

Report No.: KSEM210700112911

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FCC SAR TEST REPORT

Application No.: KSEM2107001129CR

FCC ID: 2AH25T5F01

Applicant: Shanghai Sunmi Technology Co.,Ltd.

Address of Applicant:

Room 505,Block 7,KIC Plaza,No.388 Song Hu Road Yang Pu

District, Shanghai, China

Manufacturer: Shanghai Sunmi Technology Co.,Ltd.

Address of Manufacturer: Room 505,Block 7,KIC Plaza,No.388 Song Hu Road Yang Pu

District, Shanghai, China

Factory: Shanghai Sunmi Technology Co.,Ltd.

Address of Factory:

Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District,

Shanghai, China

Product Name: Wireless data POS System

Model No.(EUT): T5F01
Trade mark: SUNMI

Standard(s): FCC 47CFR §2.1093

Date of Receipt: 2021-05-28

Date of Test: 2021-06-03 to 2021-06-11

Date of Issue: 2021-06-30

Test Result: Pass*

Eric Lin

Ena fin

Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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REVISION HISTORY

Revision Record			
Version	Description	Date	Remark
00	Original	2021-06-30	1

Authorized for issue by:		
	Richard. Kong	
	Richard.Kong/ Project Engineer	
	Eria fri	
	Eric.Lin/Reviewer	



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TEST SUMMARY

Francisco Don d	Maximum Reported SAR(W/kg)10-g
Frequency Band	Extremity
GSM850	0.91
GSM1900	2.98
WCDMA Band II	3.01
WCDMA Band V	1.02
LTE Band 2	3.04
LTE Band 4	2.77
LTE Band 5	1.04
LTE Band 7	2.96
LTE Band 13	0.89
LTE Band 17	0.74
LTE Band 38	1.91
LTE Band 40	1.37
LTE Band 41	1.66
WI-FI (2.4GHz)	0.48
WI-FI (5GHz)	0.79
SAR Limited(W/kg)	4
Maximum Simultaneous Transmission SAR (W/kg)10-g	
Scenario	Extremity
Sum SAR	3.25
SPLSR	NA
SPLSR Limited	0.1



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1 General Information

1.1 General Description of EUT

Device Type :	portable device			
Exposure Category:	uncontrolled environment / general population			
Product Phase:	production unit			
SN:	VM06D14T20015	VM06D14T20015		
Hardware Version:	Ambh6e			
Software Version:	SP3136 V019 20210	0430 sunmi		
Antenna Type:	PIFA Antenna			
Device Operating Configuration	ons :			
Modulation Mode:		WCDMA: QPSK; LTE: QPSK,16 FDM; BT: GFSK, π/4DQPSK,8D		
Device Class:	В			
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12	
HSDPA UE Category:	14	HSUPA UE Category:	6	
	4,tested with power le	vel 5(GSM850)		
Power Class:	1,tested with power le	vel 0(GSM1900)		
Power Class.	3,tested with power co	ontrol "all 1"(WCDMA Band II/V)		
	3, tested with power c	ontrol Max Power(LTE Band 2/4	1/5/7/13/17/38/40/41)	
	Band	Tx (MHz)	Rx (MHz)	
	GSM850	824-849	869-894	
	GSM1900	1850-1910	1930-1990	
	WCDMA Band II	1850~1910	1930~1990	
	WCDMA Band V	824~849	869~894	
	LTE Band 2	1850~1910	1930~1990	
	LTE Band 4	1710~1755	2110~2155	
	LTE Band 5	824~849	869~894	
	LTE Band 7	2500-2570	2620- 2690	
	LTE Band 13	777~787	746~756	
Frequency Bands:	LTE Band 17	704~716	734~746	
	LTE Band 38	2570~2620	2570~2620	
	LTE Band 40	2305~2315	2305~2315	
	LTE Danu 40	2350~2360	2350~2360	
	LTE Band 41	2496-2690	2496-2690	
	WI-FI2.4G	2412~2462	2412~2462	
	Bluetooth	2402~2480	2402~2480	
	Wi-Fi(U-NII-1)	5150~5250	5150~5250	
	Wi-Fi(U-NII-2A)	5250~5350	5250~5350	
	Wi-Fi(U-NII-2C)	5470~5725	5470~5725	
	Wi-Fi(U-NII-3)	5725~5850	5725~5850	
	Model: JKPJ 2ICP5/6	52/70		
Battery1 Information:	Rated capacity:7.7V/3	3500mAh/26.95Wh		
	Manufacturer: Manufacturer: Sunmi Technology Co., Ltd.			
		-:		



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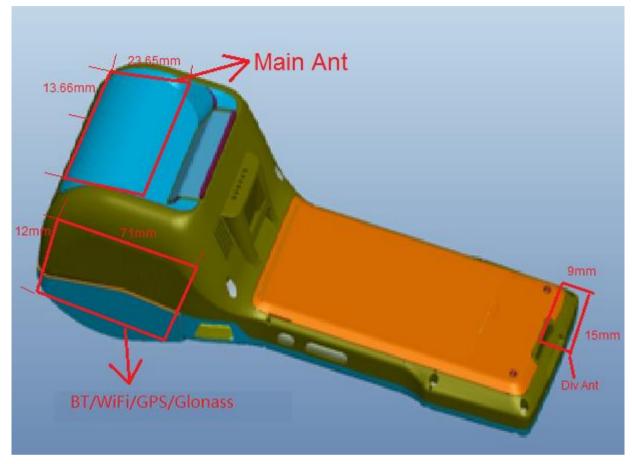
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1.1.1 DUT Antenna Locations(Back View)



The test device is a Wireless data POS System. The display diagonal dimension is 168mm and the overall diagonal dimension of this device is 249mm.



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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radio frequency Radiation Exposure Evaluation: Portable Devices
IEEE Std C95.1 – 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01 3G SAR Procedures v03r01	3G SAR Measurement Procedures
KDB 248227 D01 802.11 Wi-Fi SAR v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS
KDB 941225 D05 SAR for LTE Devices v02r05	SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES
KDB447498 D01 General RF Exposure Guidance v06	Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies
KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04	SAR Measurement Requirements for 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting v01r02	RF Exposure Compliance Reporting and Documentation Considerations



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1.3 RF exposure limits

Human Evnacura	Uncontrolled Environment	Controlled Environment
Human Exposure	General Population	Occupational
Spatial Peak SAR*	1.60 \\\\\\\	9 00 W/kg
(Brain*Trunk)	1.60 W/kg	8.00 W/kg
Spatial Average SAR**	0.08 W/kg	0.40 W/kg
(Whole Body)		
Spatial Peak SAR***	4.00 \\\\\\\	20.00 W/kg
(Hands/Feet/Ankle/Wrist)	4.00 W/kg	

Notes:

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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^{*} The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

^{**} The Spatial Average value of the SAR averaged over the whole body.

^{***} The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.



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1.4 Test Location

Company: Compliance Certification Services (Kunshan) Inc.

Address: No.10 Weiye Rd., Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu,

China

Post code: 215300

Telephone: 86-512-57355888 Fax: 86-512-57370818

1.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

FCC –Designation Number: CN1172

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory

CAB Identifier: CN0072.

VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1600, C-1707, T-1499, G-10216 respectively.



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C	
Relative humidity	Min. = 30%, Max. = 70%	
Ground system resistance	< 0.5 Ω	
Ambient noise is checked and found very low and in compliance with requirement of standards.		
Reflection of surrounding objects is minimized and in compliance with requirement of standards.		

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



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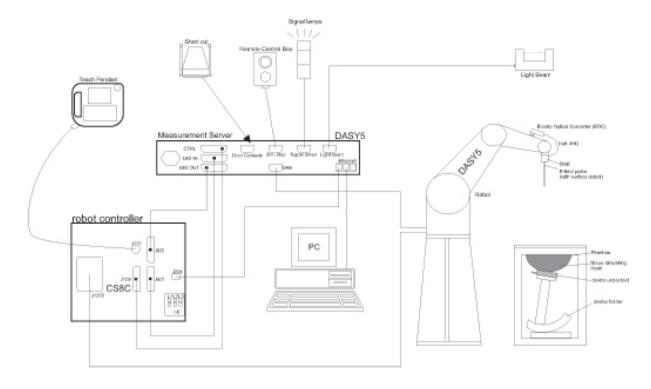
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F-1. SAR Measurement System Configuration

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validat the proper functioning of the system.



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3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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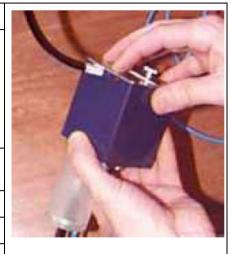


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3.3 Data Acquisition Electronics (DAE)

Model	DAE4
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5μV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Wooden Support	SPEAG standard phantom table



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2.0 ± 0.2 mm (bottom plate)
Dimensions	Major axis: 600 mm Minor axis: 400 mm
Filling Volume	approx. 30 liters
Wooden Support	SPEAG standard phantom table



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε =3 and loss tangent δ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 30mm*30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points (≤2GHz) and 7x7x7 points (≥2GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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			≤3 GHz	> 3 GHz	
Maximum distance from (geometric center of pr		-	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm	
Maximum probe angle surface normal at the m			30° ± 1°	20° ± 1°	
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
Maximum area scan sp	atial resolt	ntion: Δx_{Area} , Δy_{Area}	When the x or y dimension o measurement plane orientation the measurement resolution of x or y dimension of the test d measurement point on the test	on, is smaller than the above, nust be ≤ the corresponding evice with at least one	
Maximum zoom scan s	patial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid	Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. \pm 5 %



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When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE3". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

Conversion factor ConvFiDiode compression point Dcpi

Device parameters: - Frequency 1

- Crest factor c

Media parameters: - Conductivity

- Density p

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

3

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With Vi = compensated signal of channel i (i = x, y, z)

Ui = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)



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From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$

With Vi = compensated signal of channel i

(i = x, y, z)

Normi = sensor sensitivity of channel I

(i = x, y, z)

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

With SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 \frac{2}{3770} P_{pwe} = H_{tot}^2 \cdot 37.7$$

with Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is \geq 1.45 W/kg (\sim 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.



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4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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5 Description of Test Position

5.1.1 Extremity exposure conditions

Devices that are designed or intended for use on extremities, or mainly operated in extremity only exposure conditions, i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and 10-g extremity SAR Test Exclusion Thresholds in 8.2 should be applied to determine SAR test requirements. When extremity SAR testing is required, a flat phantom must be used if the exposure condition is more conservative than the actual use conditions; otherwise, a KDB inquiry is required to determine the phantom and test requirements. Body SAR compliance is also tested with a flat phantom. For devices with irregular shapes or form factors that do not conform to a flat phantom, and/or unusual operating configurations and exposure conditions, a KDB inquiry is also required to determine the appropriate SAR measurement procedures. Unless it is specified differently in the published RF exposure KDB procedures, when simultaneous transmission applies to extremity exposure, the simultaneous transmission SAR test exclusion provisions should be applied. When simultaneous transmission SAR measurement is required, the enlarged zoom scan and volume scan post-processing procedures in KDB Publication 865664 D01 should be applied.

SAR can test the sides near the antenna, the surface of the device should be tested for SAR compliance with the device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent device surface is used to determine if SAR testing is required for the adjacent surfaces, with the adjacent surface positioned against the phantom and the surface containing the antenna positioned perpendicular to the phantom.

Test Distance for SAR Evaluation

For 10g Extremity SAR the EUT is set directly against the phantom and the test distance is 0mm.



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients		Frequency (MHz)										
(% by weight)	45	50	83	835		915		00	2450			
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body		
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2		
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04		
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0		
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0		
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0		
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0		
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7		
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5		
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78		

HSL5GHz is composed of the following ingredients:

Water: 50-65%

Mineral oil: 10-30%

Emulsifiers: 8-25%

Sodium salt: 0-1.5%

MSL5GHz is composed of the following ingredients:

Water: 64-78%
Mineral oil: 11-18%
Emulsifiers: 9-15%

Sodium salt: 2-3%

Table 3: Recipe of Tissue Simulate Liquid



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6.1.2 Test Liquids Confirmation

Simulated tissue liquid parameter confirmation

The dielectric parameters were checked prior to assessment using the SPEAG DAK3.5 dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

IEEE SCC-34/SC-2 P1528 recommended tissue dielectric parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in P1528

Target Frequency	He	ad	Во	ody
(MHz)	εr	σ (S/m)	εr	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

(ε_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)



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6.1.3 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the Agilent Model 85070E Dielectric Probe in conjunction with Agilent E5071C Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm2^{\circ}$ C.

Tissue Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Liquid Temp. (°C)	Date
750 Head	750	0.895	41.649	0.89	41.90	0.56	-0.60	±5	22.1	2021/6/3
835 Head	835	0.89	40.972	0.90	41.50	-1.11	-1.27	±5	22.1	2021/6/4
1800 Head	1800	1.385	40.197	1.40	40.00	-1.07	0.49	±5	22.2	2021/6/5
1900 Head	1900	1.389	40.284	1.40	40.00	-0.79	0.71	±5	22.3	2021/6/7
2300 Head	2300	1.649	39.655	1.67	39.50	-1.26	0.39	±5	22	2021/6/8
2450 Head	2450	1.823	39.147	1.80	39.20	1.28	-0.14	±5	22	2021/6/9
2600 Head	2600	1.982	38.658	1.96	39.00	1.12	-0.88	±5	22.1	2021/6/10
5250 Head	5250	4.614	35.466	4.71	35.95	-2.04	-1.35	±5	22.2	2021/6/11
5600 Head	5600	5.005	34.611	5.07	35.50	-1.28	-2.50	±5	22.2	2021/6/11
5750 Head	5750	5.315	34.649	5.22	35.35	1.82	-1.98	±5	22.2	2021/6/11

Table 4: Measurement result of Tissue electric parameters



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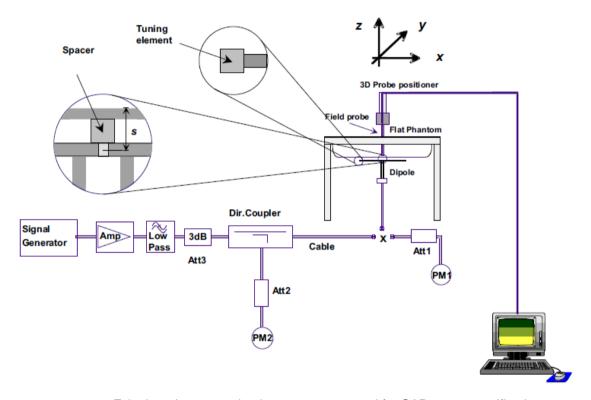


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6.2 SAR System Check

The microwave circuit arrangement for system check is sketched in bellow figure. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table. During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-3. the microwave circuit arrangement used for SAR system verification



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6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Valid	Validation Kit		Measured SAR 250mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date	
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)			
D750V2	Head	2.06	1.37	8.24	5.48	8.23 (7.41~9.05)	5.41 (4.87~5.95)	22.1	2021/6/3	
D835V2	Head	2.35	1.55	9.4	6.2	9.41 (8.47~10.35)	6.25 (5.63~6.88)	22.1	2021/6/4	
D1800V2	Head	9.49	5.03	37.96	20.12	38.4 (34.56~42.24)	20.2 (18.18~22.22)	22.2	2021/6/5	
D1900V2	Head	9.79	5.13	39.16	20.52	39.7 (35.73~43.67)	20.5 (18.45~22.55)	22.3	2021/6/7	
D2300V2	Head	12	5.71	48	22.84	47.4 (42.66~52.14)	22.8 (20.52~25.08)	22	2021/6/8	
D2450V2	Head	13.1	6.12	52.4	24.48	53 (47.70~58.30)	24.6 (22.14~27.60)	22	2021/6/9	
D2600V2	Head	14	6.23	56	24.92	56.2 (50.58~61.82)	25 (22.50~27.50)	22.1	2021/6/10	
Valid	Measured SAR 100mW		R SAR (nor		Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date	
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	` ,		
	Head (5.25GHz)	7.7	2.19	77	21.9	77.7 (69.93~85.47)	22.4 (20.16~24.64)	22.2	2021/6/11	
D5GHzV2	Head (5.6GHz)	7.9	2.3	79	23	81.2 (73.08~89.32)	23.5 (21.15~25.85)	22.2	2021/6/11	
	Head (5.75GHz)	7.87	2.27	78.7	22.7	78.9 (71.01~86.79)	22.7 (20.43~24.97)	22.2	2021/6/11	

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 5 timeslots in downlink, the maximum total timeslot is 6. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 5 timeslots in downlink, the maximum total timeslot is 6.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.



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7.2.2 WCDMA Test Configuration

1) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) . Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure

3) . Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported bodyworn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is \leq 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(β c, β d), and HS-DPCCH power offset parameters (Δ ACK, Δ NACK, Δ CQI) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.



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Sub-test	βc	Bd	βd(SF)	βc/βd	βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: \triangle ACK, \triangle NACK and \triangle CQI= 8 Ahs = β hs/ β c=30/15 β hs=30/15* β c

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle ACK and \triangle NACK= 8 (Ahs=30/15) with β hs=30/15* β c,and \triangle CQI=

7 (Ahs=24/15) with β hs= $24/15*\beta$ c.

Note3: CM=1 for β c/ β d =12/15, β hs/ β c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 6: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter- TTI Interval	MaximumH S-DSCH Transport BlockBits/HS- DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 7: HSDPA UE category

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the "WCDMA Handset" and "Release 5 HSUPA Data Device" sections of 3G device.



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Sub -test₽	βοσ	βde	β _d (SF) _e	β₀∕β⋴ℴ	β _{hs} (1	βec↔	$eta_{ ext{ed}arphi}$	β _e _o (SF)+ ³	βed↔ (code)↔	CM(2)+1 (dB)+2	MP R↓ (dB)↓	AG ⁽⁴)← Inde x←	E- TFC I&
1₽	11/15(3)+3	15/15(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(64₽	11/15(3)43	22/15₽	209/22 5₊³	1039/225₽	4₽	1₽	1.04	0.0₽	20₽	75₽
2₽	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0∉	2.0₽	12 ₽	67₽
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ad1} :47/1 5 ₄ β _{ed2:47/1} 5 ₄	4₽	2₽	2.0∉	1.0₽	15.0	92₽
4₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₽	2.0₽	17₽	71₽
5₽	15/15(4)43	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4₽	1₽	1.0€	0.0₽	21	81₽

 \triangle ACK, \triangle NACK and \triangle CQI = 8 $\beta_{hs} = 30/15 * \beta_{e+1}$ $A_{hs} = \beta_{hs}/\beta_{e} = 30/15$

Note 2: CM = 1 for β₀/β_d = 12/15, β_{hs}/β_c = 24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM differences

Note 3: For subtest 1 the β_o/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ ψ

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15\psi$

Note 5: Testing UE using E-DPDCHPhysical Layer category 1 Sub-test 3 is not required according to TS

Note 6: βed can not be set directly; it is set by Absolute Grant Value.

Table 8: Subtests for WCDMA Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
2	2	4	10	4	14484	1.4392
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
4	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6	4	8	10	2SF2&2SF	11484	5.76
(No DPDCH)	4	4	2	4	20000	2.00
7	4	8	2	2SF2&2SF	22996	?
(No DPDCH)	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM.(TS25.306-7.3.0).

Table 9: HSUPA UE category



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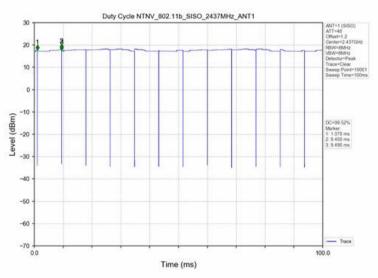
7.2.3 Wi-Fi Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.3.1 Duty cycle

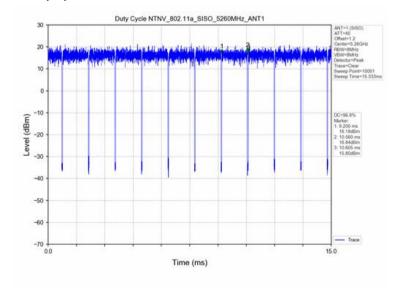
1) 2.4GHz Wi-Fi 802.11b:

WI-FI1 802.11b 1M: Duty cycle= (9.45-1.07) / (9.49-1.07) = 99.52%



2) 5GHz Wi-Fi 802.11a:

WI-FI1 802.11a 6M: Duty cycle= (10.5-9.2) / (10.605-9.2) =96.80%





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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.2.3.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

7.2.3.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement



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procedures are described in the following.

- When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"

7.2.3.5 2.4 GHz Wi-Fi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

• 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
 - 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements



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When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

7.2.3.6 5 GHz Wi-Fi SAR Procedures

U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

• U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 - 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 - 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.



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OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

· SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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7.2.4 BluetoothTest Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.



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7.2.5 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 V13.5.0 (201609) Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Cha	Channel bandwidth / Transmission bandwidth (N _{RB})									
	1.4	1.4 3.0 5 10 15 20									
	MHz	MHz	MHz	MHz	MHz	MHz					
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1				
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1				
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2				

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to



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determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg..



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8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power Of GSM

	GSM 850												
В	Burst Output F	Power(dE	3m)		Tune	Division	Frame-Aver	age Output F	Power(dBm)	Tune			
Chai	nnel	128	190	251	up	Factors	128	190	251	up			
0000/	1 TX Slot	32.22	32.83	32.81	33	-9.01	23.21	23.82	23.8	23.99			
GPRS/ EGPRS	2 TX Slots	31.62	32.25	32.23	32.5	-6.02	25.6	26.23	26.21	26.48			
(GMSK)	3 TX Slots	29.99	30.64	30.67	31	-4.26	25.73	26.38	26.41	26.74			
(Giviort)	4 TX Slots	28.82	29.49	29.43	29.5	-3.01	25.81	26.48	26.42	26.49			
	1 TX Slot	26.93	27.73	27.36	28	-9.01	17.92	18.72	18.35	18.99			
EGPRS	2 TX Slots	25.87	26.75	26.36	27	-6.02	19.85	20.73	20.34	20.98			
(8PSK)	3 TX Slots	23.7	24.61	24.2	25	-4.26	19.44	20.35	19.94	20.74			
	4 TX Slots	22.43	23.33	22.96	24	-3.01	19.42	20.32	19.95	20.99			
					GSM	1900							
Е	Burst Output F	Power(dE	3m)		Tune	Division	Frame-Average Output Power(dBm)			Tune			
Chai	nnel	512	661	810	up	Factors	512	661	810	up			
ODDC/	1 TX Slot	29.27	29.4	29.85	30	-9.01	20.26	20.39	20.84	20.99			
GPRS/ EGPRS	2 TX Slots	28.55	28.7	29.14	29.5	-6.02	22.53	22.68	23.12	23.48			
(GMSK)	3 TX Slots	26.82	26.98	27.43	27.5	-4.26	22.56	22.72	23.17	23.24			
(Giviort)	4 TX Slots	25.73	25.93	26.39	26.4	-3.01	22.72	22.92	23.38	23.39			
	1 TX Slot	26.02	26.14	26.41	27	-9.01	17.01	17.13	17.4	17.99			
EGPRS	2 TX Slots	24.84	25.23	25.49	26	-6.02	18.82	19.21	19.47	19.98			
(8PSK)	3 TX Slots	22.72	23.12	23.32	24	-4.26	18.46	18.86	19.06	19.74			
	4 TX Slots	21.47	21.72	22.14	23	-3.01	18.46	18.71	19.13	19.99			

Table 10: Conducted Power Of GSM



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8.1.2 Conducted Power Of WCDMA

	W	CDMA Band II			
	Average C	onducted Power	(dBm)		
Channel	Mode	9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	21.9	21.95	22.25	22.5
	Subtest 1	17.56	17.38	17.67	19
LICDDA	Subtest 2	17.08	17.13	17.69	19
HSDPA	Subtest 3	17.03	17.63	17.64	19
	Subtest 4	17.04	17.43	17.38	19
	Subtest 1	17.07	17.08	17.93	19
	Subtest 2	17.56	17.08	17.39	19
HSUPA	Subtest 3	17.35	17.6	17.41	19
	Subtest 4	17.01	17.44	17.69	19
	Subtest 5	17.32	17.43	17.38	19
<u>. </u>	W	CDMA Band V			
	Average C	onducted Power	(dBm)		
Channel	Mode	4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	22.98	23.57	23.75	24
	Subtest 1	18.47	18.71	18.93	20
HSDPA	Subtest 2	18.17	19.07	19.22	20
HODPA	Subtest 3	18.22	18.72	18.95	20
	Subtest 4	18.5	19.24	19.41	20
	Subtest 1	18.71	18.99	18.98	20
	Subtest 2	18.73	18.99	19.22	20
HSUPA	Subtest 3	18.55	19	19.45	20
	Subtest 4	18.54	18.77	19.46	20
	Subtest 5	18.72	19.01	19.46	20

Table 11: Conducted Power Of WCDMA



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8.1.3 Conducted Power Of LTE

6.1.3 COIII	LTE Ban				Conducted	Power(dBm)
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193	Tune up
		1	0	22.6	22.49	22.87	23.5
		1	2	22.69	22.56	22.97	23.5
		1	5	22.59	22.45	22.87	23.5
	QPSK	3	0	22.69	22.62	22.9	22.5
		3	2	22.74	22.63	22.89	22.5
		3	3	22.7	22.62	22.91	22.5
4 48411-		6	0	21.7	21.57	21.91	22.5
1.4MHz		1	0	21.79	21.51	21.8	22.5
		1	2	21.89	21.56	21.92	22.5
		1	5	21.77	21.46	21.86	22.5
	16QAM	3	0	21.69	21.79	21.93	21.5
		3	2	21.73	21.8	21.9	21.5
		3	3	21.71	21.78	21.9	21.5
		6	0	20.71	20.58	20.79	21.5
Danduddh	Madulation	DD size	DD offeet	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18615	18900	19185	Tune up
		1	0	22.67	22.67	22.97	23.5
		1	7	22.81	22.72	23.12	23.5
		1	14	22.61	22.52	22.97	23.5
	QPSK	8	0	21.73	21.63	21.97	22.5
		8	4	21.75	21.66	22.01	22.5
		8	7	21.72	21.59	21.96	22.5
3MHz		15	0	21.72	21.59	21.92	22.5
SIVITZ		1	0	21.88	22.18	21.92	22.5
		1	7	21.99	22.24	22.07	22.5
		1	14	21.82	22.07	21.88	22.5
	16QAM	8	0	20.71	20.79	20.99	21.5
		8	4	20.74	20.79	21.02	21.5
		8	7	20.7	20.74	20.97	21.5
		15	0	20.7	20.67	20.94	21.5
Randwidth	Modulation	DR size	DR offoot	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	18625	18900	19175	Tune up
		1	0	22.59	22.56	22.82	23.5
		1	13	22.68	22.63	22.94	23.5
		1	24	22.54	22.41	22.67	23.5
5MHz	QPSK	12	0	21.65	21.61	21.92	22.5
		12	6	21.76	21.67	21.97	22.5
		12	13	21.66	21.58	21.9	22.5
		25	0	21.65	21.59	21.88	22.5



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		1	0	21.85	21.47	21.87	22.5
		1	13	21.94	21.47	22.01	22.5
		1	24	21.84	21.34	21.9	22.5
	16QAM	12	0	20.71	20.66	20.86	21.5
	IOQAW	12	6	20.77	20.64	20.92	21.5
		12	13	20.77	20.55	20.86	21.5
		25	0	20.67	20.64	20.89	21.5
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	22.51	22.75	22.34	23.5
		1	25	22.45	22.57	22.61	23.5
		1	49	22.21	22.31	22.43	23.5
	QPSK	25	0	21.56	21.7	21.4	22.5
		25	13	21.64	21.67	21.42	22.5
		25	25	21.58	21.54	21.42	22.5
400411-		50	0	21.52	21.61	21.45	22.5
10MHz		1	0	21.86	22.31	21.87	22.5
		1	25	22.02	22.26	22.09	22.5
		1	49	21.9	21.99	21.84	22.5
	16QAM	25	0	20.8	20.74	21.01	21.5
		25	13	20.77	20.72	21.04	21.5
		25	25	20.82	20.62	21.01	21.5
		50	0	20.75	20.65	20.93	21.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiath	Modulation	ND 3126	IND Ollset	18675	18900	19125	rune up
		1	0	22.17	22.37	22.16	23.5
		1	38	22.21	22.28	22.36	23.5
		1	74	22.31	21.93	22.36	23.5
	QPSK	36	0	21.36	21.4	21.35	22.5
		36	18	21.37	21.46	21.48	22.5
		36	39	21.47	21.21	21.57	22.5
15MHz		75	0	21.38	21.44	21.47	22.5
		1	0	21.82	22.34	22.08	22.5
		1	38	21.89	22.13	21.99	22.5
		1	74	21.93	22.03	21.82	22.5
	16QAM	36	0	20.79	20.77	20.75	21.5
		36	18	20.79	20.65	20.84	21.5
		36	39	20.84	20.6	20.88	21.5
		75	0	20.87	20.7	20.78	21.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		4	0	18700	18900	19100	22 F
20MHz	QPSK	1	0 50	21.99 22.79	22.17	21.83	23.5 23.5
ZUIVITZ	Qr3N	1			22.93 21.84	22.86 22.17	
1		1	99	22.2	∠1.ŏ4		23.5



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	50	0	21.26	21.55	21.3	22.5
	50	25	21.29	21.18	21.38	22.5
	50	50	21.43	21.01	21.47	22.5
	100	0	21.36	21.44	21.38	22.5
	1	0	21.67	21.71	21.52	22.5
	1	50	22.12	21.89	22.09	22.5
	1	99	21.85	21.22	21.7	22.5
16QAM	50	0	20.77	20.65	20.37	21.5
	50	25	20.8	20.61	20.47	21.5
	50	50	20.98	20.44	20.56	21.5
	100	0	20.86	20.55	20.46	21.5

	LTE Bar	nd 4			Conducted P	ower(dBm)	
Dan builds	NA - I I - C	DD -' -	DD . (()	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up
		1	0	23.34	22.67	23.13	24
		1	2	23.5	22.74	23.32	24
		1	5	23.38	22.67	23.17	24
	QPSK	3	0	23.49	22.81	23.12	24
		3	2	23.53	22.84	23.17	24
		3	3	23.56	22.8	23.15	24
1.4MHz		6	0	22.45	21.74	22.25	23
1.4111172		1	0	21.67	21.89	22.01	23
		1	2	21.98	22.01	22.15	23
	16QAM	1	5	22.44	21.86	22.05	23
		3	0	22.52	21.84	22.27	23
		3	2	22.55	21.86	22.31	23
		3	3	22.53	21.86	22.27	23
		6	0	21.38	20.8	21.14	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	IND SIZE	IND Offset	19965	20175	20385	rune up
		1	0	23.45	22.78	23.14	24
		1	7	23.6	22.93	23.27	24
		1	14	23.48	22.74	23.21	24
	QPSK	8	0	22.47	21.75	22.18	23
		8	4	22.53	21.79	22.22	23
3MHz		8	7	22.51	21.75	22.2	23
		15	0	22.48	21.75	22.14	23
		1	0	22.97	21.8	22.22	23
	16QAM	1	7	22.89	21.94	22.38	23
	IOQAW	1	14	22.98	21.79	22.28	23
		8	0	21.61	20.85	21.09	22



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		8	4	21.68	20.86	21.14	22
		8	7	21.67	20.84	21.11	22
		15	0	21.56	20.83	21.06	22
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
		1	0	23.38	22.62	23.01	24
		1	13	23.55	22.79	23.21	24
		1	24	23.42	22.66	23.07	24
	QPSK	12	0	22.43	21.73	22.03	23
		12	6	22.53	21.81	22.14	23
		12	13	22.51	21.74	22.15	23
5MHz		25	0	22.44	21.74	22.07	23
SIVITZ		1	0	22.57	21.56	22.03	23
		1	13	22.8	21.69	22.21	23
		1	24	22.63	21.54	22.11	23
	16QAM	12	0	21.46	20.76	20.96	22
		12	6	21.56	20.81	21.08	22
		12	13	21.54	20.77	21.08	22
		25	0	21.45	20.8	21.05	22
Donducidth	Modulation	RB size	DD offeet	Channel	Channel	Channel	Tungun
Bandwidth	iviodulation	KD SIZE	RB offset	20000	20175	20350	Tune up
		1	0	23.45	22.75	23.02	24
		1	25	23.66	22.87	23.33	24
		1	49	23.21	22.77	23.22	24
	QPSK	25	0	22.51	21.85	22.04	23
		25	13	22.5	21.8	22.07	23
		25	25	22.47	21.8	22.16	23
10MHz		50	0	22.51	21.8	22.06	23
IUWITZ		1	0	22.6	22.34	21.98	23
		1	25	22.78	22.48	22.15	23
		1	49	22.38	22.35	22.07	23
	16QAM	25	0	21.52	20.94	21.1	22
		25	13	21.52	20.87	21.13	22
		25	25	21.53	20.92	21.2	22
		50	0	21.49	20.89	21.08	22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidin	Woddiation	IVD SIZE	ועם מוופפנ	20025	20175	20325	rune up
		1	0	23.41	22.78	22.85	24
		1	38	23.4	22.77	23.19	24
		1	74	22.84	22.82	23.17	24
15MHz	QPSK	36	0	22.55	21.9	22.14	23
		36	18	22.49	21.85	22.24	23
		36	39	22.3	21.91	22.3	23



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		1	0	22.53	22.37	22.23	23
		1	38	22.52	22.41	22.38	23
		1	74	22.03	22.38	22.33	23
	16QAM	36	0	21.52	20.93	21.04	22
		36	18	21.44	20.89	21.12	22
		36	39	21.23	20.95	21.16	22
		75	0	21.45	20.89	21.16	22
Don duri déb	Modulation	DD oizo	DD offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	23.06	22.74	22.58	24
		1	50	23.31	23.57	23.04	24
		1	99	22.52	22.71	22.9	24
	QPSK	50	0	22.32	22.47	21.96	23
		50	25	22.22	21.81	22.04	23
		50	50	21.95	21.8	22.09	23
20MHz		100	0	22.16	22.31	22.05	23
ZUIVITZ		1	0	22.43	22.03	22.15	23
		1	50	22.55	22.24	22.67	23
	16QAM	1	99	21.71	21.99	22.33	23
		50	0	21.4	20.94	20.98	22
		50	25	21.23	20.87	21.05	22
		50	50	21.02	20.87	21.09	22
		100	0	21.15	20.91	21.1	22

	LTE I	Band 5		Conducted Power(dBm)				
Dan duri déla	Madulation	DD size	DD offeet	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	20407	20525	20643	Tune up	
		1	0	22.75	23.34	23.42	24	
		1	2	22.89	23.5	23.48	24	
		1	5	22.76	23.4	23.4	24	
	QPSK	3	0	22.83	23.48	23.57	24	
		3	2	22.87	23.53	23.58	24	
		3	3	22.85	23.51	23.55	24	
1.4MHz		6	0	21.8	22.44	22.54	23.5	
1.411172		1	0	21.78	22.53	22.45	23.5	
		1	2	21.87	22.69	22.56	23.5	
		1	5	21.81	22.6	22.5	23.5	
	16QAM	3	0	21.88	22.49	22.76	23.5	
		3	2	21.91	22.53	22.84	23.5	
		3	3	21.9	22.54	22.79	23.5	
		6	0	20.75	21.49	21.56	22.5	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	



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				20415	20525	20635	
		1	0	22.8	23.33	23.56	24
		1	7	22.93	23.55	23.69	24
		1	14	22.84	23.42	23.5	24
	QPSK	8	0	21.81	22.37	22.56	23.5
	α. σ. τ	8	4	21.84	22.46	22.58	23.5
		8	7	21.81	22.43	22.51	23.5
		15	0	21.8	22.46	22.57	23.5
3MHz		1	0	21.97	22.95	22.66	23.5
		1	7	22.14	23.15	22.75	23.5
		1	14	22.02	23.06	22.56	23.5
	16QAM	8	0	20.8	21.55	21.66	22.5
		8	4	20.84	21.65	21.69	22.5
		8	7	20.79	21.64	21.58	22.5
		15	0	20.78	21.53	21.64	22.5
Dan desidab	NA - de de tiere	DD sins	DD -#+	Channel	Channel	Channel	Т
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	22.69	23.22	23.52	24
		1	13	22.89	23.48	23.56	24
	QPSK	1	24	22.91	23.4	23.41	24
		12	0	21.8	22.35	22.66	23.5
		12	6	21.87	22.45	22.62	23.5
		12	13	21.88	22.45	22.51	23.5
5MHz		25	0	21.83	22.41	22.57	23.5
JIVII 12		1	0	21.96	22.15	22.64	23.5
		1	13	22.17	22.38	22.7	23.5
		1	24	22.13	22.31	22.55	23.5
	16QAM	12	0	20.84	21.38	21.63	22.5
		12	6	20.92	21.46	21.58	22.5
		12	13	20.89	21.47	21.51	22.5
		25	0	20.83	21.48	21.62	22.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20450	20525	20600	
		1	0	22.79	23.17	23.55	24
		1	25	23.4	23.55	23.7	24
	QPSK OMHz	1	49	23.22	23.52	23.52	24
		25	0	21.94	22.37	22.71	23.5
10MHz		25	13	21.98	22.46	22.63	23.5
		25	25	22.15	22.53	22.48	23.5
		50	0	21.99	22.44	22.59	23.5
		1	0	21.98	22.76	22.59	23.5
	16QAM	1	25	22.32	23.16	22.77	23.5
		1	49	22.4	23.18	22.57	23.5



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25	0	20.97	21.44	21.82	22.5
25	13	21.05	21.56	21.75	22.5
25	25	21.18	21.62	21.61	22.5
50	0	21.02	21.46	21.65	22.5

	LTE	E Band 7		Conducted Power(dBm)					
Bandwidth	Modulation	DD oizo	RB offset	Channel	Channel	Channel	Tungun		
Bandwidth	Modulation	RB size	RD Ollset	20775	21100	21425	Tune up		
		1	0	21.79	21.85	21.41	23		
		1	13	21.93	22.06	21.72	23		
		1	24	21.69	21.96	21.65	23		
	QPSK	12	0	20.87	20.99	20.62	22.5		
		12	6	20.94	21.09	20.67	22.5		
		12	13	20.88	21.05	20.65	22.5		
5MHz		25	0	20.87	21.01	20.62	22.5		
SIVITZ		1	0	20.97	21.17	20.31	22.5		
		1	13	21.06	21.36	20.58	22.5		
		1	24	20.88	21.22	20.58	22.5		
	16QAM	12	0	19.91	20.05	19.59	21.5		
		12	6	19.94	20.12	19.69	21.5		
		12	13	19.89	20.05	19.66	21.5		
		25	0	19.93	20.02	19.66	21.5		
Bandwidth	Madulation	RB size	DD affact	Channel	Channel	Channel	T		
bandwidth	Modulation	KD SIZE	RB offset	20800	21100	21400	Tune up		
		1	0	22.52	22.37	21.78	23		
		1	25	22.5	22.59	21.85	23		
		1	49	22.2	22.37	21.78	23		
	QPSK	25	0	21.47	21.58	20.74	22.5		
		25	13	21.37	21.61	20.9	22.5		
		25	25	21.38	21.64	21.08	22.5		
10MHz		50	0	21.38	21.61	21	22.5		
TUIVITZ		1	0	21.46	21.6	21.5	22.5		
		1	25	21.53	21.86	21.75	22.5		
		1	49	21.14	21.77	21.84	22.5		
	16QAM	25	0	20.56	20.62	20.1	21.5		
		25	13	20.52	20.64	20.17	21.5		
		25	25	20.49	20.68	20.27	21.5		
		50	0	20.46	20.64	20.14	21.5		
Pandwidth	Modulation	DD oizo	DP offset	Channel	Channel	Channel	Tungun		
Bandwidth	Modulation	RB size	RB offset	20825	21100	21375	Tune up		
4EMIL-	ODCK	1	0	22.39	22.2	21.68	23		
15MHz	QPSK	1	38	22.25	22.46	21.51	23		



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		1	74	21.81	22.28	21.71	23
		36	0	21.4	21.53	20.55	22.5
		36	18	21.33	21.63	20.64	22.5
		36	39	21.17	21.73	20.88	22.5
		75	0	21.29	21.6	20.8	22.5
		1	0	21.57	21.82	21.35	22.5
		1	38	21.44	22.17	21.37	22.5
		1	74	21.04	22.1	21.61	22.5
	16QAM	36	0	20.45	20.5	19.94	21.5
		36	18	20.35	20.62	19.97	21.5
		36	39	20.22	20.7	20.11	21.5
		75	0	20.28	20.58	20.04	21.5
Dan duri dala	Madulation	DD ains	DD offeet	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20850	21100	21350	Tune up
		1	0	22.25	21.89	21.6	23
		1	50	22.26	22.56	22.62	23
		1	99	21.69	21.87	21.51	23
	QPSK	50	0	21.2	21.39	21.49	22.5
		50	25	21.13	21.47	20.67	22.5
		50	50	21.06	21.33	20.62	22.5
20MHz		100	0	21.16	21.29	21.43	22.5
ZUIVITZ		1	0	21.48	21.3	21.56	22.5
		1	50	21.5	21.99	21.62	22.5
		1	99	20.9	21.6	21.45	22.5
	16QAM	50	0	20.31	20.44	20.06	21.5
		50	25	20.21	20.61	19.94	21.5
		50	50	20.09	20.67	20.06	21.5
		100	0	20.21	20.59	20.09	21.5

	LTE FDD Band		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung un
Bandwidth	Modulation	KD SIZE	RD Ollset	23205	23230	23255	Tune up
		1	0	22.52	22.42	22.4	23
		1	13	22.56	22.52	22.5	23
		1	24	22.39	22.35	22.3	23
	QPSK	12	0	21.45	21.46	21.46	22
5MHz		12	6	21.56	21.53	21.51	22
ЭМЦТ		12	13	21.47	21.43	21.44	22
	16QAM	25	0	21.46	21.45	21.44	22
		1	0	21.61	21.67	21.23	22
		1	13	21.68	21.76	21.36	22
		1	24	21.5	21.6	21.2	22



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		12	0	20.43	20.53	20.48	21
		12	6	20.58	20.61	20.54	21
		12	13	20.53	20.52	20.44	21
		25	0	20.55	20.48	20.52	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Dandwidth	Modulation	ND SIZE	KD 011861	NA	23230	NA	rune up
		1	0	NA	22.62	NA	23
		1	25	NA	22.65	NA	23
		1	49	NA	22.45	NA	23
	QPSK	25	0	NA	21.45	NA	22
		25	13	NA	21.53	NA	22
		25	25	NA	21.48	NA	22
40MU-		50	0	NA	21.48	NA	22
10MHz		1	0	NA	21.78	NA	22
		1	25	NA	21.88	NA	22
		1	49	NA	21.63	NA	22
16QAM	25	0	NA	20.53	NA	21	
		25	13	NA	20.61	NA	21
		25	25	NA	20.55	NA	21
		50	0	NA	20.55	NA	21

	LTE FDD Band	17		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung un	
Danuwium	Modulation	ND SIZE	IND Offset	23755	23790	23825	Tune up	
		1	0	22.16	22.01	21.95	23	
	QPSK	1	13	22.16	22.08	22.16	23	
		1	24	22.02	21.95	22.11	23	
		12	0	21.21	21.09	21.14	22	
		12	6	21.22	21.14	21.23	22	
		12	13	21.16	21.07	21.21	22	
5MHz		25	0	21.2	21.12	21.17	22	
ЭМЦТ		1	0	21.29	21.31	20.86	22	
		1	13	21.32	21.41	21.11	22	
		1	24	21.18	21.27	21.05	22	
	16QAM	12	0	20.21	20.12	20.14	21	
		12	6	20.22	20.18	20.21	21	
		12	13	20.14	20.09	20.2	21	
		25	0	20.26	20.12	20.22	21	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune un	
Danuwiuin	Modulation	IVD SIZE	IVD OHSEL	23780	23790	23800	Tune up	
10MHz	QPSK	1	0	22.17	22.16	22.14	23	
IUIVITZ	QF3N	1	25	22.21	22.25	22.22	23	



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	1	49	22.05	22.11	22.19	23
	25	0	21.16	21.17	21.14	22
	25	13	21.15	21.11	21.13	22
	25	25	21.1	21.09	21.12	22
	50	0	21.15	21.17	21.12	22
	1	0	21.41	21.82	21.19	22
	1	25	21.45	21.81	21.24	22
	1	49	21.27	21.75	21.25	22
16QAM	25	0	20.23	20.19	20.26	21
	25	13	20.23	20.21	20.22	21
	25	25	20.17	20.2	20.21	21
	50	0	20.2	20.14	20.18	21

	LTE Band 3	8		Cond	ucted Power((dBm)	
5 1 1 1 1 1 1 1		DD :	RB	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	RB size	offset	37775	38000	38225	
		1	0	22.66	22.29	22.98	23.5
		1	13	22.85	22.46	23.11	23.5
		1	24	22.7	22.39	22.84	23.5
	QPSK	12	0	21.82	21.42	22.08	22.5
		12	6	21.85	21.49	22.09	22.5
		12	13	21.81	21.45	22.05	22.5
5MHz	z	25	0	21.85	21.42	22.03	22.5
ЭМЦТ		1	0	21.88	21.51	22.2	22.5
	16QAM	1	13	22.1	21.92	22.33	22.5
		1	24	21.93	21.56	22.18	22.5
		12	0	20.73	20.4	21.07	21.5
		12	6	20.9	20.49	21.07	21.5
		12	13	20.86	20.48	21.05	21.5
		25	0	20.84	20.48	21.03	21.5
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune up
Balluwiutii	iviodulation	ND SIZE	offset	37800	38000	38200	Turie up
		1	0	22.86	22.37	23.06	23.5
		1	25	23.23	22.66	23.3	23.5
		1	49	22.76	22.53	23.12	23.5
	QPSK	25	0	21.92	21.48	22.1	22.5
		25	13	21.89	21.46	22.13	22.5
10MHz		25	25	21.85	21.56	22.12	22.5
		50	0	21.85	21.5	22.14	22.5
		1	0	21.84	21.61	22.15	22.5
	16QAM	1	25	21.89	21.6	22.51	22.5
	IOQAW	1	49	21.65	21.83	22.18	22.5
		25	0	20.97	20.52	21.16	21.5



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		25	13	20.92	20.56	21.16	21.5
		25	25	20.89	20.61	21.16	21.5
		50	0	20.9	20.52	21.15	21.5
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tune up
Danuwiuiii	iviodulation	KD SIZE	offset	37825	38000	38175	rune up
		1	0	22.81	22.27	22.81	23.5
		1	38	22.75	22.42	23.06	23.5
		1	74	22.38	22.53	22.96	23.5
	QPSK	36	0	21.9	21.44	21.98	22.5
		36	18	21.84	21.45	22.07	22.5
		36	39	21.66	21.57	22.15	22.5
15MHz		75	0	21.77	21.5	22.08	22.5
ISIVITZ		1	0	21.72	21.28	21.98	22.5
		1	38	21.75	21.68	21.99	22.5
		1	74	21.55	21.84	22.45	22.5
	16QAM	36	0	20.84	20.42	20.99	21.5
		36	18	20.77	20.46	21.12	21.5
		36	39	20.62	20.59	21.19	21.5
		75	0	20.76	20.51	21.03	21.5
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Tung un
Danuwiuin	iviodulation	KD SIZE	offset	37850	38000	38150	Tune up
		1	0	22.55	22.12	22.43	23.5
		1	50	22.84	22.65	23.26	23.5
		1	99	22.05	22.39	22.78	23.5
	QPSK	50	0	21.76	21.38	21.76	22.5
		50	25	21.67	21.43	21.92	22.5
		50	50	21.48	21.5	22.03	22.5
20MHz		100	0	21.65	21.44	21.88	22.5
ΖυίνιπΖ		1	0	21.56	21.39	21.67	22.5
		1	50	21.66	22.03	22.4	22.5
		1	99	21.14	21.59	21.52	22.5
1	16QAM	50	0	20.76	20.38	20.77	21.5
	IOQAW						
	TOQAWI	50	25	20.64	20.46	20.96	21.5
	TOGANVI		25 50	20.64 20.49	20.46 20.56	20.96 21.05	21.5 21.5

LTE Band 40(2305-2315MHz)				Cond	_		
Pondwidth	Bandwidth Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiani		ND SIZE ND OIISEL		38725	38750	38775	
		1	0	22.4	22.5	22.45	23.5
5MHz	QPSK	1	13	22.67	22.56	22.57	23.5
SIVIFIZ	QFSK	1	24	22.46	22.43	22.34	23.5
		12	0	21.46	21.43	21.35	22.5



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		12	6	21.66	21.52	21.56	22.5
		12	13	21.49	21.53	21.48	22.5
		25	0	21.48	21.51	21.39	22.5
		1	0	21.74	21.53	21.58	22.5
		1	13	21.84	21.62	21.57	22.5
		1	24	21.66	21.47	21.38	22.5
	16QAM	12	0	20.61	20.39	20.41	21
		12	6	20.54	20.48	20.48	21
		12	13	20.56	20.45	20.49	21
		25	0	20.54	20.47	20.43	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwium	Modulation	KD SIZE	KD Ollset	NA	38750	NA	Tune up
		1	0	NA	22.89	NA	23.5
		1	25	NA	22.75	NA	23.5
		1	49	NA	22.36	NA	23.5
	QPSK	25	0	NA	21.44	NA	22.5
		25	13	NA	21.64	NA	22.5
		25	25	NA	21.61	NA	22.5
10MHz		50	0	NA	21.55	NA	22.5
IUIVITZ		1	0	NA	21.49	NA	22.5
		1	25	NA	22.14	NA	22.5
		1	49	NA	21.56	NA	22.5
	16QAM	25	0	NA	20.55	NA	21
		25	13	NA	20.63	NA	21
		25	25	NA	20.65	NA	21
		50	0	NA	20.51	NA	21

LTE	E Band 40(2350-2	2360MHz)		Cond	T		
Bandwidth	Modulation	DD size	RB offset	Channel	Channel	Channel	Tune up
bandwidth	Modulation	RB size	KD Ollset	39175	39200	39225	
	QPSK	1	0	22.48	22.39	22.44	23
		1	13	22.59	22.41	22.52	23
		1	24	22.49	22.36	22.18	23
		12	0	21.73	21.56	21.46	22.5
		12	6	21.55	21.54	21.32	22.5
		12	13	21.44	21.31	21.29	22.5
5MHz		25	0	21.48	21.34	21.29	22.5
		1	0	21.75	21.89	21.52	22.5
		1	13	21.65	21.55	21.57	22.5
	16OAM	1	24	21.39	21.26	21.4	22.5
	16QAM	12	0	20.74	20.57	20.38	21
		12	6	20.56	20.55	20.4	21
		12	13	20.45	20.3	20.43	21



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		25	0	20.55	20.55	20.37	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tupo up
Danawiani	Modulation	KD SIZE	e KD Oliset	NA	39200	NA	Tune up
		1	0	NA	22.77	NA	23
		1	25	NA	22.76	NA	23
		1	49	NA	22.47	NA	23
	QPSK	25	0	NA	21.53	NA	22.5
		25	13	NA	21.41	NA	22.5
		25	25	NA	21.36	NA	22.5
10MHz		50	0	NA	21.45	NA	22.5
TOWINZ		1	0	NA	21.67	NA	22.5
		1	25	NA	21.7	NA	22.5
		1	49	NA	21.3	NA	22.5
	16QAM	25	0	NA	20.72	NA	21
		25	13	NA	20.47	NA	21
		25	25	NA	20.4	NA	21
		50	0	NA	20.58	NA	21

ı	LTE FDD Band	d 41			C	conducted	Power(dBm	1)	
Dondwidth	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	size	offset	39675	40148	40620	41093	41565	Tune up
		1	0	22.78	22.75	22.58	22.62	22.60	23.5
		1	13	22.76	22.70	22.60	22.77	22.86	23.5
		1	24	22.68	22.63	22.50	22.61	22.62	23.5
	QPSK	12	0	21.74	21.73	21.58	21.68	21.71	22.5
		12	6	21.86	21.77	21.64	21.74	21.76	22.5
		12	13	21.89	21.77	21.57	21.77	21.87	22.5
5MHz		25	0	21.86	21.81	21.61	21.75	21.83	22.5
SIVITZ		1	0	21.93	21.84	21.70	21.79	21.79	22.5
		1	13	22.08	22.12	22.07	22.06	21.95	22.5
		1	24	21.80	21.94	21.94	21.95	21.90	22.5
	16QAM	12	0	20.89	20.76	20.59	20.70	20.73	21.5
		12	6	21.01	20.84	20.58	20.76	20.83	21.5
		12	13	20.96	20.81	20.52	20.71	20.83	21.5
		25	0	20.87	20.78	20.64	20.76	20.80	21.5
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tune up
Dandwidth	Modulation	size	offset	39700	40160	40620	41080	41540	Tune up
		1	0	22.97	22.91	22.70	22.74	22.71	23.5
		1	25	23.33	23.15	22.92	22.95	22.89	23.5
10MHz	QPSK	1	49	22.97	22.85	22.64	22.84	22.94	23.5
I UIVII IZ	QF SIX	25	0	21.95	21.93	21.76	21.74	21.65	22.5
		25	13	22.05	21.87	21.64	21.71	21.70	22.5
		25	25	22.03	21.88	21.65	21.81	21.87	22.5



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		50	0	22.01	21.91	21.67	21.78	21.82	22.5
		1	0	21.81	21.77	21.68	21.77	21.77	22.5
		1	25	22.14	22.03	21.83	22.13	22.32	22.5
		1	49	21.79	21.87	21.81	21.88	21.88	22.5
	16QAM	25	0	21.01	20.95	20.85	20.84	20.75	21.5
	TOQAW	25	13	21.03	20.93	20.74	20.84	20.73	21.5
		25	25	21.03	20.95	20.75	20.85	20.89	21.5
		50	0	20.94	20.82	20.66	20.78	20.81	21.5
		RB	RB	Channel	Channel	Channel	Channel	Channel	21.0
Bandwidth	Modulation	size	offset	39725	40173	40620	41068	41515	Tune up
		1	0	22.85	22.78	22.65	22.68	22.56	23.5
		1	38	23.06	22.91	22.68	22.79	22.85	23.5
		1	74	22.61	22.62	22.53	22.77	22.93	23.5
	QPSK	36	0	22.00	21.92	21.77	21.80	21.69	22.5
	4. 5.1	36	18	22.00	21.89	21.70	21.73	21.71	22.5
		36	39	21.84	21.83	21.72	21.86	21.92	22.5
		75	0	21.93	21.89	21.78	21.89	21.85	22.5
15MHz		1	0	21.91	21.97	21.94	21.97	21.96	22.5
		1	38	21.89	21.81	21.63	21.83	21.94	22.5
		1	74	21.58	21.73	21.81	21.98	22.01	22.5
	16QAM	36	0	21.01	20.94	20.79	20.71	20.58	21.5
		36	18	20.99	20.90	20.70	20.74	20.70	21.5
		36	39	20.89	20.83	20.71	20.84	20.82	21.5
		75	0	20.95	20.90	20.77	20.80	20.79	21.5
	NA 1 1 4	RB	RB	Channel	Channel	Channel	Channel	Channel	-
Bandwidth	Modulation	size	offset	39750	40185	40620	41055	41490	Tune up
		1	0	22.65	22.68	22.64	22.67	22.56	23.5
		1	50	23.10	23.06	22.95	22.96	23.13	23.5
		1	99	22.20	22.36	22.41	22.61	22.72	23.5
	QPSK	50	0	21.96	21.86	21.69	21.80	22.07	22.5
		50	25	21.86	21.82	21.70	21.67	21.59	22.5
		50	50	21.62	21.69	21.65	21.68	21.63	22.5
201411-		100	0	21.85	21.80	21.68	21.79	21.76	22.5
20MHz		1	0	21.72	21.80	21.79	21.82	21.81	22.5
		1	50	21.99	22.11	22.13	22.15	22.08	22.5
		1	99	21.55	21.63	21.64	21.53	21.28	22.5
	16QAM	50	0	20.95	20.90	20.76	20.79	20.77	21.5
		50	25	20.97	20.92	20.77	20.75	20.65	21.5
		50	50	20.68	20.71	20.67	20.77	20.73	21.5
		30	00	20.00	_0				_

Table 12: Conducted Power Of LTE



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8.1.4 Conducted Power Of Wi-Fi and BT

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power(dBm)	Tune up
	1	2412		15.1	15.5
802.11b	6	2437	1	15.31	15.5
	11	2462		15.32	15.5
	1	2412		13.44	14.5
802.11g	6	2437	MCS0	14.16	14.5
	11	2462		13.72	14.5
	1	2412		13.34	14.5
802.11n HT20	6	2437	MCS0	13.83	14.5
	11	2462		13.94	14.5
	3	2422		13.92	14.5
802.11n HT40	6	2437	MCS0	14.43	14.5
	9	2452		13.25	14.5

Band	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
		36	5180		13.71	14
	802.11a	40	5200	6	13.78	14
		48	5240		13.7	14
	000.44	36	5180		13.44	14
	802.11n HT20	40	5200	MCS0	13.54	14
	11120	48	5240		13.21	14
5 00 LI-	000 44 - 11740	38	5190	MCS0	13.18	14
5.2GHz	802.11n HT40	46	5230	IVICSU	13.21	14
		36	5180		13.61	14
	802.11ac 20M	40	5200	MCS0	13.51	14
		48	5240		13.35	14
	000 4400 4014	38	5190	MCS0	13.78	14
	802.11ac 40M	46	5230	IVICSU	13.47	14
	802.11ac 80M	42	5210	MCS0	13.24	14
Band	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
		52	5260		13.63	14.5
	802.11a	60	5300	6	13.5	14.5
		64	5320		13.5	14.5
5.3GHz		52	5260		13.21	14
	802.11n HT20	60	5300	MCS0	13.15	14
		64	5320		13.16	14
	802.11n HT40	54	5270	MCS0	12.91	14



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		60	5240		40.00	4.4
		62	5310		12.89	14
		52	5260		13.14	14
	802.11ac 20M	60	5300	MCS0	13.06	14
		64	5320		13.03	14
	802.11ac 40M	54	5270	MCS0	13.58	14
		62	5310		13.49	14
	802.11ac 80M	58	5290	MCS0	13.23	14
Band	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
		100	5500		13.62	14.5
	802.11a	116	5580	6	13.75	14.5
		140	5700		13.23	14.5
		100	5500		13.24	14
	802.11n HT20	116	5580	MCS0	13.42	14
		140	5700		12.97	14
		102	5510		13.17	14
	802.11n HT40	110	5550	MCS0	13.27	14
5.5GHz		134	5670		12.8	14
		100	5500		13.32	14
	802.11ac 20M	116	5580	MCS0	13.6	14
		140	5700	-	13.19	14
		102	5510		13.37	14
	802.11ac 40M	110	5550	MCS0	13.31	14
	00211100 10111	134	5670	1	13.45	14
		106	5530		13.51	14
	802.11ac 80M	122	5610	MCS0	13.1	14
Band	mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
		149	5745		13.13	14
	802.11a	157	5785	6	13.03	14
		165	5825		13.36	14
		149	5745		13.94	14.5
	802.11n HT20	157	5785	MCS0	13.85	14.5
		165	5825		14.07	14.5
5.0011	000 44 11740	151	5755	14000	13.56	14
5.8GHz	802.11n HT40	159	5795	MCS0	13.89	14
		149	5745		13.3	14
	802.11ac 20M	157	5785	MCS0	13.55	14
		165	5825	1	13.7	14
		151	5755		13.62	14
	802.11ac 40M	159	5795	MCS0	13.74	14
	802.11ac 80M	155	5775	MCS0	13.47	14



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Table 13: Conducted Power Of Wi-Fi

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

	ВТ		Average Conducted	Tune up
Modulation	Channel	Frequency (MHz)	Power(dBm)	(dBm)
	0	2402	6.94	7.5
GFSK	39	2441	7.09	7.5
	78	2480	7.02	7.5
	0	2402	6.12	6.5
π/4DQPSK	39	2441	6.06	6.5
	78	2480	5.91	6.5
	0	2402	5.85	6.5
8DPSK	39	2441	5.93	6.5
	78	2480	5.94	6.5
	BLE_1M		Average Conducted	Tune up
Modulation	Channel	Frequency (MHz)	Power(dBm)	(dBm)
	0	2402	-3.67	-2.5
GFSK	19	2440	-1.42	-1
	39	2480	-1.74	-1
	BLE_2M		Average Conducted	Tune up
Modulation	Channel	Frequency (MHz)	Power(dBm)	(dBm)
	0	2402	-3.3	-2.5
GFSK	19	2440	-1.09	-1
	39	2480	-1.28	-1

Table 14: Conducted Power Of BT



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8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

exposure condition								
Freq. Band	Frequency (GHz)	Position	Averag	e Power	Test Separation (mm)	Calculate Value	Exclusion Threshold	Exclusion (Y/N)
			dBm	mW	(11111)			
GSM850	0.849	Extremity	31	1258.9	0	232.0	7.5	N
GSM1900	1.91	Extremity	29.5	891.3	0	246.3	7.5	N
WCDMA Band II	1.91	Extremity	22.5	177.8	0	49.2	7.5	N
WCDMA Band V	0.849	Extremity	24	251.2	0	46.3	7.5	N
LTE band 2	1.91	Extremity	23.5	223.9	0	61.9	7.5	N
LTE band 4	1.755	Extremity	24	251.2	0	66.6	7.5	N
LTE band 5	0.849	Extremity	24	251.2	0	46.3	7.5	N
LTE band 7	2.57	Extremity	23	199.5	0	64.0	7.5	N
LTE band 13	0.787	Extremity	23	199.5	0	35.4	7.5	N
LTE band 17	0.716	Extremity	23	199.5	0	33.8	7.5	N
LTE band 38	2.62	Extremity	23.5	223.9	0	72.5	7.5	N
LTE band 40	2.36	Extremity	23.5	223.9	0	68.8	7.5	N
LTE band 41	2.69	Extremity	23.5	223.9	0	73.4	7.5	N
Wi-Fi 2.4GHz	2.462	Extremity	15.5	35.5	0	11.1	7.5	N
Wi-Fi 5GHz	5.85	Extremity	14.5	28.2	0	13.6	7.5	N
Bluetooth	2.48	Extremity	7.5	5.6	0	1.8	7.5	Y

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Note:

The customer requires testing all surfaces.



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8.3 Measurement of SAR Data

8.3.1 SAR Result Of GSM850

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)
			E	ktremity Te	est data W	ith SIM1(Omm)					
Front side	GPRS 3TS	251/848.8	1:2.075	0.133	0.065	0.05	30.67	31	1.079	0.070	22.1	4
Back side	GPRS 3TS	251/848.8	1:2.075	1.12	0.531	0.03	30.67	31	1.079	0.573	22.1	4
Left side	GPRS 3TS	251/848.8	1:2.075	0.157	0.084	-0.05	30.67	31	1.079	0.091	22.1	4
Right side	GPRS 3TS	251/848.8	1:2.075	0.085	0.041	0.02	30.67	31	1.079	0.044	22.1	4
Top side	GPRS 3TS	251/848.8	1:2.075	1.35	0.678	-0.09	30.67	31	1.079	0.732	22.1	4
Bottom side	GPRS 3TS	251/848.8	1:2.075	0	0	0	30.67	31	1.079	0.000	22.1	4
Top side	EGPRS 3TS	251/848.8	1:2.075	0.441	0.237	-0.08	24.2	25	1.202	0.285	22.1	4
Top side	GPRS 3TS	128/824.2	1:2.075	1.21	0.643	0.13	30.51	31	1.119	0.720	22.1	4
Top side	GPRS 3TS	190/836.6	1:2.075	1.18	0.658	0.06	30.64	31	1.086	0.715	22.1	4
			E	ctremity Te	est data W	ith SIM2(Omm)					
Top side	GPRS 3TS	251/848.8	1:2.075	1.22	0.645	0.04	30.67	31	1.079	0.696	22.1	4
		На	ındheld Ba	ck Test da	ata at the v	vorst case	(Separate (Omm)				
Handheld Back	GPRS 3TS	251/848.8	1:2.075	1.77	0.843	0.07	30.67	31	1.079	0.910	22.1	4

Table 15: SAR Result Of GSM850 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
- 3) The customer requires testing all channels



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8.3.2 SAR Result Of GSM1900

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Condu cted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)
			E	xtremity To	est data W	/ith SIM1(0m	nm)					
Front side	GPRS 2TS	810/1909.8	1:2.075	0.319	0.166	0.03	29.14	29.5	1.086	0.180	22.3	4
Back side	GPRS 2TS	810/1909.8	1:2.075	2.56	1.37	-0.14	29.14	29.5	1.086	1.488	22.3	4
Left side	GPRS 2TS	810/1909.8	1:2.075	0.342	0.179	0.05	29.14	29.5	1.086	0.194	22.3	4
Right side	GPRS 2TS	810/1909.8	1:2.075	0.137	0.074	0.02	29.14	29.5	1.086	0.080	22.3	4
Top side	GPRS 2TS	810/1909.8	1:2.075	4.56	2.29	-0.1	29.14	29.5	1.086	2.488	22.3	4
Bottom side	GPRS 2TS	810/1909.8	1:2.075	0	0	0.00	29.14	29.5	1.086	0.000	22.3	4
Top side	GPRS 2TS	512/1850.2	1:2.075	4.18	2.13	-0.17	28.55	29.5	1.245	2.651	22.3	4
Top side	GPRS 2TS	661/1880	1:2.075	4.79	2.35	-0.11	28.7	29.5	1.202	2.825	22.3	4
Top side	EGPRS 2TS	661/1880	1:2.075	1.91	0.945	0.04	23.2	24	1.202	1.136	22.3	4
			E	xtremity To	est data W	/ith SIM2(0m	nm)					
Top side	GPRS 2TS	661/1880	1:2.075	4.51	2.24	-0.12	28.7	29.5	1.202	2.693	22.3	4
		Ha	andheld Ba	ck Test da	ata at the v	worst case(S	Separate 0	mm)				
Handheld Back	GPRS 2TS	661/1880	1:2.075	5.08	2.48	-0.17	28.7	29.5	1.202	2.982	22.3	4

Table 16: SAR Result Of GSM1900 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
- 3) The customer requires testing all channels



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8.3.3 SAR Result Of WCDMA Band II

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)
				Extremit	y Test dat	a With SIN	M1(0mm)					
Front side	RMC	9400/1880	1:1	0.378	0.185	0.06	21.95	22.5	1.135	0.210	22.3	4
Back side	RMC	9400/1880	1:1	2.78	1.46	-0.12	21.95	22.5	1.135	1.657	22.3	4
Left side	RMC	9400/1880	1:1	0.512	0.257	0.03	21.95	22.5	1.135	0.292	22.3	4
Right side	RMC	9400/1880	1:1	0.219	0.112	-0.02	21.95	22.5	1.135	0.127	22.3	4
Top side	RMC	9400/1880	1:1	4.81	2.21	-0.13	21.95	22.5	1.135	2.508	22.3	4
Bottom side	RMC	9400/1880	1:1	0	0	0.00	21.95	22.5	1.135	0.000	22.3	4
Top side	RMC	9262/1852.4	1:1	4.77	2.24	0.15	21.9	22.5	1.148	2.572	22.3	4
Top side	RMC	9538/1907.6	1:1	5.16	2.5	-0.08	22.25	22.5	1.059	2.648	22.3	4
				Extremit	y Test dat	a With SIN	M2(0mm)					
Top side	RMC	9538/1907.6	1:1	4.93	2.42	0.02	22.25	22.5	1.059	2.563	22.3	4
		I	Handheld	Back Tes	t data at t	he worst c	ase(Separate	0mm)				
Handheld Back	RMC	9538/1907.6	1:1	5.83	2.84	-0.09	22.25	22.5	1.059	3.008	22.3	4
Handheld Back Repeat SAR	RMC	9538/1907.6	1:1	5.77	2.79	0.15	22.25	22.5	1.059	2.955	22.3	4

Table 17: SAR Result Of WCDMA Band II

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
- 3) The customer requires testing all channels



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8.3.4 SAR Result Of WCDMA Band V

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp	SAR limit (W/kg)
				Extremi	ty Test da	ta With SI	M1(0mm)					
Front side	RMC	4182/836.4	1:1	0.312	0.154	0.05	23.57	24	1.104	0.170	22.1	4
Back side	RMC	4182/836.4	1:1	1.49	0.737	0.03	23.57	24	1.104	0.814	22.1	4
Left side	RMC	4182/836.4	1:1	0.129	0.067	0.06	23.57	24	1.104	0.074	22.1	4
Right side	RMC	4182/836.4	1:1	0.084	0.044	-0.02	23.57	24	1.104	0.049	22.1	4
Top side	RMC	4182/836.4	1:1	1.72	0.885	0.05	23.57	24	1.104	0.977	22.1	4
Bottom side	RMC	4182/836.4	1:1	0	0	0.00	23.57	24	1.104	0.000	22.1	4
Top side	RMC	4132/826.4	1:1	1.48	0.764	0.04	22.98	24	1.265	0.966	22.1	4
Top side	RMC	4233/846.6	1:1	1.7	0.863	-0.06	23.75	24	1.059	0.914	22.1	4
				Extremi	ty Test da	ta With SI	M2(0mm)					
Top side	RMC	4182/836.4	1:1	1.65	0.821	0.02	23.57	24	1.104	0.906	22.1	4
			Handheld	d Back Te	st data at t	the worst	case(Separate	0mm)				
Handheld Back	RMC	4182/836.4	1:1	1.93	0.922	-0.13	23.57	24	1.104	1.018	22.1	4

Table 18: SAR Result Of WCDMA Band V Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
- 3) The customer requires testing all channels



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8.3.5 SAR Result Of LTE Band 2

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extrem	ity Test da	ata With S	IM1(0mm)	1					
Front side	20M_QPSK 1RB_50	18900/1880	1:1	0.313	0.154	0.03	22.93	23.5	1.140	0.176	22.3	4
Front side	20M_QPSK 50RB_0	18900/1880	1:1	0.205	0.101	0.04	21.55	22.5	1.245	0.126	22.3	4
Back side	20M_QPSK 1RB_50	18900/1880	1:1	2.64	1.4	-0.09	22.93	23.5	1.140	1.596	22.3	4
Back side	20M_QPSK 50RB_0	18900/1880	1:1	2.11	1.04	0.02	21.55	22.5	1.245	1.294	22.3	4
Left side	20M_QPSK 1RB_50	18900/1880	1:1	0.441	0.217	-0.17	22.93	23.5	1.140	0.247	22.3	4
Left side	20M_QPSK 50RB_0	18900/1880	1:1	0.387	0.192	0.05	21.55	22.5	1.245	0.239	22.3	4
Right side	20M_QPSK 1RB_50	18900/1880	1:1	0.159	0.082	0.08	22.93	23.5	1.140	0.094	22.3	4
Right side	20M_QPSK 50RB_0	18900/1880	1:1	0.112	0.058	-0.16	21.55	22.5	1.245	0.072	22.3	4
Top side	20M_QPSK 1RB_50	18900/1880	1:1	4.52	2.26	-0.01	22.93	23.5	1.140	2.577	22.3	4
Top side	20M_QPSK 50RB_0	18900/1880	1:1	3.89	1.93	0.08	21.55	22.5	1.245	2.402	22.3	4
Top side	20M_QPSK 100RB_0	18900/1880	1:1	3.62	1.77	0.15	21.44	22.5	1.276	2.259	22.3	4
Bottom side	20M_QPSK 1RB_50	18900/1880	1:1	0	0	0	22.93	23.5	1.140	0.000	22.3	4
Bottom side	20M_QPSK 50RB_0	18900/1880	1:1	0	0	0	21.55	22.5	1.245	0.000	22.3	4
Top side	20M_QPSK 1RB_50	18700/1860	1:1	4.44	2.28	-0.03	22.79	23.5	1.178	2.685	22.3	4
Top side	20M_QPSK 1RB_50	19100/1900	1:1	4.83	2.36	-0.02	22.86	23.5	1.159	2.735	22.3	4
			Extrem	ity Test da	ata With S	IM2(0mm)	1					
Top side	20M_QPSK 1RB_50	19100/1900	1:1	4.62	2.23	-0.12	22.86	23.5	1.159	2.584	22.3	4
		Handheld	Back Te	st data at	the worst	case(Sep	arate 0mm	1)				
Handheld Back	20M_QPSK 1RB_50	19100/1900	1:1	5.35	2.62	-0.05	22.86	23.5	1.159	3.036	22.3	4

Table 19: SAR Result of LTE Band 2 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
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8.3.6 SAR Result Of LTE Band 4

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Extremity Test data With SIM1(0mm)												
Front side	20M_QPSK 1RB_50	20175/1732.5	1:1	0.35	0.17	0.05	23.57	24	1.104	0.188	22.2	4
Front side	20M_QPSK 50RB_0	20175/1732.5	1:1	0.26	0.13	0.04	22.47	23	1.130	0.147	22.2	4
Back side	20M_QPSK 1RB_50	20175/1732.5	1:1	2.24	1.2	0.02	23.57	24	1.104	1.325	22.2	4
Back side	20M_QPSK 50RB_0	20175/1732.5	1:1	1.83	0.94	-0.12	22.47	23	1.130	1.062	22.2	4
Left side	20M_QPSK 1RB_50	20175/1732.5	1:1	0.51	0.26	0.04	23.57	24	1.104	0.287	22.2	4
Left side	20M_QPSK 50RB_0	20175/1732.5	1:1	0.38	0.19	0.09	22.47	23	1.130	0.215	22.2	4
Right side	20M_QPSK 1RB_50	20175/1732.5	1:1	0.22	0.12	-0.04	23.57	24	1.104	0.132	22.2	4
Right side	20M_QPSK 50RB_0	20175/1732.5	1:1	0.14	0.07	-0.18	22.47	23	1.130	0.079	22.2	4
Top side	20M_QPSK 1RB_50	20175/1732.5	1:1	3.95	2.06	-0.1	23.57	24	1.104	2.274	22.2	4
Top side	20M_QPSK 50RB_0	20175/1732.5	1:1	3.22	1.59	0.02	22.47	23	1.130	1.796	22.2	4
Top side	20M_QPSK 100RB_0	20175/1732.5	1:1	3.04	1.42	-0.06	22.31	23	1.172	1.665	22.2	4
Bottom side	20M_QPSK 1RB_50	20175/1732.5	1:1	0	0	0	23.57	24	1.104	0.000	22.2	4
Bottom side	20M_QPSK 50RB_0	20175/1732.5	1:1	0	0	0	22.47	23	1.130	0.000	22.2	4
Top side	20M_QPSK 1RB_50	20050/1720	1:1	4.06	2.11	0.05	23.31	24	1.172	2.473	22.2	4
Top side	20M_QPSK 1RB_50	20300/1745	1:1	3.83	1.99	-0.02	23.04	24	1.247	2.482	22.2	4
Extremity Test data With SIM2(0mm)												
Top side	20M_QPSK 1RB_0	20300/1745	1:1	3.61	1.85	0.09	23.45	24	1.135	2.100	22.2	4
Handheld Back Test data at the worst case(Separate 0mm)												
Handheld Back	20M_QPSK 1RB_50	20300/1745	1:1	4.57	2.22	-0.05	23.04	24	1.247	2.769	22.2	4
Handheld Back Repeat SAR	20M_QPSK 1RB_50	20300/1745	1:1	4.33	2.15	0.19	23.04	24	1.247	2.682	22.2	4

Table 20: SAR Result of LTE Band 4 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
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8.3.7 SAR Result Of LTE Band 5

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Extremity Test data With SIM1(0mm)												
Front side	10M_QPSK 1RB_50	20600/844	1:1	0.233	0.121	0.03	23.7	24	1.072	0.130	22.1	4
Front side	10M_QPSK 25RB_0	20600/844	1:1	0.134	0.079	0.04	22.71	23.5	1.199	0.095	22.1	4
Back side	10M_QPSK 1RB_50	20600/844	1:1	1.05	0.736	-0.01	23.7	24	1.072	0.789	22.1	4
Back side	10M_QPSK 25RB_0	20600/844	1:1	0.85	0.44	-0.17	22.71	23.5	1.199	0.528	22.1	4
Left side	10M_QPSK 1RB_50	20600/844	1:1	0.415	0.22	0.05	23.7	24	1.072	0.236	22.1	4
Left side	10M_QPSK 25RB_0	20600/844	1:1	0.348	0.177	0.04	22.71	23.5	1.199	0.212	22.1	4
Right side	10M_QPSK 1RB_50	20600/844	1:1	0.158	0.082	-0.16	23.7	24	1.072	0.088	22.1	4
Right side	10M_QPSK 25RB_0	20600/844	1:1	0.119	0.064	0.03	22.71	23.5	1.199	0.077	22.1	4
Top side	10M_QPSK 1RB_50	20600/844	1:1	1.32	0.799	0.04	23.7	24	1.072	0.856	22.1	4
Top side	10M_QPSK 25RB_0	20600/844	1:1	1.17	0.655	0.06	22.71	23.5	1.199	0.786	22.1	4
Bottom side	10M_QPSK 1RB_50	20600/844	1:1	0	0	0	23.7	24	1.072	0.000	22.1	4
Bottom side	10M_QPSK 25RB_0	20600/844	1:1	0	0	0	22.71	23.5	1.199	0.000	22.1	4
Top side	10M_QPSK 1RB_50	20450/829	1:1	1.23	0.815	-0.03	23.4	24	1.148	0.936	22.1	4
Top side	10M_QPSK 1RB_50	20525/836.5	1:1	1.52	0.874	-0.05	23.55	24	1.109	0.969	22.1	4
Extremity Test data With SIM2(0mm)												
Top side	10M_QPSK 1RB_50	20525/836.5	1:1	1.33	0.765	0.06	23.55	24	1.109	0.849	22.1	4
	Handheld Back Test data at the worst case(Separate 0mm)											
Handheld Back	10M_QPSK 1RB_50	20525/836.5	1:1	1.42	0.938	-0.05	23.55	24	1.109	1.040	22.1	4

Table 21: SAR Result of LTE Band 5 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
- 3) The customer requires testing all channels



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8.3.8 SAR Result Of LTE Band 7

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Extremity Test data With SIM1(0mm)												
Front side	20M_QPSK 1RB_50	21350/2560	1:1	0.241	0.11	0.02	22.62	23	1.091	0.120	22.1	4
Front side	20M_QPSK 50RB_0	21350/2560	1:1	0.192	0.099	0.05	21.49	22.5	1.262	0.125	22.1	4
Back side	20M_QPSK 1RB_50	21350/2560	1:1	2.02	1.01	0.03	22.62	23	1.091	1.102	22.1	4
Back side	20M_QPSK 50RB_0	21350/2560	1:1	1.35	0.712	-0.18	21.49	22.5	1.262	0.898	22.1	4
Left side	20M_QPSK 1RB_50	21350/2560	1:1	0.783	0.353	-0.04	22.62	23	1.091	0.385	22.1	4
Left side	20M_QPSK 50RB_0	21350/2560	1:1	0.565	0.293	0.04	21.49	22.5	1.262	0.370	22.1	4
Right side	20M_QPSK 1RB_50	21350/2560	1:1	0.176	0.086	-0.01	22.62	23	1.091	0.094	22.1	4
Right side	20M_QPSK 50RB_0	21350/2560	1:1	0.12	0.061	0.02	21.49	22.5	1.262	0.077	22.1	4
Top side	20M_QPSK 1RB_50	21350/2560	1:1	5.71	2.32	-0.13	22.62	23	1.091	2.532	22.1	4
Top side	20M_QPSK 50RB_0	21350/2560	1:1	4.31	1.76	-0.15	21.49	22.5	1.262	2.221	22.1	4
Top side	20M_QPSK 100RB_0	21350/2560	1:1	4.17	1.64	0.11	21.43	22.5	1.279	2.098	22.1	4
Bottom side	20M_QPSK 1RB_50	21350/2560	1:1	0	0	0	22.62	23	1.091	0.000	22.1	4
Bottom side	20M_QPSK 50RB_0	21350/2560	1:1	0	0	0	21.49	22.5	1.262	0.000	22.1	4
Top side	20M_QPSK 1RB_50	20850/2510	1:1	5.13	2.11	-0.12	22.26	23	1.186	2.502	22.1	4
Top side	20M_QPSK 1RB_50	21100/2535.5	1:1	5.77	2.36	-0.15	22.56	23	1.107	2.612	22.1	4
Extremity Test data With SIM2(0mm)												
Top side	20M_QPSK 1RB_50	21100/2535.5	1:1	5.23	2.14	0.04	22.56	23	1.107	2.368	22.1	4
Handheld Back Test data at the worst case(Separate 0mm)												
Handheld Back	20M_QPSK 1RB_50	21100/2535.5	1:1	6.1	2.67	-0.05	22.56	23	1.107	2.955	22.1	4
Handheld Back Repeat SAR	20M_QPSK 1RB_50	21100/2535.5	1:1	5.97	2.59	-0.13	22.56	23	1.107	2.866	22.1	4

Table 22: SAR Result of LTE Band 7 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
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8.3.9 SAR Result Of LTE Band 13

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
Extremity Test data With SIM1(0mm)												
Front side	10M_QPSK 1RB_25	23230/782	1:1	0.103	0.051	0.02	22.65	23	1.084	0.055	22.1	4
Front side	10M_QPSK 25RB_13	23230/782	1:1	0.081	0.044	0.05	21.53	22	1.114	0.049	22.1	4
Back side	10M_QPSK 1RB_25	23230/782	1:1	0.92	0.461	0.01	22.65	23	1.084	0.500	22.1	4
Back side	10M_QPSK 25RB_13	23230/782	1:1	0.815	0.402	0	21.53	22	1.114	0.448	22.1	4
Left side	10M_QPSK 1RB_25	23230/782	1:1	0.176	0.085	0.08	22.65	23	1.084	0.092	22.1	4
Left side	10M_QPSK 25RB_13	23230/782	1:1	0.115	0.061	-0.14	21.53	22	1.114	0.068	22.1	4
Right side	10M_QPSK 1RB_25	23230/782	1:1	0.082	0.04	0.03	22.65	23	1.084	0.043	22.1	4
Right side	10M_QPSK 25RB_13	23230/782	1:1	0.071	0.033	-0.18	21.53	22	1.114	0.037	22.1	4
Top side	10M_QPSK 1RB_25	23230/782	1:1	1.18	0.708	-0.02	22.65	23	1.084	0.767	22.1	4
Top side	10M_QPSK 25RB_13	23230/782	1:1	0.88	0.435	0.08	21.53	22	1.114	0.485	22.1	4
Bottom side	10M_QPSK 1RB_25	23230/782	1:1	0	0	0	22.65	23	1.084	0.000	22.1	4
Bottom side	10M_QPSK 25RB_13	23230/782	1:1	0	0	0	21.53	22	1.114	0.000	22.1	4
Extremity Test data With SIM2(0mm)												
Top side	10M_QPSK 1RB_25	23230/782	1:1	1.02	0.688	0.04	22.65	23	1.084	0.746	22.1	4
	Handheld Back Test data at the worst case(Separate 0mm)											
Handheld Back	10M_QPSK 1RB_25	23230/782	1:1	1.22	0.823	0.03	22.65	23	1.084	0.892	22.1	4

Table 23: SAR Result of LTE Band 13 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
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8.3.10 SAR Result Of LTE Band 17

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extrer	nity Test o	lata With S	SIM1(0mm	1)					
Front side	10M_QPSK 1RB_25	23790/710	1:1	0.087	0.044	0.03	22.25	23	1.189	0.052	22.1	4
Front side	10M_QPSK 25RB_0	23790/710	1:1	0.059	0.03	0.05	21.17	22	1.211	0.036	22.1	4
Back side	10M_QPSK 1RB_25	23790/710	1:1	0.615	0.316	0.08	22.25	23	1.189	0.376	22.1	4
Back side	10M_QPSK 25RB_0	23790/710	1:1	0.489	0.227	0.09	21.17	22	1.211	0.275	22.1	4
Left side	10M_QPSK 1RB_25	23790/710	1:1	0.115	0.074	-0.14	22.25	23	1.189	0.088	22.1	4
Left side	10M_QPSK 25RB_0	23790/710	1:1	0.094	0.049	0.05	21.17	22	1.211	0.059	22.1	4
Right side	10M_QPSK 1RB_25	23790/710	1:1	0.053	0.027	-0.17	22.25	23	1.189	0.032	22.1	4
Right side	10M_QPSK 25RB_0	23790/710	1:1	0.044	0.02	0.06	21.17	22	1.211	0.024	22.1	4
Top side	10M_QPSK 1RB_25	23790/710	1:1	0.888	0.561	-0.17	22.25	23	1.189	0.667	22.1	4
Top side	10M_QPSK 25RB_0	23790/710	1:1	0.712	0.403	0.05	21.17	22	1.211	0.488	22.1	4
Bottom side	10M_QPSK 1RB_25	23790/710	1:1	0	0	0	22.25	23	1.189	0.000	22.1	4
Bottom side	10M_QPSK 25RB_0	23790/710	1:1	0	0	0	21.17	22	1.211	0.000	22.1	4
Top side	10M_QPSK 1RB_25	23780/709	1:1	0.845	0.547	0.12	22.21	23	1.199	0.656	22.1	4
Top side	10M_QPSK 1RB_25	23800/711	1:1	0.833	0.541	-0.01	22.22	23	1.197	0.647	22.1	4
			Extrer	nity Test o	lata With S	SIM2(0mm	n)					
Top side	10M_QPSK 1RB_25	23790/710	1:1	0.736	0.389	0.02	22.25	23	1.189	0.462	22.1	4
		Handhe	ld Back T	est data a	t the wors	t case(Se _l	oarate 0mi	m)		•		·
Handheld Back	10M_QPSK 1RB_25	23790/710	1:1	0.925	0.623	-0.03	22.25	23	1.189	0.740	22.1	4

Table 24: SAR Result of LTE Band 17 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
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8.3.11 SAR Result Of LTE Band 38

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extrem	ity Test da	ata With S	IM1(0mm)						
Front side	20M_QPSK 1RB_50	38150/2610	1:1	0.223	0.109	0.05	23.26	23.5	1.057	0.115	22.1	4
Front side	20M_QPSK 50RB_50	38150/2610	1:1	0.189	0.088	-0.07	22.03	22.5	1.114	0.098	22.1	4
Back side	20M_QPSK 1RB_50	38150/2610	1:1	1.3	0.621	0.1	23.26	23.5	1.057	0.656	22.1	4
Back side	20M_QPSK 50RB_50	38150/2610	1:1	1.03	0.489	0.04	22.03	22.5	1.114	0.545	22.1	4
Left side	20M_QPSK 1RB_50	38150/2610	1:1	0.362	0.178	0.06	23.26	23.5	1.057	0.188	22.1	4
Left side	20M_QPSK 50RB_50	38150/2610	1:1	0.303	0.147	-0.15	22.03	22.5	1.114	0.164	22.1	4
Right side	20M_QPSK 1RB_50	38150/2610	1:1	0.091	0.045	0.03	23.26	23.5	1.057	0.048	22.1	4
Right side	20M_QPSK 50RB_50	38150/2610	1:1	0.072	0.036	-0.18	22.03	22.5	1.114	0.040	22.1	4
Top side	20M_QPSK 1RB_50	38150/2610	1:1	3.94	1.59	-0.16	23.26	23.5	1.057	1.680	22.1	4
Top side	20M_QPSK 50RB_50	38150/2610	1:1	2.76	1.12	-0.1	22.03	22.5	1.114	1.248	22.1	4
Bottom side	20M_QPSK 1RB_50	38150/2610	1:1	0	0	0	23.26	23.5	1.057	0.000	22.1	4
Bottom side	20M_QPSK 50RB_50	38150/2610	1:1	0	0	0	22.03	22.5	1.114	0.000	22.1	4
Top side	20M_QPSK 1RB_50	37850/2580	1:1	4.05	1.64	-0.03	22.84	23.5	1.164	1.909	22.1	4
Top side	20M_QPSK 1RB_50	38000/2595	1:1	3.89	1.55	0.13	22.65	23.5	1.216	1.885	22.1	4
			Extrem	ity Test da	ata With S	IM2(0mm)						
Top side	20M_QPSK 1RB_50	37850/2580	1:1	3.57	1.35	0.12	22.84	23.5	1.164	1.572	22.1	4
		Handheld	Back Te	st data at	the worst	case(Sep	arate 0mm	n)				
Handheld Back	20M_QPSK 1RB_50	37850/2580	1:1	3.22	1.38	-0.04	22.84	23.5	1.164	1.606	22.1	4

Table 25: SAR Result of LTE Band 38 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
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8.3.12 SAR Result Of LTE Band 40

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extrem	ity Test da	ata With S	IM1(0mm)	1					
Front side	10M_QPSK 1RB_0	38750/2310	1:1	0.225	0.121	0.03	22.89	23.5	1.151	0.139	22.1	4
Front side	10M_QPSK 25RB_13	38750/2310	1:1	0.139	0.071	-0.15	21.64	22.5	1.219	0.087	22.1	4
Back side	10M_QPSK 1RB_0	38750/2310	1:1	1.47	0.631	0.03	22.89	23.5	1.151	0.726	22.1	4
Back side	10M_QPSK 25RB_13	38750/2310	1:1	0.91	0.455	0.03	21.64	22.5	1.219	0.555	22.1	4
Left side	10M_QPSK 1RB_0	38750/2310	1:1	0.334	0.171	0.08	22.89	23.5	1.151	0.197	22.1	4
Left side	10M_QPSK 25RB_13	38750/2310	1:1	0.265	0.133	-0.18	21.64	22.5	1.219	0.162	22.1	4
Right side	10M_QPSK 1RB_0	38750/2310	1:1	0.074	0.039	-0.07	22.89	23.5	1.151	0.045	22.1	4
Right side	10M_QPSK 25RB_13	38750/2310	1:1	0.061	0.029	0.03	21.64	22.5	1.219	0.035	22.1	4
Top side	10M_QPSK 1RB_0	38750/2310	1:1	1.56	0.651	-0.18	22.89	23.5	1.151	0.749	22.1	4
Top side	10M_QPSK 25RB_13	38750/2310	1:1	1.12	0.503	0.05	21.64	22.5	1.219	0.613	22.1	4
Bottom side	10M_QPSK 1RB_0	38750/2310	1:1	0	0	0	22.89	23.5	1.151	0.000	22.1	4
Bottom side	10M_QPSK 25RB_13	38750/2310	1:1	0	0	0	21.64	22.5	1.219	0.000	22.1	4
Top side	10M_QPSK 1RB_0	39200/2355	1:1	1.31	0.581	0.05	22.77	23	1.054	0.613	22.1	4
			Extrem	ity Test da	ata With S	IM2(0mm)						
Top side	10M_QPSK 1RB_0	38750/2310	1:1	1.41	0.571	0.02	22.89	23.5	1.151	0.657	22.1	4
		Handheld	Back Te	st data at	the worst	case(Sep	arate 0mm	1)				
Handheld Back	10M_QPSK 1RB_0	38750/2310	1:1	2.64	1.19	-0.03	22.89	23.5	1.151	1.369	22.1	4

Table 26: SAR Result of LTE Band 40 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
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8.3.13SAR Result Of LTE Band 41

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
			Extremit	y Test dat	a With SI	V1(0mm)						
Front side	20M_QPSK 1RB_50	41490/2680	1:1	0.034	0.017	0.03	23.13	23.5	1.089	0.019	22.1	4
Front side	20M_QPSK 50RB_25	41490/2680	1:1	0.025	0.012	0.04	22.07	22.5	1.104	0.013	22.1	4
Back side	20M_QPSK 1RB_50	41490/2680	1:1	3.12	1.34	0.06	23.13	23.5	1.089	1.459	22.1	4
Back side	20M_QPSK 50RB_25	41490/2680	1:1	2.62	1.04	-0.04	22.07	22.5	1.104	1.148	22.1	4
Left side	20M_QPSK 1RB_50	41490/2680	1:1	0.049	0.025	0.09	23.13	23.5	1.089	0.027	22.1	4
Left side	20M_QPSK 50RB_25	41490/2680	1:1	0.037	0.019	-0.07	22.07	22.5	1.104	0.021	22.1	4
Right side	20M_QPSK 1RB_50	41490/2680	1:1	0.026	0.013	0.01	23.13	23.5	1.089	0.014	22.1	4
Right side	20M_QPSK 50RB_25	41490/2680	1:1	0.02	0.01	-0.01	22.07	22.5	1.104	0.011	22.1	4
Top side	20M_QPSK 1RB_50	41490/2680	1:1	3.72	1.52	-0.08	23.13	23.5	1.089	1.655	22.1	4
Top side	20M_QPSK 50RB_25	41490/2680	1:1	3.22	1.27	0.04	22.07	22.5	1.104	1.402	22.1	4
Bottom side	20M_QPSK 1RB_50	41490/2680	1:1	0	0	0	23.13	23.5	1.089	0.000	22.1	4
Bottom side	20M_QPSK 50RB_25	41490/2680	1:1	0	0	0	22.07	22.5	1.104	0.000	22.1	4
Top side	20M_QPSK 1RB_50	39750/2506	1:1	3.26	1.31	0.12	23.1	23.5	1.096	1.436	22.1	4
Top side	20M_QPSK 1RB_50	40185/2549.5	1:1	2.79	1.12	0.03	23.06	23.5	1.107	1.239	22.1	4
Top side	20M_QPSK 1RB_50	40620/2593	1:1	3.55	1.41	-0.15	22.95	23.5	1.135	1.600	22.1	4
Top side	20M_QPSK 1RB_50	41055/2636.5	1:1	2.83	1.17	0.02	22.96	23.5	1.132	1.325	22.1	4
			Extremit	y Test dat	a With SI	M2(0mm)						
Top side	20M_QPSK 1RB_0	41490/2680	1:1	3.57	1.44	0.09	23.13	23.5	1.089	1.568	22.1	4
		Handheld	Back Tes	st data at t	he worst c	ase(Sepa	rate 0mm)					
Handheld Back	20M_QPSK 1RB_0	41490/2680	1:1	3.47	1.49	-0.01	23.13	23.5	1.089	1.623	22.1	4

Table 27: SAR Result of LTE Band 41 Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).
- 3) The customer requires testing all channels



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8.3.14SAR Result Of 2.4GHz Wi-Fi

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
					Extrem	ity Test da	ata(0mm)						
Front side	802.11b	11/2462	99.52%	1.005	0.016	0.008	0.03	15.32	15.50	1.042	0.008	22.0	4
Back side	802.11b	11/2462	99.52%	1.005	0.312	0.150	-0.17	15.32	15.50	1.042	0.157	22.0	4
Left side	802.11b	11/2462	99.52%	1.005	0.041	0.020	0.09	15.32	15.50	1.042	0.021	22.0	4
Right side	802.11b	11/2462	99.52%	1.005	1.170	0.460	-0.02	15.32	15.50	1.042	0.482	22.0	4
Top side	802.11b	11/2462	99.52%	1.005	0.029	0.014	0.16	15.32	15.50	1.042	0.015	22.0	4
Bottom side	802.11b	11/2462	99.52%	1.005	0	0	0.00	15.32	15.50	1.042	0.000	22.0	4
Right side	802.11b	1/2412	99.52%	1.005	0.997	0.432	0.13	15.10	15.50	1.096	0.476	22.0	4
Right side	802.11b	6/2437	99.52%	1.005	1.020	0.448	-0.16	15.31	15.50	1.045	0.470	22.0	4

Table 28: SAR Result Of 2.4GHz Wi-Fi

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 2.0 W/kg then testing at the other channels is not required for such test configuration(s). Per Kdb248227 D01, When the reported SAR is > 2.0W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.
- 3) Each channel was tested at the lowest data rate.
- 4) Per KDB248227 D01, for Extremity SAR test of Wi-Fi2.4G, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 3.0 W/kg, so SAR for 802.11g/n is not required.
- 5) The customer requires testing all channels



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8.3.15SAR Result Of 5GHz Wi-Fi

Test position	Test mode	Test Ch./Freq.	Duty Cycle %	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Condu cted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	SAR limit (W/kg)
				Wi-Fi	(5150-53	50) SAR 1	est Reco	rd					
					Extremity	Test data	(0mm)						
Front side	802.11a	52/5260	96.8	1.033	0.036	0.01	0.02	13.63	14.5	1.222	0.013	22.2	4.0
Back side	802.11a	52/5260	96.8	1.033	0.591	0.106	0.09	13.63	14.5	1.222	0.134	22.2	4.0
Left side	802.11a	52/5260	96.8	1.033	0.049	0.017	-0.12	13.63	14.5	1.222	0.021	22.2	4.0
Right side	802.11a	52/5260	96.8	1.033	1.82	0.481	-0.03	13.63	14.5	1.222	0.607	22.2	4.0
Top side	802.11a	52/5260	96.8	1.033	0.04	0.011	0.04	13.63	14.5	1.222	0.014	22.2	4.0
Bottom side	802.11a	52/5260	96.8	1.033	0.000	0.000	0.00	13.63	14.5	1.222	0.000	22.2	4.0
Right side	802.11a	60/5300	96.8	1.033	1.72	0.462	0.17	13.5	14.5	1.259	0.601	22.2	4.0
Right side	802.11a	64/5320	96.8	1.033	1.65	0.459	-0.11	13.5	14.5	1.259	0.597	22.2	4.0
				Wi-Fi	(5470-57	25) SAR T	est Reco	rd					
					Extremity	Test data	(0mm)						
Front side	802.11a	116/5580	96.8	1.033	0.03	0.009	0.03	13.75	14.5	1.189	0.011	22.2	4.0
Back side	802.11a	116/5580	96.8	1.033	0.617	0.119	0.07	13.75	14.5	1.189	0.146	22.2	4.0
Left side	802.11a	116/5580	96.8	1.033	0.039	0.014	-0.15	13.75	14.5	1.189	0.017	22.2	4.0
Right side	802.11a	116/5580	96.8	1.033	2.29	0.552	0.02	13.75	14.5	1.189	0.678	22.2	4.0
Top side	802.11a	116/5580	96.8	1.033	0.033	0.012	0.06	13.75	14.5	1.189	0.015	22.2	4.0
Bottom side	802.11a	116/5580	96.8	1.033	0.000	0.000	0.00	13.75	14.5	1.189	0.000	22.2	4.0
Right side	802.11a	100/5500	96.8	1.033	2.12	0.531	0.13	13.62	14.5	1.225	0.672	22.2	4.0
Right side	802.11a	140/5700	96.8	1.033	1.67	0.457	0.09	13.23	14.5	1.340	0.632	22.2	4.0
				Wi-Fi	(5725-58	50) SAR 1	est Reco	rd					
					Extremity	Test data	(0mm)						
Front side	802.11n HT20	165/5825	96.8	1.033	0.036	0.011	0.02	14.07	14.5	1.104	0.013	22.2	4.0
Back side	802.11n HT20	165/5825	96.8	1.033	0.621	0.183	0.05	14.07	14.5	1.104	0.209	22.2	4.0
Left side	802.11n HT20	165/5825	96.8	1.033	0.029	0.006	0.01	14.07	14.5	1.104	0.007	22.2	4.0
Right side	802.11n HT20	165/5825	96.8	1.033	2.85	0.694	0.03	14.07	14.5	1.104	0.792	22.2	4.0
Top side	802.11n HT20	165/5825	96.8	1.033	0.041	0.012	0.05	14.07	14.5	1.104	0.014	22.2	4.0
Bottom side	802.11n HT20	165/5825	96.8	1.033	0.000	0.000	0.00	14.07	14.5	1.104	0.000	22.2	4.0
Right side	802.11a	149/5745	96.8	1.033	2.71	0.661	-0.07	13.94	14.5	1.138	0.777	22.2	4.0
Right side	802.11a	157/5785	96.8	1.033	2.53	0.619	0.04	13.85	14.5	1.161	0.743	22.2	4.0

Table 29: SAR Result Of 5GHz Wi-Fi



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Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 2.0 W/kg then testing at the other channels is not required for such test configuration(s). Per Kdb248227 D01, When the reported SAR is > 2.0W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.
- 3) Each channel was tested at the lowest data rate.
- 4) The customer requires testing all channels



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8.3.16Repeat SAR Measurement

Band	Mode	Test Position	Test Ch./Freq.	Original Measured SAR1g (mW/g)	1st Repeated SAR1g (mW/g)	Ratio
WCDMA Band II	RMC	Handheld Back	9538/1907.6	2.84	2.79	1.018
LTE Band 4	20M_QPSK 1RB_50	Handheld Back	20300/1745	2.22	2.15	1.033
LTE Band 7	20M_QPSK 1RB_50	Handheld Back	21100/2535.5	2.67	2.59	1.031

Note:

- 1) Per KDB 865664 D01v01, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8W/Kq.
- 2) Per KDB 865664 D01v01, if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤1.2 and the measured SAR <1.45W/Kg, only one repeated measurement is required.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- 6) The ratio is the difference in percentage between original and repeated measured SAR.



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

NO.	Simultaneous Transmission Configuration	Extremity
1	GPRS / EDGE(Data) + WiFi	Yes
2	GPRS / EDGE(Data) + BT	Yes
3	WCDMA(Data) + WiFi	Yes
4	WCDMA(Data) + BT	Yes
5	LTE(Data) + WiFi	Yes
6	LTE(Data) + BT	Yes
7	BT+WIFI	No

Note:

1) Wi-Fi and Bluetooth share the same Tx antenna and can't transmit simultaneously.



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8.4.2 Estimated SAR

When the standalone SAR test exclusion is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to determine simultaneous transmission SAR test exclusion:

• (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)/x}$] W/kg for test separation distances \leq 50 mm;

Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

• 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm.

Estimated SAR Result

Freq. Band	Frequency (MHz)	Test Position	Test Separation (mm)	max. power(dBm)	Estimated 10g SAR (W/kg)
Bluetooth	2480	Extremity	0	7.5	0.094



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1) Simultaneous Transmission SAR Summation Scenario for Extremity

<u>1) Simul</u>	taneous 11	<u>ransmission</u>	SAR Summa	ation Scenar	io for Extrem	nity			
WWAN	Exposure	①MAX.	②MAX. WLAN	③MAX. WLAN	④MAX.	Summed	Summed	Summed	Case
Band	position	WWAN	2.4GHz	5GHz	BT	SAR	SAR	SAR	NO.
		SAR(W/kg)	SAR(W/kg)	SAR(W/kg)	SAR(W/kg)	0+2	1)+3)	1)+4)	
	Front	0.070	0.008	0.013	0.094	0.078	0.083	0.164	No
	Back	0.910	0.157	0.209	0.094	1.067	1.119	1.004	No
GSM850	Left	0.091	0.021	0.021	0.094	0.112	0.112	0.185	No
COMICCO	Right	0.044	0.482	0.792	0.094	0.526	0.836	0.138	No
	Тор	0.732	0.015	0.015	0.094	0.747	0.747	0.826	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No
	Front	0.180	0.008	0.013	0.094	0.188	0.193	0.274	No
	Back	2.982	0.157	0.209	0.094	3.139	3.191	3.076	No
GSM1900	Left	0.194	0.021	0.021	0.094	0.215	0.215	0.288	No
	Right	0.080	0.482	0.792	0.094	0.562	0.872	0.174	No
	Top	2.825	0.015	0.015	0.094	2.840	2.840	2.919	No No
	Bottom	0.000	0.000	0.000 0.013	0.094 0.094	0.000	0.000 0.223	0.094 0.304	No No
	Front	0.210 3.008	0.008	0.013	0.094	0.218 3.165	3.217	3.102	No
WCDMA	Back Left	0.292	0.021	0.209	0.094	0.313	0.313	0.386	No
Band II	Right	0.292	0.021	0.021	0.094	0.609	0.919	0.366	No
Danu II	Top	2.648	0.482	0.792	0.094	2.663	2.663	2.742	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No
	Front	0.000	0.008	0.000	0.094	0.000	0.000	0.034	No
	Back	1.018	0.157	0.209	0.094	1.175	1.227	1.112	No
WCDMA	Left	0.074	0.021	0.021	0.094	0.095	0.095	0.168	No
Band V	Right	0.049	0.482	0.792	0.094	0.531	0.841	0.143	No
24.14	Top	0.977	0.015	0.015	0.094	0.992	0.992	1.071	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No
	Front	0.176	0.008	0.013	0.094	0.184	0.189	0.270	No
	Back	3.036	0.157	0.209	0.094	3.193	3.245	3.130	No
	Left	0.247	0.021	0.021	0.094	0.268	0.268	0.341	No
LTE Band 2	Right	0.094	0.482	0.792	0.094	0.576	0.886	0.188	No
	Тор	2.735	0.015	0.015	0.094	2.750	2.750	2.829	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No
	Front	0.188	0.008	0.013	0.094	0.196	0.201	0.282	No
	Back	2.769	0.157	0.209	0.094	2.926	2.978	2.863	No
LTE Band 4	Left	0.287	0.021	0.021	0.094	0.308	0.308	0.381	No
LIE Ballu 4	Right	0.132	0.482	0.792	0.094	0.614	0.924	0.226	No
	Top	2.482	0.015	0.015	0.094	2.497	2.497	2.576	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No
	Front	0.131	0.008	0.013	0.094	0.139	0.144	0.225	No
	Back	1.040	0.157	0.209	0.094	1.197	1.249	1.134	No
LTE Band 5	Left	0.239	0.021	0.021	0.094	0.260	0.260	0.333	No
	Right	0.089	0.482	0.792	0.094	0.571	0.881	0.183	No
	Тор	0.990	0.015	0.015	0.094	1.005	1.005	1.084	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No
	Front	0.125	0.008	0.013	0.094	0.133	0.138	0.219	No
	Back	2.955	0.157	0.209	0.094	3.112	3.164	3.049	No
LTE Band 7	Left	0.385	0.021	0.021	0.094	0.406	0.406	0.479	No
	Right	0.094 2.612	0.482	0.792	0.094	0.576	0.886	0.188	No
	Top		0.015	0.015	0.094	2.627	2.627	2.706	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No
	Front	0.055	0.008	0.013	0.094	0.063	0.068	0.149	No
I TE Dand	Back	0.892	0.157	0.209	0.094	1.049	1.101	0.986	No No
LTE Band 13	Left	0.092	0.021	0.021	0.094	0.113	0.113	0.186	No No
13	Right	0.043	0.482	0.792	0.094	0.525	0.835	0.137	No No
	Top	0.767	0.015	0.015	0.094	0.782	0.782	0.861	No
	Bottom Front	0.000 0.052	0.000	0.000 0.013	0.094 0.094	0.000 0.060	0.000 0.065	0.094 0.146	No No
LTE Band	Back	0.052	0.008	0.013	0.094	0.060	0.065	0.146	No
17	Left	0.088	0.021	0.209	0.094	0.109	0.949	0.034	No
	LUIL	0.000	0.021	0.021	0.094	0.108	0.108	0.102	LINU



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	Right	0.032	0.482	0.792	0.094	0.514	0.824	0.126	No
	Тор	0.656	0.015	0.015	0.094	0.671	0.671	0.750	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No
	Front	0.115	0.008	0.013	0.094	0.123	0.128	0.209	No
	Back	1.606	0.157	0.209	0.094	1.763	1.815	1.700	No
LTE Band	Left	0.188	0.021	0.021	0.094	0.209	0.209	0.282	No
38	Right	0.048	0.482	0.792	0.094	0.530	0.840	0.142	No
	Тор	1.909	0.015	0.015	0.094	1.924	1.924	2.003	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No
	Front	0.139	0.008	0.013	0.094	0.147	0.152	0.233	No
	Back	1.369	0.157	0.209	0.094	1.526	1.578	1.463	No
LTE Band	Left	0.197	0.021	0.021	0.094	0.218	0.218	0.291	No
40	Right	0.045	0.482	0.792	0.094	0.527	0.837	0.139	No
	Тор	0.749	0.015	0.015	0.094	0.764	0.764	0.843	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No
	Front	0.019	0.008	0.013	0.094	0.027	0.032	0.113	No
	Back	1.623	0.157	0.209	0.094	1.780	1.832	1.717	No
LTE Band	Left	0.027	0.021	0.021	0.094	0.048	0.048	0.121	No
41	Right	0.014	0.482	0.792	0.094	0.496	0.806	0.108	No
	Тор	1.655	0.015	0.015	0.094	1.670	1.670	1.749	No
	Bottom	0.000	0.000	0.000	0.094	0.000	0.000	0.094	No



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Equipment list

Test Platform	SPEAG DASY5 Professional
Location	Compliance Certification Services (Kunshan) Inc.
Software Reference	DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Hardware Reference

Haldware Reference						
Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
\boxtimes	PC	HP	Core(rm)3.16G	CZCO48171H	N/A	N/A
\boxtimes	Signal Generator	Agilent	N5182A	MY50142015	2020/09/25	2021/09/24
\boxtimes	S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	2021/02/01	2022/01/31
	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A
\boxtimes	Power meter	Anritsu	ML2495A	1445010	2021/04/15	2022/04/14
\boxtimes	Power sensor	Anritsu	MA2411B	1339220	2021/04/15	2022/04/14
\boxtimes	Wireless Communication Test Set	R&S	CMU200	109525	2020/10/19	2021/10/18
\boxtimes	universal Radio communication tester	R&S	CMW500	159275	2020/10/19	2021/10/18
\boxtimes	DAE	SPEAG	DAE4	913	2021/04/21	2022/04/20
\boxtimes	E-field PROBE	SPEAG	EX3DV4	3753	2020/06/25	2021/06/24
\boxtimes	Dipole	SPEAG	D750V3	1188	2019/03/07	2022/03/06
\boxtimes	Dipole	SPEAG	D835V2	4d114	2019/06/11	2022/06/10
\boxtimes	Dipole	SPEAG	D1800V2	2d170	2019/06/11	2022/06/10
	Dipole	SPEAG	D1900V2	5d136	2019/06/11	2022/06/10
	Dipole	SPEAG	D2300V2	1096	2019/03/08	2022/03/07
\boxtimes	Dipole	SPEAG	D2450V2	817	2019/06/10	2022/06/09
	Dipole	SPEAG	D2600V2	1158	2019/03/08	2022/03/07
\boxtimes	Dipole	SPEAG	D5GHzV2	1095	2019/06/14	2022/06/13
\boxtimes	Electro Thermometer	DTM	DTM3000	3030	2020/10/24	2021/10/23
\boxtimes	Amplifier	Mini-circuits	ZVE-8G	110405	N/A	N/A
\boxtimes	Amplifier	Mini-circuits	ZHL-42	QA1331003	N/A	N/A
\boxtimes	3db ATTENUATOR	MINI	MCL BW-S3W5	0533	N/A	N/A
\boxtimes	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A
\boxtimes	Dual Directional Coupler	Woken	20W couple	DOM2BHW1A1	N/A	N/A
	SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A
\boxtimes	Twin SAM Phantom	SPEAG	QD000P40CD	1609	N/A	N/A
\boxtimes	ROBOT	SPEAG	TX60	F10/5E6AA1/A101	N/A	N/A
\boxtimes	ROBOT KRC	SPEAG	CS8C	F10/5E6AA1/C101	N/A	N/A
	LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A

Note: All the equipments are within the valid period when the tests are performed.

All measurement facilities used to collect the measurement data are located at

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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D



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Appendix A: Detailed System Check Results

The plots are showing as followings.



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Date: 2021/06/03

Test Laboratory: Compliance Certification Services Inc.

System Performance Check 750MHz With Head Tissue simulate Liquid

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1188

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 41.649$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.83, 9.83, 9.83); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom: Type: QD 000 P40 CD; Serial: 1609

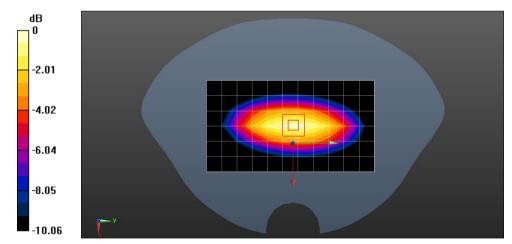
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Body/d=15mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.68 W/kg

Body/d=15mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 59.16 V/m; Power Drift = -0.16 dB Peak SAR (extrapolated) = 3.33 W/kg SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.37 W/kg Maximum value of SAR (measured) = 2.86 W/kg



0 dB = 2.86 W/kg = 4.56 dBW/kg



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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

System Performance Check 835MHz With Head Tissue simulate Liquid

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d114

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; σ = 0.89 S/m; ϵ_r = 40.972; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.44, 9.44, 9.44); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

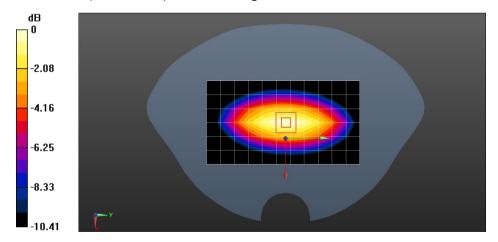
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Body/d=15mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.29 W/kg

Body/d=15mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Zoom Scan (7x7x7)

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 52.22 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 2.72 W/kg SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.55 W/kg Maximum value of SAR (measured) = 2.31 W/kg



0 dB = 2.31 W/kg = 3.64 dBW/kg



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Date: 2021/06/05

Test Laboratory: Compliance Certification Services Inc.

System Performance Check 1800MHz With Head Tissue simulate Liquid

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: 2d170

Communication System: UID 10000, CW; Frequency: 1800 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1800 MHz; σ = 1.385 S/m; ϵ_r = 40.197; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(8.25, 8.25, 8.25); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

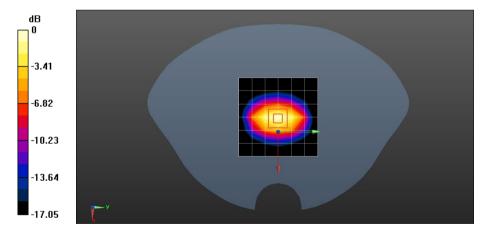
Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Body/d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe) (23.6 dBm)/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 13.4 W/kg

Body/d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe) (23.6 dBm)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 99.69 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 17.9 W/kg SAR(1 g) = 9.49 W/kg; SAR(10 g) = 5.03 W/kg Maximum value of SAR (measured) = 13.8 W/kg



0 dB = 13.8 W/kg = 11.40 dBW/kg



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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

System Performance Check 1900MHz With Head Tissue simulate Liquid

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d136

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; σ = 1.389 S/m; ϵ_r = 40.284; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

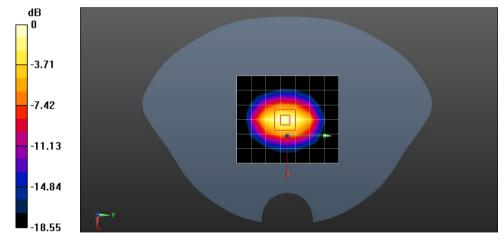
Body/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (7x8x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.0 W/kg

Body/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dy=5mm

Reference Value = 103.5 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 18.9 W/kg SAR(1 g) = 9.79 W/kg; SAR(10 g) = 5.13 W/kg Maximum value of SAR (measured) = 14.4 W/kg



0 dB = 14.4 W/kg = 11.58 dBW/kg



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Date: 2021/06/08

Test Laboratory: Compliance Certification Services Inc.

System Performance Check 2300MHz With Head Tissue simulate Liquid

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: 1096

Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2300 MHz; σ = 1.649 S/m; ϵ_r = 39.655; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.48, 7.48, 7.48); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

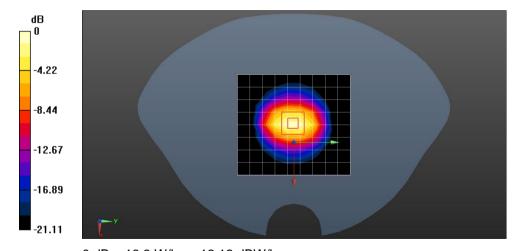
Body/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (9x10x1): Measurement grid:

dx=12mm, dy=12mm

Maximum value of SAR (measured) = 15.2 W/kg

Body/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.2 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 21.8 W/kg SAR(1 g) = 12 W/kg; SAR(10 g) = 5.71 W/kg Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 dBW/kg



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Date: 2021/06/09

Test Laboratory: Compliance Certification Services Inc.

System Performance Check 2450MHz With Head Tissue simulate Liquid

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 817

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; σ = 1.823 S/m; ϵ_r = 39.147; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.12, 7.12, 7.12); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

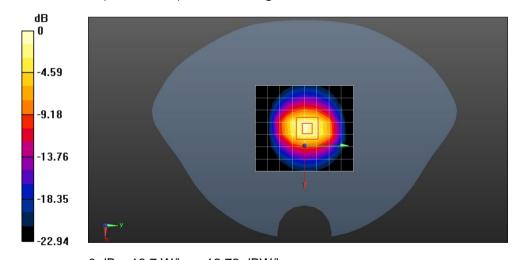
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Body/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 16.6 W/kg

Body/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7)

(7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 130.1 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 28.7 W/kg SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.12 W/kg Maximum value of SAR (measured) = 18.7 W/kg



0 dB = 18.7 W/kg = 12.72 dBW/kg

Date: 2021/06/10



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Test Laboratory: Compliance Certification Services Inc.

System Performance Check 2600MHz With Head Tissue simulate Liquid

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1158

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; $\sigma = 1.982$ S/m; $\epsilon_r = 38.658$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(6.98, 6.98, 6.98); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

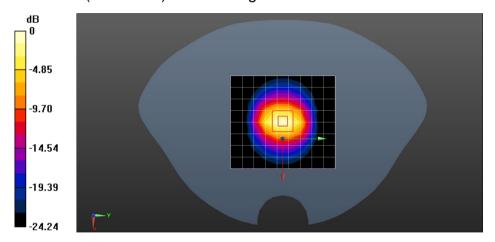
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Body/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (9x10x1): Measurement grid:

dx=12mm, dv=12mm

Maximum value of SAR (measured) = 19.2 W/kg

Body/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 105.4 V/m; Power Drift = 0.11 dB Peak SAR (extrapolated) = 29.6 W/kg SAR(1 g) = 14 W/kg; SAR(10 g) = 6.23 W/kg Maximum value of SAR (measured) = 21.4 W/kg



0 dB = 21.4 W/kg = 13.30 dBW/kg

Date: 2021/06/11

Test Laboratory: Compliance Certification Services Inc.



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System Performance Check 5250MHz With Head Tissue simulate Liquid

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5250 MHz; $\sigma = 4.614$ S/m; $\epsilon_r = 35.466$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.65, 4.65, 4.65); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

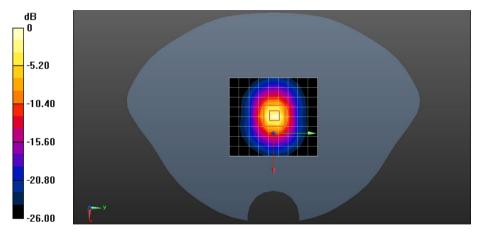
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Body/d=10mm, Pin=100mW, f=5250 MHz/Area Scan (9x10x1): Measurement grid:

dx=10mm. dv=10mm Maximum value of SAR (measured) = 15.7 W/kg

Body/d=10mm, Pin=100mW, f=5250 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 72.25 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 32.0 W/kg SAR(1 g) = 7.7 W/kg; SAR(10 g) = 2.19 W/kg Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

Date: 2021/06/11

Test Laboratory: Compliance Certification Services Inc.

System Performance Check 5600MHz With Head Tissue simulate Liquid



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DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5600 MHz; σ = 5.005 S/m; ϵ_r = 34.611; ρ = 1000 kg/m³ Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

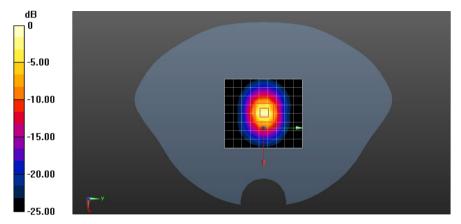
DASY5 Configuration:

- Probe: EX3DV4 SN3753; ConvF(4.56, 4.56, 4.56); Calibrated: 2020/06/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2021/04/21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Body/d=10mm, Pin=100mW, f=5600 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 17.6 W/kg

Body/d=10mm, Pin=100mW, f=5600 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 72.57 V/m; Power Drift = 0.11 dB Peak SAR (extrapolated) = 35.3 W/kg SAR(1 g) = 7.9 W/kg; SAR(10 g) = 2.3 W/kg Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg

Date: 2021/06/11

Test Laboratory: Compliance Certification Services Inc.

System Performance Check 5750MHz With Head Tissue simulate Liquid

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: 1095



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Report No.: KSEM210700112911

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Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5750 MHz; σ = 5.315 S/m; ϵ_r = 34.649; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

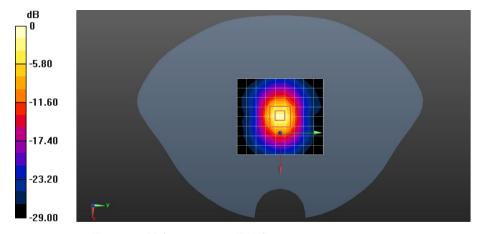
DASY5 Configuration:

- Probe: EX3DV4 SN3753; ConvF(4.61, 4.61, 4.61); Calibrated: 2020/06/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn913; Calibrated: 2021/04/21
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Body/d=10mm, Pin=100mW, f=5750 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 16.1 W/kg

Body/d=10mm, Pin=100mW, f=5750 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 70.35 V/m; Power Drift = 0.14 dB Peak SAR (extrapolated) = 35.2 W/kg SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.27 W/kg Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg

Appendix B: Detailed Test Results

The plots of worse case are showing as followings.



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Report No.: KSEM210700112911

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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

GSM850 GPRS3TX Top side 0mm Ch251

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, GPRS/EGPRS 3TX Slots (0); Frequency: 848.8 MHz; Duty

Cycle: 1:2.77013

Medium parameters used: f = 849 MHz; $\sigma = 0.899 \text{ S/m}$; $\varepsilon_r = 40.885$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.44, 9.44, 9.44); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

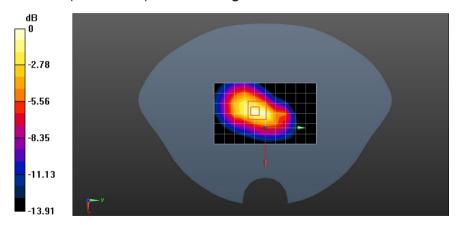
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 2.44 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 53.95 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 3.14 W/kg SAR(1 g) = 1.35 W/kg; SAR(10 g) = 0.678 W/kg Maximum value of SAR (measured) = 2.48 W/kg



0 dB = 2.48 W/kg = 3.94 dBW/kg



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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

GSM850 GPRS3TX Handheld Back 0mm Ch251

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, GPRS/EGPRS 3TX Slots (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.77013

Medium parameters used: f = 849 MHz; $\sigma = 0.899 \text{ S/m}$; $\varepsilon_r = 40.885$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.44, 9.44, 9.44); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

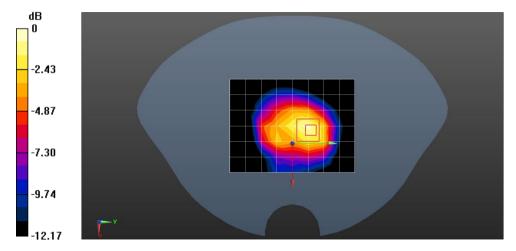
Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.86 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 41.30 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.28 W/kg SAR(1 g) = 1.77 W/kg; SAR(10 g) = 0.843 W/kg Maximum value of SAR (measured) = 2.02 W/kg



0 dB = 2.02 W/kg = 3.05 dBW/kg



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Report No.: KSEM210700112911

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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

GSM1900 GPRS2TX Top side 0mm Ch661

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, GPRS/EGPRS 2TX Slots (0); Frequency: 1880 MHz; Duty

Cycle: 1:2.0797

Medium parameters used: f = 1880 MHz; $\sigma = 1.368 \text{ S/m}$; $\epsilon_r = 40.278$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

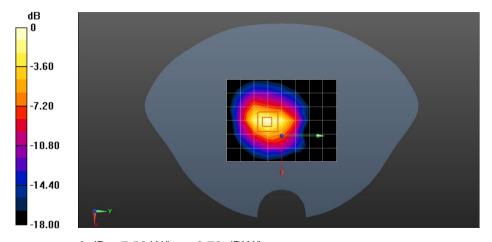
Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 7.12 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 59.48 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 9.00 W/kg SAR(1 g) = 4.79 W/kg; SAR(10 g) = 2.35 W/kg Maximum value of SAR (measured) = 7.56 W/kg



0 dB = 7.56 W/kg = 8.79 dBW/kg



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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

GSM1900 GPRS2TX Handheld Back 0mm Ch661

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, GPRS/EGPRS 2TX Slots (0); Frequency: 1880 MHz; Duty

Cycle: 1:2.07491

Medium parameters used: f = 1880 MHz; $\sigma = 1.368 \text{ S/m}$; $\epsilon_r = 40.278$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

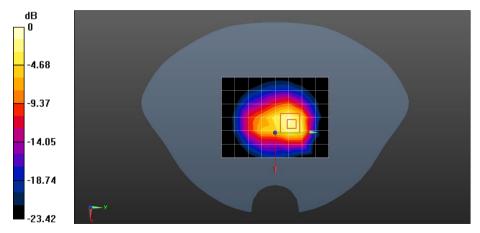
Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 6.33 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 51.35 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 9.62 W/kg SAR(1 g) = 5.08 W/kg; SAR(10 g) = 2.48 W/kg Maximum value of SAR (measured) = 7.84 W/kg



0 dB = 7.84 W/kg = 8.94 dBW/kg



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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

WCDMA Band II RMC Top side 0mm Ch9538

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1908 MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

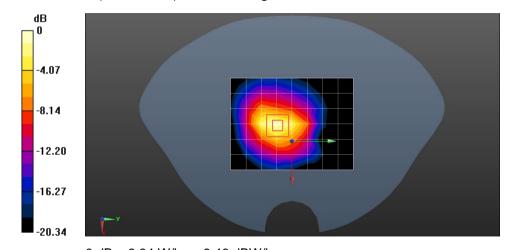
Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 8.06 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 66.17 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 5.16 W/kg; SAR(10 g) = 2.5 W/kg Maximum value of SAR (measured) = 8.84 W/kg



0 dB = 8.84 W/kg = 9.46 dBW/kg



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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

WCDMA Band II RMC Handheld Back 0mm Ch9538

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1908 MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 40.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

• Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 8.82 W/kg

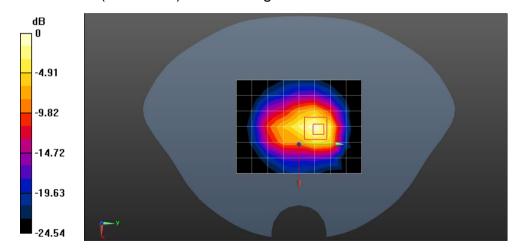
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 59.50 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 5.83 W/kg; SAR(10 g) = 2.84 W/kg Maximum value of SAR (measured) = 9.45 W/kg



0 dB = 9.45 W/kg = 9.75 dBW/kg



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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

WCDMA Band V RMC Top side 0mm Ch4182

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 836.4 MHz;Duty Cycle: 1:1 Medium parameters used: f = 836.4 MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 40.962$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.44, 9.44, 9.44); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

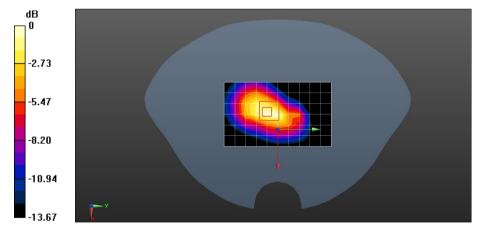
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 2.28 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 52.43 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 2.90 W/kg

SAR(1 g) = 1.72 W/kg; SAR(10 g) = 0.885 W/kg Maximum value of SAR (measured) = 2.31 W/kg



0 dB = 2.31 W/kg = 3.64 dBW/kg



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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

WCDMA Band V RMC Handheld Back 0mm Ch4182

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 836.4 MHz;Duty Cycle: 1:1 Medium parameters used: f = 836.4 MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 40.962$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

• Probe: EX3DV4 - SN3753; ConvF(9.44, 9.44, 9.44); Calibrated: 2020/06/25;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 2.73 W/kg

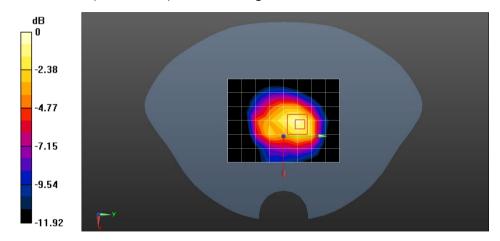
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 40.19 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.10 W/kg

SAR(1 g) = 1.93 W/kg; SAR(10 g) = 0.922 W/kg Maximum value of SAR (measured) = 2.87 W/kg



0 dB = 2.87 W/kg = 4.58 dBW/kg



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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

LTE band 2 20M QPSK 1RB0 Top side 0mm Ch19100

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.389 \text{ S/m}$; $\epsilon_r = 40.284$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

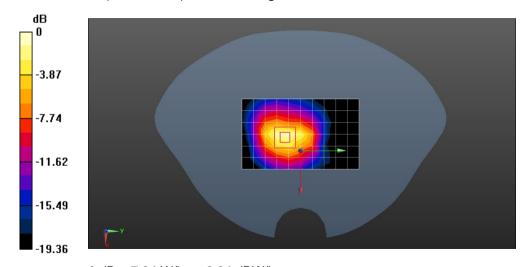
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 6.56 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 58.67 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 9.71 W/kg

SAR(1 g) = 4.83 W/kg; SAR(10 g) = 2.36 W/kg Maximum value of SAR (measured) = 7.84 W/kg



0 dB = 7.84 W/kg = 8.94 dBW/kg



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Date: 2021/06/07

Test Laboratory: Compliance Certification Services Inc.

LTE Band 2 20M QPSK 1RB0 Handheld Back 0mm Ch19100

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.389$ S/m; $\epsilon_r = 40.284$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.92, 7.92, 7.92); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

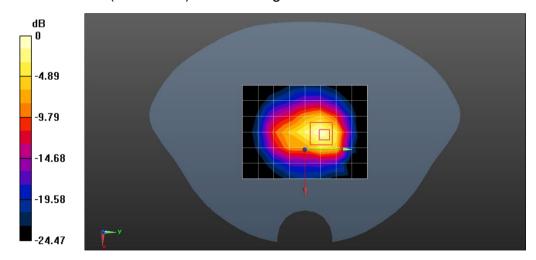
Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 8.03 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 57.62 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 5.35 W/kg; SAR(10 g) = 2.62 W/kg Maximum value of SAR (measured) = 8.57 W/kg



0 dB = 8.57 W/kg = 9.33 dBW/kg



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Date: 2021/06/05

Test Laboratory: Compliance Certification Services Inc.

LTE band 4 20M QPSK 1RB0 Top side 0mm Ch20300

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 1745 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1745 MHz; $\sigma = 1.342$ S/m; $\epsilon_r = 40.78$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

• Probe: EX3DV4 - SN3753; ConvF(8.25, 8.25, 8.25); Calibrated: 2020/06/25;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 4.76 W/kg

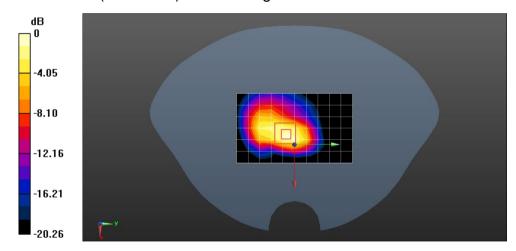
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 49.50 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 6.99 W/kg

SAR(1 g) = 3.83 W/kg; SAR(10 g) = 1.99 W/kg Maximum value of SAR (measured) = 5.80 W/kg



0 dB = 5.80 W/kg = 7.63 dBW/kg



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Date: 2021/06/05

Test Laboratory: Compliance Certification Services Inc.

LTE Band 4 20M QPSK 1RB0 Handheld Back 0mm Ch20300

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1745 MHz; $\sigma = 1.342$ S/m; $\epsilon_r = 40.78$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(8.25, 8.25, 8.25); Calibrated: 2020/06/25;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 6.54 W/kg

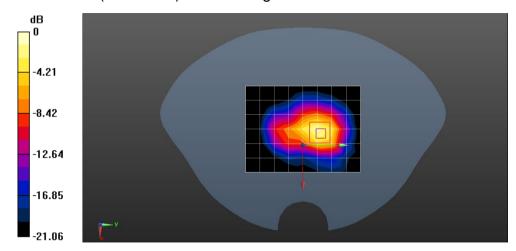
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 50.30 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 9.14 W/kg

SAR(1 g) = 4.57 W/kg; SAR(10 g) = 2.22 W/kg Maximum value of SAR (measured) = 7.59 W/kg



0 dB = 7.59 W/kg = 8.80 dBW/kg



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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

LTE band 5 10M QPSK 1RB25 Top side 0mm Ch20525

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used: f = 836.5 MHz; $\sigma = 0.891 \text{ S/m}$; $\epsilon_r = 40.962$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

• Probe: EX3DV4 - SN3753; ConvF(9.44, 9.44, 9.44); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 2.28 W/kg

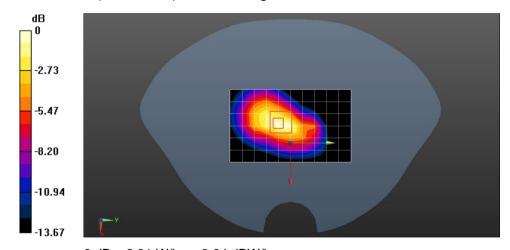
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 52.43 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.90 W/kg

SAR(1 g) = 1.52 W/kg; SAR(10 g) = 0.874 W/kg Maximum value of SAR (measured) = 2.31 W/kg



0 dB = 2.31 W/kg = 3.64 dBW/kg



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Date: 2021/06/04

Test Laboratory: Compliance Certification Services Inc.

LTE Band 5 10M QPSK 1RB25 Handheld Back 0mm Ch20525

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 836.5 MHz;Duty Cycle: 1:1 Medium parameters used: f = 836.5 MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 40.962$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.44, 9.44, 9.44); Calibrated: 2020/06/25;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.73 W/kg

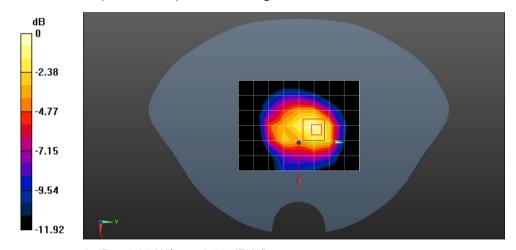
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dv=8mm, dz=5mm

Reference Value = 40.19 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 1.42 W/kg; SAR(10 g) = 0.938 W/kg Maximum value of SAR (measured) = 1.87 W/kg



0 dB = 1.87 W/kg = 2.72 dBW/kg



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Date: 2021/06/10

Test Laboratory: Compliance Certification Services Inc.

LTE band 7 20M QPSK 1RB50 Top side 0mm Ch21100

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, FDD LTE (0); Frequency: 2535.5 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2535.5 MHz; $\sigma = 1.918 \text{ S/m}$; $\epsilon_r = 38.817$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(6.98, 6.98, 6.98); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom: Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

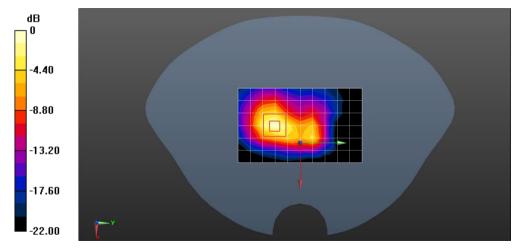
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 9.52 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 32.76 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 13.0 W/kg SAR(1 g) = 5.77 W/kg; SAR(10 g) = 2.36 W/kg Maximum value of SAR (measured) = 9.60 W/kg



0 dB = 9.60 W/kg = 9.82 dBW/kg



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Report No.: KSEM210700112911

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Date: 2021/06/10

Test Laboratory: Compliance Certification Services Inc.

LTE band 7 20M QPSK 1RB50 Handheld Back 0mm Ch21100

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 2535.5 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2535.5 MHz; $\sigma = 1.918$ S/m; $\epsilon_r = 38.817$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(6.98, 6.98, 6.98); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom: Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

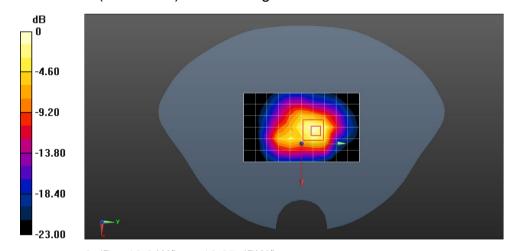
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 9.39 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dv=5mm, dz=5mm

Reference Value = 57.39 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 13.8 W/kg SAR(1 g) = 6.1 W/kg; SAR(10 g) = 2.67 W/kg Maximum value of SAR (measured) = 10.6 W/kg



0 dB = 10.6 W/kg = 10.25 dBW/kg



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Date: 2021/06/03

Test Laboratory: Compliance Certification Services Inc.

LTE band 13 10M QPSK 1RB25 Top side 0mm Ch23230

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 782 MHz;Duty Cycle: 1:1 Medium parameters used: f = 782 MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 41.386$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.83, 9.83, 9.83); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom: Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

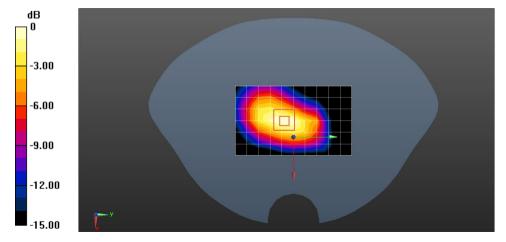
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 1.73 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 45.26 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.08 W/kg
SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.708 W/kg
Maximum value of SAR (measured) = 1.71 W/kg



0 dB = 1.71 W/kg = 2.33 dBW/kg



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Date: 2021/06/03

Test Laboratory: Compliance Certification Services Inc.

LTE Band 13 10M QPSK 1RB25 Handheld Back 0mm Ch23230

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 782 MHz;Duty Cycle: 1:1 Medium parameters used: f = 782 MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 41.386$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.83, 9.83, 9.83); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom: Type: QD 000 P40 CD; Serial: 1609

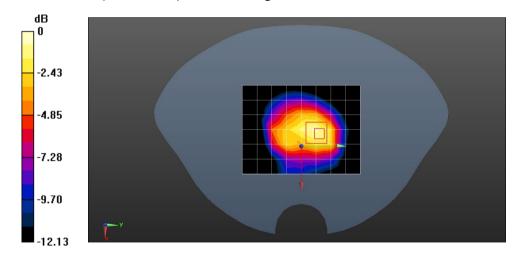
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.45 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dv=8mm, dz=5mm

Reference Value = 38.18 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 1.79 W/kg SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.823 W/kg Maximum value of SAR (measured) = 1.61 W/kg



0 dB = 1.61 W/kg = 2.07 dBW/kg



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Date: 2021/06/03

Test Laboratory: Compliance Certification Services Inc.

LTE band 17 10M QPSK 1RB25 Top side 0mm Ch23790

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 710 MHz;Duty Cycle: 1:1 Medium parameters used: f = 710 MHz; $\sigma = 0.871$ S/m; $\epsilon_r = 42.672$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.83, 9.83, 9.83); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

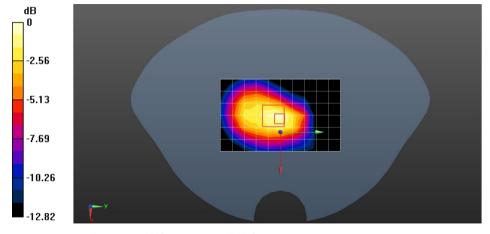
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 1.18 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 39.26 V/m; Power Drift = -0.17 dB Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.888 W/kg; SAR(10 g) = 0.561 W/kg Maximum value of SAR (measured) = 1.29 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg



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Date: 2021/06/03

Test Laboratory: Compliance Certification Services Inc.

LTE Band 17 10M QPSK 1RB25 Handheld Back 0mm Ch23790

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, FDD_LTE (0); Frequency: 710 MHz;Duty Cycle: 1:1 Medium parameters used: f = 710 MHz; $\sigma = 0.871$ S/m; $\epsilon_r = 42.672$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(9.83, 9.83, 9.83); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

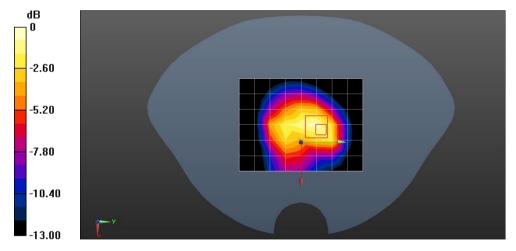
Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.10 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dy=8mm, dz=5mm

Reference Value = 34.76 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.623 W/kg Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg



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Date: 2021/06/10

Test Laboratory: Compliance Certification Services Inc.

LTE band 38 20M QPSK 1RB50 Top side 0mm Ch37850

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, TDD_LTE (0); Frequency: 2580 MHz; Duty Cycle: 1:1.57943 Medium parameters used: f = 2580 MHz; σ = 1.966 S/m; ϵ_r = 38.763; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(6.98, 6.98, 6.98); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

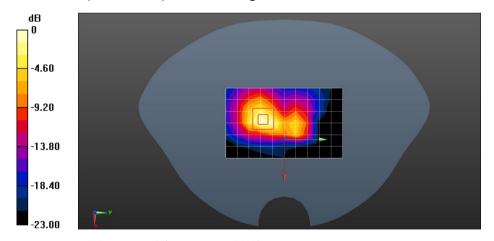
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 6.29 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 27.48 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 8.75 W/kg

SAR(1 g) = 4.05 W/kg; SAR(10 g) = 1.64 W/kg Maximum value of SAR (measured) = 6.82 W/kg



0 dB = 6.82 W/kg = 8.34 dBW/kg



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Date: 2021/06/08

Test Laboratory: Compliance Certification Services Inc.

LTE band 40 10M QPSK 1RB25 Top side 0mm Ch38750

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, TDD_LTE (0); Frequency: 2310 MHz; Duty Cycle: 1:1.57943 Medium parameters used: f = 2310 MHz; σ = 1.67 S/m; ϵ_r = 39.682; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.48, 7.48, 7.48); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

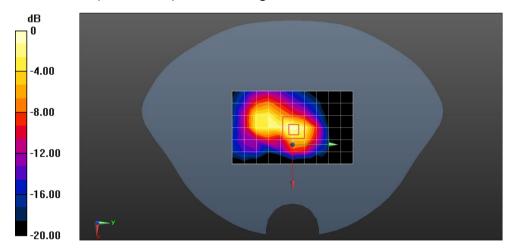
Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 2.48 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 40.37 V/m; Power Drift = -0.18 dB Peak SAR (extrapolated) = 3.99 W/kg

SAR(1 g) = 1.56 W/kg; SAR(10 g) = 0.651 W/kg Maximum value of SAR (measured) = 2.70 W/kg



0 dB = 2.70 W/kg = 4.31 dBW/kg



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Date: 2021/06/08

Test Laboratory: Compliance Certification Services Inc.

LTE Band 40 10M QPSK 1RB25 Handheld Back 0mm Ch38750

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, TDD_LTE (0); Frequency: 2310 MHz;Duty Cycle: 1:1.57943 Medium parameters used: f = 2310 MHz; σ = 1.67 S/m; ϵ_r = 39.682; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.48, 7.48, 7.48); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

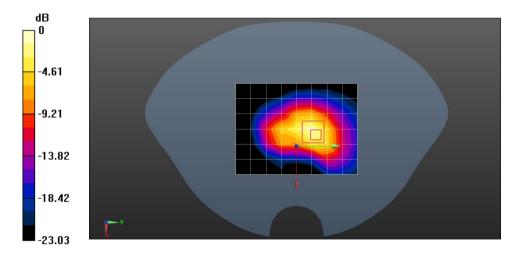
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 3.86 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dv=8mm, dz=5mm

Reference Value = 38.46 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 6.38 W/kg SAR(1 g) = 2.64 W/kg; SAR(10 g) = 1.19 W/kg Maximum value of SAR (measured) = 4.59 W/kg



0 dB = 4.59 W/kg = 6.62 dBW/kg



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Date: 2021/06/10

Test Laboratory: Compliance Certification Services Inc.

LTE band 41 20M QPSK 1RB50 Top side 0mm Ch41490

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, TDD_LTE (0); Frequency: 2680 MHz;Duty Cycle: 1:1.57943 Medium parameters used: f = 2680 MHz; σ = 2.087 S/m; ϵ_r = 38.323; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(6.98, 6.98, 6.98); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 5.01 W/kg

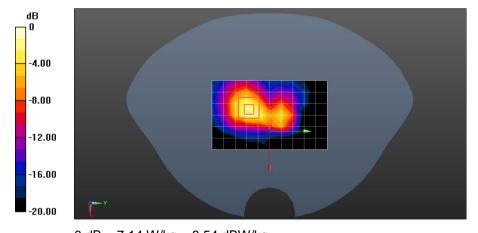
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 29.78 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 9.08 W/kg

SAR(1 g) = 3.72 W/kg; SAR(10 g) = 1.52 W/kg Maximum value of SAR (measured) = 7.14 W/kg



0 dB = 7.14 W/kg = 8.54 dBW/kg



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Date: 2021/06/09

Test Laboratory: Compliance Certification Services Inc.

WLAN2.4GHz 802.11b 1Mbps Right side 0mm Ch11

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, WiFi (0); Frequency: 2462 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2462 MHz; $\sigma = 1.842$ S/m; $\epsilon_r = 39.778$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(7.12, 7.12, 7.12); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (8x10x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 2.06 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm,

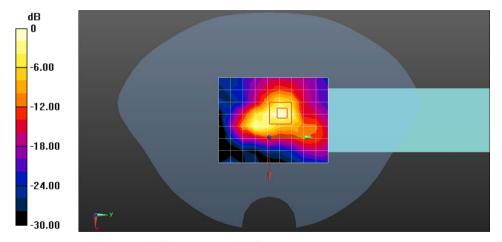
dy=5mm, dz=5mm

Reference Value = 28.18 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.460 W/kg

Maximum value of SAR (measured) = 2.03 W/kg



0 dB = 2.03 W/kg = 3.07 dBW/kg



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Date: 2021/06/11

Test Laboratory: Compliance Certification Services Inc.

WLAN5GHz 802.11a 6Mbps Right side 0mm Ch52

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, WiFi (0); Frequency: 5260 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5260 MHz; σ = 4.65 S/m; ϵ_r = 35.463; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.65, 4.65, 4.65); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (10x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 3.60 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

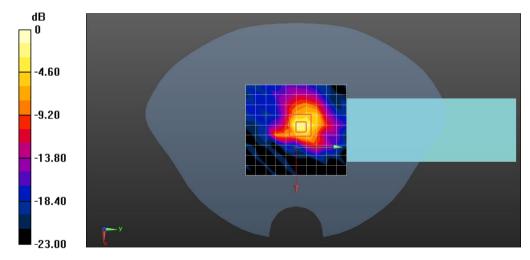
dy=4mm, dz=1.4mm

Reference Value = 29.61 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 10.2 W/kg

SAR(1 g) = 1.82 W/kg; SAR(10 g) = 0.481 W/kg

Maximum value of SAR (measured) = 4.78 W/kg



0 dB = 4.78 W/kg = 6.79 dBW/kg



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Test Laboratory: Compliance Certification Services Inc.

WLAN5GHz 802.11a 6Mbps Right side 0mm Ch116

DUT: Wireless data POS System; Type: T5F01

Communication System: UID 0, WiFi (0); Frequency: 5580 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5580 MHz; σ = 4.97 S/m; ϵ_r = 34.84; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.56, 4.56, 4.56); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913: Calibrated: 2021/04/21

Phantom: Twin SAM Phantom: Type: QD 000 P40 CD; Serial: 1609

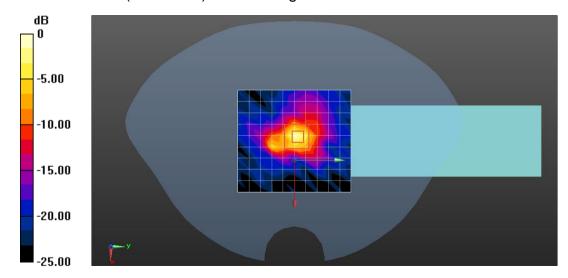
Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (10x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 5.95 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

dv=4mm, dz=1.4mm

Reference Value = 35.10 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 13.9 W/kg SAR(1 g) = 2.29 W/kg; SAR(10 g) = 0.552 W/kg Maximum value of SAR (measured) = 6.89 W/kg



0 dB = 6.89 W/kg = 8.38 dBW/kg



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Date: 2021/06/11

Test Laboratory: Compliance Certification Services Inc.

WLAN5GHz 802.11a 6Mbps Right side 0mm Ch165

DUT: Wireless data POS System: Type: T5F01

Communication System: UID 0, WiFi (0); Frequency: 5825 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5825 MHz; $\sigma = 5.257$ S/m; $\epsilon_r = 34.157$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3753; ConvF(4.61, 4.61, 4.61); Calibrated: 2020/06/25;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn913; Calibrated: 2021/04/21

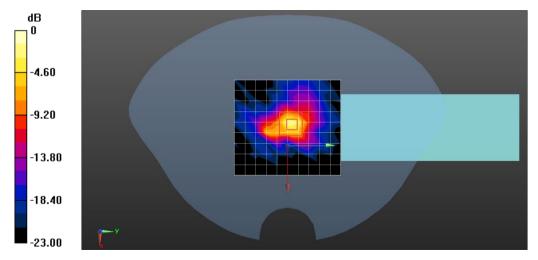
Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Body/Area Scan (10x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 6.12 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=1.4mm
Reference Value = 35.43 V/m; Power Drift = 0.03dB
Peak SAR (extrapolated) = 17.0 W/kg
SAR(1 g) = 2.85 W/kg; SAR(10 g) = 0.694 W/kg
Maximum value of SAR (measured) = 8.48 W/kg



0 dB = 8.48 W/kg = 9.28 dBW/kg



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Appendix C: Calibration certificate

Appendix D: Photographs

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