
SAR(10 g) = 0.055 W/kg
Power Drift = 0.14 dB
Maximum value of SAR (measured) = 0.124 W/kg



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Plot W1

Date/Time: 2015-01-12 09:41:32

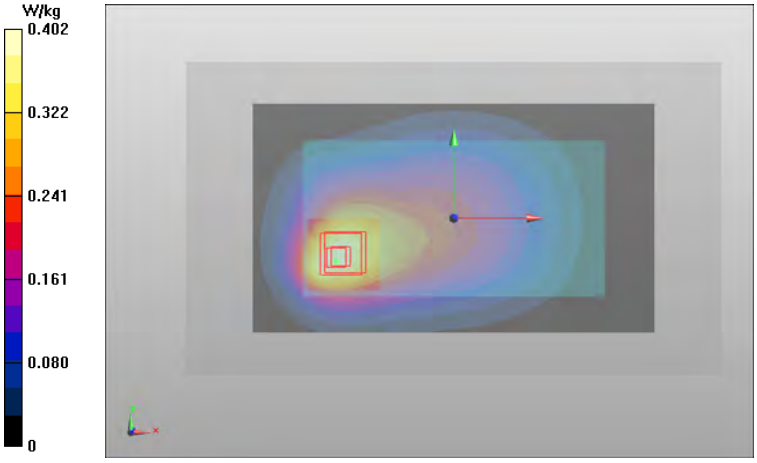
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107064/7, 004402/74/107065/4

Communication System: LTE700 (Band 12)
Frequency: **707.5 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.1 C
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.944 S/m; ε_r = 54.409; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 12)/Body - CH 23095 - 10MHz - QPSK - 1 RB - Offset 49 - 10mm - No Headset - Back - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.492 V/m
Fast SAR: SAR(1 g) = 0.353 W/kg
Fast SAR(10 g) = 0.248 W/kg
Maximum value of SAR (interpolated) = 0.402 W/kg

LTE700 (Band 12)/Body - CH 23095 - 10MHz - QPSK - 1 RB - Offset 49 - 10mm - No Headset - Back - Antenna 2/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.595 V/m
Peak SAR (extrapolated) = 0.480 W/kg
SAR(1 g) = 0.342 W/kg
SAR(10 g) = 0.239 W/kg
Power Drift = -0.04 dB
Maximum value of SAR (measured) = 0.389 W/kg



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Plot W2

Date/Time: 2015-01-16 12:17:15

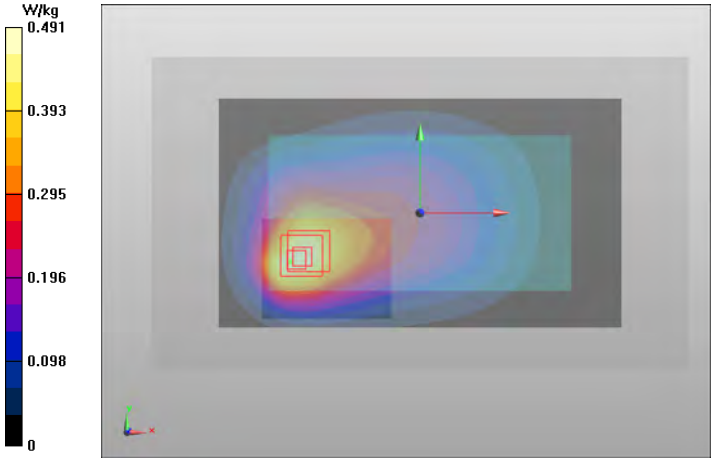
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105142/3

Communication System: LTE700 (Band 12)
Frequency: **707.5 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.0 C
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.952 S/m; ε_r = 54.132; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 12)/Body - CH 23095 - 10MHz - QPSK - 1 RB - Offset 24 - 10mm - No Headset - Back - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.463 V/m
Fast SAR: SAR(1 g) = 0.425 W/kg
Fast SAR(10 g) = 0.296 W/kg
Maximum value of SAR (interpolated) = 0.491 W/kg

LTE700 (Band 12)/Body - CH 23095 - 10MHz - QPSK - 1 RB - Offset 24 - 10mm - No Headset - Back - Antenna 2/Zoom Scan (8x10x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 14.463 V/m
Peak SAR (extrapolated) = 0.599 W/kg
SAR(1 g) = 0.415 W/kg
SAR(10 g) = 0.285 W/kg
Power Drift = 0.18 dB
Maximum value of SAR (measured) = 0.468 W/kg



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Plot W3

Date/Time: 2015-01-13 10:03:06

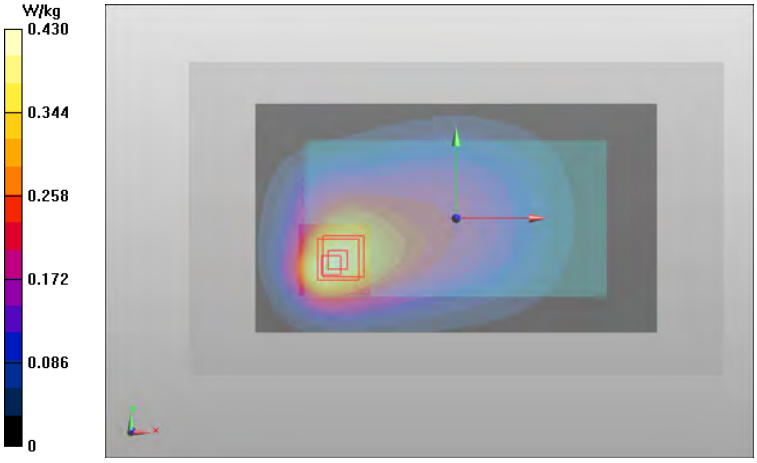
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107064/7, 004402/74/107065/4

Communication System: LTE700 (Band 17)
Frequency: **709 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.1 C
Medium parameters used: f = 709 MHz; σ = 0.948 S/m; ε_r = 54.33; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 17)/Body - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - 10mm - No Headset - Back - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.952 V/m
Fast SAR: SAR(1 g) = 0.372 W/kg
Fast SAR(10 g) = 0.259 W/kg
Maximum value of SAR (interpolated) = 0.430 W/kg

LTE700 (Band 17)/Body - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - 10mm - No Headset - Back - Antenna 2/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.492 V/m
Peak SAR (extrapolated) = 0.516 W/kg
SAR(1 g) = 0.360 W/kg
SAR(10 g) = 0.248 W/kg
Power Drift = -0.10 dB
Maximum value of SAR (measured) = 0.407 W/kg



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Plot W4

Date/Time: 2015-01-16 12:44:29

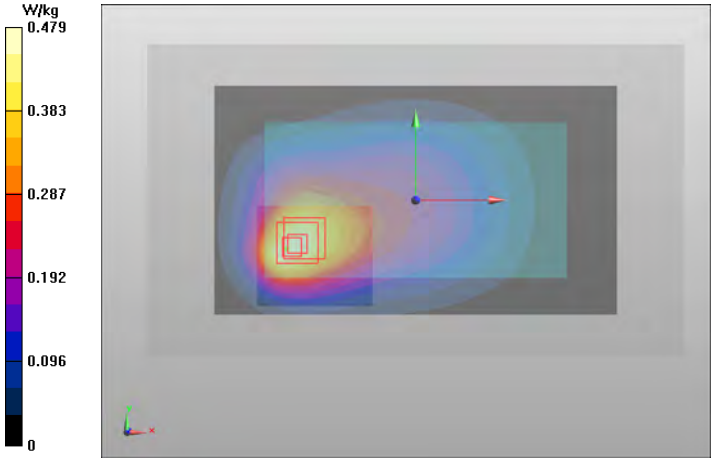
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105142/3

Communication System: LTE700 (Band 17)
Frequency: **709 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.0 C
Medium parameters used: f = 709 MHz; σ = 0.953 S/m; ε_r = 54.121; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 17)/Body - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - 10mm - No Headset - Back - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.082 V/m
Fast SAR: SAR(1 g) = 0.414 W/kg
Fast SAR(10 g) = 0.289 W/kg
Maximum value of SAR (interpolated) = 0.479 W/kg

LTE700 (Band 17)/Body - CH 23780 - 10MHz - QPSK - 1 RB - Offset 24 - 10mm - No Headset - Back - Antenna 2/Zoom Scan (8x9x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.082 V/m
Peak SAR (extrapolated) = 0.571 W/kg
SAR(1 g) = 0.399 W/kg
SAR(10 g) = 0.274 W/kg
Power Drift = -0.01 dB
Maximum value of SAR (measured) = 0.451 W/kg



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Plot W5

Date/Time: 2015-01-15 12:59:57

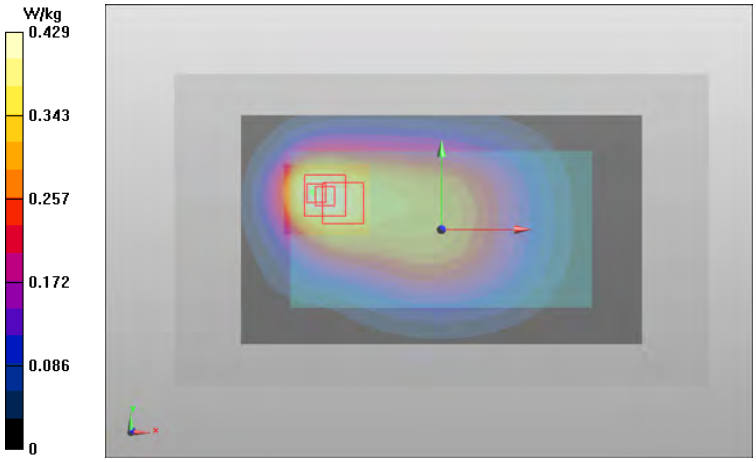
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107064/7, 004402/74/107065/4

Communication System: LTE700 (Band 28b)
Frequency: **725.5 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.1 C
Medium parameters used (interpolated): f = 725.5 MHz; σ = 0.954 S/m; ε_r = 53.677; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 28b)/Body - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.244 V/m
Fast SAR: SAR(1 g) = 0.377 W/kg
Fast SAR(10 g) = 0.271 W/kg
Maximum value of SAR (interpolated) = 0.429 W/kg

LTE700 (Band 28b)/Body - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - 10mm - No Headset - Back - Antenna 1/Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.285 V/m
Peak SAR (extrapolated) = 0.511 W/kg
SAR(1 g) = 0.369 W/kg
SAR(10 g) = 0.266 W/kg
Power Drift = 0.02 dB
Maximum value of SAR (measured) = 0.415 W/kg



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Plot W6

Date/Time: 2015-01-16 10:13:16

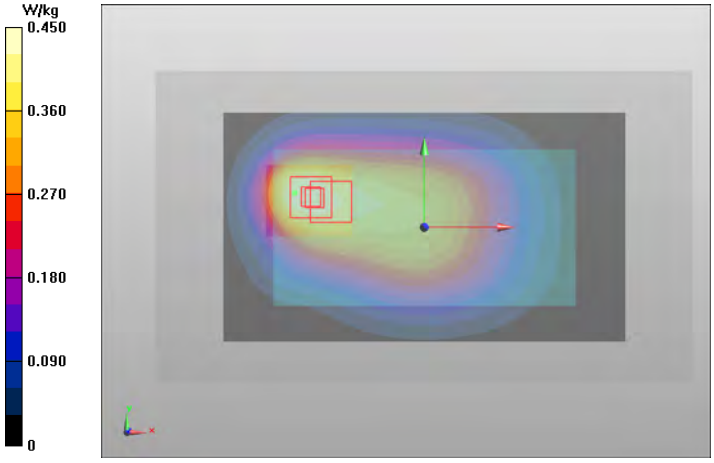
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105142/3

Communication System: LTE700 (Band 28b)
Frequency: **725.5 MHz**; Duty Cycle: 1:1
Medium: BSL750; Medium Notes: t= 22.0 C
Medium parameters used (interpolated): f = 725.5 MHz; σ = 0.962 S/m; ε_r = 54.024; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3835
- ConvF(8.8, 8.8, 8.8); Calibrated: 2014-10-20;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1213; Calibrated: 2014-10-14
- Phantom: #2 Triple, SAR4; Type: QD 000 P51 CA; Serial: TP-1123/1 (750 MHz), TP-1124/1 (2450 MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE700 (Band 28a_b)/Body - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.869 V/m
Fast SAR: SAR(1 g) = 0.400 W/kg
Fast SAR(10 g) = 0.288 W/kg
Maximum value of SAR (interpolated) = 0.450 W/kg

LTE700 (Band 28a_b)/Body - CH 27435 - 20MHz - QPSK - 1 RB - Offset 99 - 10mm - No Headset - Back - Antenna 1/Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.869 V/m
Peak SAR (extrapolated) = 0.551 W/kg
SAR(1 g) = 0.394 W/kg
SAR(10 g) = 0.285 W/kg
Power Drift = -0.02 dB
Maximum value of SAR (measured) = 0.445 W/kg



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Plot W7

Date/Time: 2015-01-14 13:25:29

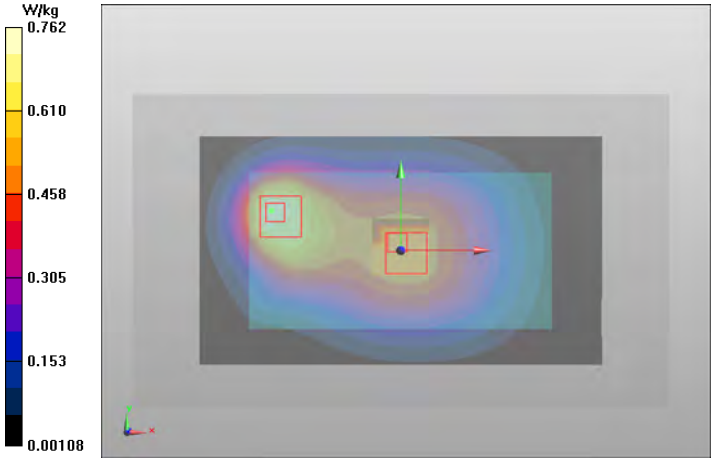
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107172/8, 004402/74/107173/6

Communication System: 2-slot GPRS850
Frequency: **836.6 MHz**; Duty Cycle: 1:4.19952
Medium: BSL835; Medium Notes: t= 21.5 C
Medium parameters used: f = 837 MHz; σ = 0.972 S/m; ε_r = 54.075; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

2-slot GPRS850/Body - CH 190 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.947 V/m
Fast SAR: SAR(1 g) = 0.655 W/kg
Fast SAR(10 g) = 0.458 W/kg
Maximum value of SAR (interpolated) = 0.762 W/kg

2-slot GPRS850/Body - CH 190 - 10mm - No Headset - Back - Antenna 1/Zoom Scan 2 (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 27.616 V/m
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.650 W/kg
SAR(10 g) = 0.404 W/kg
Power Drift = 0.08 dB
Maximum value of SAR (measured) = 0.492 W/kg



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Plot W8

Date/Time: 2015-01-17 17:19:42

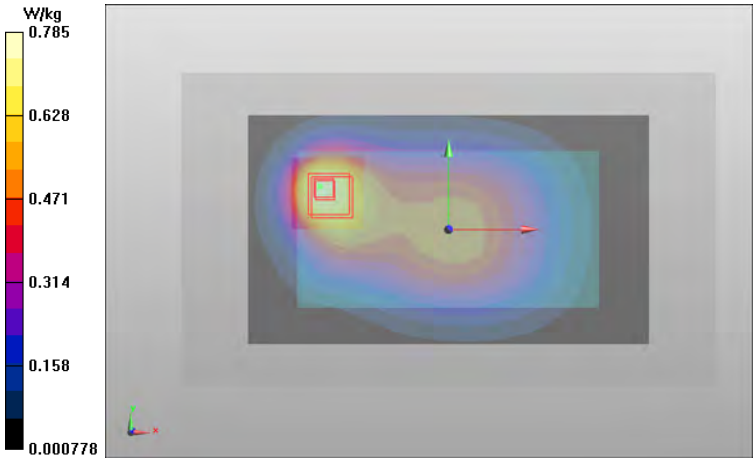
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105151/4

Communication System: 2-slot GPRS850
Frequency: **836.6 MHz**; Duty Cycle: 1:4.19952
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 837 MHz; σ = 0.977 S/m; ε_r = 53.879; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

2-slot GPRS850/Body - CH 190 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 28.132 V/m
Fast SAR: SAR(1 g) = 0.669 W/kg
Fast SAR(10 g) = 0.463 W/kg
Maximum value of SAR (interpolated) = 0.785 W/kg

2-slot GPRS850/Body - CH 190 - 10mm - No Headset - Back - Antenna 1/Zoom Scan (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 28.132 V/m
Peak SAR (extrapolated) = 0.968 W/kg
SAR(1 g) = 0.635 W/kg
SAR(10 g) = 0.428 W/kg
Power Drift = -0.18 dB
Maximum value of SAR (measured) = 0.736 W/kg



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Plot W9

Date/Time: 2015-01-13 16:48:28

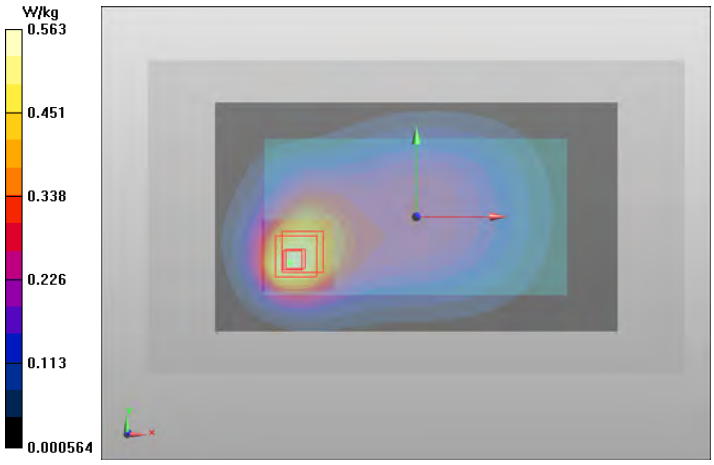
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107172/8, 004402/74/107173/6

Communication System: WCDMA850 (Band 5)
Frequency: **835 MHz**; Duty Cycle: 1:1
Medium: BSL835; Medium Notes: t= 21.6 C
Medium parameters used: f = 835 MHz; σ = 0.971 S/m; ε_r = 53.733; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA850 (Band 5)/Body - CH 4175 - 10mm - No Headset - Back - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.452 V/m
Fast SAR: SAR(1 g) = 0.480 W/kg
Fast SAR(10 g) = 0.328 W/kg
Maximum value of SAR (interpolated) = 0.563 W/kg

WCDMA850 (Band 5)/Body - CH 4175 - 10mm - No Headset - Back - Antenna 2/Zoom Scan (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.465 V/m
Peak SAR (extrapolated) = 0.705 W/kg
SAR(1 g) = 0.455 W/kg
SAR(10 g) = 0.303 W/kg
Power Drift = -0.05 dB
Maximum value of SAR (measured) = 0.531 W/kg



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Plot W10

Date/Time: 2015-01-17 16:52:18

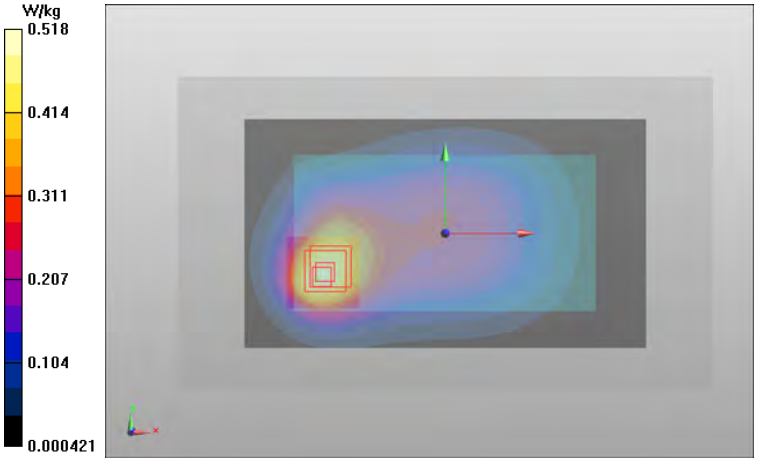
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105151/4

Communication System: WCDMA850 (Band 5)
Frequency: **835 MHz**; Duty Cycle: 1:1
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 835 MHz; σ = 0.976 S/m; ε_r = 53.891; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA850 (Band 5)/Body - CH 4175 - 10mm - No Headset - Back - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.689 V/m
Fast SAR: SAR(1 g) = 0.441 W/kg
Fast SAR(10 g) = 0.302 W/kg
Maximum value of SAR (interpolated) = 0.518 W/kg

WCDMA850 (Band 5)/Body - CH 4175 - 10mm - No Headset - Back - Antenna 2/Zoom Scan (6x6x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.689 V/m
Peak SAR (extrapolated) = 0.640 W/kg
SAR(1 g) = 0.424 W/kg
SAR(10 g) = 0.284 W/kg
Power Drift = -0.02 dB
Maximum value of SAR (measured) = 0.483 W/kg



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Plot W11

Date/Time: 2015-01-12 17:42:22

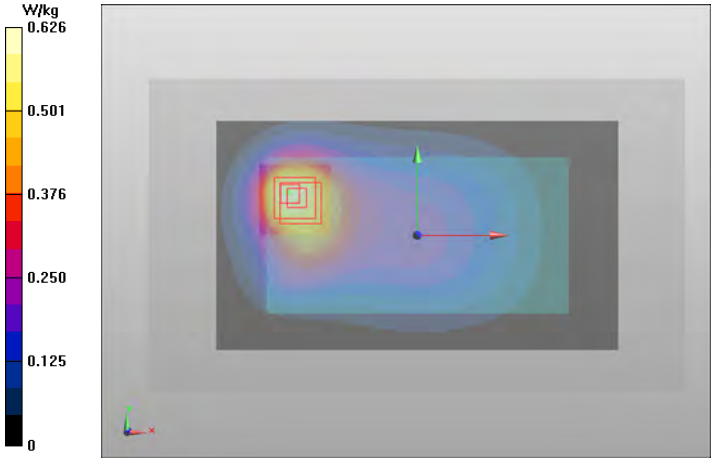
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107172/8, 004402/74/107173/6

Communication System: LTE850 (Band 5)
Frequency: **829 MHz**; Duty Cycle: 1:1
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 829 MHz; σ = 0.968 S/m; ε_r = 53.288; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE850 (Band 5)/Body - CH 20450 - 10MHz - QPSK - 1 RB - Offset 24 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.618 V/m
Fast SAR: SAR(1 g) = 0.531 W/kg
Fast SAR(10 g) = 0.365 W/kg
Maximum value of SAR (interpolated) = 0.626 W/kg

LTE850 (Band 5)/Body - CH 20450 - 10MHz - QPSK - 1 RB - Offset 24 - 10mm - No Headset - Back - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.884 V/m
Peak SAR (extrapolated) = 0.777 W/kg
SAR(1 g) = 0.516 W/kg
SAR(10 g) = 0.345 W/kg
Power Drift = 0.02 dB
Maximum value of SAR (measured) = 0.592 W/kg



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Plot W12

Date/Time: 2015-01-17 16:06:07

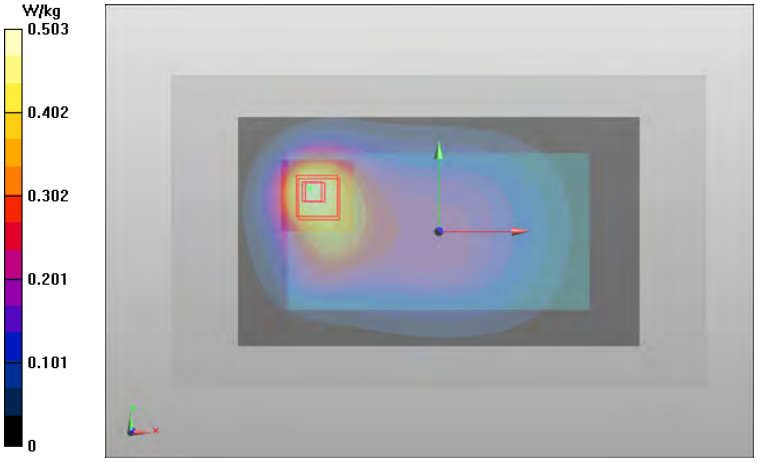
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105151/4

Communication System: LTE850 (Band 5)
Frequency: **829 MHz**; Duty Cycle: 1:1
Medium: BSL835; Medium Notes: t= 21.8 C
Medium parameters used: f = 829 MHz; σ = 0.972 S/m; ε_r = 53.934; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3131
- ConvF(5.96, 5.96, 5.96); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn793; Calibrated: 2014-10-14
- Phantom: SAM 3 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1123/3
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE850 (Band 5)/Body - CH 20450 - 10MHz - QPSK - 1 RB - Offset 0 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.162 V/m
Fast SAR: SAR(1 g) = 0.426 W/kg
Fast SAR(10 g) = 0.294 W/kg
Maximum value of SAR (interpolated) = 0.503 W/kg

LTE850 (Band 5)/Body - CH 20450 - 10MHz - QPSK - 1 RB - Offset 0 - 10mm - No Headset - Back - Antenna 1/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 22.162 V/m
Peak SAR (extrapolated) = 0.628 W/kg
SAR(1 g) = 0.414 W/kg
SAR(10 g) = 0.277 W/kg
Power Drift = 0.01 dB
Maximum value of SAR (measured) = 0.482 W/kg



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Plot W13

Date/Time: 2015-01-08 09:50:56

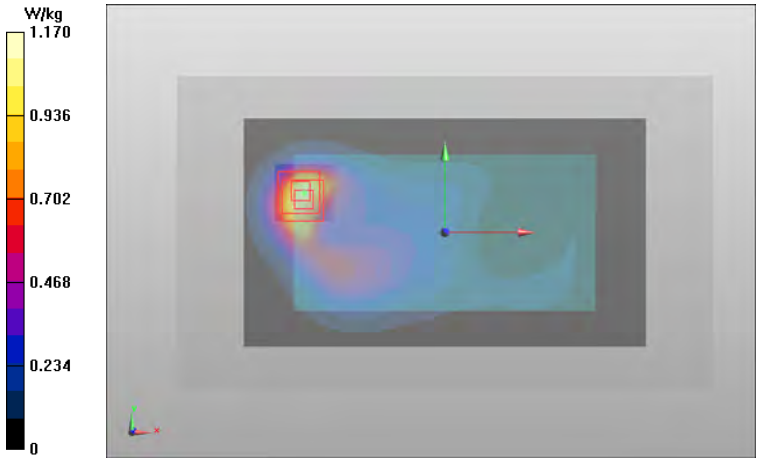
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107070/4, 004402/74/107071/2

Communication System: WCDMA1700/2100 (Band 4)
Frequency: **1732.4 MHz**; Duty Cycle: 1:1
Medium: BSL1750; Medium Notes: t= 22.9 C
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.435 S/m; ε_r = 52.252; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(4.83, 4.83, 4.83); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: Triple Flat Phantom 5.1C; Type: SN 000 T01 DA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1700_2100 (Band 4)/Body - CH 1412 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.242 V/m
Fast SAR: SAR(1 g) = 0.948 W/kg
Fast SAR(10 g) = 0.535 W/kg
Maximum value of SAR (interpolated) = 1.17 W/kg

WCDMA1700_2100 (Band 4)/Body - CH 1412 - 10mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.791 V/m
Peak SAR (extrapolated) = 1.66 W/kg
SAR(1 g) = 0.938 W/kg
SAR(10 g) = 0.492 W/kg
Power Drift = -0.05 dB
Maximum value of SAR (measured) = 1.17 W/kg



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Plot W14

Date/Time: 2015-01-18 11:54:27

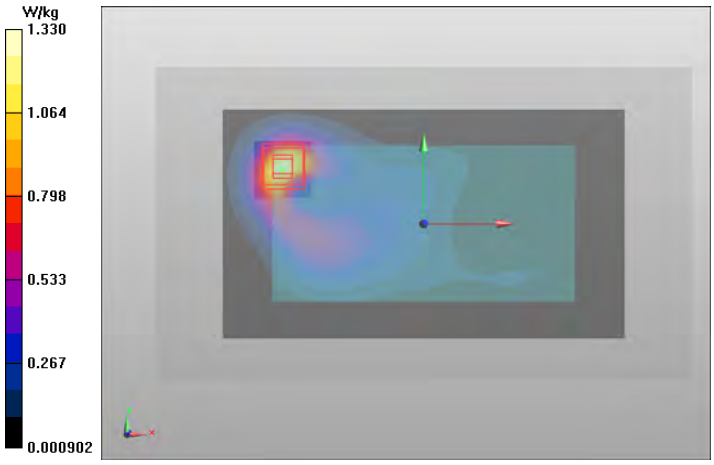
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105143/1

Communication System: WCDMA1700/2100 (Band 4)
Frequency: **1732.4 MHz**; Duty Cycle: 1:1
Medium: BSL1750; Medium Notes: t= 21.9 C
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.428 S/m; ε_r = 51.382; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(4.83, 4.83, 4.83); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: Triple Flat Phantom 5.1C; Type: SN 000 T01 DA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1700_2100 (Band 4)/Body - CH 1412 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.450 V/m
Fast SAR: SAR(1 g) = 1.03 W/kg
Fast SAR(10 g) = 0.534 W/kg
Maximum value of SAR (interpolated) = 1.33 W/kg

WCDMA1700_2100 (Band 4)/Body - CH 1412 - 10mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 19.450 V/m
Peak SAR (extrapolated) = 1.79 W/kg
SAR(1 g) = 1.01 W/kg
SAR(10 g) = 0.524 W/kg
Power Drift = -0.09 dB
Maximum value of SAR (measured) = 1.24 W/kg



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Plot W15

Date/Time: 2015-01-08 18:14:34

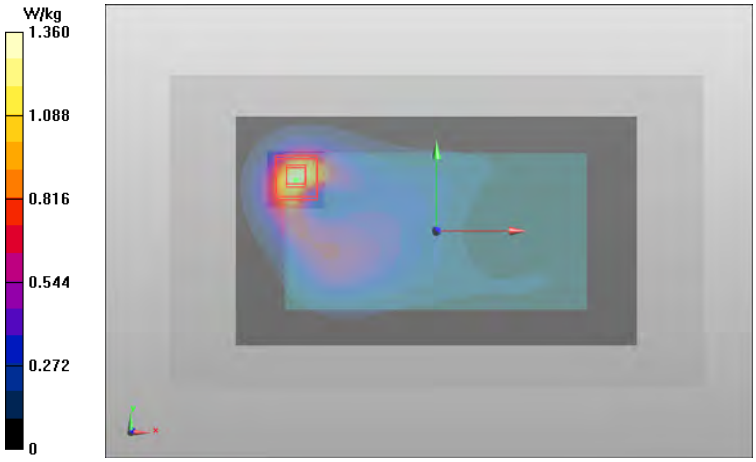
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107070/4, 004402/74/107071/2

Communication System: LTE1700/2100 (Band 4)
Frequency: **1732.5 MHz**; Duty Cycle: 1:1
Medium: BSL1750; Medium Notes: t= 22.9 C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.435 S/m; ε_r = 52.252; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(4.83, 4.83, 4.83); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: Triple Flat Phantom 5.1C; Type: SN 000 T01 DA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1700_2100 (Band 4)/Body - CH 20175 - 20MHz - QPSK - 1 RB - Offset 0 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 30.982 V/m
Fast SAR: SAR(1 g) = 1.04 W/kg
Fast SAR(10 g) = 0.537 W/kg
Maximum value of SAR (interpolated) = 1.36 W/kg

LTE1700_2100 (Band 4)/Body - CH 20175 - 20MHz - QPSK - 1 RB - Offset 0 - 10mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 30.007 V/m
Peak SAR (extrapolated) = 1.72 W/kg
SAR(1 g) = 0.981 W/kg
SAR(10 g) = 0.517 W/kg
Power Drift = -0.02 dB
Maximum value of SAR (measured) = 1.21 W/kg



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Plot W16

Date/Time: 2015-01-20 07:55:10

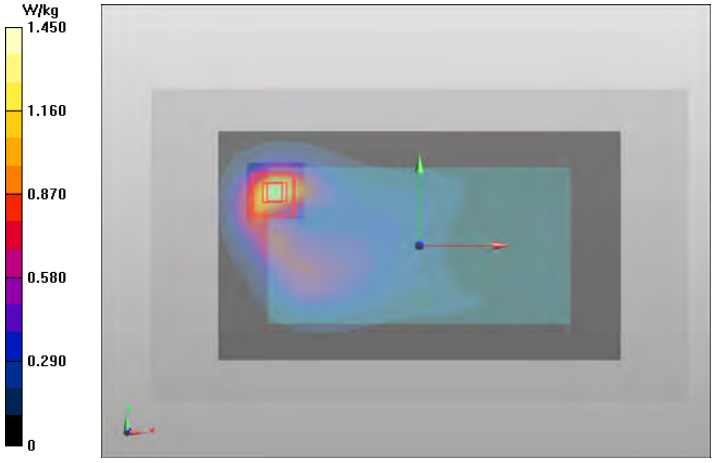
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105143/1

Communication System: LTE1700/2100 (Band 4)
Frequency: **1732.5 MHz**; Duty Cycle: 1:1
Medium: BSL1750; Medium Notes: t= 23.0 C
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.432 S/m; ε_r = 52.574; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3165
- ConvF(4.83, 4.83, 4.83); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn555; Calibrated: 2014-11-03
- Phantom: Triple Flat Phantom 5.1C; Type: SN 000 T01 DA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1700_2100 (Band 4)/Body - CH 20175 - 20MHz - QPSK - 1RB - Offset 0 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.565 V/m
Fast SAR: SAR(1 g) = 1.1 W/kg
Fast SAR(10 g) = 0.569 W/kg
Maximum value of SAR (interpolated) = 1.45 W/kg

LTE1700_2100 (Band 4)/Body - CH 20175 - 20MHz - QPSK - 1RB - Offset 0 - 10mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 23.543 V/m
Peak SAR (extrapolated) = 1.86 W/kg
SAR(1 g) = 1.08 W/kg
SAR(10 g) = 0.574 W/kg
Power Drift = -0.04 dB
Maximum value of SAR (measured) = 1.35 W/kg



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Plot W17

Date/Time: 2015-01-14 11:07:39

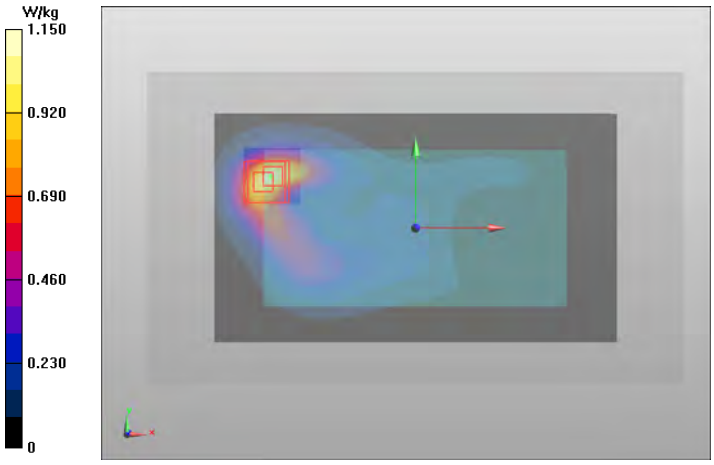
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107078/7, 004402/74/107079/5

Communication System: 3-slot GPRS1900
Frequency: **1850.2 MHz**; Duty Cycle: 1:2.80027
Medium: BSL1900; Medium Notes: t= 20.9 C
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.481 S/m; ε_r = 51.752; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

3-slot GPRS1900/Body - CH 512 - 10mm - No Headset - Back - Antenna 1 - Repeated/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.804 V/m
Fast SAR: SAR(1 g) = 0.875 W/kg
Fast SAR(10 g) = 0.464 W/kg
Maximum value of SAR (interpolated) = 1.15 W/kg

3-slot GPRS1900/Body - CH 512 - 10mm - No Headset - Back - Antenna 1 - Repeated/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 27.804 V/m
Peak SAR (extrapolated) = 1.71 W/kg
SAR(1 g) = 0.964 W/kg
SAR(10 g) = 0.501 W/kg
Power Drift = -0.00 dB
Maximum value of SAR (measured) = 1.16 W/kg



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Plot W18

Date/Time: 2015-01-16 10:56:11

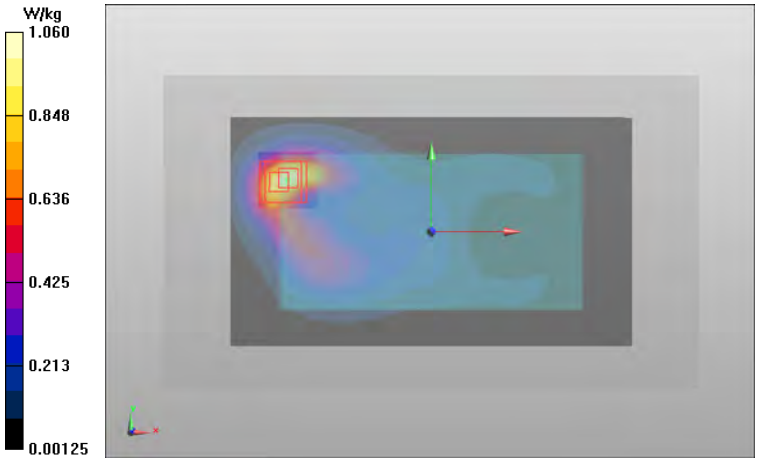
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105144/9

Communication System: 4-slot GPRS1900
Frequency: **1850.2 MHz**; Duty Cycle: 1:2.09991
Medium: BSL1900; Medium Notes: t= 20.6 C
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.484 S/m; ε_r = 51.828; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

4-slot GPRS1900/Body - CH 512 - 10mm - No Headset - Back - Antenna 1/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.038 V/m
Fast SAR: SAR(1 g) = 0.818 W/kg
Fast SAR(10 g) = 0.435 W/kg
Maximum value of SAR (interpolated) = 1.06 W/kg

4-slot GPRS1900/Body - CH 512 - 10mm - No Headset - Back - Antenna 1/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 18.072 V/m
Peak SAR (extrapolated) = 1.49 W/kg
SAR(1 g) = 0.853 W/kg
SAR(10 g) = 0.453 W/kg
Power Drift = -0.12 dB
Maximum value of SAR (measured) = 1.03 W/kg



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Plot W19

Date/Time: 2015-01-07 21:35:20

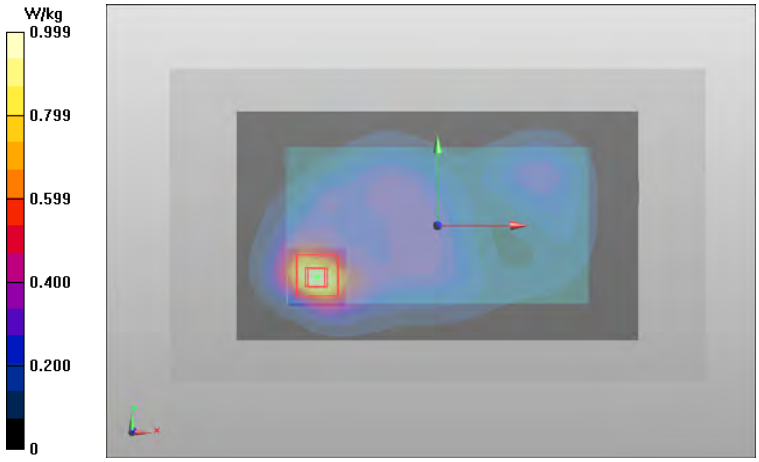
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107166/0, 004402/74/107167/8

Communication System: WCDMA1900 (Band 2)
Frequency: **1907.6 MHz**; Duty Cycle: 1:1
Medium: BSL1900; Medium Notes: t= 21.0 C
Medium parameters used: f = 1908 MHz; σ = 1.567 S/m; ε_r = 52.036; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1900 (Band 2)/Body - CH 9538 - 10mm - No Headset - Back - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.022 V/m
Fast SAR: SAR(1 g) = 0.782 W/kg
Fast SAR(10 g) = 0.424 W/kg
Maximum value of SAR (interpolated) = 0.999 W/kg

WCDMA1900 (Band 2)/Body - CH 9538 - 10mm - No Headset - Back - Antenna 2/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 24.913 V/m
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.816 W/kg
SAR(10 g) = 0.445 W/kg
Power Drift = 0.00 dB
Maximum value of SAR (measured) = 1.02 W/kg



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Plot W20

Date/Time: 2015-01-16 12:26:37

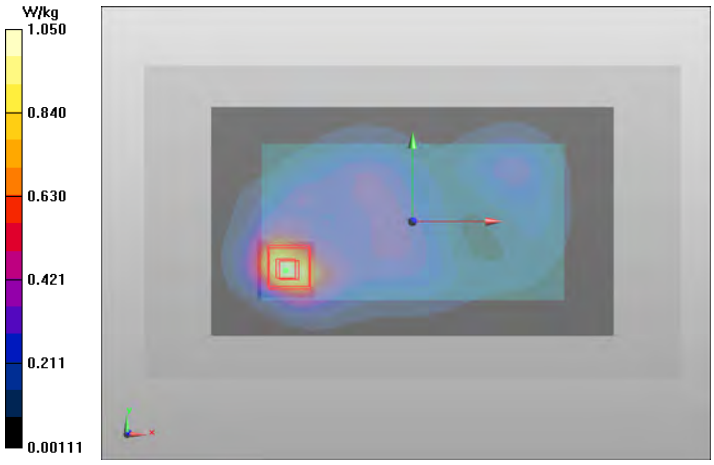
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105144/9

Communication System: WCDMA1900 (Band 2)
Frequency: **1907.6 MHz**; Duty Cycle: 1:1
Medium: BSL1900; Medium Notes: t= 20.6 C
Medium parameters used: f = 1908 MHz; σ = 1.54 S/m; ε_r = 51.637; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WCDMA1900 (Band 2)/Body - CH 9538 - 10mm - No Headset - Back - Antenna 2/Area Scan (81x141x1):
Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 20.734 V/m
Fast SAR: SAR(1 g) = 0.812 W/kg
Fast SAR(10 g) = 0.450 W/kg
Maximum value of SAR (interpolated) = 1.05 W/kg

WCDMA1900 (Band 2)/Body - CH 9538 - 10mm - No Headset - Back - Antenna 2/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 20.676 V/m
Peak SAR (extrapolated) = 1.50 W/kg
SAR(1 g) = 0.846 W/kg
SAR(10 g) = 0.464 W/kg
Power Drift = -0.05 dB
Maximum value of SAR (measured) = 1.06 W/kg



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Plot W21

Date/Time: 2015-01-08 08:52:09

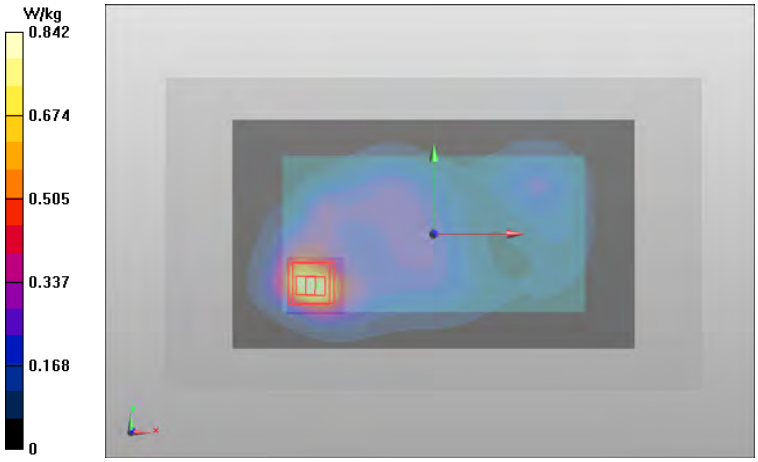
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107166/0, 004402/74/107167/8

Communication System: LTE1900 (Band 2)
Frequency: **1900 MHz**; Duty Cycle: 1:1
Medium: BSL1900; Medium Notes: t= 20.7 C
Medium parameters used: f = 1900 MHz; σ = 1.555 S/m; ε_r = 51.975; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1900 (Band 2)/Body - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - 10mm - No Headset - Back - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 22.625 V/m
Fast SAR: SAR(1 g) = 0.653 W/kg
Fast SAR(10 g) = 0.351 W/kg
Maximum value of SAR (interpolated) = 0.842 W/kg

LTE1900 (Band 2)/Body - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - 10mm - No Headset - Back - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 21.216 V/m
Peak SAR (extrapolated) = 1.15 W/kg
SAR(1 g) = 0.631 W/kg
SAR(10 g) = 0.337 W/kg
Power Drift = 0.06 dB
Maximum value of SAR (measured) = 0.793 W/kg



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Plot W22

Date/Time: 2015-01-16 12:46:26

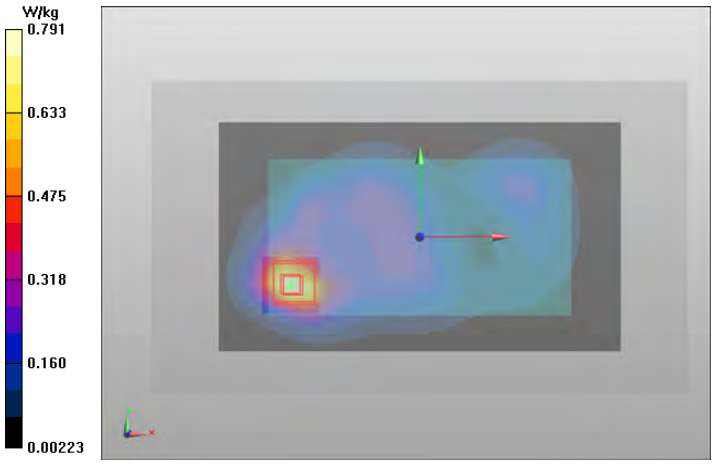
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105144/9

Communication System: LTE1900 (Band 2)
Frequency: **1900 MHz**; Duty Cycle: 1:1
Medium: BSL1900; Medium Notes: t= 20.6 C
Medium parameters used: f = 1900 MHz; σ = 1.532 S/m; ε_r = 51.661; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: EX3DV4 - SN3834
- ConvF(7.15, 7.15, 7.15); Calibrated: 2014-05-08;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1355; Calibrated: 2014-05-13
- Phantom: SAM 2 Triple Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP-1124/2 (1800MHz), TP-1123/2 (1900MHz)
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE1900 (Band 2)/Body - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - 10mm - No Headset - Back - Antenna 2/Area Scan (81x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.586 V/m
Fast SAR: SAR(1 g) = 0.602 W/kg
Fast SAR(10 g) = 0.332 W/kg
Maximum value of SAR (interpolated) = 0.791 W/kg

LTE1900 (Band 2)/Body - CH 19100 - 20MHz - QPSK - 1 RB - Offset 0 - 10mm - No Headset - Back - Antenna 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 17.524 V/m
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.635 W/kg
SAR(10 g) = 0.344 W/kg
Power Drift = 0.00 dB
Maximum value of SAR (measured) = 0.799 W/kg



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Plot W23

Date/Time: 2015-01-14 08:09:53

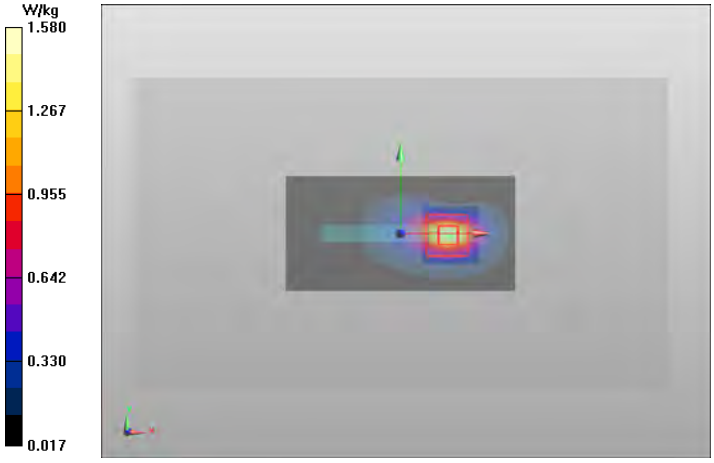
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107068/8, 004402/74/107069/6

Communication System: LTE2500 (Band 7)
Frequency: **2510 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.5 C
Medium parameters used: f = 2510 MHz; σ = 1.968 S/m; ε_r = 51.193; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(3.93, 3.93, 3.93); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE2500 (Band 7) - Bottom/Body - CH 20850 - 20MHz - QPSK - 1 RB - Offset 99 - 10mm - No Headset - Bottom - Antenna 2 - Repeated/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 27.286 V/m
Fast SAR: SAR(1 g) = 1.13 W/kg
Fast SAR(10 g) = 0.492 W/kg
Maximum value of SAR (interpolated) = 1.58 W/kg

LTE2500 (Band 7) - Bottom/Body - CH 20850 - 20MHz - QPSK - 1 RB - Offset 99 - 10mm - No Headset - Bottom - Antenna 2 - Repeated/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.389 V/m
Peak SAR (extrapolated) = 2.48 W/kg
SAR(1 g) = 1.16 W/kg
SAR(10 g) = 0.519 W/kg
Power Drift = -0.04 dB
Maximum value of SAR (measured) = 1.55 W/kg



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Plot W24

Date/Time: 2015-01-18 14:17:57

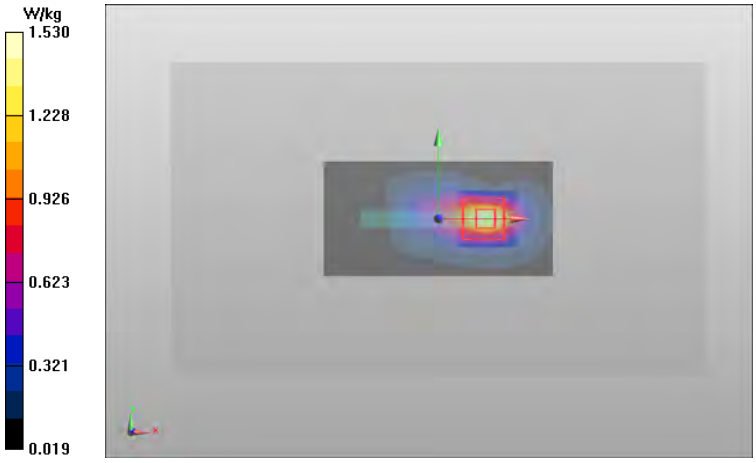
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105149/8

Communication System: LTE2500 (Band 7)
Frequency: **2535 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.0 C
Medium parameters used: f = 2535 MHz; σ = 2.007 S/m; ε_r = 50.691; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(3.93, 3.93, 3.93); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE2500 (Band 7) - Bottom/Body - CH 20850 - 20MHz - QPSK - 1 RB - Offset 99 - 10mm - No Headset - Bottom - Antenna 2/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 27.235 V/m
Fast SAR: SAR(1 g) = 1.12 W/kg
Fast SAR(10 g) = 0.510 W/kg
Maximum value of SAR (interpolated) = 1.53 W/kg

LTE2500 (Band 7) - Bottom/Body - CH 20850 - 20MHz - QPSK - 1 RB - Offset 99 - 10mm - No Headset - Bottom - Antenna 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 27.235 V/m
Peak SAR (extrapolated) = 2.39 W/kg
SAR(1 g) = 1.14 W/kg
SAR(10 g) = 0.532 W/kg
Power Drift = -0.02 dB
Maximum value of SAR (measured) = 1.51 W/kg



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Plot W25

Date/Time: 2015-01-09 18:37:31

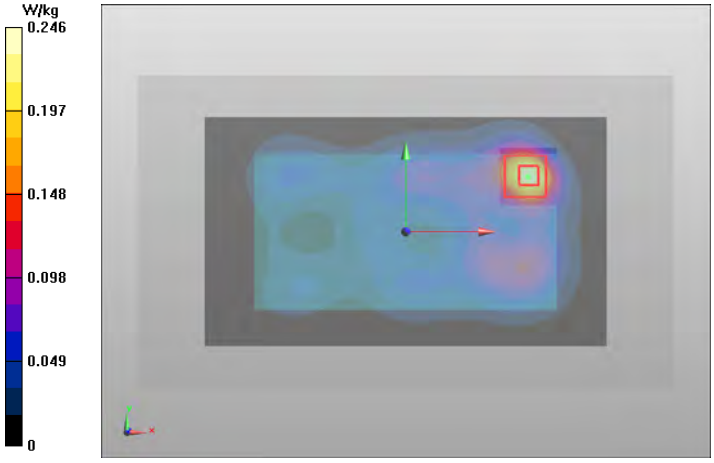
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107080/3, 04402/74/107081/1

Communication System: WLAN2450
Frequency: **2462 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.1 C
Medium parameters used: f = 2462 MHz; σ = 1.947 S/m; ε_r = 50.986; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.03, 4.03, 4.03); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WLAN2450 b-mode/Body - CH 11 - BPSK 1 Mbps - 10mm - No Headset - Back/Area Scan (121x211x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 11.451 V/m
Fast SAR: SAR(1 g) = 0.186 W/kg
Fast SAR(10 g) = 0.088 W/kg
Maximum value of SAR (interpolated) = 0.246 W/kg

WLAN2450 b-mode/Body - CH 11 - BPSK 1 Mbps - 10mm - No Headset - Back/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.576 V/m
Peak SAR (extrapolated) = 0.401 W/kg
SAR(1 g) = 0.195 W/kg
SAR(10 g) = 0.097 W/kg
Power Drift = 0.01 dB
Maximum value of SAR (measured) = 0.250 W/kg



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Plot W26

Date/Time: 2015-01-09 20:19:04

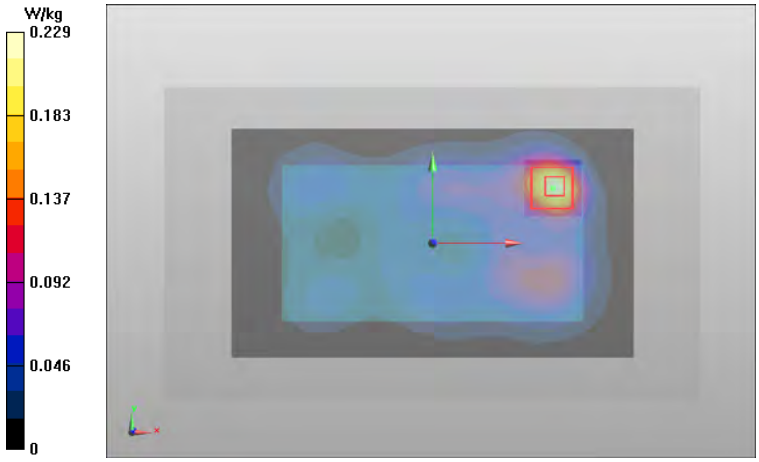
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 04402/74/105152/2

Communication System: WLAN2450
Frequency: **2462 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.1 C
Medium parameters used: f = 2462 MHz; σ = 1.947 S/m; ε_r = 50.986; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.03, 4.03, 4.03); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WLAN2450 b-mode/Body - CH 11 - BPSK 1 Mbps - 10mm - No Headset - Back/Area Scan (121x211x1):
Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 7.883 V/m
Fast SAR: SAR(1 g) = 0.173 W/kg
Fast SAR(10 g) = 0.082 W/kg
Maximum value of SAR (interpolated) = 0.229 W/kg

WLAN2450 b-mode/Body - CH 11 - BPSK 1 Mbps - 10mm - No Headset - Back/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.883 V/m
Peak SAR (extrapolated) = 0.361 W/kg
SAR(1 g) = 0.176 W/kg
SAR(10 g) = 0.088 W/kg
Power Drift = 0.05 dB
Maximum value of SAR (measured) = 0.226 W/kg



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Plot E1

Date/Time: 2015-01-14 09:58:49

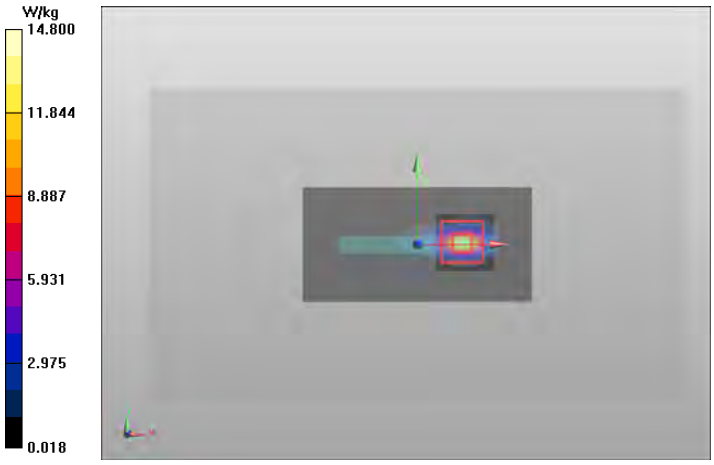
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107068/8, 004402/74/107069/6

Communication System: LTE2500 (Band 7)
Frequency: **2535 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.5 C
Medium parameters used: f = 2535 MHz; σ = 1.999 S/m; ε_r = 51.114; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(3.93, 3.93, 3.93); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE2500 (Band 7) - Bottom/Body - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - 0mm - No Headset - Bottom - Antenna 2 - Repeated/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 78.784 V/m
Fast SAR: SAR(1 g) = 8.7 W/kg
Fast SAR(10 g) = 2.84 W/kg
Maximum value of SAR (interpolated) = 14.8 W/kg

LTE2500 (Band 7) - Bottom/Body - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - 0mm - No Headset - Bottom - Antenna 2 - Repeated/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 78.682 V/m
Peak SAR (extrapolated) = 28.8 W/kg
SAR(1 g) = 8.84 W/kg
SAR(10 g) = 2.85 W/kg
Power Drift = -0.04 dB
Maximum value of SAR (measured) = 14.8 W/kg



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Plot E2

Date/Time: 2015-01-20 07:56:22

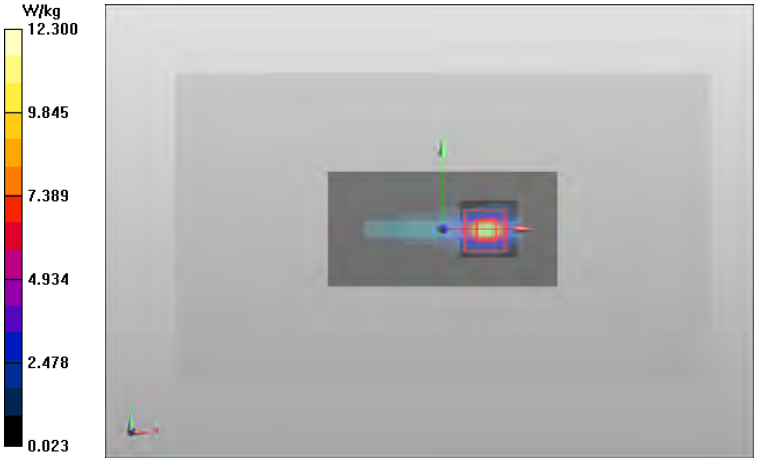
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105149/8

Communication System: LTE2500 (Band 7)
Frequency: **2535 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.2 C
Medium parameters used: f = 2535 MHz; σ = 2.012 S/m; ε_r = 50.768; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(3.93, 3.93, 3.93); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

LTE2500 (Band 7) - Bottom/Body - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - 0mm - No Headset – Bottom – Antenna 2/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 34.806 V/m
Fast SAR: SAR(1 g) = 7.51 W/kg
Fast SAR(10 g) = 2.53 W/kg
Maximum value of SAR (interpolated) = 12.3 W/kg

LTE2500 (Band 7) - Bottom/Body - CH 21100 - 20MHz - QPSK - 1 RB - Offset 99 - 0mm - No Headset – Bottom – Antenna 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 34.601 V/m
Peak SAR (extrapolated) = 23.9 W/kg
SAR(1 g) = 7.61 W/kg
SAR(10 g) = 2.53 W/kg
Power Drift = -0.04 dB
Maximum value of SAR (measured) = 12.3 W/kg



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Plot E3

Date/Time: 2015-01-18 11:54:56

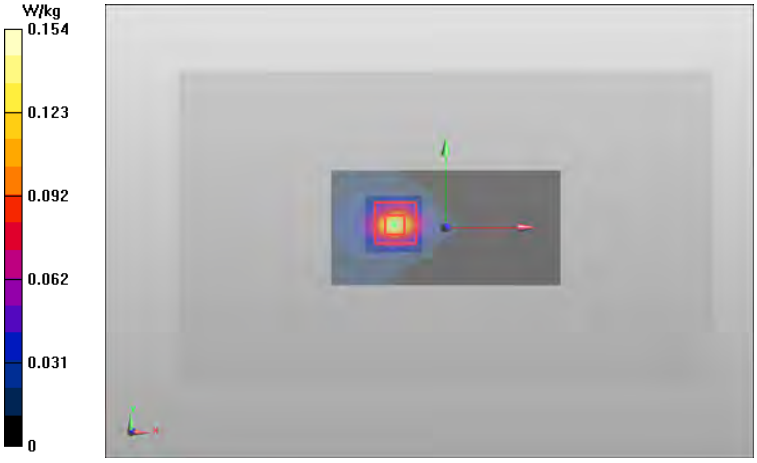
Test Laboratory: TCC Microsoft
Type: RM-1065; Serial: 004402/74/107080/3, 04402/74/107081/1

Communication System: WLAN2450
Frequency: **2462 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.0 C
Medium parameters used: f = 2462 MHz; σ = 1.924 S/m; ε_r = 50.888; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.03, 4.03, 4.03); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WLAN2450 b-mode - Bottom/Body - CH 11 - BPSK 1 Mbps - 0mm - No Headset - Bottom/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 8.603 V/m
Fast SAR: SAR(1 g) = 0.104 W/kg
Fast SAR(10 g) = 0.041 W/kg
Maximum value of SAR (interpolated) = 0.154 W/kg

WLAN2450 b-mode - Bottom/Body - CH 11 - BPSK 1 Mbps - 0mm - No Headset - Bottom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.675 V/m
Peak SAR (extrapolated) = 0.272 W/kg
SAR(1 g) = 0.111 W/kg
SAR(10 g) = 0.046 W/kg
Power Drift = 0.10 dB
Maximum value of SAR (measured) = 0.160 W/kg



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Plot E4

Date/Time: 2015-01-18 11:23:15

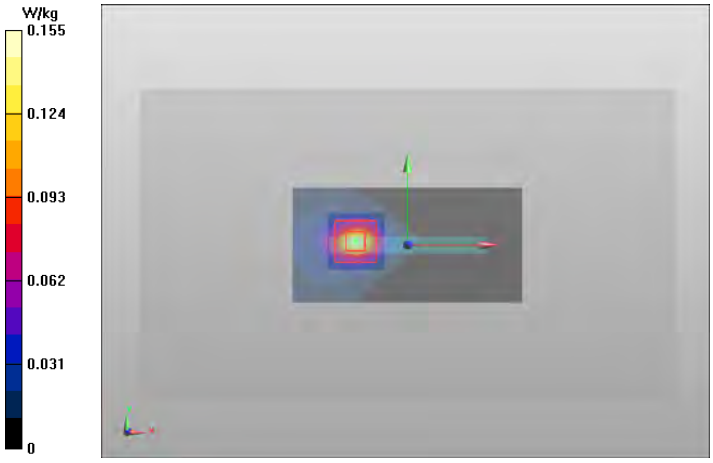
Test Laboratory: TCC Microsoft
Type: RM-1064; Serial: 004402/74/105152/2

Communication System: WLAN2450
Frequency: **2462 MHz**; Duty Cycle: 1:1
Medium: BSL2450-2600; Medium Notes: t= 22.0 C
Medium parameters used: f = 2462 MHz; σ = 1.924 S/m; ε_r = 50.888; ρ = 1000 kg/m^3
Phantom section: Center Section

DASY Configuration:
- Probe: ES3DV3 - SN3118
- ConvF(4.03, 4.03, 4.03); Calibrated: 2014-10-21;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1316; Calibrated: 2014-10-14
- Phantom: Triple, SAR6; Type: QD 000 P51 CA; Serial:
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.9 (7117)

WLAN2450 b-mode - Bottom/Body - CH 11 - BPSK 1 Mbps - 0mm - No Headset - Bottom/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Reference Value = 8.704 V/m
Fast SAR: SAR(1 g) = 0.106 W/kg
Fast SAR(10 g) = 0.042 W/kg
Maximum value of SAR (interpolated) = 0.155 W/kg

WLAN2450 b-mode - Bottom/Body - CH 11 - BPSK 1 Mbps - 0mm - No Headset - Bottom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.704 V/m
Peak SAR (extrapolated) = 0.263 W/kg
SAR(1 g) = 0.108 W/kg
SAR(10 g) = 0.044 W/kg
Power Drift = 0.00 dB
Maximum value of SAR (measured) = 0.155 W/kg



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APPENDIX C: DIELECTRIC PARAMETERS OF THE TISSUE SIMULANTS

Head tissue simulant dielectric parameters used in the measurements:

f (MHz)	LTE700 (Band 12)	Dielectric Parameters					
	Date	CH 23060 704.0 MHz		CH 23095 707.5 MHz		CH 23130 711.0 MHz	
		e_r	s [S/m]	e_r	s [S/m]	e_r	s [S/m]
707	2015-01-08	40.9	0.86	40.8	0.86	40.8	0.86
	2015-01-09	41.2	0.86	41.1	0.86	41.1	0.86
	2015-01-10	40.5	0.85	40.4	0.85	40.4	0.85
	2015-01-11	40.7	0.87	40.7	0.87	40.6	0.87
	2015-01-16	40.4	0.86	40.4	0.86	40.3	0.87

f (MHz)	LTE700 (Band 17)	Dielectric Parameters					
	Date	CH 23780 709.0 MHz		CH 23790 710.0 MHz		CH 23800 711.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
710	2015-01-08	40.8	0.86	40.8	0.86	40.8	0.86
	2015-01-09	41.1	0.86	41.1	0.86	41.1	0.86
	2015-01-10	40.4	0.85	40.4	0.85	40.4	0.85
	2015-01-11	40.7	0.87	40.7	0.87	40.6	0.87
	2015-01-16	40.3	0.87	40.3	0.87	40.3	0.87

f (MHz)	LTE700 (Band 28a)	Dielectric Parameters					
	Date	CH 27310 713.0 MHz		CH 27360 718.0 MHz		CH 27410 723.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
718	2015-01-08	40.8	0.86	40.8	0.87	40.7	0.87
	2015-01-09	41.1	0.87	41.1	0.87	41.0	0.87
	2015-01-10	40.4	0.85	40.4	0.86	40.4	0.86
	2015-01-11	40.6	0.87	40.6	0.88	40.6	0.88
	2015-01-16	40.3	0.87	40.3	0.87	40.2	0.87

f (MHz)	LTE700 (Band 28)	Dielectric Parameters					
	Date	CH 27310 713.0 MHz		CH 27435 725.5 MHz		CH 27560 738.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
725	2015-01-08	40.8	0.86	40.7	0.87	40.7	0.88
	2015-01-09	41.1	0.87	41.0	0.87	41.0	0.88
	2015-01-10	40.4	0.85	40.3	0.86	40.3	0.87
	2015-01-11	40.6	0.87	40.6	0.88	40.5	0.89
	2015-01-16	40.3	0.87	40.2	0.88	40.1	0.88

f (MHz)	LTE700 (Band 28b)	Dielectric Parameters					
	Date	CH 27460 728.0 MHz		CH 27510 733.0 MHz		CH 27560 738.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
733	2015-01-08	40.7	0.87	40.7	0.88	40.7	0.88
	2015-01-09	41.0	0.87	41.0	0.88	41.0	0.88
	2015-01-10	40.3	0.86	40.3	0.87	40.3	0.87
	2015-01-11	40.6	0.88	40.5	0.89	40.5	0.89
	2015-01-16	40.2	0.88	40.1	0.88	40.1	0.88

(Head tissue simulant table continues)

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(Head tissue simulant table continues)

f (MHz)	GSM 850	Dielectric Parameters					
	Date	CH 128 824.2 MHz		CH 190 836.6 MHz		CH 251 848.8 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
836	2015-01-08	41.1	0.91	41.0	0.92	41.0	0.92
	2015-01-09	40.6	0.90	40.5	0.91	40.5	0.92
	2015-01-10	40.7	0.90	40.6	0.91	40.6	0.92
	2015-01-11	40.0	0.89	40.0	0.90	39.9	0.91
	2015-01-16	40.3	0.89	40.2	0.90	40.1	0.91
f (MHz)	WCDMA850 (Band 5)	Dielectric Parameters					
	Date	CH 4132 826.4 MHz		CH 4175 835.0 MHz		CH 4233 846.6 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
835	2015-01-08	41.1	0.91	41.0	0.92	41.0	0.92
	2015-01-09	40.6	0.90	40.6	0.91	40.5	0.92
	2015-01-10	40.7	0.90	40.6	0.91	40.6	0.92
	2015-01-11	40.0	0.89	40.0	0.90	39.9	0.90
	2015-01-16	40.3	0.89	40.2	0.90	40.2	0.90
f (MHz)	LTE850 (Band 5)	Dielectric Parameters					
	Date	CH 20450 829.0 MHz		CH 20525 836.5 MHz		CH 20600 844.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
836	2015-01-08	41.1	0.91	41.0	0.92	41.0	0.92
	2015-01-09	40.6	0.90	40.5	0.91	40.5	0.91
	2015-01-10	40.7	0.90	40.6	0.91	40.6	0.92
	2015-01-11	40.0	0.89	40.0	0.90	39.9	0.90
	2015-01-16	40.3	0.89	40.2	0.90	40.2	0.90
f (MHz)	WCDMA1700/2100 (Band 4)	Dielectric Parameters					
	Date	CH 1312 1712.4 MHz		CH 1412 1732.4 MHz		CH 1513 1752.6 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
1732	2015-01-12	39.3	1.28	39.3	1.30	39.2	1.31
	2015-01-13	39.4	1.28	39.4	1.30	39.3	1.32
	2015-01-14	39.1	1.29	39.0	1.30	39.0	1.32
	2015-01-18	39.2	1.29	39.1	1.31	39.1	1.33
f (MHz)	LTE1700/2100 (Band 4)	Dielectric Parameters					
	Date	CH 20050 1720.0 MHz		CH 20175 1732.5 MHz		CH 20300 1745.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
1732	2015-01-12	39.3	1.28	39.3	1.30	39.2	1.31
	2015-01-13	39.4	1.29	39.4	1.30	39.3	1.31
	2015-01-14	39.1	1.29	39.0	1.30	39.0	1.31
	2015-01-18	39.2	1.30	39.1	1.31	39.1	1.33

(Head tissue simulant table continues)

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(Head tissue simulant table continues)

f (MHz)	GSM 1900	Dielectric Parameters					
	Date	CH 512 1850.2 MHz		CH 661 1880.0 MHz		CH 810 1909.8 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
1880	2015-01-08	39.3	1.36	39.1	1.39	39.0	1.42
	2015-01-12	38.8	1.35	38.6	1.37	38.5	1.40
	2015-01-14	38.9	1.31	38.8	1.34	38.7	1.37
	2015-01-17	38.9	1.34	38.8	1.37	38.7	1.40
f (MHz)	WCDMA1900 (Band 2)	Dielectric Parameters					
	Date	CH 9262 1852.4 MHz		CH 9400 1880.0 MHz		CH 9538 1907.6 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
1880	2015-01-08	39.3	1.37	39.1	1.39	39.0	1.42
	2015-01-12	38.8	1.35	38.6	1.37	38.5	1.40
	2015-01-14	38.9	1.32	38.8	1.34	38.7	1.37
	2015-01-17	38.9	1.34	38.8	1.37	38.7	1.39
f (MHz)	LTE1900 (Band 2)	Dielectric Parameters					
	Date	CH 18700 1860.0 MHz		CH 18900 1880.0 MHz		CH 19100 1900.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
1880	2015-01-08	39.2	1.37	39.1	1.39	39.0	1.41
	2015-01-12	38.7	1.36	38.6	1.37	38.6	1.39
	2015-01-14	38.9	1.32	38.8	1.34	38.7	1.36
	2015-01-17	38.9	1.35	38.8	1.37	38.7	1.39
f (MHz)	WLAN 2450	Dielectric Parameters					
	Date	CH 1 2412.0 MHz		CH 6 2437.0 MHz		CH 11 2462.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
2437	2015-01-05	39.0	1.76	38.9	1.79	38.8	1.81
	2015-01-07	38.9	1.77	38.8	1.80	38.7	1.82
	2015-01-08	38.5	1.81	38.4	1.83	38.3	1.85
f (MHz)	LTE2500 (Band 7)	Dielectric Parameters					
	Date	CH 20850 2510.0 MHz		CH 21100 2535.0 MHz		CH 21350 2560.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
2535	2015-01-15	38.1	1.84	38.0	1.87	37.9	1.89
	2015-01-16	37.6	1.87	37.5	1.90	37.4	1.93
	2015-01-19	37.8	1.86	37.7	1.89	37.7	1.92

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Body tissue simulant dielectric parameters used in the measurements:

f (MHz)	LTE700 (Band 12)	Dielectric Parameters					
	Date	CH 23060 704.0 MHz		CH 23095 707.5 MHz		CH 23130 711.0 MHz	
		e_r	s [S/m]	e_r	s [S/m]	e_r	s [S/m]
707	2015-01-12	54.4	0.94	54.4	0.94	54.4	0.94
	2015-01-13	54.4	0.94	54.3	0.95	54.3	0.95
	2015-01-14	54.2	0.95	54.1	0.95	54.1	0.95
	2015-01-15	53.8	0.94	53.8	0.94	53.8	0.94
	2015-01-16	54.2	0.95	54.1	0.95	54.1	0.95
f (MHz)	LTE700 (Band 17)	Dielectric Parameters					
	Date	CH 23780 709.0 MHz		CH 23790 710.0 MHz		CH 23800 711.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
710	2015-01-12	54.4	0.94	54.4	0.94	54.4	0.94
	2015-01-13	54.3	0.95	54.3	0.95	54.3	0.95
	2015-01-14	54.1	0.95	54.1	0.95	54.1	0.95
	2015-01-15	53.8	0.94	53.8	0.94	53.8	0.94
	2015-01-16	54.1	0.95	54.1	0.95	54.1	0.95
f (MHz)	LTE700 (Band 28a)	Dielectric Parameters					
	Date	CH 27310 713.0 MHz		CH 27360 718.0 MHz		CH 27410 723.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
718	2015-01-12	54.4	0.95	54.4	0.95	54.3	0.95
	2015-01-13	54.3	0.95	54.3	0.95	54.2	0.95
	2015-01-14	54.1	0.95	54.1	0.95	54.0	0.96
	2015-01-15	53.8	0.95	53.7	0.95	53.7	0.95
	2015-01-16	54.1	0.95	54.1	0.96	54.0	0.96
f (MHz)	LTE700 (Band 28)	Dielectric Parameters					
	Date	CH 27310 713.0 MHz		CH 27435 725.5 MHz		CH 27560 738.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
725	2015-01-12	54.4	0.95	54.3	0.95	54.2	0.96
	2015-01-13	54.3	0.95	54.2	0.96	54.2	0.96
	2015-01-14	54.1	0.95	54.0	0.96	54.0	0.96
	2015-01-15	53.8	0.95	53.7	0.95	53.6	0.96
	2015-01-16	54.1	0.95	54.0	0.96	53.9	0.97
f (MHz)	LTE700 (Band 28b)	Dielectric Parameters					
	Date	CH 27460 728.0 MHz		CH 27510 733.0 MHz		CH 27560 738.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
733	2015-01-12	54.3	0.95	54.3	0.96	54.2	0.96
	2015-01-13	54.2	0.96	54.2	0.96	54.2	0.96
	2015-01-14	54.0	0.96	54.0	0.96	54.0	0.96
	2015-01-15	53.7	0.95	53.6	0.96	53.6	0.96
	2015-01-16	54.0	0.96	54.0	0.96	53.9	0.97

(Body tissue simulant table continues)

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(Body tissue simulant table continues)

f (MHz)	GSM 850	Dielectric Parameters					
	Date	CH 128 824.2 MHz		CH 190 836.6 MHz		CH 251 848.8 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
836	2015-01-12	53.3	0.96	53.2	0.97	53.2	0.98
	2015-01-13	53.8	0.96	53.7	0.97	53.7	0.98
	2015-01-14	54.2	0.96	54.1	0.97	54.0	0.98
	2015-01-17	54.0	0.97	53.9	0.98	53.8	0.98
f (MHz)	WCDMA850 (Band 5)	Dielectric Parameters					
	Date	CH 4132 826.4 MHz		CH 4175 835.0 MHz		CH 4233 846.6 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
835	2015-01-12	53.3	0.96	53.3	0.97	53.2	0.98
	2015-01-13	53.8	0.97	53.7	0.97	53.7	0.98
	2015-01-14	54.1	0.96	54.1	0.97	54.0	0.98
	2015-01-17	54.0	0.97	53.9	0.97	53.8	0.98
f (MHz)	LTE850 (Band 5)	Dielectric Parameters					
	Date	CH 20450 829.0 MHz		CH 20525 836.5 MHz		CH 20600 844.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
836	2015-01-12	53.3	0.97	53.2	0.97	53.2	0.98
	2015-01-13	53.8	0.97	53.7	0.97	53.7	0.98
	2015-01-14	54.1	0.97	54.1	0.97	54.0	0.97
	2015-01-17	53.9	0.97	53.9	0.98	53.8	0.98
f (MHz)	WCDMA1700/2100 (Band 4)	Dielectric Parameters					
	Date	CH 1312 1712.4 MHz		CH 1412 1732.4 MHz		CH 1513 1752.6 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
1732	2015-01-08	52.3	1.41	52.3	1.43	52.2	1.45
	2015-01-09	52.2	1.41	52.1	1.44	52.1	1.46
	2015-01-18	51.4	1.41	51.4	1.43	51.3	1.45
	2015-01-20	52.6	1.41	52.6	1.43	52.5	1.45
f (MHz)	LTE1700/2100 (Band 4)	Dielectric Parameters					
	Date	CH 20050 1720.0 MHz		CH 20175 1732.5 MHz		CH 20300 1745.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
1732	2015-01-08	52.3	1.42	52.3	1.43	52.2	1.45
	2015-01-09	52.2	1.42	52.1	1.44	52.1	1.45
	2015-01-18	51.4	1.41	51.4	1.43	51.4	1.44
	2015-01-20	52.6	1.42	52.6	1.43	52.5	1.44

(Body tissue simulant table continues)

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(Body tissue simulant table continues)

f (MHz)	GSM 1900	Dielectric Parameters					
	Date	CH 512 1850.2 MHz		CH 661 1880.0 MHz		CH 810 1909.8 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
1880	2015-01-07	52.3	1.51	52.2	1.54	52.0	1.57
	2015-01-08	52.2	1.51	52.1	1.53	51.9	1.56
	2015-01-14	51.8	1.48	51.7	1.51	51.6	1.54
	2015-01-16	51.8	1.48	51.7	1.51	51.6	1.54
f (MHz)	WCDMA1900 (Band 2)	Dielectric Parameters					
	Date	CH 9262 1852.4 MHz		CH 9400 1880.0 MHz		CH 9538 1907.6 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
1880	2015-01-07	52.3	1.51	52.2	1.54	52.0	1.56
	2015-01-08	52.2	1.51	52.1	1.53	51.9	1.56
	2015-01-14	51.7	1.48	51.7	1.51	51.6	1.53
	2015-01-16	51.8	1.48	51.7	1.51	51.6	1.54
f (MHz)	LTE1900 (Band 2)	Dielectric Parameters					
	Date	CH 18700 1860.0 MHz		CH 18900 1880.0 MHz		CH 19100 1900.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
1880	2015-01-07	52.3	1.52	52.2	1.54	52.1	1.56
	2015-01-08	52.2	1.52	52.1	1.53	52.0	1.55
	2015-01-14	51.7	1.49	51.7	1.51	51.6	1.53
	2015-01-16	51.8	1.49	51.7	1.51	51.7	1.53
f (MHz)	WLAN 2450	Dielectric Parameters					
	Date	CH 1 2412.0 MHz		CH 6 2437.0 MHz		CH 11 2462.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
2437	2015-01-09	51.2	1.90	51.1	1.92	51.0	1.94
	2015-01-18	51.0	1.86	50.9	1.89	50.9	1.92
f (MHz)	LTE2500 (Band 7)	Dielectric Parameters					
	Date	CH 20850 2510.0 MHz		CH 21100 2535.0 MHz		CH 21350 2560.0 MHz	
		er	s [S/m]	er	s [S/m]	er	s [S/m]
2535	2015-01-09	50.8	2.00	50.8	2.03	50.7	2.05
	2015-01-14	51.2	1.97	51.1	2.00	51.0	2.03
	2015-01-18	50.8	1.97	50.7	2.00	50.6	2.04
	2015-01-20	50.8	1.98	50.8	2.01	50.7	2.04

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APPENDIX D: RELEVANT PAGES FROM PROBE CALIBRATION REPORTS

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Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

Client **Nokia Salo TCC**

Certificate No: **EX3-3834_May14**

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3834
Calibration procedure(s)	QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date	May 8, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	03-Apr-14 (No. 217-01911)	Jan-15
Power sensor E4412A	MY41498087	03-Apr-14 (No. 217-01911)	Jan-15
Reference 3 dB Attenuator	SN: S5054 (3c)	03-Apr-14 (No. 217-01915)	Jan-15
Reference 20 dB Attenuator	SN: S5277 (20x)	03-Apr-14 (No. 217-01919)	Jan-15
Reference 30 dB Attenuator	SN: S5129 (30b)	03-Apr-14 (No. 217-01920)	Jan-15
Reference Probe ES3DV2	SN: 3013	30-Dec-13 (No. ES3-3013_Dec13)	Dec-14
DAE4	SN: 660	13-Dec-13 (No. DAE4-660_Dec13)	Dec-14
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by	Israe El-Naouq	Laboratory Technician	
Approved by	Katja Pokovic	Technical Manager	

Issued: May 12, 2014

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3834

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz)[C]	Relative Permittivity[F]	Conductivity (S/m)[F]	ConvF X	ConvF Y	ConvF Z	Alpha[G]	Depth[G] (mm)	Unct. (k=2)
1750	40.1	1.37	7.62	7.62	7.62	0.80	0.59	± 12.0 %
1900	40.0	1.40	7.33	7.33	7.33	0.63	0.66	± 12.0 %

[C] Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3834

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
1750	53.4	1.49	7.35	7.35	7.35	0.77	0.63	± 12.0 %
1900	53.3	1.52	7.15	7.15	7.15	0.45	0.81	± 12.0 %

[C] Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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Accreditation No.: SCS 108

Client **TCC Microsoft**

Certificate No: ES3-3131_Oct14

CALIBRATION CERTIFICATE

Object	ES3DV3 - SN:3131
Calibration procedure(s)	QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	October 21, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	03-Apr-14 (No. 217-01911)	Apr-15
Power sensor E4412A	MY41498087	03-Apr-14 (No. 217-01911)	Apr-15
Reference 3 dB Attenuator	SN: S5054 (3c)	03-Apr-14 (No. 217-01915)	Apr-15
Reference 20 dB Attenuator	SN: S5277 (20x)	03-Apr-14 (No. 217-01919)	Apr-15
Reference 30 dB Attenuator	SN: S5129 (30b)	03-Apr-14 (No. 217-01920)	Apr-15
Reference Probe ES3DV2	SN: 3013	30-Dec-13 (No. ES3-3013_Dec13)	Dec-14
DAE4	SN: 660	13-Dec-13 (No. DAE4-660_Dec13)	Dec-14
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-14)	In house check: Oct-15

	Name	Function	Signature
Calibrated by:	Israe El-Naouq	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: October 21, 2014

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DASY/EASY - Parameters of Probe: ES3DV3 - SN:3131

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	41.9	0.89	6.29	6.29	6.29	0.58	1.27	± 12.0 %
835	41.5	0.90	6.04	6.04	6.04	0.62	1.27	± 12.0 %
1750	40.1	1.37	5.10	5.10	5.10	0.43	1.55	± 12.0 %
1900	40.0	1.40	4.92	4.92	4.92	0.58	1.32	± 12.0 %
2300	39.5	1.67	4.62	4.62	4.62	0.78	1.17	± 12.0 %
2450	39.2	1.80	4.39	4.39	4.39	0.65	1.33	± 12.0 %
2600	39.0	1.96	4.25	4.25	4.25	0.79	1.22	± 12.0 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3131

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	55.5	0.96	5.97	5.97	5.97	0.27	2.03	± 12.0 %
835	55.2	0.97	5.96	5.96	5.96	0.54	1.37	± 12.0 %
1750	53.4	1.49	4.79	4.79	4.79	0.43	1.72	± 12.0 %
1900	53.3	1.52	4.58	4.58	4.58	0.65	1.40	± 12.0 %
2300	52.9	1.81	4.33	4.33	4.33	0.76	1.21	± 12.0 %
2450	52.7	1.95	4.14	4.14	4.14	0.80	1.11	± 12.0 %
2600	52.5	2.16	4.03	4.03	4.03	0.80	1.06	± 12.0 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencias above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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Accreditation No.: SCS 108

Client **TCC Microsoft**

Certificate No: EX3-3835_Oct14

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3835
Calibration procedure(s)	QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	October 20, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	03-Apr-14 (No. 217-01911)	Apr-15
Power sensor E4412A	MY41498087	03-Apr-14 (No. 217-01911)	Apr-15
Reference 3 dB Attenuator	SN: S5054 (3c)	03-Apr-14 (No. 217-01915)	Apr-15
Reference 20 dB Attenuator	SN: S5277 (20x)	03-Apr-14 (No. 217-01919)	Apr-15
Reference 30 dB Attenuator	SN: S5129 (30b)	03-Apr-14 (No. 217-01920)	Apr-15
Reference Probe ES3DV2	SN: 3013	30-Dec-13 (No. ES3-3013_Dec13)	Dec-14
DAE4	SN: 660	13-Dec-13 (No. DAE4-660_Dec13)	Dec-14
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-14)	In house check: Oct-15

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: October 21, 2014

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3835

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	41.9	0.89	9.14	9.14	9.14	0.28	1.12	± 12.0 %
835	41.5	0.90	8.87	8.87	8.87	0.29	1.03	± 12.0 %
1750	40.1	1.37	7.73	7.73	7.73	0.50	0.72	± 12.0 %
1900	40.0	1.40	7.52	7.52	7.52	0.76	0.57	± 12.0 %
2300	39.5	1.67	7.23	7.23	7.23	0.50	0.70	± 12.0 %
2450	39.2	1.80	6.92	6.92	6.92	0.41	0.80	± 12.0 %
2600	39.0	1.96	6.79	6.79	6.79	0.40	0.84	± 12.0 %
5200	36.0	4.66	4.91	4.91	4.91	0.35	1.80	± 13.1 %
5300	35.9	4.76	4.73	4.73	4.73	0.35	1.80	± 13.1 %
5500	35.6	4.96	4.52	4.52	4.52	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.32	4.32	4.32	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.36	4.36	4.36	0.40	1.80	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3835

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	55.5	0.96	8.80	8.80	8.80	0.24	1.33	± 12.0 %
835	55.2	0.97	8.90	8.90	8.90	0.63	0.67	± 12.0 %
1750	53.4	1.49	7.46	7.46	7.46	0.78	0.63	± 12.0 %
1900	53.3	1.52	7.17	7.17	7.17	0.43	0.80	± 12.0 %
2300	52.9	1.81	7.03	7.03	7.03	0.80	0.61	± 12.0 %
2450	52.7	1.95	6.87	6.87	6.87	0.80	0.58	± 12.0 %
2600	52.5	2.16	6.74	6.74	6.74	0.80	0.50	± 12.0 %
5200	49.0	5.30	4.20	4.20	4.20	0.45	1.90	± 13.1 %
5300	48.9	5.42	4.03	4.03	4.03	0.45	1.90	± 13.1 %
5500	48.6	5.65	3.79	3.79	3.79	0.45	1.90	± 13.1 %
5600	48.5	5.77	3.63	3.63	3.63	0.45	1.90	± 13.1 %
5800	48.2	6.00	3.80	3.80	3.80	0.50	1.90	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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Accreditation No.: **SCS 108**

Client **Nokia Salo TCC**

Certificate No: **ES3-3165_May14**

CALIBRATION CERTIFICATE

Object	ES3DV3 - SN:3165
Calibration procedure(s)	QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date	May 8, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	03-Apr-14 (No. 217-01911)	Jan-15
Power sensor E4412A	MY41498087	03-Apr-14 (No. 217-01911)	Jan-15
Reference 3 dB Attenuator	SN: S5054 (3c)	03-Apr-14 (No. 217-01915)	Jan-15
Reference 20 dB Attenuator	SN: S5277 (20x)	03-Apr-14 (No. 217-01919)	Jan-15
Reference 30 dB Attenuator	SN: S5129 (30b)	03-Apr-14 (No. 217-01920)	Jan-15
Reference Probe ES3DV2	SN: 3013	30-Dec-13 (No. ES3-3013_Dec13)	Dec-14
DAE4	SN: 660	13-Dec-13 (No. DAE4-660_Dec13)	Dec-14
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Israe El-Naouq	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: May 12, 2014

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DASY/EASY - Parameters of Probe: ES3DV3 - SN:3165

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
835	41.5	0.90	6.02	6.02	6.02	0.25	2.13	± 12.0 %
1750	40.1	1.37	5.09	5.09	5.09	0.36	1.71	± 12.0 %
1900	40.0	1.40	4.89	4.89	4.89	0.60	1.30	± 12.0 %

[C] Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3165

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
835	55.2	0.97	6.01	6.01	6.01	0.70	1.23	± 12.0 %
1750	53.4	1.49	4.83	4.83	4.83	0.51	1.54	± 12.0 %
1900	53.3	1.52	4.65	4.65	4.65	0.47	1.65	± 12.0 %

[C] Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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Accreditation No.: SCS 108

Client **TCC Microsoft**

Certificate No: ES3-3118_Oct14

CALIBRATION CERTIFICATE

Object	ES3DV3 - SN:3118
Calibration procedure(s)	QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	October 21, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	03-Apr-14 (No. 217-01911)	Apr-15
Power sensor E4412A	MY41498087	03-Apr-14 (No. 217-01911)	Apr-15
Reference 3 dB Attenuator	SN: S5054 (3c)	03-Apr-14 (No. 217-01915)	Apr-15
Reference 20 dB Attenuator	SN: S5277 (20x)	03-Apr-14 (No. 217-01919)	Apr-15
Reference 30 dB Attenuator	SN: S5129 (30b)	03-Apr-14 (No. 217-01920)	Apr-15
Reference Probe ES3DV2	SN: 3013	30-Dec-13 (No. ES3-3013_Dec13)	Dec-14
DAE4	SN: 660	13-Dec-13 (No. DAE4-660_Dec13)	Dec-14
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-14)	In house check: Oct-15

	Name	Function	Signature
Calibrated by:	Israe El-Naouq	Laboratory Technician	Israee El-Naouq
Approved by:	Katja Pokovic	Technical Manager	

Issued: October 21, 2014

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DASY/EASY - Parameters of Probe: ES3DV3 - SN:3118

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	41.9	0.89	6.04	6.04	6.04	0.24	2.17	± 12.0 %
835	41.5	0.90	5.83	5.83	5.83	0.74	1.18	± 12.0 %
1750	40.1	1.37	4.98	4.98	4.98	0.73	1.17	± 12.0 %
1900	40.0	1.40	4.79	4.79	4.79	0.80	1.16	± 12.0 %
2300	39.5	1.67	4.51	4.51	4.51	0.75	1.26	± 12.0 %
2450	39.2	1.80	4.25	4.25	4.25	0.80	1.25	± 12.0 %
2600	39.0	1.96	4.18	4.18	4.18	0.80	1.27	± 12.0 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can ba extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε end σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: ES3DV3 - SN:3118

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	55.5	0.96	5.79	5.79	5.79	0.39	1.67	± 12.0 %
835	55.2	0.97	5.76	5.76	5.76	0.36	1.76	± 12.0 %
1750	53.4	1.49	4.64	4.64	4.64	0.60	1.40	± 12.0 %
1900	53.3	1.52	4.44	4.44	4.44	0.53	1.51	± 12.0 %
2300	52.9	1.81	4.22	4.22	4.22	0.80	1.19	± 12.0 %
2450	52.7	1.95	4.03	4.03	4.03	0.80	1.16	± 12.0 %
2600	52.5	2.16	3.93	3.93	3.93	0.80	1.04	± 12.0 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

APPENDIX E: RELEVANT PAGES FROM DIPOLE VALIDATION KIT REPORTS

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The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client **Nokia Salo TCC**

Certificate No: D750V3-1034_May14

CALIBRATION CERTIFICATE

Object	D750V3 - SN: 1034
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz
Calibration date:	May 06, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	30-Apr-14 (No. DAE4-601_Apr14)	Apr-15

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Israe El-Naouq	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: May 7, 2014

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.4 ± 6 %	0.92 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.11 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**8.16 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.37 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**5.34 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	56.8 ± 6 %	1.00 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.22 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**8.65 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.45 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**5.68 W/kg ± 16.5 % (k=2)**

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.9 Ω - 1.3 jΩ
Return Loss	- 30.2 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.3 Ω - 4.3 jΩ
Return Loss	- 25.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.033 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	July 06, 2011

DASY5 Validation Report for Head TSL

Date: 06.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1034

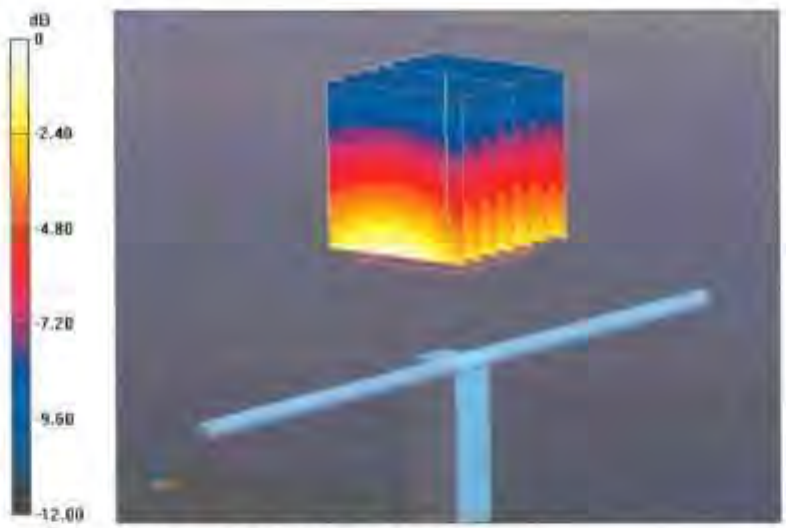
Communication System: UID 0 - CW; Frequency: 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.92 S/m; ε_r = 40.4; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.37, 6.37, 6.37); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

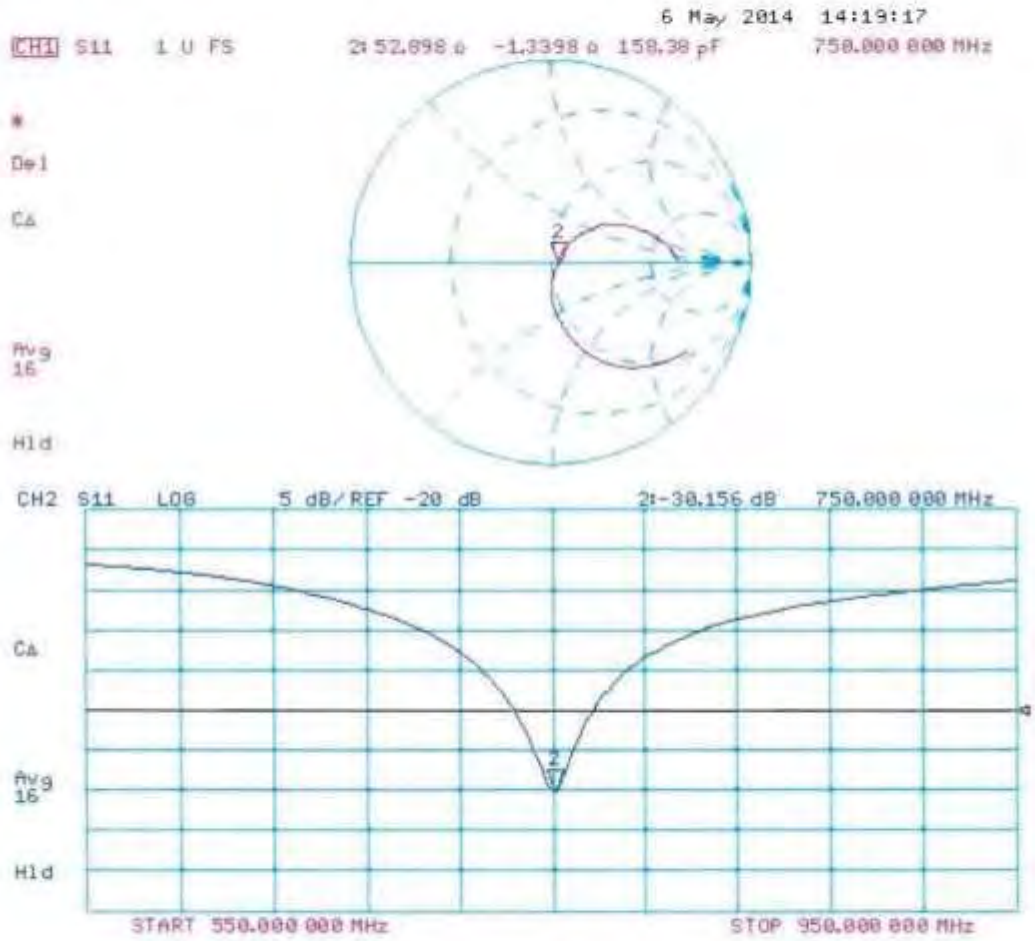
Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.57 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.18 W/kg
SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.37 W/kg
Maximum value of SAR (measured) = 2.46 W/kg



0 dB = 2.46 W/kg = 3.91 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 06.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1034

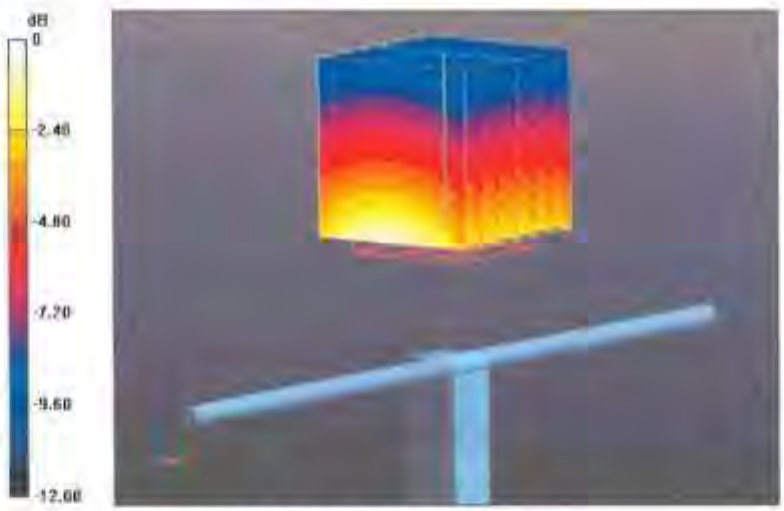
Communication System: UID 0 - CW; Frequency: 750 MHz
Medium parameters used: f = 750 MHz; σ = 1 S/m; ε_r = 56.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.13, 6.13, 6.13); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

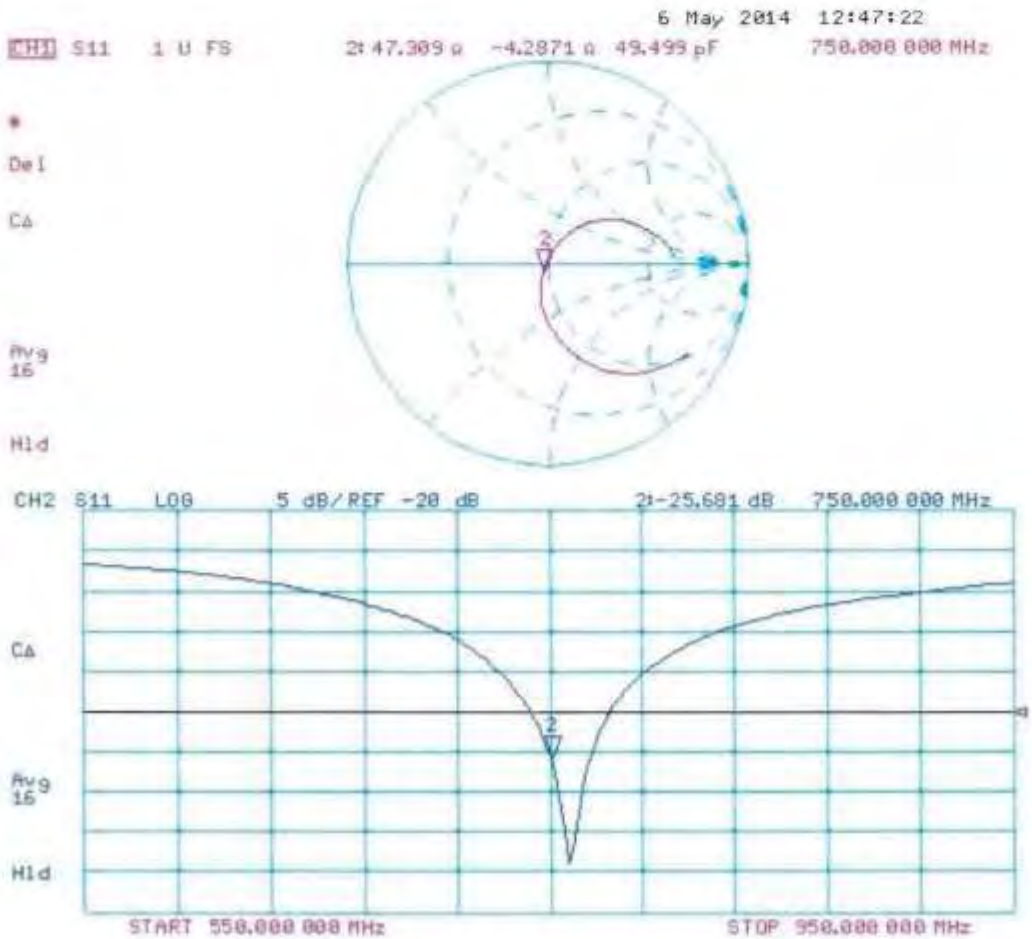
Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.79 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.27 W/kg
SAR(1 g) = 2.22 W/kg; SAR(10 g) = 1.45 W/kg
Maximum value of SAR (measured) = 2.59 W/kg



0 dB = 2.59 W/kg = 4.13 dBW/kg

Impedance Measurement Plot for Body TSL



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Accreditation No.: **SCS 108**

Client **Nokia Salo TCC**

Certificate No: **D835V2-462_May14**

CALIBRATION CERTIFICATE

Object	D835V2 - SN: 462
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz
Calibration date	May 06, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	30-Apr-14 (No. DAE4-601_Apr14)	Apr-15

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Israe El-Naoug	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: May 7, 2014

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.2 ± 6 %	0.94 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.39 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**9.19 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.54 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**5.98 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	56.6 ± 6 %	1.02 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.43 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**9.41 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	1.58 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**6.16 W/kg ± 16.5 % (k=2)**

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.7 Ω - 2.8 jΩ
Return Loss	-30.8 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	45.8 Ω - 5.4 jΩ
Return Loss	- 23.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.390 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	March 27, 2002

DASY5 Validation Report for Head TSL

Date: 06.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 462

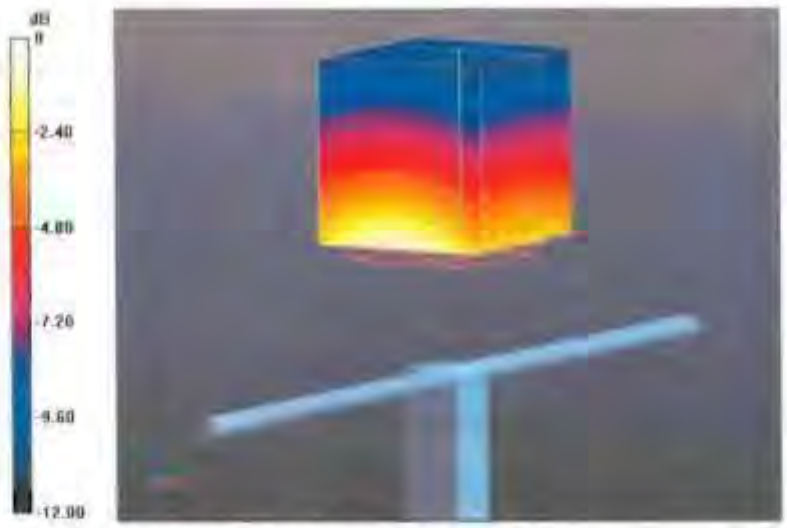
Communication System: UID 0 - CW; Frequency: 835 MHz
Medium parameters used: f = 835 MHz; σ = 0.94 S/m; ε_r = 40.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.22, 6.22, 6.22); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

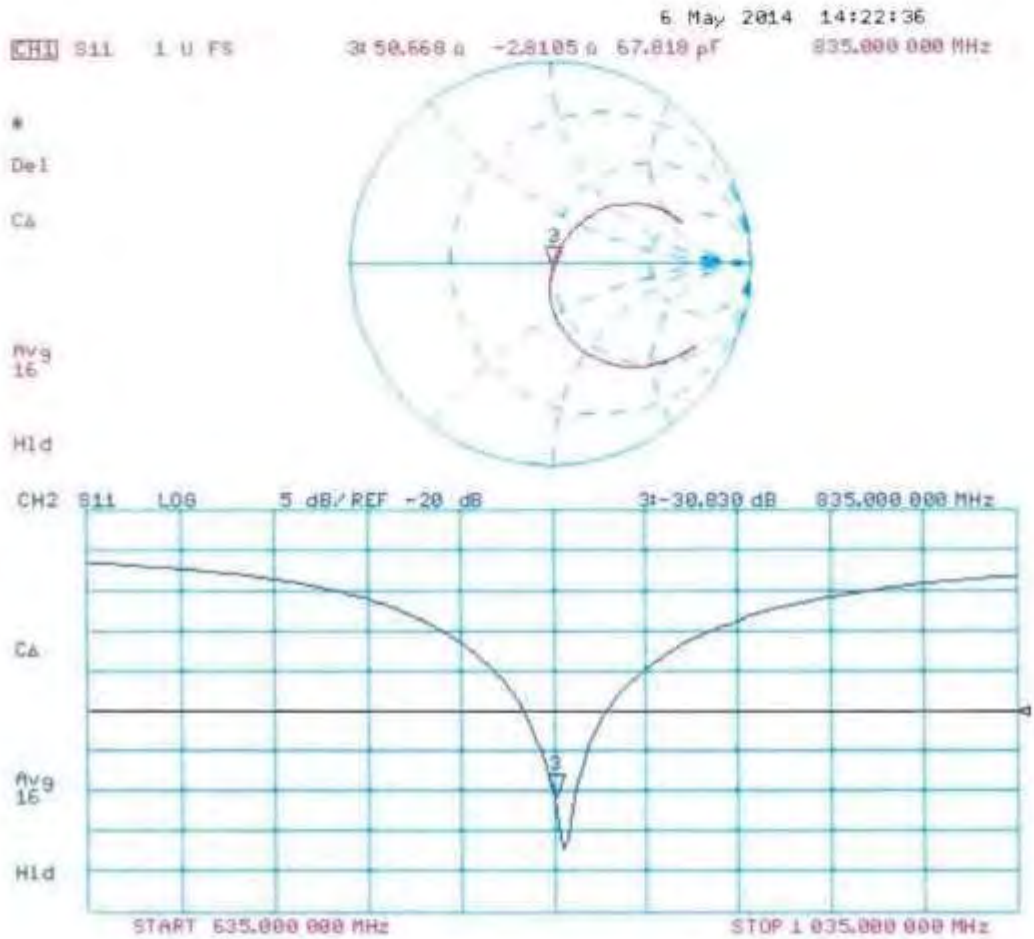
Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 56.25 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.62 W/kg
SAR(1 g) = 2.39 W/kg; SAR(10 g) = 1.54 W/kg
Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 06.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 462

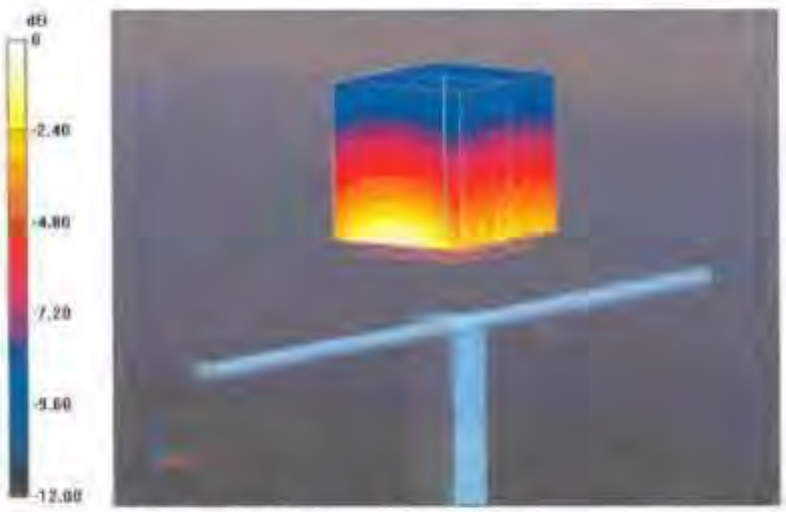
Communication System: UID 0 - CW; Frequency: 835 MHz
Medium parameters used: f = 835 MHz; σ = 1.02 S/m; ε_r = 56.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.09, 6.09, 6.09); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

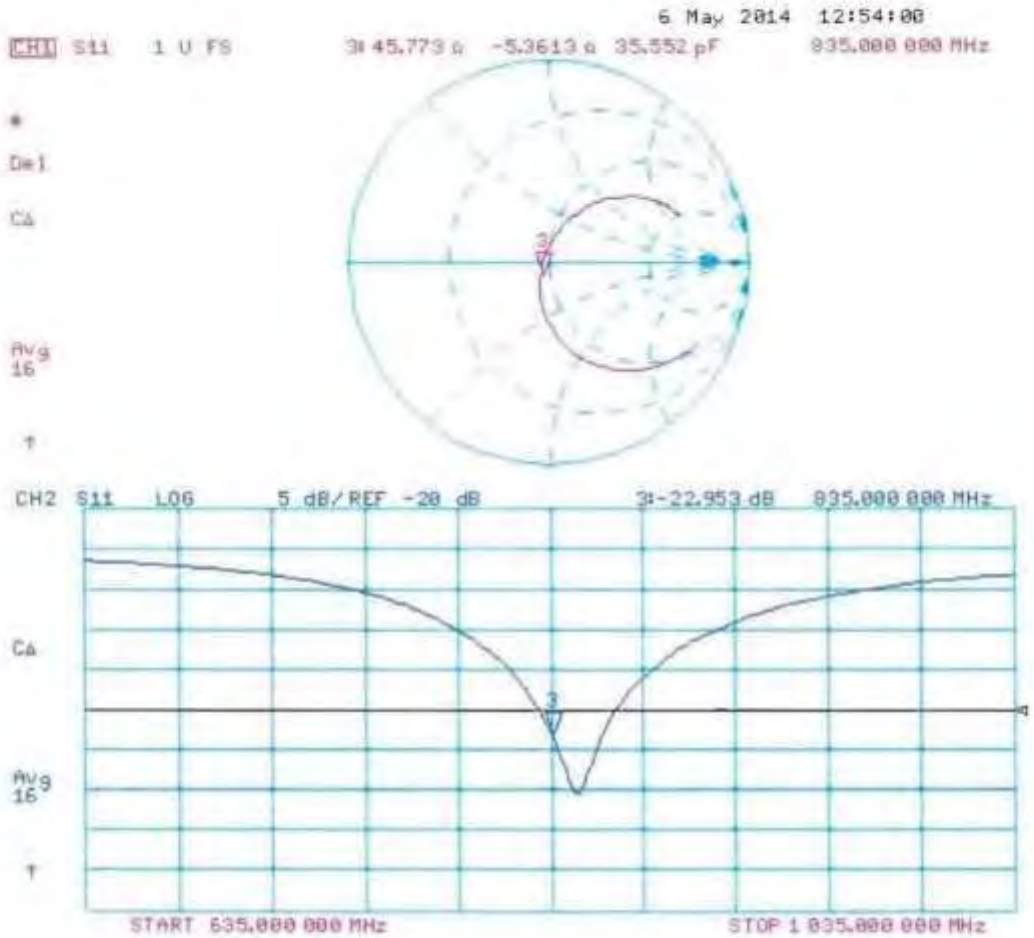
Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.63 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.61 W/kg
SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.58 W/kg
Maximum value of SAR (measured) = 2.85 W/kg



0 dB = 2.85 W/kg = 4.55 dBW/kg

Impedance Measurement Plot for Body TSL



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Accreditation No.: **SCS 108**

Client **Nokia Salo TCC**

Certificate No: **D1750V2-1083_May14**

CALIBRATION CERTIFICATE

Object	D1750V2 - SN: 1083
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz
Calibration date	May 07, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	30-Apr-14 (No. DAE4-601_Apr14)	Apr-15

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: May 7, 2014

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Head TSL parameters	22.0 °C	40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.0 ± 6 %	1.36 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**37.1 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.91 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**19.6 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Body TSL parameters	22.0 °C	53.4	1.49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.2 ± 6 %	1.48 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.42 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**37.6 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.05 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**20.2 W/kg ± 16.5 % (k=2)**

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.9 Ω + 0.1 jΩ
Return Loss	-41.4 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.3 Ω + 0.1 jΩ
Return Loss	-28.2 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.219 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	January 19, 2011

DASY5 Validation Report for Head TSL

Date: 07.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1083

Communication System: UID 0 - CW; Frequency: 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.36 S/m; ε_r = 39; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

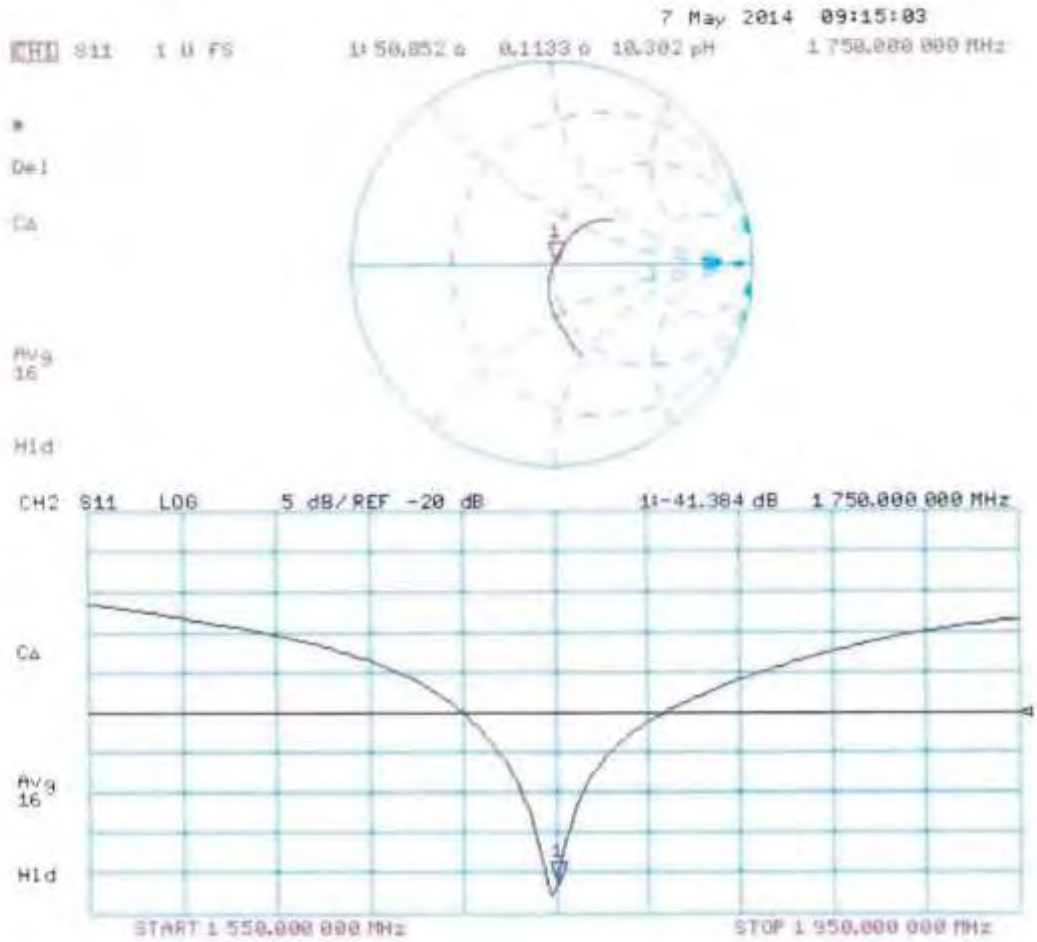
- Probe: ES3DV3 - SN3205; ConvF(5.23, 5.23, 5.23); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.99 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 16.8 W/kg
SAR(1 g) = 9.29 W/kg; SAR(10 g) = 4.91 W/kg
Maximum value of SAR (measured) = 11.7 W/kg

0 dB = 11.7 W/kg = 10.68 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 07.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN: 1083

Communication System: UID 0 - CW; Frequency: 1750 MHz
Medium parameters used: f = 1750 MHz; σ = 1.48 S/m; ε_r = 52.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

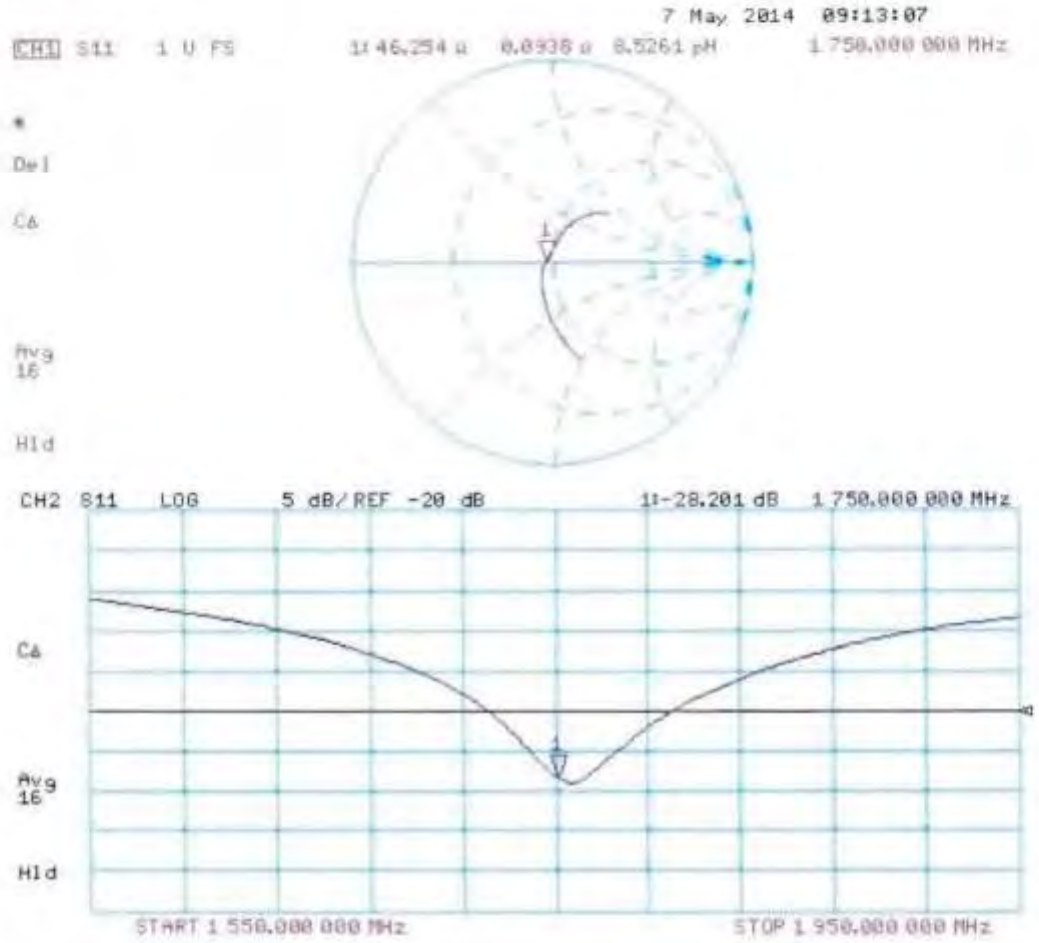
- Probe: ES3DV3 - SN3205; ConvF(4.89, 4.89, 4.89); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 93.34 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 16.2 W/kg
SAR(1 g) = 9.42 W/kg; SAR(10 g) = 5.05 W/kg
Maximum value of SAR (measured) = 11.8 W/kg

0 dB = 11.8 W/kg = 10.72 dBW/kg

Impedance Measurement Plot for Body TSL



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Accreditation No.: **SCS 108**

Client **Nokia Salo TCC**

Certificate No: **D1900V2-5d030_May14**

CALIBRATION CERTIFICATE

Object	D1900V2 - SN: 5d030
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz
Calibration date	May 14, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	30-Apr-14 (No. DAE4-601_Apr14)	Apr-15

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: May 15, 2014

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.3 ± 6 %	1.37 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.83 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**39.7 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.15 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**20.7 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.5 ± 6 %	1.52 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	10.1 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**40.3 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.34 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**21.3 W/kg ± 16.5 % (k=2)**

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.6 Ω + 4.3 jΩ
Return Loss	-27.2 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.6 Ω + 4.4 jΩ
Return Loss	-24.8 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.191 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	December 17, 2002

DASY5 Validation Report for Head TSL

Date: 14.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d030

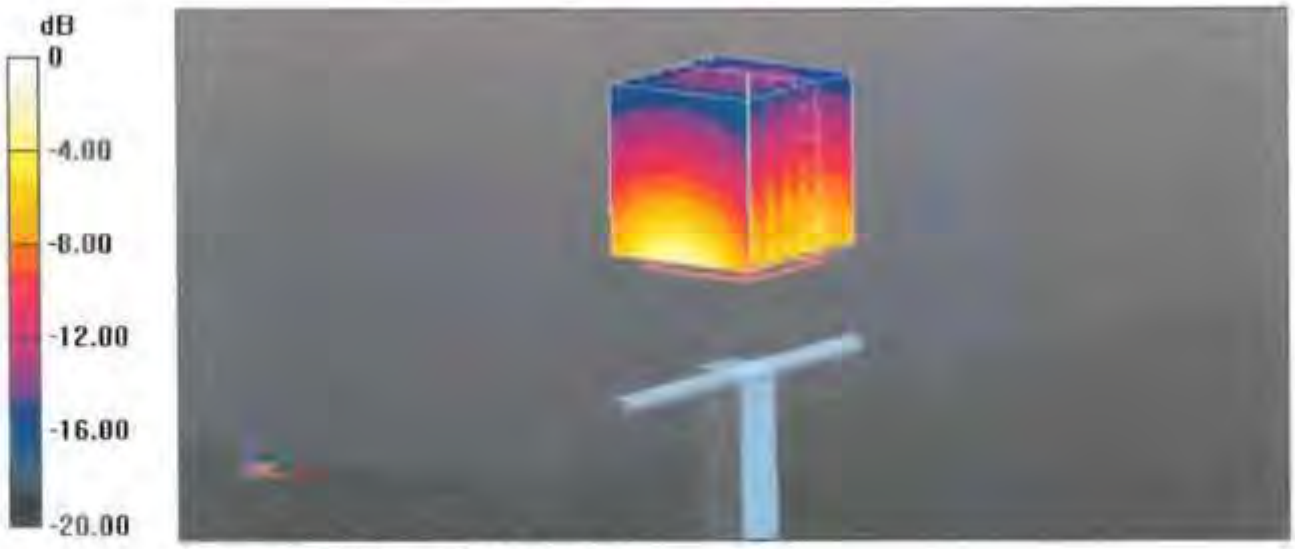
Communication System: UID 0 - CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.37 S/m; ε_r = 39.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(5.06, 5.06, 5.06); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

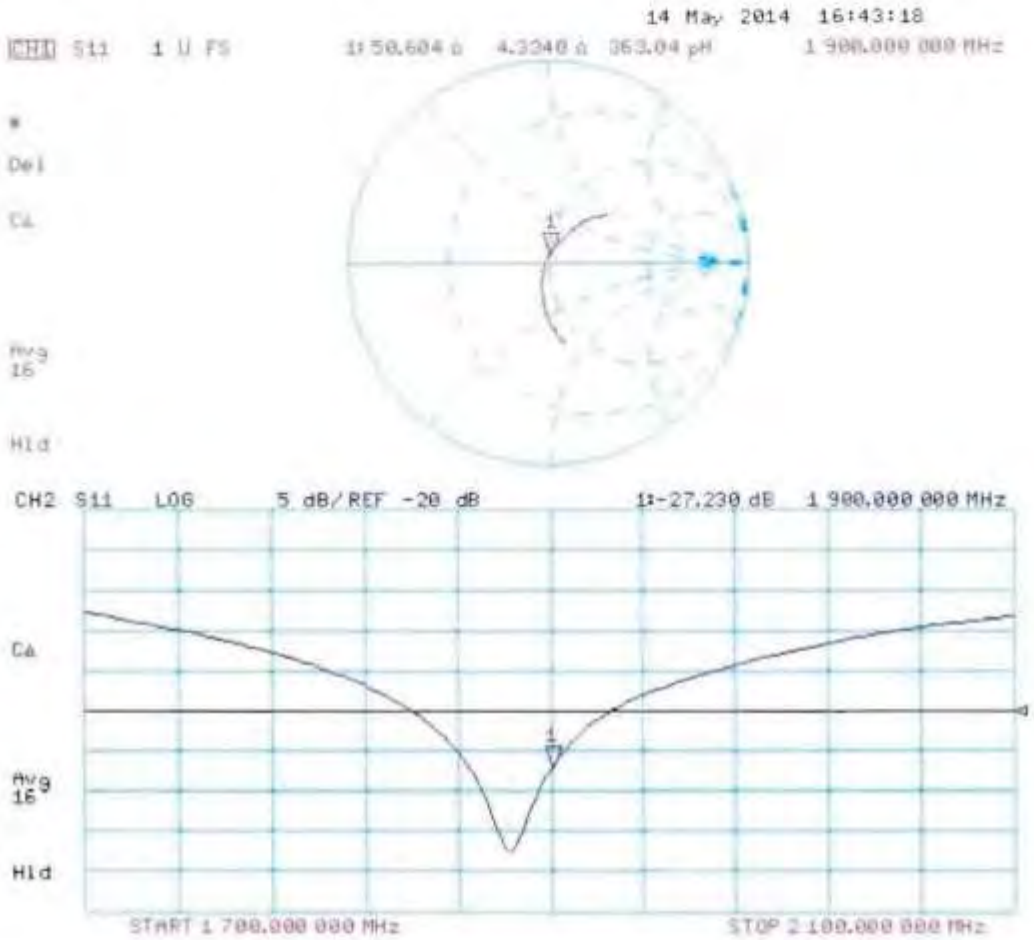
Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 97.75 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 18.0 W/kg
SAR(1 g) = 9.83 W/kg; SAR(10 g) = 5.15 W/kg
Maximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.3 W/kg = 10.90 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 14.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d030

Communication System: UID 0 - CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.52 S/m; ε_r = 52.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

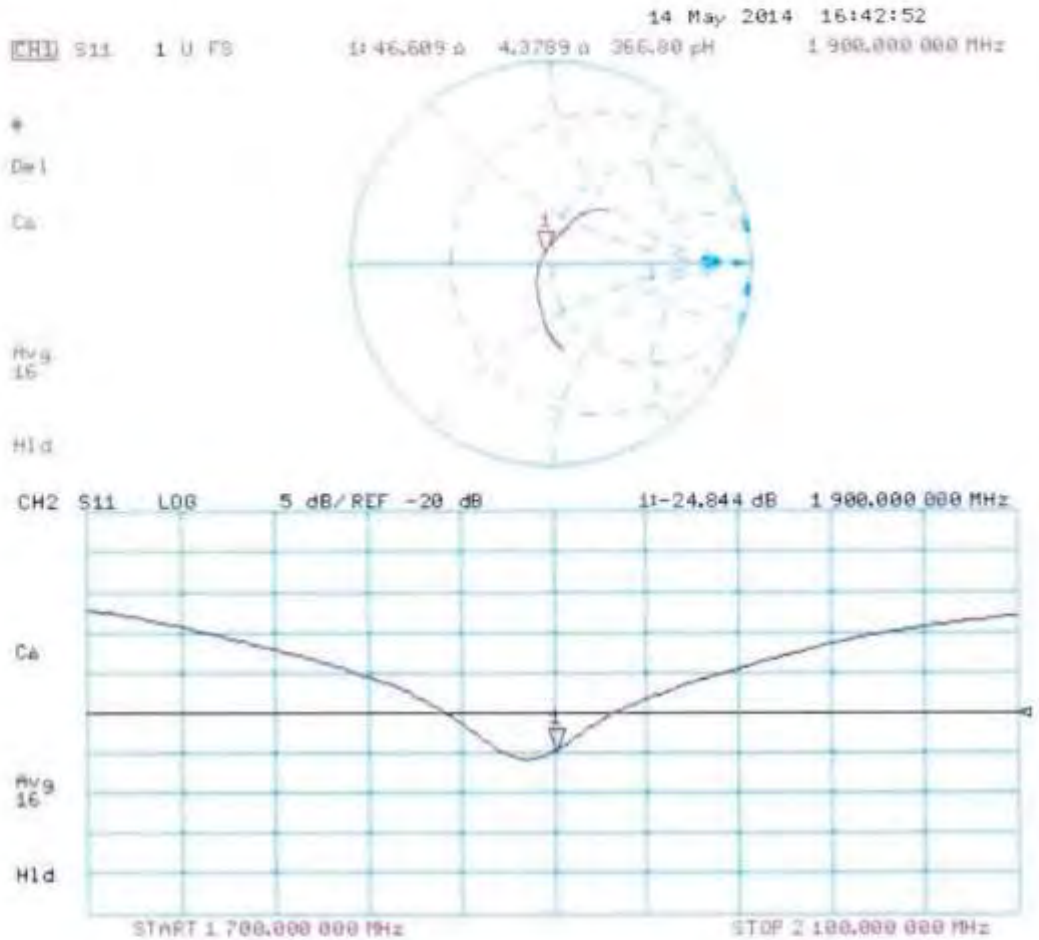
- Probe: ES3DV3 - SN3205; ConvF(4.76, 4.76, 4.76); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 94.65 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 17.6 W/kg
SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.34 W/kg
Maximum value of SAR (measured) = 12.6 W/kg

0 dB = 12.6 W/kg = 11.00 dBW/kg

Impedance Measurement Plot for Body TSL



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Accreditation No.: SCS 108

Client **Nokia Salo TCC**

Certificate No: D2450V2-729_May14

CALIBRATION CERTIFICATE

Object	D2450V2 - SN: 729
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz
Calibration date:	May 08, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	30-Apr-14 (No. DAE4-601_Apr14)	Apr-15

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator R&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: May 16, 2014

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	38.5 ± 6 %	1.83 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	—	—

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.3 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**52.6 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.16 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**24.5 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	**Permittivity**	**Conductivity**
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	50.8 ± 6 %	2.03 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	—	—

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.2 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**51.4 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.13 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**24.1 W/kg ± 16.5 % (k=2)**

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.8 Ω - 0.4 jΩ
Return Loss	- 31.1 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	49.3 Ω + 1.2 jΩ
Return Loss	- 37.4 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.147 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	January 09, 2003

DASY5 Validation Report for Head TSL

Date: 08.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 729

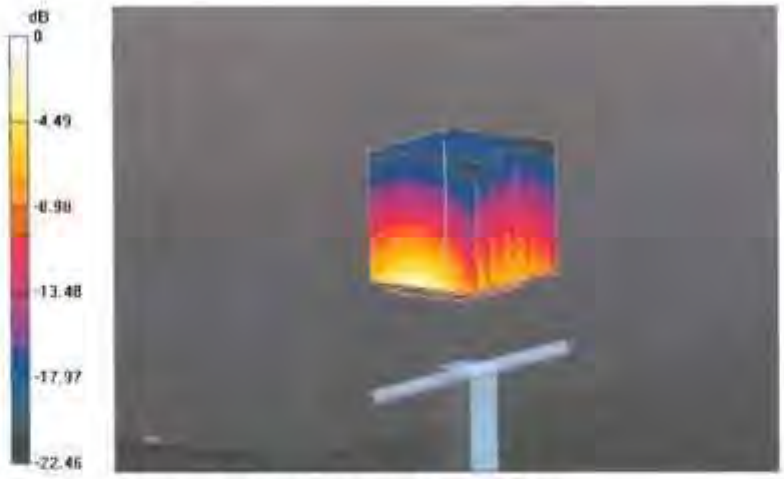
Communication System: UID 0 - CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 1.83 S/m; ε_r = 38.5; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.53, 4.53, 4.53); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

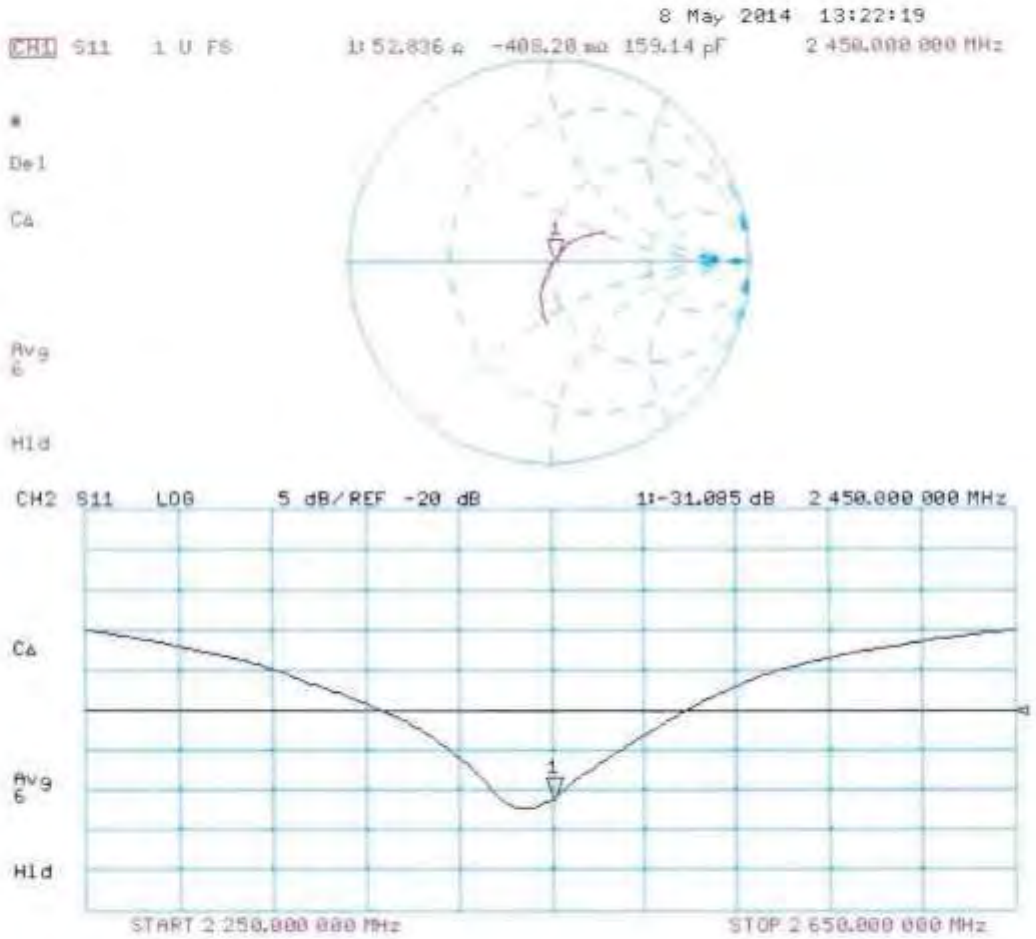
Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 99.14 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 27.3 W/kg
SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.16 W/kg
Maximum value of SAR (measured) = 16.8 W/kg



0 dB = 16.8 W/kg = 12.25 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 08.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 729

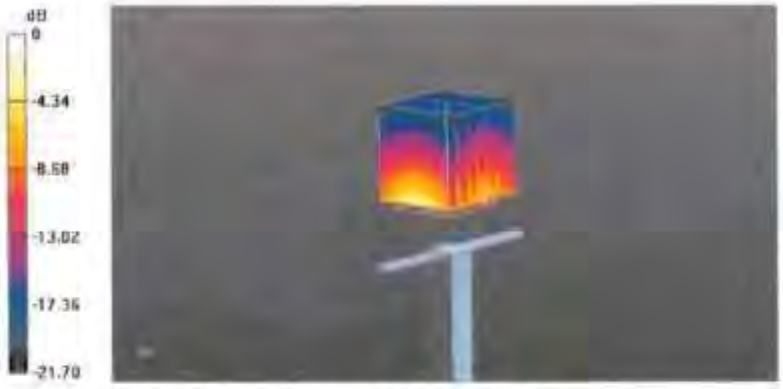
Communication System: UID 0 - CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 2.03 S/m; ε_r = 50.8; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.35, 4.35, 4.35); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

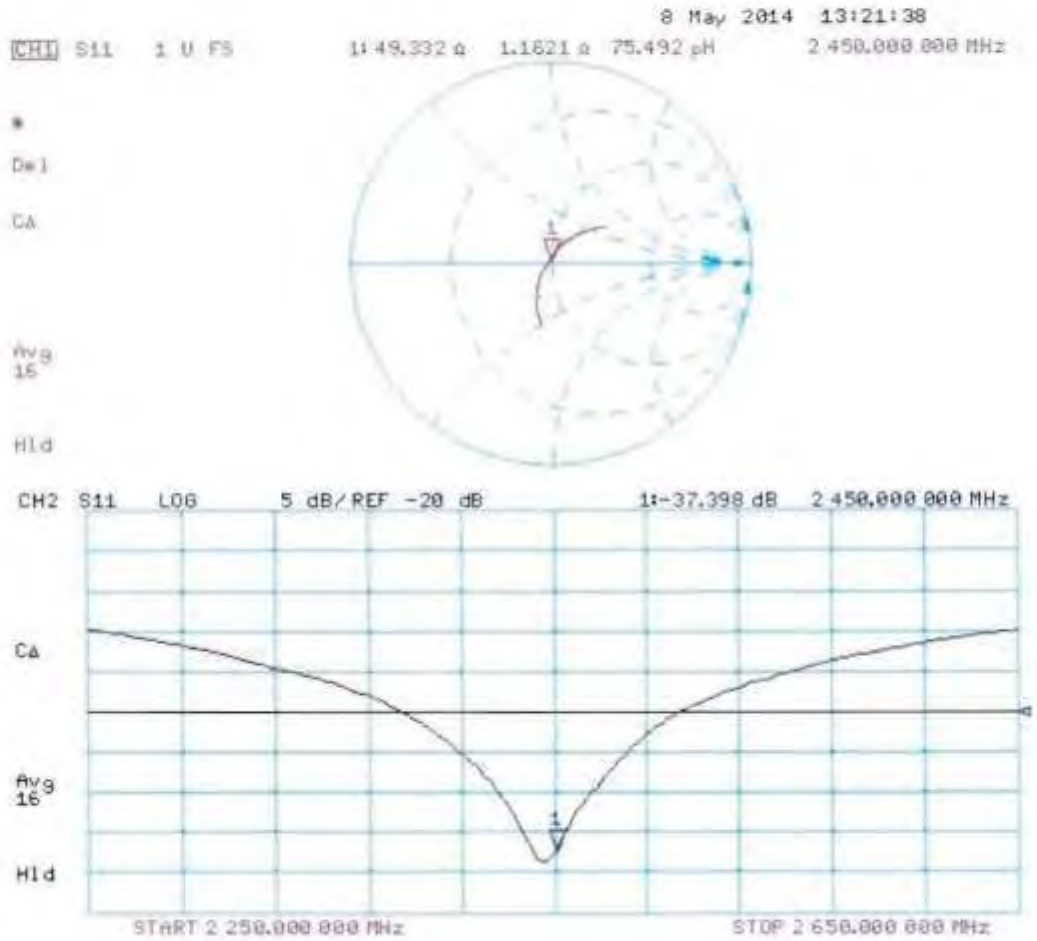
Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.61 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 27.6 W/kg
SAR(1 g) = 13.2 W/kg; SAR(10 g) = 6.13 W/kg
Maximum value of SAR (measured) = 17.4 W/kg



0 dB = 17.4 W/kg = 12.41 dBW/kg

Impedance Measurement Plot for Body TSL



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Accreditation No.: SCS 108

Client **Nokia Salo TCC**

Certificate No: D2600V2-1009_May14

CALIBRATION CERTIFICATE

Object	D2600V2 - SN: 1009
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz
Calibration date:	May 08, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter EPM-442A	GB37480704	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	US37292783	09-Oct-13 (No. 217-01827)	Oct-14
Power sensor HP 8481A	MY41092317	09-Oct-13 (No. 217-01828)	Oct-14
Reference 20 dB Attenuator	SN: 5058 (20k)	03-Apr-14 (No. 217-01918)	Apr-15
Type-N mismatch combination	SN: 5047.2 / 06327	03-Apr-14 (No. 217-01921)	Apr-15
Reference Probe ES3DV3	SN: 3205	30-Dec-13 (No. ES3-3205_Dec13)	Dec-14
DAE4	SN: 601	30-Apr-14 (No. DAE4-601_Apr14)	Apr-15

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
RF generator H&S SMT-06	100005	04-Aug-99 (in house check Oct-13)	In house check: Oct-16
Network Analyzer HP 8753E	US37390585 S4206	18-Oct-01 (in house check Oct-13)	In house check: Oct-14

	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: May 15, 2014

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.7 ± 6 %	1.98 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	—	—

SAR result with Head TSL

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**57.3 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.44 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**25.6 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	50.3 ± 6 %	2.21 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	—	—

SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	14.5 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**56.9 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.39 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**25.2 W/kg ± 16.5 % (k=2)**

Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	49.7 Ω - 4.0 jΩ
Return Loss	- 27.8 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.4 Ω - 3.1 jΩ
Return Loss	- 26.2 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.150 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	April 12, 2007

DASY5 Validation Report for Head TSL

Date: 08.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1009

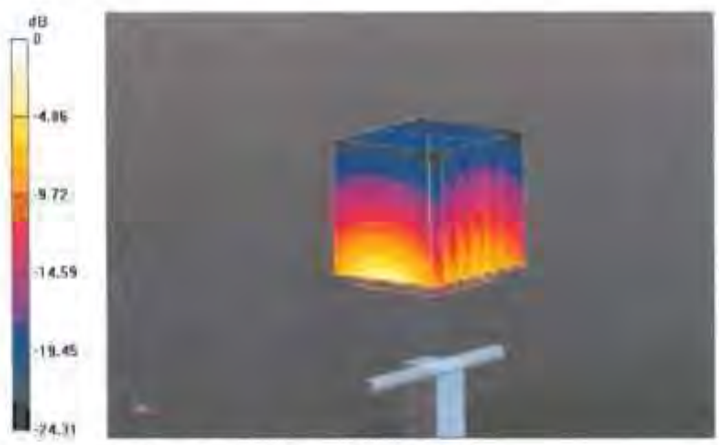
Communication System: UID 0 - CW; Frequency: 2600 MHz
Medium parameters used: f = 2600 MHz; σ = 1.98 S/m; ε_r = 37.7; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.46, 4.46, 4.46); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

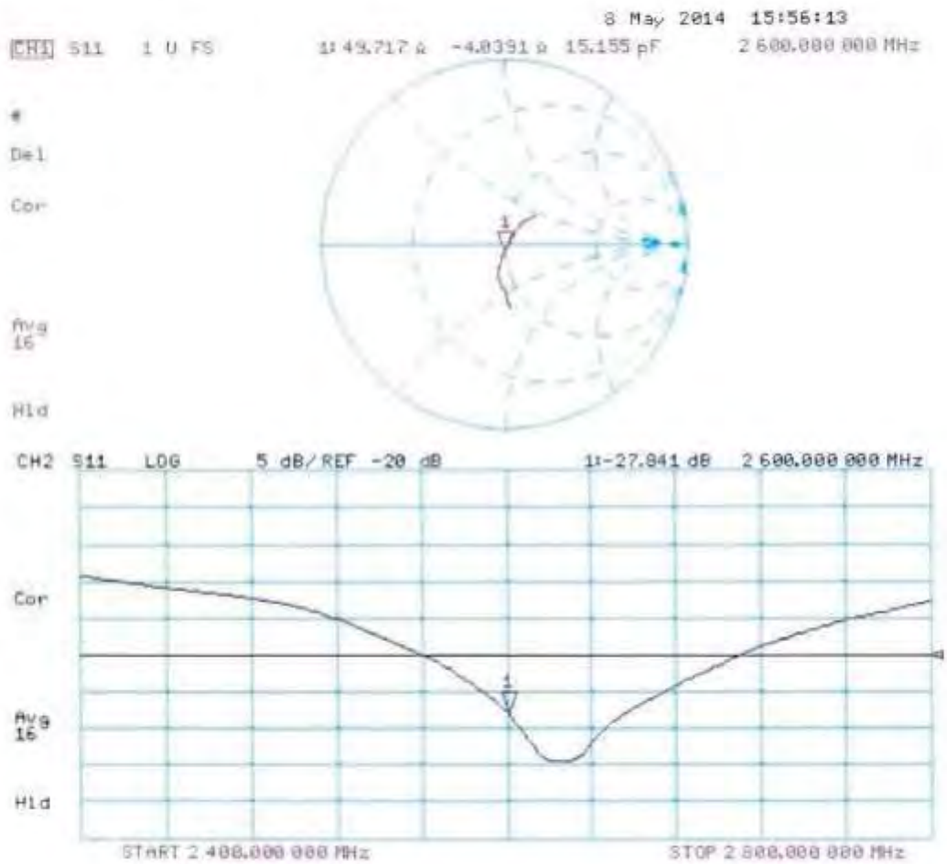
Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 102.6 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 30.9 W/kg
SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.44 W/kg
Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 19.0 W/kg = 12.79 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 08.05.2014

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1009

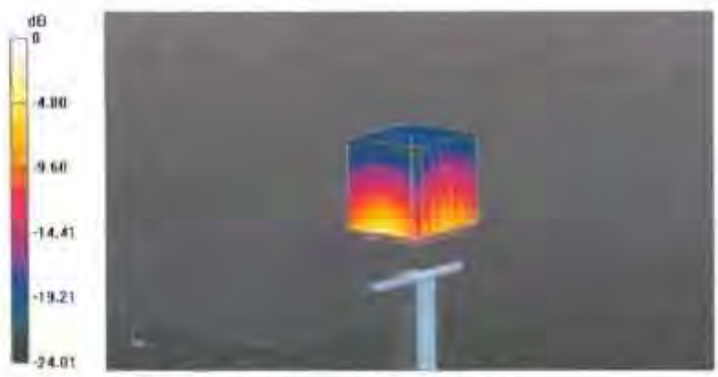
Communication System: UID 0 - CW; Frequency: 2600 MHz
Medium parameters used: f = 2600 MHz; σ = 2.21 S/m; ε_r = 50.3; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

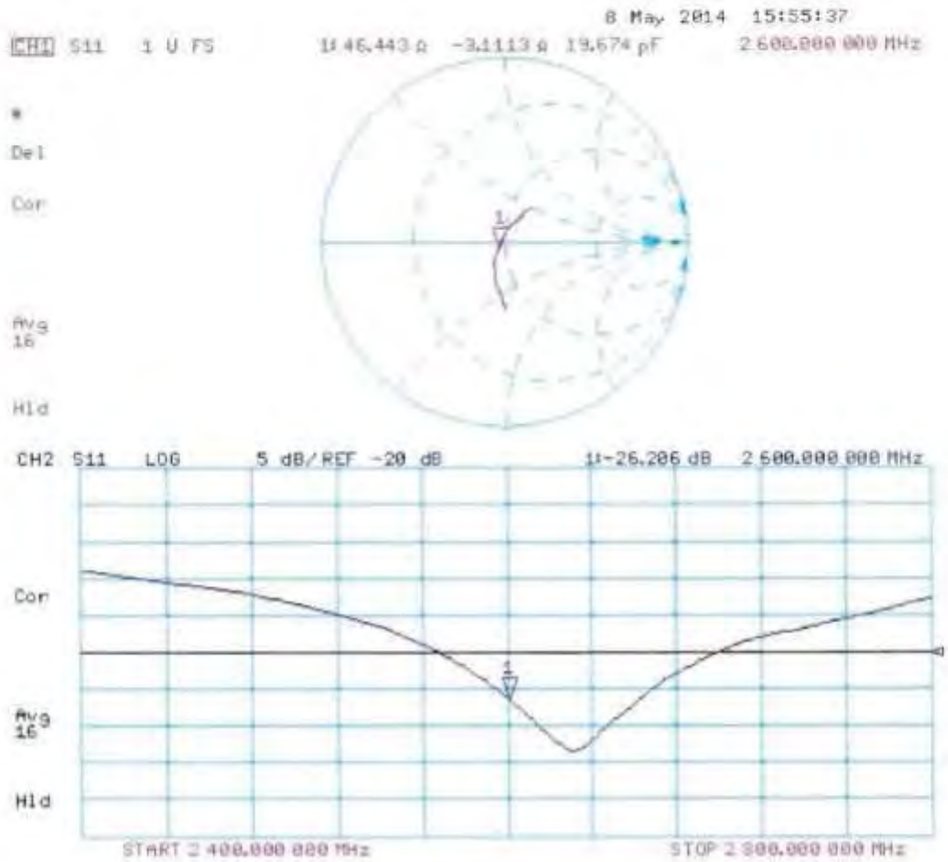
DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(4.24, 4.24, 4.24); Calibrated: 30.12.2013;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.04.2014
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 96.96 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 31.4 W/kg
SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.39 W/kg
Maximum value of SAR (measured) = 19.3 W/kg



0 dB = 19.3 W/kg = 12.86 dBW/kg

Impedance Measurement Plot for Body TSL