

FCC SAR Compliance Test Report

For

TECNO MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET

FOTAN NT HONGKONG

Model: CN5c

Test Engineer: Cai Yongju

Report Number: WSCT-ANAB-R&E251100089A-SAR

Report Date: 29 December 2025

FCC ID: 2ADYY-CN5C

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Modified History

REV.	Modification Description	Issued Date	Remark
REV.1.0	Initial Test Report Release	29 December 2025	Li Huaibi

1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. Shenzhen Timeway Testing Laboratories does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

1.2 Application details

Date of receipt of test item: 2025-10-13
Start of test: 2025-10-15
End of test: 2025-11-20

1.3 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for CN5c is as below:

Band	Position Test Points	MAX Reported SAR _{1g} (W/kg)
GSM850	Head	0.905
GSM1900	Head	0.388
UMTS Band 2	Head	0.510
UMTS Band 4	Head	0.511
UMTS Band 5	Head	1.099
LTE Band 2	Head	0.465
LTE Band 4	Head	0.219
LTE Band 5	Head	0.457
LTE Band 7	Head	0.648
LTE Band 12	Head	0.274
LTE Band 17	Head	0.103
LTE Band 38	Head	0.544
LTE Band 41	Head	0.510
LTE Band 66	Head	0.468
CA_7C	Head	0.386
CA_38C	Head	0.401
CA_41C	Head	0.441
CA_66C	Head	0.340
BT	Head	0.204
2.4GWIFI	Head	0.341
5GWIFI Band1	Head	0.140
5GWIFI Band2	Head	0.182
5GWIFI Band3	Head	0.307
5GWIFI Band4	Head	0.278

Band	Position Test Points	MAX Reported SAR1g (W/kg)
GSM850	Body & Hotspot 10mm	0.750
GSM1900	Body & Hotspot 10mm	1.038
UMTS Band 2	Body & Hotspot 10mm	0.120
UMTS Band 4	Body & Hotspot 10mm	0.227
UMTS Band 5	Body & Hotspot 10mm	0.534
LTE Band 2	Body & Hotspot 10mm	0.111
LTE Band 4	Body & Hotspot 10mm	0.215
LTE Band 5	Body & Hotspot 10mm	0.493
LTE Band 7	Body & Hotspot 10mm	0.178
LTE Band 12	Body & Hotspot 10mm	0.534
LTE Band 17	Body & Hotspot 10mm	0.500
LTE Band 38	Body & Hotspot 10mm	0.607
LTE Band 41	Body & Hotspot 10mm	0.633
LTE Band 66	Body & Hotspot 10mm	0.179
CA 7C	Body & Hotspot 10mm	0.084
CA 38C	Body & Hotspot 10mm	0.082
CA 41C	Body & Hotspot 10mm	0.093
CA 66C	Body & Hotspot 10mm	0.078
BT	Body & Hotspot 10mm	0.034
2.4GWIFI	Body & Hotspot 10mm	0.222
5GWIFI Band1	Body & Hotspot 10mm	0.197
5GWIFI Band2	Body & Hotspot 10mm	0.199
5GWIFI Band3	Body & Hotspot 10mm	0.499
5GWIFI Band4	Body & Hotspot 10mm	0.396
Maximum Max. SAR Level(s) Measured: (Limit: 1.6W/Kg):	WCDMA Band 5	1.099W/kg1gHeadTissue
	2.4GWIFI	0.341W/kg1gHeadTissue
	GSM1900	1.038W/kg1gBodyTissue
	5GWIFI Band3	0.499W/kg1gBodyTissue
The Head highest simultaneous SAR :		1.440W/kg1gHeadTissue
The Body highest simultaneous SAR :		1.537W/kg1gBodyTissue

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits of 1.6 W/Kg as averaged over any 1g tissue according to the FCC rule the ANSI/IEEE C95.1:2005, the NCRP Report Number 86 for uncontrolled environment, according to the Industry Canada Radio Standards Specification RSS-102 for General Population/Uncontrolled exposure, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013.

1.4 EUT Information

Device Information:			
Product Type:	Mobile Phone		
Model:	CN5c		
Trade Name:	TECNO		
Software number:	CN5c-16.1.0		
Hardware number:	V1.3		
Device Type:	Portable device		
Exposure Category:	uncontrolled environment / general population		
Production Unit or Identical Prototype:	Production Unit		
Antenna Type :	Integral Antenna		
Device Operating Configurations:			
Supporting Mode(s) :	GSM850, PCS 1900 WCDMA B2/ WCDMA B4/ WCDMA B5 LTE Band 2/4/5/7/12/17/38/41/66		
Modulation:	GSM/GPRS: GMSK EGPRS: 8PSK WCDMA: QPSK HSDPA/HSUPA: QPSK /16QAM LTE: QPSK/16QAM		
Device Class :	Class B, No DTM Mode		
Operating Frequency Range(s)	Band	TX(MHz)	RX(MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	UMTS Band 2	1850~1910	1930~1990
	UMTS Band 4	1710~1755	2110~2155
	UMTS Band 5	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 12	699~716	729~746
	LTE Band 17	704~716	734~746
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2535~2655	2535~2655
	LTE Band 66	1710~1780	2110~2200
	Wi-Fi (2.4G)	2412~2462	
BT	2402~2480		

Antenna gain:	GSM 850/WCDMA B5/LTE B5: -5.8dbi PCS 1900/WCDMA B2/LTE B2: -3.3dbi WCDMA B4/LTE B4/ LTE B66: -2dbi LTE B7/ LTE B38/ LTE B41:-2.2dbi LTE B12/LTE B17:-7.2dbi
Radiated Power (EIRP/ERP) Limit	GSM 850/WCDMA B5/LTE B5: 7.00W(38.45dBm) PCS 1900/WCDMA B2/LTE B2:2.00W(33.01dBm) WCDMA B4/LTE B4/ LTE B66: 1.00W(30.00dBm) LTE B7/LTE B38/LTE B41: 2.00W(33.01dBm) LTE B12/B17/B71: 3.00W(34.77dBm) LTE B42: 1.00W(30.00dBm)
Power Source:	Rechargeable Li-ion Polymer Battery: BL-60AT(Zhejiang Sunwoda Electronic Co.,Ltd.) Nominal Voltage: 3.92V Rated Capacity: 5990mAh/23.49Wh Typical Capacity: 6150mAh/24.11Wh Limited Charge Voltage: 4.53V Rechargeable Li-ion Polymer Battery: BL-60AT(Dongguan Amperex Technology Limited) Nominal Voltage: 3.92V Rated Capacity: 5990mAh/23.49Wh Typical Capacity: 6150mAh/24.11Wh Limited Charge Voltage: 4.53V

Note:1.The test results of this test report relate exclusively to the test item specified in this test report. World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

2. The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.

2 Testing laboratory

Test Site	World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.
Laboratory :	Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyao Street, Bao'an District, Shenzhen City, Guangdong Province, China
TEL:	+86-755-26996192
FAX:	+86-755-86376605

3 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017.

USA**China****Canada****ANAB - Certificate Number: AT-3951****CNAS (Registration Number: L3732)****ISED(CAB identifier:CN0178)**

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct-cert.com>

4 Test Environment

	Required	Actual
Ambient temperature:	18 – 25 °C	22 ± 2 °C
Tissue Simulating liquid:	22 ± 2 °C	22 ± 2 °C
Relative humidity content:	30 – 70 %	30 – 70 %

5 Applicant and Manufacturer

Applicant/Client Name:	TECNO MOBILE LIMITED
Applicant Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer Name:	TECNO MOBILE LIMITED
Manufacturer Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

6 Test standards:

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	IEC/IEEE 62209-1528	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate in the Human Head from Wireless Communications Devices: Measurement Techniques
3	KDB447498 D04	Interim General RF Exposure Guidance v01
4	KDB865664 D01	SAR measurement 100MHz to 6GHz v01r04
5	KDB865664 D02	RF Exposure Reporting v01r02
6	KDB941225 D01	3G SAR Procedures v03r01
7	KDB941225 D05	SAR for LTE Devices v02r05
8	KDB248227 D01	802.11 Wi-Fi SAR v02r02
9	KDB941225 D06	Hotspot Mode v02r01
10	KDB648474 D04	Handset SAR v01r03
11	KDB690783 D01	SAR Listings on Grant v01r03

6.1 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain/Body/Arms/Legs)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Heads/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

The limit applied in this test report is shown in bold letters

Notes:

* 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.

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).

6.2 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ).

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dV} \right)$$

SAR is expressed in units of watts per kilogram (W/kg). SAR can be related to the electric field at a point by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

where:

σ = conductivity of the tissue (S/m)

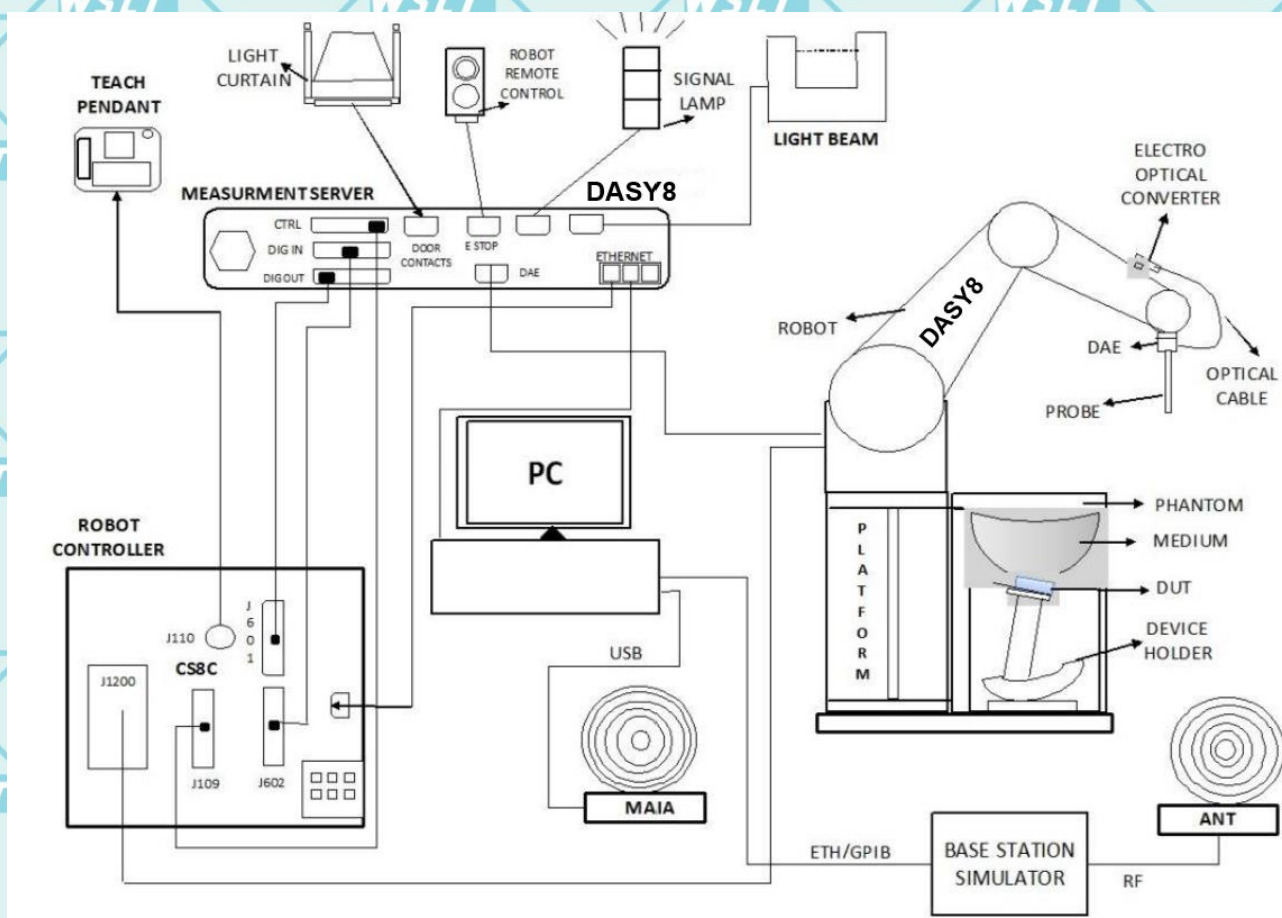
ρ = mass density of the tissue (kg/m³)

E = rms electric field strength (V/m)

7 SAR Measurement System

7.1 The Measurement System

DASY8 is a flexible, high-precision near-field scanner optimized for automated measurements in free-space and tissue simulating liquids (TSL), using the most advanced probes covering the frequency range from 3 kHz to 110 GHz. The software enables point, area, and volume measurements and conformal scanning of complex geometries.



The DASY8 SAR module consists of an isotropic dosimetric probe (SAR) mounted on the TX2 precision robot, which allows field scanning inside anthropomorphic phantoms filled with tissue-simulating liquids. The probes are miniaturized, sensitive, isotropic, linear, stable and calibrated with precise boundary compensation. The spatial accuracy of probe positioning within the phantom is better than 0.2 mm. Scanning is optimized and adaptive to the induced field. The spatial SAR peak is determined without reconstruction.

7.2 Robot

The DASY8 system uses the high-precision industrial robots TX2-60L and TX2-90XL from Stäubli SA (France). The TX2 family of robots provides the ideal combination of speed, rigidity, size, and precision:

- High precision (repeatability 0.03 mm)
- High reliability and low maintenance costs (industrial design)
- ELF interference (motor control fields are shielded by the closed metallic construction)
- Hygienic encapsulated 6-axis arm enabled by a hollow shaft gearbox, no external cables.



7.3 Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

For the measurements the Specific Dosimetric E-Field Probe EX3DV4-SN:7951 with following specifications is used.



Frequency: 4MHz – 10GHz ;

Linearity: ± 0.2 dB (30MHz – 10GHz)

Dynamic Range: $10\mu\text{W/g}$ – 100 mW/g

Linearity: ± 0.2 dB (noise: typically $< 1\mu\text{W/g}$)

Directivity (typical): ± 0.1 dB in TSL (rotation around probe axis)
 ± 0.3 dB in TSL (rotation normal to probe axis)

Sensor Arrangement	Triangular
Connector Angle	46.9°
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm

7.4 DAE

DAE4ip– Data Acquisition Electronics 4 with Integrated Power

Data Acquisition Electronics 4 with an integrated power supply for time unlimited measurements.

Performance:

- Measurement range: -100—+300 mV (16-bit resolution and two range settings: 4 mV, 400 mV)
- Input offset voltage: <5 μ V (with auto zero)
- Input resistance: 200M Ω
- Input bias current: <50 fA
- Power supply: integrated (from the DASY8 measurement server)
- Dimensions (L $\times$ W $\times$ H): 60 $\times$ 60 $\times$ 68 mm
- Calibration: ISO/IEC 17025 calibration service available.



7.5 Phantom

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEC/IEEE 62209-1528. 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 the liquid from evaporating. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.



Material	Vinyl ester, fiberglass reinforced (VE-GF)
Liquid Compatibility	The phantom shell is compatible with SPEAG's tissue-simulating liquids (sugar and oil-based). However, using other liquids may render the phantom warranty void (see note or consult SPEAG support).
Shell Thickness	$2 \pm 0.2\text{mm}$ ($6 \pm 0.2\text{mm}$ at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Support	DASY6/8: standard-size platform slot DASY52 stand-alone: SPEAG standard phantom table
Accessories	Mounting Device and Adaptors

7.6 Device Holder

The DASY instrument holder is designed to accommodate the various positions specified in the standard. It has two scales for instrument rotation (with respect to the body axis) and instrument tilt (with respect to the line between the ear reference points). The center of rotation for both scales is the Ear Reference Point (ERP). This eliminates the need to reposition the instrument when changing angles.

The DASY instrument holder is made of low-loss POM material with the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material in the immediate vicinity of the device was reduced because measurements indicated that the influence of the clamp on the test results could be reduced.



Device holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1° .

7.7 SAR Scan General Requirement

According to kdb865664 D01 v01r04:

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. The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports, unless further guidance has been provided by the FCC.

			≤ 3 GHz	>3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			$5\text{ mm} \pm 1\text{ mm}$	$\frac{1}{2} \delta \ln(2)\text{ mm} \pm 0.5\text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^{\circ} \pm 1^{\circ}$	$20^{\circ} \pm 1^{\circ}$
			≤ 2 GHz: $\leq 15\text{ mm}$ 2-3 GHz: $\leq 12\text{ mm}$	3- 4 GHz: $\leq 12\text{ mm}$ 4- 6 GHz: $\leq 10\text{ mm}$
Maximum area scan spatial resolution: Δx Area , Δy Area			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			≤ 2 GHz: $\leq 8\text{ mm}$ 2-3 GHz: $\leq 5\text{ mm}^*$	3- 4 GHz: $\leq 5\text{ mm}^*$ 4- 6 GHz: $\leq 4\text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz_{Zoom} (n)		$\leq 5\text{ mm}$	3- 4 GHz: $\leq 4\text{ mm}$ 4- 5 GHz: $\leq 3\text{ mm}$ 5- 6 GHz: $\leq 2\text{ mm}$
	graded grid	Δz_{Zoom} (1): between 1 st two points closest to phantom surface	$\leq 4\text{ mm}$	3-4 GHz: $\leq 3\text{ mm}$ 4-5 GHz: $\leq 2.5\text{ mm}$ 5-6 GHz: $\leq 2\text{ mm}$
		Δz_{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}$ (n-1) mm	
Minimum zoom scan volume	x, y,z		$\geq 30\text{ mm}$	3 -4 GHz: $\geq 28\text{ mm}$ 4- 5 GHz: $\geq 25\text{ mm}$ 5- 6 GHz: $\geq 22\text{ mm}$
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.				
* When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB Publication 447498 is $\leq 1.4\text{ W/kg}$, $\leq 8\text{ mm}$, $\leq 7\text{ mm}$ and $\leq 5\text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

7.8 Measurement procedure

Power Drift :

All SAR tests were performed with a fully charged battery under the DUT and transmitting at maximum output power. The DASY measurement software uses the power reference measurement and power drift measurement procedures to monitor the power drift of the DUT during SAR testing. Both methods measure the field value at a specified reference position before and after the SAR test. The software calculates the field difference in dB. If the power drift exceeds 5%, the SAR is retested.

Area scan:

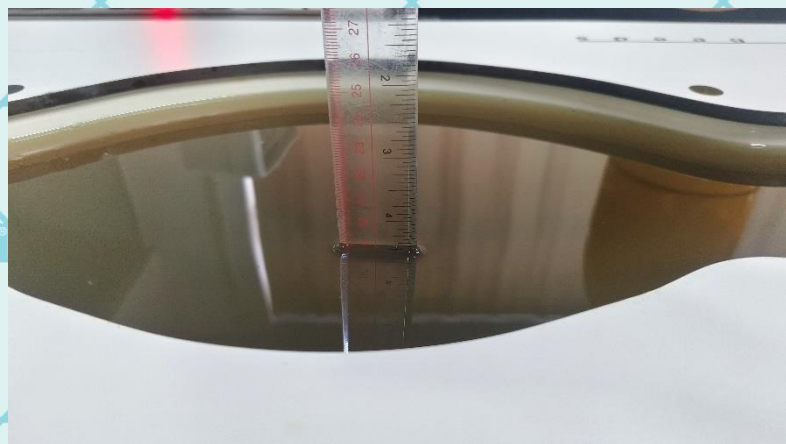
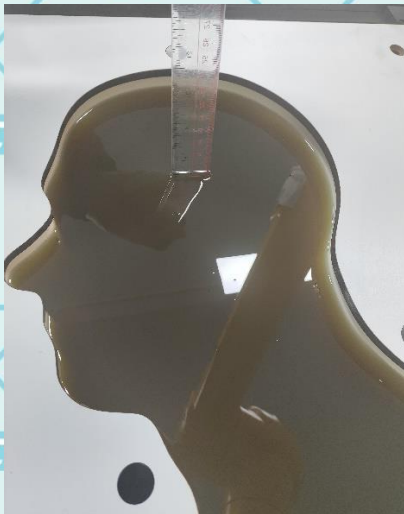
All antennas and radiating structures that may contribute to the measured SAR or influence the SAR distribution must be included in the area scan. The areas of the transmitter(s), antenna(s) and host device, when projected onto the phantom, must be within the area scan measurement region. The area scan measurement resolution must enable the extrapolation algorithms of the SAR system to correctly identify the peak SAR location(s) for subsequent zoom scan measurements to correctly determine the 1-g SAR. Area scans are performed at a constant distance from the phantom surface, determined by the measurement frequencies.

Zoom Scan:

Except when area scan based 1-g SAR estimation applies, a zoom scan measurement is required at the highest peak SAR location determined in the area scan to determine the 1-g SAR. When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR. The zoom scan volume must be larger than the required minimum dimensions described 7.7. There must be at least one measurement point within the first 5 mm from the phantom surface for measurements ≤ 3 GHz, two measurement points for measurements ≤ 5 GHz and three measurement points for measurements above 5 GHz. When graded grids are used, which only applies in the direction normal to the phantom surface, the initial grid separation closest to the phantom surface and subsequent graded grid increment ratios must satisfy the required protocols in 7.7. The 1-g SAR averaging volume must be fully contained within the zoom scan measurement volume boundaries; otherwise, the measurement must be repeated by shifting or expanding the zoom scan volume. The similar requirements also apply to 10-g SAR measurements.

7.9 Tissue simulating liquids: dielectric properties

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.



Simulating Head Liquid for 5G(HBBL600-10000MHz V6), Manufactured by SPEAG:

Ingredients	(% by weight)
Water	50-65%
Mineral oil	10-30%
Emulsifiers	8-25%
Sodium salt	0-1.5%

7.10 Tissue simulating liquids: parameters

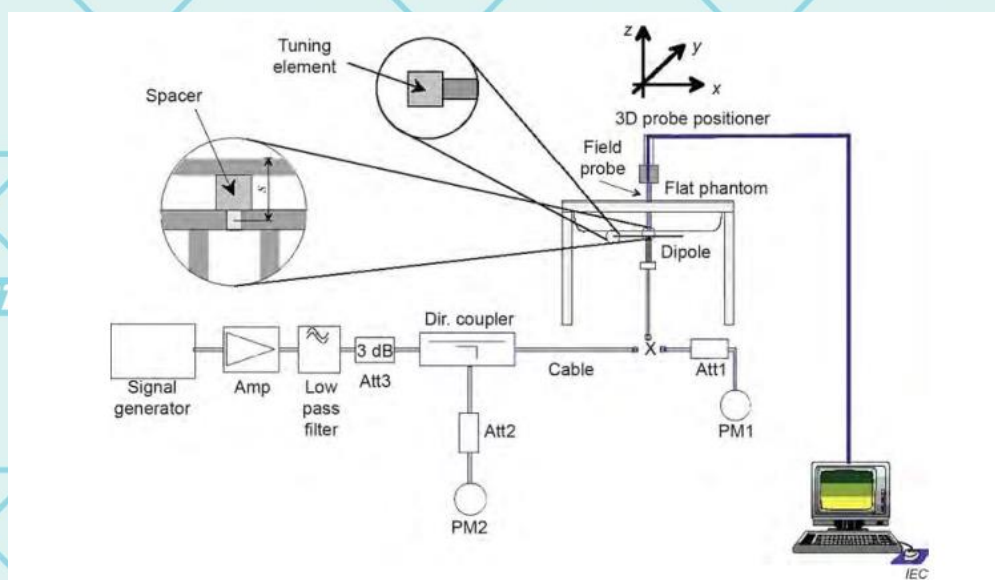
Used Target Frequency	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
	ϵ_r (+/-5%)	σ (S/m) (+/-5%)	ϵ_r	σ (S/m)		
750MHz Head	41.90 (39.805~43.995)	0.89 (0.85~0.93)	43.90	0.885	21.6°C	2025-11-03
835MHz Head	41.50 (39.425~43.575)	0.90 (0.86~0.95)	41.60	0.914	21.6°C	2025-11-05
1750MHz Head	40.10 (38.10~42.10)	1.37 (1.31~1.43)	41.90	1.34	21.6°C	2025-11-07
1900MHz Head	40.00 (38.00~42.00)	1.40 (1.33~1.47)	41.70	1.44	21.6°C	2025-11-08
2450MHz Head	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.27	1.82	21.6°C	2025-11-10
2550MHz Head	39.10 (37.15~41.05)	1.91 (1.82~2.01)	40.80	1.90	21.6°C	2025-11-12
2600MHz Head	39.00 (37.05~40.95)	1.96 (1.86~2.05)	39.87	1.94	21.6°C	2025-11-14
5200MHz Head	36.00 (34.20~37.80)	4.66 (4.43~4.89)	36.30	4.54	21.6°C	2025-11-17
5500MHz Head	35.60 (33.82~37.38)	4.96 (4.71~5.20)	35.80	4.88	21.6°C	2025-11-18
5800MHz Head	35.30 (33.54~37.06)	5.27 (5.01~5.53)	35.30	5.23	21.6°C	2025-11-19
ϵ_r = Relative permittivity, σ = Conductivity						

8 System Check

8.1 System check procedure

The System check is performed by using a System check dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100 mW. To adjust this power a power meter is used. The power sensor is connected to the cable before the System check to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the validation to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

System check results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system.



8.2 System check results

The system Check is performed for verifying the accuracy of the complete measurement system and performance of the software. The following table shows System check results for all frequency bands and tissue liquids used during the tests (plot(s) see annex A).

System Check	Target SAR (1W) (+/-10%)		Measured SAR (Normalized to 1W)		Liquid Temp.	Test Date
	1-g (W/kg)	10-g (W/kg)	1-g (W/kg)	10-g (W/kg)		
D750V3 Body	8.46 (7.62~9.30)	5.70 (5.13~6.27)	8.58	5.70	21.6°C	2025-11-03
D835V2 Body	9.68 (8.72~10.64)	6.44 (5.80~7.08)	9.94	6.55	21.6°C	2025-11-05
D1750V2 Body	36.40 (32.76~40.04)	19.60 (17.64~21.56)	36.20	19.50	21.6°C	2025-11-07
D1900V2 Body	39.70 (35.73~43.67)	21.00 (18.90~23.10)	40.40	21.10	21.6°C	2025-11-08
D2550V2 Body	54.10 (48.69~59.51)	24.70 (22.23~27.17)	55.80	25.60	21.6°C	2025-11-12
D5200V2 Body	76.00 (68.40~83.60)	22.00 (19.80~24.20)	71.70	20.70	21.6°C	2025-11-17
D5300V2 Body	80.60 (72.54~88.66)	23.30 (20.97~25.63)	80.80	23.10	21.6°C	2025-11-17
D5500V2 Body	85.60 (77.04~94.16)	24.50 (22.05~26.95)	79.00	22.50	21.6°C	2025-11-18
D5600V2 Body	83.30 (74.97~91.63)	24.10 (21.69~26.51)	78.70	22.40	21.6°C	2025-11-18
D5800V2 Body	79.00 (71.10~86.90)	22.70 (20.43~24.97)	77.60	22.00	21.6°C	2025-11-19

Note: 1. All SAR values are normalized to 1W forward power.

2. The actual forward power output to the dipole antenna is 20dbm(100mw), so the measured value differs ten times from the table

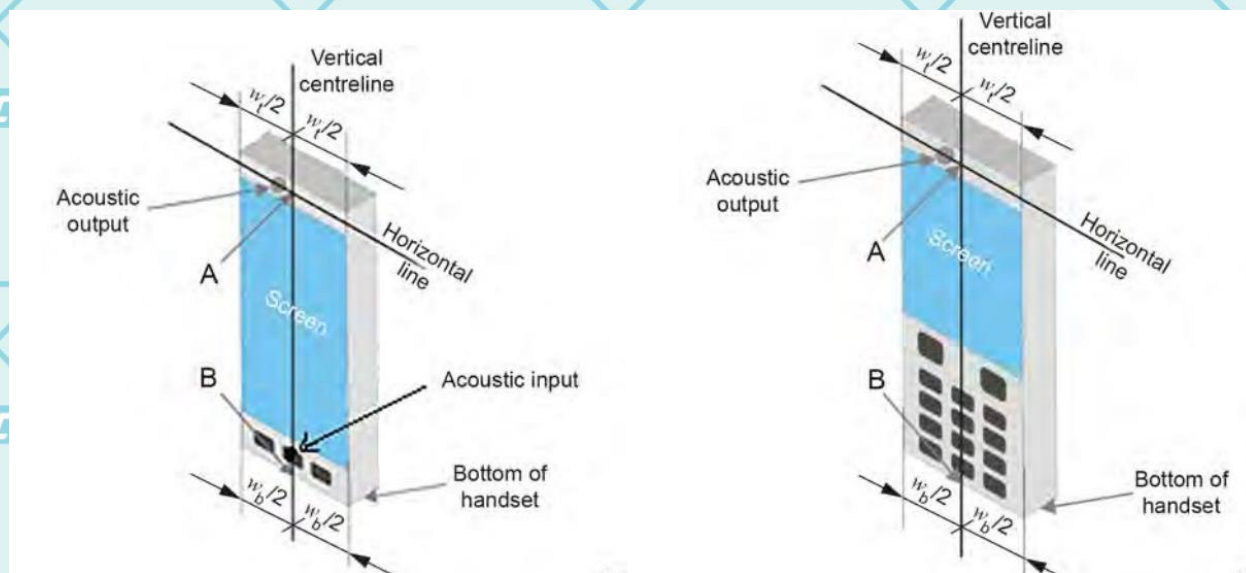
9 Test Position Configurations

9.1 Head Exposure Conditions

According to the IEEE-1528, the head phantom needs to test both "Cheek" and "Tilt" positions. Configure the DUT for voice operation, if necessary. For example, for a DUT with a flip, swivel, or slide cover piece, open the cover if this is consistent with voice operation. If the DUT can also be used with the cover closed, both configurations shall be tested.

Define two imaginary lines on the DUT, the vertical centreline and the horizontal line, relative to the DUT in vertical orientation as shown in Figure

The vertical centreline passes through two points on the front side of the DUT: the midpoint of the width w_t of the DUT at the level of the acoustic output (Point A in Figure), and the midpoint of the width w_b at the bottom of the DUT (Point B). The horizontal line is perpendicular to the vertical centerline, and passes through the centre of the acoustic output (Figure). The two lines intersect at Point A. Note that for many DUTs, Point A coincides with the centre of the acoustic output. However, the acoustic output could be located elsewhere on the horizontal line. Also note that the vertical centreline is not necessarily parallel to the front face of the DUT, especially for clamshell DUTs, DUTs with flip cover pieces, and other irregularly shaped DUTs.



Vertical and horizontal reference lines and reference points A and B on two example device types: a full touch-screen smart phone (left) and a DUT with a keypad (right)

w_t Width of the DUT at the level of the acoustic output

w_b Width of the bottom of the DUT

A Midpoint of the width w_t of the DUT at the level of the acoustic output

B Midpoint of the width w_b of the bottom of the DUT

Cheek position:

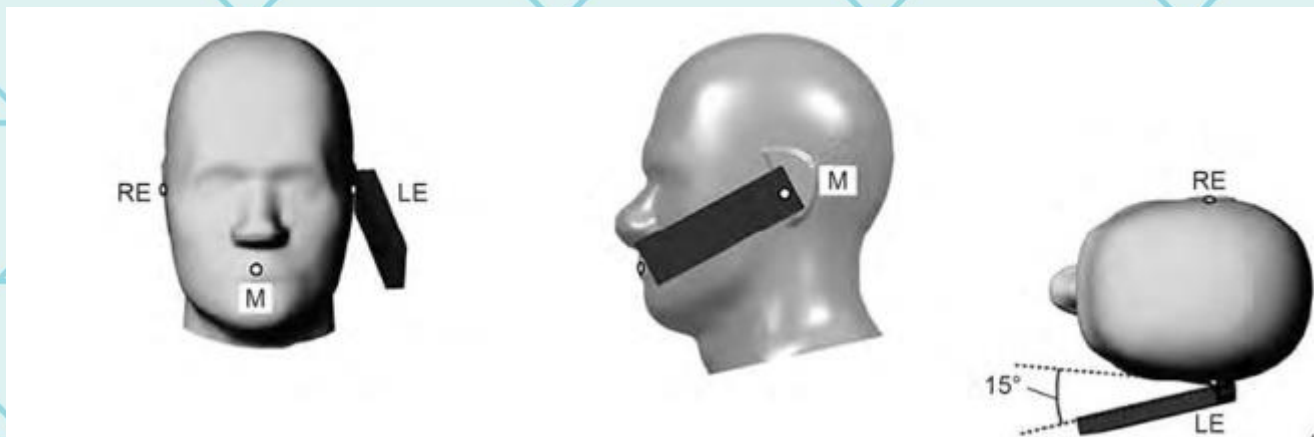
Position the DUT close to the surface of the phantom such that Point A is on the (virtual) extension of the line passing through points RE (right-ear ear reference point) and LE (left-ear ear reference point) on the phantom. The plane determined by the vertical centreline and the horizontal line of the DUT shall be parallel to the sagittal plane of the phantom.



Tilt position:

Place the DUT in the cheek position. While maintaining the orientation of the DUT, move the DUT away from the pinna along the line passing through RE and LE far enough to allow a rotation of the DUT away from the cheek by 15° . Rotate the DUT around the horizontal line by 15° .

While maintaining the orientation of the DUT, move the DUT towards the phantom on a line passing through RE and LE until any part of the DUT touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g. an extended antenna in contact with the back of the head phantom, the angle of the DUT shall be reduced. In this case, the tilt position is obtained if any part of the DUT is in contact with the pinna and a second point on the DUT is in contact with the phantom, e.g. the antenna in contact with the back of the head.

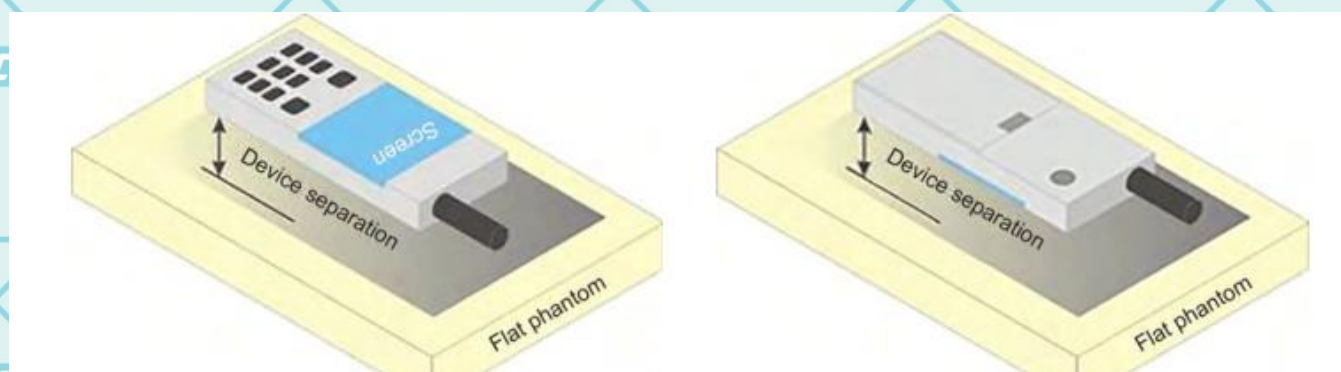


9.2 Body Exposure Condition

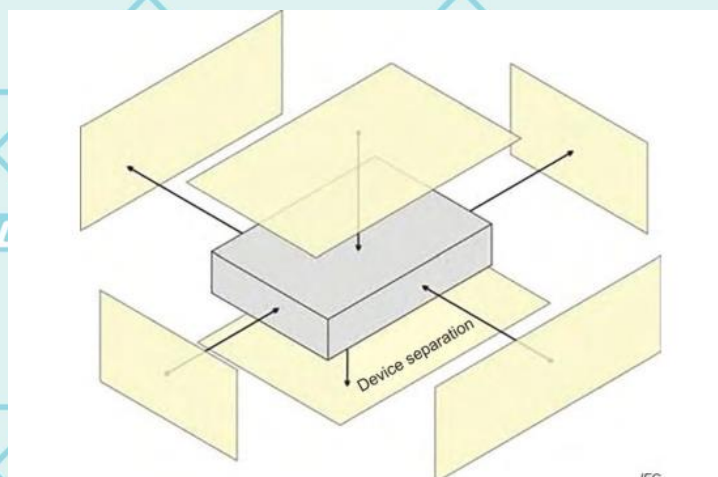
According to 447498 D04

Devices that support transmission while used with body-worn accessories must be tested for SAR compliance related to each body-worn condition of use. SAR evaluation is required for body-worn accessories supplied with the device they are attached to.

The general informing principle is that the selected test configurations must conservatively capture the various body-worn accessory use conditions expected by users. For instance, devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, must be tested for SAR compliance using a conservative minimum test separation distance not to exceed 5 mm for all use conditions required by the device.



Test positions for body-worn devices



Possible test positions for a generic device

Testing of all six faces of the DUT (see Figure) might not be required; justification shall be provided when omitting testing of some faces.

10 SAR Test Configuration

10.1 GSM Test Configurations

SAR tests for GSM850 and GSM1900, a communication link is set up with a base station by air link. Using CMU200 the power level is set to “5” and “0” in SAR of GSM850 and GSM1900. 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 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5.

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.

10.2 UMTS 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 Headset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) WCDMA

a. Head SAR Measurements

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.

b. Body SAR Measurements

SAR for body-worn accessory 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 Headset with 12.2 kbps RMC as the primary mode

3) HSDPA

SAR for body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ 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.

Per KDB941225 D01, the 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSDPA using the HSDPA body SAR procedures for the highest reported SAR body exposure configuration in 12.2 kbps RMC. HSDPA should be configured according to UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HAPRQ 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 condition, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4ms with a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. The β_c and β_d gain factors for DPCCH and DPDCH were set according to the values in the below table, β_{hs} for HS-DPCCH is set automatically to the correct value when $\Delta ACK, \Delta NACK, \Delta CQI = 8$. The variation of the β_c / β_d ratio causes a power reduction at sub-tests 2 - 4.

Sub-test ^o	β_c ^o	β_d ^o	β_d (SF) ^o	β_c / β_d ^o	β_{hs} (1) ^o	CM(dB)(2) ^o	MPR (dB) ^o
1 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	0.0 ^o	0 ^o
2 ^o	12/15(3) ^o	15/15(3) ^o	64 ^o	12/15(3) ^o	24/15 ^o	1.0 ^o	0 ^o
3 ^o	15/15 ^o	8/15 ^o	64 ^o	15/8 ^o	30/15 ^o	1.5 ^o	0.5 ^o
4 ^o	15/15 ^o	4/15 ^o	64 ^o	15/4 ^o	30/15 ^o	1.5 ^o	0.5 ^o

Note 1: $\Delta ACK, \Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. 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.

Note 3: For subtest 2 the β_c / β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$

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

4)HSUPA

SAR for body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. 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.

Per KDB941225 D01v03, the 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for HSPA using the HSPA body SAR procedures for the highest reported body exposure SAR configuration in 12.2 kbps RMC.

10.3 LTE Test Configuration

SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices. The CMW500 WideBand Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR test were performed with the same number of RB and RB offsets transmitting on all TTI frames(Maximum TTI)

1) Spectrum Plots for RB configurations

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

2) MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.

The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

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

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

3) A-MPR

A-MPR(Additional MPR) has been disabled for all SAR tests by using Network Signalling Value of “NS_01” on the base station simulator.

4) LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test requirements

i) 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.

ii) QPSK with 50% RB allocation

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

iii) 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 i) and ii) 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.

iv) Higher order modulations

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

B) 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.

5) TDD LTE test configuration

According to KDB 941225 D05 SAR for LTE Devices v02r04, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

10.4 Wi-Fi Test Configuration

For the 802.11b/g SAR tests, a communication link is set up with the test mode software for Wi-Fi mode test. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 1, 6 and 11 respectively in the case of 2450 MHz. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest data rate. 802.11b/g operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g modes are tested on channel 1, 6, 11; however, if output power reduction is necessary for channels 1 and/or 11 to meet restricted band requirements the highest output channel closest to each of these channels must be tested instead.

SAR is not required for 802.11g/n channels when the maximum average output power is less than 0.25dB higher than that measured on the corresponding 802.11b channels.

Mode	Band	GHz	Channel	"Default Test Channels"	
				802.11b	802.11g
802.11b/g	2.4 GHz	2412	1#	√	△
		2437	6	√	△
		2462	11#	√	△

Notes:

√ = "default test channels"

△ = possible 802.11g channels with maximum average output 1/4 dB the "default test channels"

= when output power is reduced for channel 1 and /or 11 to meet restricted band requirements the highest output channels closest to each of these channels should be tested.

802.11 Test Channels per FCC Requirements

10.5 WiFi 2.4G SAR Test 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.

A) 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:

- 1) When the reported SAR of the highest measured maximum output power channel (section 3.1 of of KDB 248227D01v02) 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.

B) 2.4GHz 802.11g/n OFDM SAR Test Exclusion Requirements

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 of of KDB 248227D01v02r01). 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.

C) SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. 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.

11 Detailed Test Results

11.1 Conducted Power measurements

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

11.1.1 Conducted Power of GSM

Mode: GSM850		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH128	CH190	CH251		CH128	CH190	CH251
			824.2MHz	836.6MHz	848.8MHz		824.2MHz	836.6MHz	848.8MHz
GSM(CS)		34.50	34.02	34.46	34.43	-9.03	24.99	25.43	25.40
GPRS (GMSK)	1Tx slot	35.00	34.11	34.54	34.48	-9.03	25.08	25.51	25.45
	2Tx slots	34.00	33.28	33.63	33.55	-6.02	27.26	27.61	27.53
	3Tx slots	32.00	31.35	31.72	31.61	-4.26	27.09	27.46	27.35
	4Tx slots	30.50	30.07	30.44	30.32	-3.01	27.06	27.43	27.31
EGPRS (8PSK)	1Tx slot	35.00	34.54	34.41	34.42	-9.03	25.51	25.38	25.39
	2Tx slots	34.00	33.64	33.42	33.39	-6.02	27.62	27.40	27.37
	3Tx slots	31.50	31.47	31.17	31.02	-4.26	27.21	26.91	26.76
	4Tx slots	30.50	30.28	29.96	29.80	-3.01	27.27	26.95	26.79
Mode: GSM1900		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH512	CH661	CH810		CH512	CH661	CH810
			1850.2MHz	1880.0MHz	1909.8MHz		1850.2MHz	1880.0MHz	1909.8MHz
GSM(CS)		32.50	31.95	32.11	31.95	-9.03	22.92	23.08	22.92
GPRS (GMSK)	1Tx slot	32.50	31.96	32.13	31.96	-9.03	22.93	23.10	22.93
	2Tx slots	31.50	30.93	31.12	30.91	-6.02	24.91	25.10	24.89
	3Tx slots	29.00	28.75	28.99	28.77	-4.26	24.49	24.73	24.51
	4Tx slots	28.00	27.52	27.77	27.58	-3.01	24.51	24.76	24.57
EGPRS (8PSK)	1Tx slot	28.50	27.84	27.93	28.10	-9.03	18.81	18.90	19.07
	2Tx slots	28.00	27.60	27.62	27.41	-6.02	21.58	21.60	21.39
	3Tx slots	27.00	26.67	26.74	26.62	-4.26	22.41	22.48	22.36
	4Tx slots	26.00	25.84	25.63	25.41	-3.01	22.83	22.62	22.40

Note:

Division Factors

To average the power, the division factor is as follows:

1Tx-slots = 1 transmit time slots out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2Tx-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3Tx-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4Tx-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

11.1.2 Conducted Power of WCDMA

Mode		Maximum Tune-up(dBm)	WCDMA Band 2		
			Conducted Power (dBm)		
			CH9262	CH9400	CH9538
RMC 12.2K		25.50	1852.4	1880.0	1907.6
HSDPA	Subtest-1	25.50	25.14	25.06	25.28
	Subtest-2	25.50	25.18	23.96	22.43
	Subtest-3	25.50	22.13	25.09	23.79
	Subtest-4	25.50	22.18	21.95	25.33
HSUPA	Subtest-1	24.00	23.97	22.47	21.83
	Subtest-2	23.50	23.16	23.10	23.30
	Subtest-3	23.50	23.14	23.10	23.28
	Subtest-4	24.50	24.13	24.08	24.25
	Subtest-5	23.00	22.65	22.63	22.80
		24.50	24.15	24.11	24.30
Mode		Maximum Tune-up(dBm)	WCDMA Band 4		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
RMC 12.2K		25.50	1712.4	1732.6	1752.6
HSDPA	Subtest-1	25.50	25.40	25.09	24.83
	Subtest-2	25.50	25.49	24.23	22.65
	Subtest-3	25.50	22.00	25.18	23.90
	Subtest-4	25.00	22.30	21.66	24.88
HSUPA	Subtest-1	24.00	23.51	22.21	21.51
	Subtest-2	23.50	23.45	23.14	22.83
	Subtest-3	23.50	23.45	23.15	22.86
	Subtest-4	24.50	24.42	24.16	23.86
	Subtest-5	23.00	22.97	22.69	22.40
		24.50	24.45	24.17	23.89
Mode		Maximum Tune-up(dBm)	WCDMA Band 5		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
RMC 12.2K		25.50	826.4	836.6	846.6
HSDPA	Subtest-1	25.50	25.21	25.08	25.07
	Subtest-2	25.50	25.30	23.91	22.38
	Subtest-3	25.50	22.21	25.13	23.74
	Subtest-4	25.50	22.42	21.98	25.11
HSUPA	Subtest-1	24.00	23.62	22.25	21.66
	Subtest-2	23.50	23.25	23.21	23.13
	Subtest-3	23.50	23.25	23.24	23.10
	Subtest-4	24.50	24.15	24.13	24.12
	Subtest-5	23.00	22.73	22.68	22.66
		24.50	24.28	24.13	24.14

Per KDB 941225 D01, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/2$ dB higher than the primary mode (RMC12.2kbps) 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.

11.1.3 Conducted Power of LTE Band 2

LTE-FDD Band 2				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
1.4MHz	QPSK	1	0	24.00	23.69	23.53	23.48
			2	24.00	23.82	23.62	23.56
			5	24.00	23.69	23.51	23.49
		3	0	24.00	23.73	23.69	23.53
			2	24.00	23.74	23.69	23.51
			3	24.00	23.71	23.62	23.52
	16QAM	6	0	23.00	22.82	22.68	22.44
		1	0	23.00	22.81	22.80	22.02
			2	23.00	22.85	22.85	21.96
			3	5	23.00	22.77	22.79
		0		23.00	22.96	22.95	22.20
		2		23.00	23.00	22.99	22.22
6	3	23.00	22.90	22.96	22.21		
	0	22.00	21.99	21.93	21.31		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	18615	18900
1851.5MHz						1880.0MHz	1908.5MHz
3MHz	QPSK	1	0	23.50	23.01	22.95	22.80
			7	23.50	23.05	23.03	22.93
			14	23.00	22.98	22.90	22.88
		8	0	22.50	22.17	22.15	21.99
			4	22.50	22.28	22.24	22.10
			7	22.50	22.22	22.19	22.02
	16QAM	15	0	22.50	22.23	22.18	22.06
		1	0	22.50	22.49	22.17	21.66
			7	22.50	22.49	22.30	21.75
			14	22.50	22.39	22.18	21.66
		8	0	21.50	21.24	21.22	21.00
			4	21.50	21.31	21.27	21.07
15	7		21.50	21.26	21.17	21.03	
	0	21.50	21.24	21.17	21.16		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	18625	18900
1852.5MHz						1880.0MHz	1907.5MHz
5MHz	QPSK	1	0	23.50	23.33	23.20	22.98
			13	23.50	23.34	23.29	23.04
			24	23.50	23.20	23.18	22.98
		12	0	22.50	22.24	22.26	22.11
			6	22.50	22.32	22.33	22.17
			13	22.50	22.28	22.27	22.12
	16QAM	25	0	22.50	22.31	22.27	22.13
		1	0	23.00	22.81	22.65	22.38
			13	23.00	22.81	22.67	22.43
			24	23.00	22.69	22.58	22.34
		12	0	21.50	21.25	21.24	21.17
			6	21.50	21.32	21.29	21.22
13	21.50		21.35	21.24	21.14		
25	0	21.50	21.30	21.33	21.12		

LTE-FDD Band 2				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18650 1855.0MHz	18900 1880.0MHz	19150 1905.0MHz
10MHz	QPSK	1	0	23.50	23.38	23.37	23.24
			25	23.50	23.29	23.33	23.23
			49	23.50	23.21	23.25	23.28
		25	0	22.50	22.22	22.30	22.11
			13	22.50	22.30	22.32	22.14
			25	22.50	22.22	22.26	22.08
	16QAM	50	0	22.50	22.27	22.31	22.13
			0	23.00	22.82	22.57	22.05
			25	23.00	22.72	22.56	22.00
		1	49	23.00	22.68	22.47	22.02
			0	21.50	21.29	21.32	21.12
			13	21.50	21.39	21.38	21.20
15MHz	QPSK	25	25	21.50	21.37	21.32	21.12
			0	21.50	21.26	21.36	21.12
		50	0	21.50	21.26	21.36	21.12
	16QAM	1	0	23.50	23.41	23.35	23.18
			38	23.50	23.32	23.38	23.28
			74	23.50	23.27	23.14	23.27
	16QAM	36	0	22.50	22.29	22.32	22.11
			18	22.50	22.34	22.37	22.20
			39	22.50	22.29	22.26	22.15
	16QAM	75	0	22.50	22.33	22.34	22.21
			0	23.00	22.75	22.51	22.21
			38	23.00	22.70	22.55	22.28
20MHz	QPSK	1	74	23.00	22.65	22.33	22.21
			0	21.50	21.32	21.43	21.12
			18	21.50	21.37	21.42	21.17
	16QAM	36	39	21.50	21.34	21.34	21.12
			0	21.50	21.30	21.34	21.19
			75	21.50	21.30	21.34	21.19
20MHz	QPSK	1	0	24.00	23.88	23.87	23.64
			50	24.00	23.45	23.53	23.30
			99	23.50	23.25	23.18	23.16
	16QAM	50	0	22.50	22.24	22.32	22.13
			25	22.50	22.36	22.42	22.20
			50	22.50	22.30	22.26	22.09
20MHz	16QAM	100	0	22.50	22.25	22.27	22.11
			0	23.50	23.05	23.00	22.83
			50	23.00	22.67	22.71	22.51
	16QAM	1	99	23.00	22.58	22.28	22.33
			0	21.50	21.28	21.33	21.19
			25	21.50	21.45	21.42	21.27
20MHz	16QAM	50	50	21.50	21.39	21.27	21.14
			0	21.50	21.30	21.30	21.16
	16QAM	100	0	21.50	21.30	21.30	21.16
			0	21.50	21.30	21.30	21.16
			0	21.50	21.30	21.30	21.16
			0	21.50	21.30	21.30	21.16

11.1.4 Conducted Power of LTE Band 4

LTE-FDD Band 4					Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19957	20175	20393
					1710.7MHz	1732.5MHz	1754.3MHz
1.4MHz	QPSK	1	0	24.00	24.00	23.19	23.33
			2	24.50	24.12	23.31	23.42
			5	24.00	24.00	23.19	23.31
		3	0	24.00	23.97	23.38	23.38
			2	24.00	24.00	23.40	23.42
			3	24.00	23.95	23.37	23.34
	16QAM	6	0	23.50	23.08	22.35	22.43
			0	23.00	22.99	22.44	22.11
			2	23.50	23.01	22.46	22.18
		3	5	23.00	22.94	22.43	22.11
			0	23.50	23.02	22.55	22.49
			2	23.00	22.93	22.62	22.54
3MHz	QPSK	1	3	23.00	22.63	22.58	22.50
			0	22.00	21.68	21.57	21.62
			0	23.50	23.27	23.11	23.21
		8	7	23.50	23.33	23.19	23.29
			14	23.50	23.18	23.10	23.25
			0	22.50	22.43	22.31	22.37
		15	4	22.50	22.49	22.37	22.43
			7	22.50	22.45	22.37	22.36
			0	22.50	22.46	22.33	22.39
	16QAM	1	0	23.00	22.65	22.30	22.04
			7	23.00	22.65	22.43	22.09
			14	23.00	22.54	22.32	21.97
		8	0	21.50	21.47	21.38	21.34
			4	22.00	21.55	21.43	21.39
			7	21.50	21.44	21.35	21.37
		15	0	21.50	21.47	21.32	21.48
			0	23.50	23.27	23.11	23.21
			7	23.50	23.33	23.19	23.29
5MHz	QPSK	1	14	23.50	23.18	23.10	23.25
			0	22.50	22.43	22.31	22.37
			4	22.50	22.49	22.37	22.43
		12	7	22.50	22.45	22.37	22.36
			0	22.50	22.46	22.33	22.39
			0	23.00	22.65	22.30	22.04
		25	7	23.00	22.65	22.43	22.09
			14	23.00	22.54	22.32	21.97
			0	21.50	21.47	21.38	21.34
		1	4	22.00	21.55	21.43	21.39
			7	21.50	21.44	21.35	21.37
			0	21.50	21.47	21.32	21.48
	16QAM	1	0	24.00	23.54	23.36	23.40
			13	24.00	23.52	23.46	23.42
			24	23.50	23.38	23.38	23.30
		12	0	22.50	22.49	22.37	22.44
			6	23.00	22.53	22.46	22.51
			13	22.50	22.45	22.41	22.46
		25	0	22.50	22.47	22.44	22.46
			0	23.00	22.94	22.69	22.66
			13	23.00	22.95	22.78	22.74
		1	24	23.00	22.83	22.70	22.61
			0	21.50	21.49	21.37	21.49
			6	22.00	21.50	21.43	21.57
1.4MHz	QPSK	1	13	21.50	21.38	21.38	21.45
			0	21.50	21.45	21.48	21.48
			0	21.50	21.45	21.48	21.48
		12	0	21.50	21.45	21.48	21.48
			6	22.00	21.50	21.43	21.57
			13	21.50	21.38	21.38	21.45
	16QAM	1	0	21.50	21.45	21.48	21.48
			6	22.00	21.50	21.43	21.57
			13	21.50	21.38	21.38	21.45
		12	0	21.50	21.45	21.48	21.48
			6	22.00	21.50	21.43	21.57
			13	21.50	21.38	21.38	21.45

LTE-FDD Band 4				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20000 1715.0MHz	20175 1732.5MHz	20350 1750.0MHz
10MHz	QPSK	1	0	24.00	23.61	23.44	23.63
			25	24.00	23.54	23.45	23.66
			49	24.00	23.46	23.43	23.54
		25	0	22.50	22.45	22.43	22.50
			13	23.00	22.51	22.51	22.55
			25	22.50	22.41	22.41	22.42
	16QAM	50	0	23.00	22.47	22.47	22.52
			0	23.00	22.95	22.61	22.39
			25	23.00	22.84	22.63	22.38
		1	49	23.00	22.80	22.55	22.28
			0	22.00	21.49	21.45	21.52
			13	22.00	21.50	21.53	21.59
15MHz	QPSK	25	25	21.50	21.49	21.44	21.48
			0	22.00	21.46	21.52	21.51
			0	22.00	21.46	21.52	21.51
	16QAM	50	0	22.00	21.46	21.52	21.51
			0	22.00	21.46	21.52	21.51
			0	22.00	21.46	21.52	21.51
20MHz	QPSK	1	0	24.00	23.57	23.43	23.62
			38	24.00	23.47	23.48	23.70
			74	23.50	23.38	23.36	23.50
		36	0	23.00	22.51	22.45	22.56
			18	23.00	22.50	22.51	22.62
			39	23.00	22.43	22.50	22.58
	16QAM	75	0	23.00	22.53	22.50	22.58
			0	23.00	22.86	22.57	22.59
			38	23.00	22.81	22.65	22.66
		36	74	23.00	22.74	22.54	22.44
			0	22.00	21.51	21.53	21.50
			18	22.00	21.48	21.58	21.59
25MHz	QPSK	39	39	22.00	21.42	21.54	21.53
			0	22.00	21.47	21.47	21.57
			0	22.00	21.47	21.47	21.57
	16QAM	75	0	22.00	21.47	21.47	21.57
			0	22.00	21.47	21.47	21.57
			0	22.00	21.47	21.47	21.57
30MHz	QPSK	1	0	24.50	24.04	23.95	23.97
			50	24.00	23.55	23.59	23.68
			99	23.50	23.38	23.46	23.40
		50	0	22.50	22.40	22.45	22.50
			25	23.00	22.51	22.54	22.60
			50	23.00	22.42	22.50	22.52
	16QAM	100	0	22.50	22.40	22.44	22.50
			0	23.50	23.16	23.02	23.13
			50	23.00	22.80	22.74	22.85
		50	99	23.00	22.62	22.58	22.52
			0	22.00	21.48	21.46	21.60
			25	22.00	21.52	21.54	21.63
35MHz	QPSK	50	50	22.00	21.49	21.47	21.61
			0	22.00	21.44	21.44	21.56
			0	22.00	21.44	21.44	21.56
	16QAM	100	0	22.00	21.44	21.44	21.56
			0	22.00	21.44	21.44	21.56
			0	22.00	21.44	21.44	21.56

11.1.5 Conducted Power of LTE Band 5

LTE-FDD Band 5				Maximum Tune- up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		20407	20525	20643	
					824.7MHz	836.5MHz	848.3MHz	
1.4MHz	QPSK	1	0	24.50	24.38	24.23	23.50	
			2	24.50	24.42	24.30	23.60	
			5	24.50	24.33	24.21	23.49	
		3	0	24.50	24.46	24.26	23.47	
			2	25.00	24.50	24.34	23.55	
			3	24.50	24.44	24.23	23.51	
	16QAM	6	0	23.50	23.45	23.33	22.58	
			1	0	24.00	23.52	23.00	22.60
				2	24.00	23.58	23.07	22.60
		3		5	24.00	23.58	23.01	22.56
			3	0	24.00	23.66	23.32	22.70
				2	24.00	23.70	23.08	22.73
3	24.00	23.67		23.04	22.67			
6	0	23.00	22.64	22.16	21.75			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	20415	20525	20635	
					825.5MHz	836.5MHz	847.5MHz	
3MHz	QPSK	1	0	24.00	23.70	23.58	23.36	
			7	24.00	23.76	23.58	23.45	
			14	24.00	23.70	23.50	23.42	
		8	0	23.00	22.84	22.71	22.54	
			4	23.00	22.94	22.78	22.59	
			7	23.00	22.92	22.74	22.51	
	16QAM	15	0	23.00	22.89	22.72	22.53	
			1	0	23.50	23.14	22.74	22.23
				7	23.50	23.21	22.77	22.28
		8		14	23.50	23.15	22.69	22.17
			0	22.00	21.97	21.77	21.58	
			4	22.50	22.01	21.88	21.58	
7	22.00	22.00	21.74	21.55				
15	0	22.00	21.91	21.77	21.66			

LTE-FDD Band 5				Maximum Tune- up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		20425	20525	20625	
					826.5MHz	836.5MHz	846.5MHz	
5MHz	QPSK	1	0	24.00	23.96	23.85	23.58	
			13	24.50	24.01	23.85	23.57	
			24	24.00	23.99	23.75	23.50	
		12	0	23.00	22.94	22.78	22.60	
			6	23.50	23.04	22.82	22.61	
			13	23.50	23.03	22.80	22.56	
	16QAM	25	0	23.00	23.00	22.79	22.59	
			1	0	24.00	23.51	23.14	22.89
				13	24.00	23.55	23.14	22.90
		12		24	23.50	23.50	23.02	22.83
			0	22.00	21.96	21.74	21.70	
			6	22.50	22.03	21.82	21.68	
			13	22.50	22.06	21.77	21.64	
			25	0	22.50	22.03	21.86	21.62
			Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	20450
829.0MHz	836.5MHz	844.0MHz						
10MHz	QPSK	1	0	24.50	24.01	23.95	23.92	
			25	24.50	24.04	23.90	23.82	
			49	24.00	23.92	23.72	23.75	
		25	0	23.00	22.92	22.79	22.71	
			13	23.50	23.02	22.83	22.69	
			25	23.00	22.98	22.75	22.50	
	16QAM	50	0	23.50	23.02	22.83	22.68	
			1	0	23.50	23.43	23.08	22.64
				25	23.50	23.44	23.00	22.57
		25		49	23.50	23.31	22.89	22.49
			0	22.50	22.01	21.84	21.74	
			13	22.50	22.10	21.96	21.75	
			25	22.50	22.05	21.80	21.57	
			50	0	22.50	22.02	21.88	21.69

11.1.6 Conducted Power of LTE Band 7

LTE-FDD Band 7				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20775	21100	21425
					2502.5MHz	2535.0MHz	2567.5MHz
5MHz	QPSK	1	0	23.00	22.38	22.50	22.57
			13	23.00	22.38	22.53	22.62
			24	23.00	22.28	22.47	22.58
		12	0	22.00	21.31	21.47	21.57
			6	22.00	21.36	21.54	21.63
			13	22.00	21.33	21.51	21.59
	16QAM	25	0	22.00	21.32	21.52	21.57
			10	22.00	21.83	21.81	21.80
			13	22.00	21.85	21.84	21.87
		12	24	22.00	21.77	21.78	21.72
			0	21.00	20.35	20.50	20.62
			6	21.00	20.42	20.52	20.71
10MHz	QPSK	1	13	22.00	21.85	21.84	21.87
			24	22.00	21.77	21.78	21.72
			0	21.00	20.35	20.50	20.62
		25	6	21.00	20.42	20.52	20.71
			13	21.00	20.39	20.53	20.63
			25	21.00	20.38	20.59	20.58
	16QAM	1	0	23.00	22.44	22.60	22.76
			25	23.00	22.36	22.58	22.84
			49	23.00	22.39	22.58	22.85
		25	0	22.00	21.38	21.57	21.68
			13	22.00	21.42	21.56	21.71
			25	22.00	21.41	21.61	21.63
16QAM	50	0	22.00	21.42	21.61	21.66	
		0	22.00	21.81	21.73	21.48	
		25	22.00	21.76	21.74	21.51	
	25	49	22.00	21.82	21.76	21.42	
		0	21.00	20.45	20.61	20.71	
		13	21.00	20.50	20.65	20.78	
50	25	21.00	20.49	20.67	20.69		
	0	21.00	20.46	20.66	20.69		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20825	21100	21375
					2057.5MHz	2535.0MHz	2562.5MHz
15MHz	QPSK	1	0	23.00	22.39	22.52	22.66
			38	23.00	22.36	22.54	22.81
			74	23.00	22.40	22.50	22.82
		36	0	22.00	21.37	21.56	21.71
			18	22.00	21.45	21.63	21.79
			39	22.00	21.42	21.62	21.72
	16QAM	1	0	22.00	21.45	21.64	21.78
			38	22.00	21.74	21.69	21.65
			74	22.00	21.78	21.72	21.77
		36	0	21.00	20.44	20.66	20.67
			18	21.00	20.46	20.75	20.71
			39	21.00	20.46	20.70	20.72
20MHz	QPSK	1	0	23.00	21.350	21100	21350
			50	23.00	2560.0MHz	2535.0MHz	2560.0MHz
			99	23.00	22.38	22.53	22.50
		50	0	22.00	22.53	22.73	22.74
			25	22.00	22.40	22.62	22.66
			50	22.00	21.34	21.56	21.67
	16QAM	100	0	22.00	21.44	21.62	21.74
			50	22.00	21.35	21.62	21.67
			0	22.00	21.32	21.58	21.68
		50	0	22.00	21.63	21.69	21.77
			50	22.00	21.80	21.82	21.96
			99	22.00	21.71	21.67	21.68
20MHz	16QAM	50	0	21.00	20.44	20.57	20.77
			25	21.00	20.56	20.64	20.85
			50	21.00	20.48	20.67	20.75
		100	0	21.00	20.42	20.61	20.70

11.1.7 Conducted Power of LTE Band 12

LTE-FDD Band 12				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23017 699.7MHz	23095 707.5MHz	23173 715.5MHz
1.4MHz	QPSK	1	0	24.00	23.92	23.48	23.12
			2	24.50	24.00	23.30	23.19
			5	24.00	23.90	23.20	23.14
		3	0	24.00	23.91	23.23	23.15
			2	24.00	23.92	23.25	23.20
			3	24.00	23.91	23.20	23.16
	16QAM	6	0	23.00	23.00	22.27	22.24
		1	0	23.00	22.97	22.31	21.92
			2	23.50	23.07	22.37	21.99
			5	23.00	22.96	22.35	21.96
		3	0	23.50	23.11	22.50	22.31
			2	23.50	23.16	22.52	22.31
3MHz	QPSK	1	3	23.50	23.08	22.49	22.29
			6	22.50	22.18	21.49	21.40
		8	0	23.50	23.13	23.02	22.95
			7	23.50	23.23	23.03	23.08
			14	23.50	23.08	22.94	23.03
		15	0	22.50	22.37	22.20	22.16
			4	22.50	22.47	22.27	22.24
			7	22.50	22.43	22.22	22.16
	16QAM	1	0	22.50	22.44	22.25	22.15
			0	23.00	22.65	22.20	21.81
			7	23.00	22.74	22.27	21.90
		8	14	23.00	22.55	22.19	21.75
			0	21.50	21.50	21.23	21.13
			4	22.00	21.51	21.36	21.24
		15	7	21.50	21.45	21.22	21.14
			0	21.50	21.46	21.22	21.24

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
5MHz	QPSK	1	0	23.50	23.43	23.28	23.12
			13	23.50	23.45	23.30	23.17
			24	23.50	23.35	23.16	23.10
		12	0	22.50	22.39	22.22	22.20
			6	23.00	22.53	22.33	22.32
			13	22.50	22.38	22.23	22.11
	16QAM	25	0	22.50	22.42	22.29	22.17
			0	23.00	23.00	22.61	22.49
			13	23.50	23.01	22.64	22.54
		1	24	23.00	22.91	22.53	22.40
			0	21.50	21.40	21.20	21.27
			6	21.50	21.49	21.30	21.33
		12	13	21.50	21.39	21.21	21.19
			0	21.50	21.42	21.32	21.19
		25	0	21.50	22.50	23095	23130
			0	24.00	23.96	23.85	23.86
10MHz	QPSK	1	25	23.50	23.34	23.30	23.33
			49	23.50	23.26	23.24	23.30
			0	22.50	22.36	22.19	22.29
		25	13	22.50	22.40	22.31	22.27
			25	22.50	22.39	22.21	22.13
			0	22.50	22.39	22.28	22.22
	16QAM	50	0	23.50	23.37	23.05	22.71
			1	25	23.00	22.79	22.51
			49	23.00	22.73	22.44	22.09
		25	0	21.50	21.45	21.26	21.31
			13	21.50	21.44	21.34	21.33
			25	21.50	21.39	21.22	21.19
		50	0	21.50	21.37	21.33	21.23

11.1.8 Conducted Power of LTE Band 17

LTE-FDD Band 17				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23755 706.5MHz	23790 710.0MHz	23825 713.5MHz
5MHz	QPSK	1	0	24.00	23.97	23.37	23.27
			13	24.50	24.02	23.42	23.34
			24	24.00	23.90	23.33	23.23
		12	0	23.00	22.97	22.47	22.36
			6	23.50	23.04	22.42	22.43
			13	23.00	22.86	22.36	22.31
	16QAM	25	0	23.00	22.83	22.45	22.34
			0	23.50	23.15	22.74	22.66
			13	23.50	23.09	22.74	22.71
		1	24	23.00	22.93	22.67	22.54
			0	21.50	21.45	21.38	21.45
			6	22.00	21.54	21.45	21.44
10MHz	QPSK	12	13	21.50	21.47	21.34	21.34
			0	21.50	21.44	21.48	21.33
			25	21.50	21.44	21.48	21.33
		25	0	24.00	23.49	23.51	23.58
			25	23.50	23.46	23.44	23.48
			49	23.50	23.34	23.35	23.46
		50	0	22.50	22.39	22.42	22.41
			13	23.00	22.51	22.47	22.46
			25	22.50	22.37	22.33	22.28
	16QAM	50	0	22.50	22.38	22.42	22.38
			0	23.00	22.96	22.72	22.41
			25	23.00	22.86	22.63	22.34
		1	49	23.00	22.81	22.56	22.24
			0	21.50	21.49	21.46	21.44
			13	22.00	21.53	21.49	21.46
		25	25	21.50	21.43	21.36	21.32
			0	21.50	21.40	21.44	21.37
			0	21.50	21.40	21.44	21.37

11.1.9 Conducted Power of LTE Band 38

LTE-TDD Band 38				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		37775	38000	38225
					2572.5MHz	2595.0MHz	2617.5MHz
5MHz	QPSK	1	0	23.00	22.60	22.54	22.50
			13	23.00	22.65	22.68	22.58
			24	23.00	22.54	22.55	22.51
		12	0	22.00	21.54	21.52	21.54
			6	22.00	21.59	21.56	21.62
			13	22.00	21.54	21.54	21.55
	16QAM	1	0	22.00	21.55	21.58	21.59
			13	22.50	22.14	21.76	21.78
			24	22.50	22.21	21.86	21.89
		12	0	21.00	22.14	21.74	21.79
			6	21.00	20.60	20.53	20.62
			13	21.00	20.63	20.62	20.68
10MHz	QPSK	1	0	21.00	20.59	20.54	20.63
			25	21.00	20.60	20.65	20.61
			0	23.00	22.64	22.62	22.64
		25	25	23.00	22.60	22.65	22.69
			49	23.00	22.61	22.60	22.72
			0	22.00	21.57	21.56	21.60
	16QAM	25	13	22.00	21.58	21.60	21.61
			25	22.00	21.54	21.59	21.56
			0	22.00	21.60	21.60	21.61
		1	0	22.50	22.11	21.70	21.54
			25	22.50	22.08	21.78	21.52
			49	22.50	22.05	21.69	21.54
	25	0	21.00	20.67	20.63	20.69	
		13	21.00	20.71	20.68	20.67	
	50	25	21.00	20.68	20.66	20.68	
		0	21.00	20.62	20.68	20.68	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37825	38000	38175
					2577.5MHz	2595.0MHz	2612.5MHz
15MHz	QPSK	1	0	23.00	22.56	22.51	22.64
			38	23.00	22.57	22.64	22.74
			74	23.00	22.49	22.51	22.66
		36	0	22.00	21.57	21.57	21.59
			18	22.00	21.58	21.63	21.63
			39	22.00	21.55	21.59	21.60
		75	0	22.00	21.60	21.63	21.64
	16QAM	1	0	22.50	22.05	21.65	21.70
			38	22.50	22.08	21.74	21.82
			74	22.00	21.96	21.64	21.75
		36	0	21.00	20.62	20.67	20.52
			18	21.00	20.65	20.74	20.62
			39	21.00	20.62	20.71	20.59
		75	0	21.00	20.61	20.60	20.65
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	38750	38000	38150
					2580.0MHz	2595.0MHz	2610.0MHz
20MHz	QPSK	1	0	22.50	22.50	22.45	22.49
			50	23.00	22.64	22.77	22.72
			99	23.00	22.49	22.52	22.55
		50	0	22.00	21.55	21.52	21.54
			25	22.00	21.62	21.60	21.59
			50	22.00	21.56	21.57	21.57
		100	0	22.00	21.50	21.51	21.50
	16QAM	1	0	22.00	21.75	21.66	21.61
			50	22.00	21.87	21.86	21.81
			99	22.00	21.69	21.62	21.64
		50	0	21.00	20.68	20.56	20.63
			25	21.00	20.73	20.68	20.72
			50	21.00	20.65	20.59	20.64
		100	0	21.00	20.59	20.55	20.60

11.1.10 Conducted Power of LTE Band 41

LTE-TDD Band 41				Maximum Tune- up(dBm)	Conducted Power(dBm)						
Bandwidth	Modulation	RB allocation	RB offset		40065	40265	40640	41015	41215		
					2537.5MHz	2557.5MHz	2595.0MHz	2632.5MHz	2652.5MHz		
5MHz	QPSK	1	0	23.50	23.09	22.59	23.09	22.63	23.17		
			13	23.50	23.16	22.68	23.20	22.76	23.31		
			24	23.50	23.05	22.55	23.05	22.65	23.24		
		12	0	22.50	22.04	21.58	22.12	21.67	22.22		
			6	22.50	22.11	21.65	22.18	21.71	22.23		
			13	22.50	22.06	21.58	22.09	21.63	22.17		
		25	0	22.50	22.09	21.61	22.12	21.65	22.17		
			16QAM	1	0	23.00	22.31	21.84	22.37	22.02	22.66
					13	23.00	22.39	21.94	22.49	22.13	22.77
	24	23.00			22.26	21.81	22.35	21.99	22.63		
	12	0		21.50	21.00	20.58	21.16	20.69	21.21		
		6		21.50	21.08	20.65	21.21	20.72	21.23		
		13		21.50	21.04	20.60	21.15	20.66	21.16		
	25	0	21.50	21.12	20.64	21.15	20.66	21.16			
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	40090	40290	40640	40990	41190
2540.0MHz							2560.0MHz	2595.0MHz	2630.0MHz	2650.0MHz	
10MHz	QPSK	1	0	23.50	23.09	22.57	23.04	22.47	22.89		
			25	23.50	23.15	22.67	23.19	22.63	23.06		
			49	23.50	23.11	22.63	23.14	22.54	22.93		
		25	0	22.50	22.08	21.58	22.07	21.52	21.97		
			13	22.50	22.14	21.59	22.03	21.40	21.76		
			25	22.50	22.10	21.65	22.20	21.49	21.77		
		50	0	22.50	22.11	21.58	22.05	21.43	21.81		
			1	0	23.00	22.54	21.90	22.25	21.47	21.68	
				25	23.00	22.54	21.84	22.13	21.40	21.67	
	49	23.00		22.59	21.87	22.15	21.42	21.68			
	16QAM	25	0	21.50	21.11	20.41	20.71	20.29	20.86		
			13	21.50	21.17	20.53	20.89	20.37	20.85		
			25	21.50	21.07	20.50	20.93	20.35	20.77		
		50	0	21.50	21.05	20.57	21.08	20.42	20.75		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	40115	40315	40640	40965	41165
					2542.5MHz	2562.5MHz	2595.0MHz	2627.5MHz	2647.5MHz
15MHz	QPSK	1	0	23.00	22.54	22.12	22.69	22.26	22.82
			38	23.00	22.68	22.22	22.75	22.33	22.90
			74	23.00	22.60	22.11	22.62	22.20	22.77
		36	0	22.00	21.56	21.14	21.71	21.26	21.80
			18	22.00	21.62	21.19	21.76	21.28	21.79
			39	22.00	21.66	21.20	21.73	21.21	21.69
		75	0	22.00	21.65	21.21	21.77	21.27	21.77
			0	22.50	22.04	21.43	21.82	21.37	21.91
			38	22.50	22.16	21.52	21.88	21.45	22.01
	16QAM	1	74	22.50	22.06	21.42	21.77	21.31	21.84
			0	21.00	20.65	20.25	20.84	20.32	20.79
			18	21.00	20.71	20.27	20.83	20.30	20.77
		36	39	21.00	20.71	20.27	20.83	20.25	20.66
			75	21.00	20.66	20.22	20.77	20.29	20.81
		75	0	21.00	20.66	20.22	20.77	20.29	20.81
			0	21.00	20.66	20.22	20.77	20.29	20.81
			0	21.00	20.66	20.22	20.77	20.29	20.81
			0	21.00	20.66	20.22	20.77	20.29	20.81
			0	21.00	20.66	20.22	20.77	20.29	20.81
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	40140	40340	40640	40940	41140
					2545.0MHz	2565.0MHz	2595.0MHz	2625.0MHz	2645.0MHz
20MHz	QPSK	1	0	23.00	22.50	22.07	22.63	22.11	22.59
			50	23.00	22.74	22.30	22.85	22.34	22.83
			99	23.00	22.57	22.11	22.64	22.15	22.65
		50	0	22.00	21.57	21.12	21.67	21.22	21.77
			25	22.00	21.69	21.23	21.77	21.28	21.78
			50	22.00	21.69	21.20	21.71	21.18	21.64
		100	0	22.00	21.64	21.16	21.68	21.19	21.70
			0	22.00	21.76	21.27	21.78	21.28	21.78
			50	22.00	21.99	21.49	21.98	21.48	21.97
	16QAM	1	99	22.00	21.82	21.29	21.76	21.24	21.72
			0	21.00	20.66	20.18	20.70	20.31	20.91
			25	21.00	20.80	20.32	20.84	20.36	20.88
		50	50	21.00	20.82	20.29	20.76	20.23	20.70
			100	21.00	20.71	20.22	20.73	20.23	20.72
			0	21.00	20.71	20.22	20.73	20.23	20.72
			0	21.00	20.71	20.22	20.73	20.23	20.72
			0	21.00	20.71	20.22	20.73	20.23	20.72
			0	21.00	20.71	20.22	20.73	20.23	20.72
			0	21.00	20.71	20.22	20.73	20.23	20.72

11.1.11 Conducted Power of LTE Band 66

LTE-FDD Band 66					Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131979 1710.7MHz	132322 1755.0MHz	132665 1779.3MHz
1.4MHz	QPSKc	1	0	24.50	24.19	23.94	24.08
			2	24.50	24.13	24.02	24.16
			5	24.50	24.02	23.92	24.10
		3	0	24.50	24.05	24.07	24.05
			2	24.50	24.07	24.06	23.94
			3	24.50	24.04	24.05	23.64
	16QAM	6	0	23.50	23.11	23.11	22.75
			0	23.50	23.10	23.16	22.30
			2	23.50	23.14	23.20	22.43
		3	5	23.50	23.06	23.15	22.30
			0	23.50	23.23	23.30	22.69
			2	23.50	23.27	23.35	22.71
3MHz	QPSK	1	3	23.50	23.17	23.30	22.68
			0	22.50	22.29	22.32	21.83
		8	0	23.50	23.30	23.32	23.43
			7	24.00	23.34	23.38	23.54
			14	24.00	23.23	23.28	23.52
		15	0	23.00	22.50	22.51	22.55
			4	23.00	22.57	22.58	22.64
			7	23.00	22.54	22.55	22.57
	16QAM	1	0	23.00	22.51	22.57	22.56
			0	23.00	22.75	22.55	22.21
			7	23.00	22.76	22.62	22.26
		8	14	23.00	22.65	22.55	22.18
			0	22.00	21.58	21.54	21.51
			4	22.00	21.61	21.62	21.60
		15	7	22.00	21.52	21.56	21.56
			0	22.00	21.58	21.50	21.61
			0	22.00	21.58	21.50	21.61
5MHz	QPSK	1	0	24.00	23.62	23.60	23.56
			13	24.00	23.61	23.62	23.62
			24	24.00	23.50	23.55	23.56
		12	0	23.00	22.57	22.56	22.62
			6	23.00	22.63	22.64	22.67
			13	23.00	22.55	22.59	22.61
		25	0	23.00	22.54	22.64	22.62
			0	23.50	23.09	22.96	22.85
			13	23.50	23.12	22.99	22.90
	16QAM	1	24	23.00	22.99	22.92	22.80
			0	22.00	21.54	21.56	21.69
			6	22.00	21.61	21.61	21.72
		12	13	22.00	21.53	21.57	21.65
			0	22.00	21.56	21.67	21.64
			0	22.00	21.56	21.67	21.64
		25	0	22.00	21.56	21.67	21.64
			0	22.00	21.56	21.67	21.64
			0	22.00	21.56	21.67	21.64

LTE-FDD Band 66				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		132022 1715.0MHz	132322 1755.0MHz	132622 1775.0MHz
10MHz	QPSK	1	0	24.00	23.70	23.68	23.70
			25	24.00	23.61	23.70	23.78
			49	24.00	23.55	23.63	23.78
		25	0	23.00	22.58	22.58	22.65
			13	23.00	22.60	22.65	22.70
			25	23.00	22.53	22.63	22.62
	16QAM	50	0	23.00	22.59	22.61	22.66
			0	23.50	23.08	22.87	22.45
			25	23.00	22.98	22.86	22.55
		25	49	23.00	22.94	22.78	22.45
			0	22.00	21.60	21.63	21.65
			13	22.00	21.64	21.72	21.73
15MHz	QPSK	1	25	22.00	21.59	21.65	21.64
			0	22.00	21.59	21.65	21.64
			0	22.00	21.59	21.65	21.64
		36	0	23.50	23.02	22.81	22.63
			38	23.00	22.95	22.85	22.77
			74	23.00	22.86	22.69	22.67
		75	0	22.00	21.60	21.72	21.57
			18	22.00	21.58	21.72	21.69
			39	22.00	21.53	21.69	21.67
	16QAM	1	0	22.00	21.57	21.66	21.72
			0	23.50	23.02	22.81	22.63
			38	23.00	22.95	22.85	22.77
		36	74	23.00	22.86	22.69	22.67
			0	22.00	21.60	21.72	21.57
			18	22.00	21.58	21.72	21.69
		75	39	22.00	21.53	21.69	21.67
			0	22.00	21.57	21.66	21.72
			0	22.00	21.57	21.66	21.72
20MHz	QPSK	1	0	24.00	23.59	23.64	23.43
			50	24.00	23.64	23.82	23.69
			99	24.00	23.48	23.58	23.59
		50	0	23.00	22.51	22.60	22.60
			25	23.00	22.58	22.66	22.68
			50	23.00	22.47	22.63	22.63
		100	0	23.00	22.51	22.60	22.55
			0	23.00	22.86	22.83	22.68
			0	23.00	22.93	22.94	22.91
	16 QAM	1	50	23.00	22.77	22.68	22.73
			99	23.00	22.77	22.68	22.73
			0	22.00	21.56	21.64	21.66
		50	25	22.00	21.63	21.69	21.75
			50	22.00	21.55	21.61	21.65
			0	22.00	21.53	21.64	21.57
		100	0	22.00	21.53	21.64	21.57
			0	22.00	21.53	21.64	21.57
			0	22.00	21.53	21.64	21.57

11.1.12 Conducted Power of Wi-Fi 2.4G

Mode	802.11b		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	19.88	20.16	19.56
Mode	802.11g		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	22.02	22.51	22.10
Mode	802.11n(HT20)		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	22.48	22.80	22.52
Mode	802.11n(HT40)		
Channel/Frequency(MHz)	3(2422)	6(2437)	9(2452)
	26.96	27.14	26.88

11.1.13 Conducted Power of Wi-Fi 5G

Band	Mode	Channel	Frequency(MHz)	Tune-up	Average Power(dBm)	SAR Test(Yes/No)
U-NII-1 (5150-5250)	802.11a	36	5180	14.50±1.0	14.44	No
		48	5240	15.00±1.0	14.87	No
	802.11n-HT20	36	5180	16.50±1.0	16.35	No
		48	5240	16.50±1.0	16.46	No
	802.11n-HT40	38	5190	16.00±1.0	15.90	No
		46	5230	16.50±1.0	16.10	No
	802.11ac-VHT20	36	5180	16.50±1.0	16.44	No
		48	5240	17.00±1.0	16.82	Yes
	802.11ac-VHT40	38	5190	15.00±1.0	14.67	No
		46	5230	14.50±1.0	14.28	No
U-NII-2a (5250-5350)	802.11a	42	5210	14.00±1.0	13.71	No
		52	5260	15.00±1.0	14.89	No
	802.11n-HT20	64	5320	15.00±1.0	14.60	No
		52	5260	16.50±1.0	16.43	No
	802.11n-HT40	64	5320	16.50±1.0	16.23	No
		54	5270	16.00±1.0	15.87	No
	802.11ac-VHT20	62	5310	16.00±1.0	15.80	No
		52	5260	17.00±1.0	16.76	Yes
	802.11ac-VHT40	64	5320	17.00±1.0	16.57	No
		54	5270	14.50±1.0	14.20	No
U-NII-2c (5470-5725)	802.11a	62	5310	14.50±1.0	14.05	No
		58	5290	13.50±1.0	13.43	No
	802.11n-HT20	100	5500	15.00±1.0	14.77	No
		140	5700	15.00±1.0	14.76	No
	802.11n-HT40	100	5500	16.00±1.0	15.99	No
		140	5700	16.50±1.0	16.10	No
	802.11ac-VHT20	102	5510	15.50±1.0	15.02	No
		134	5670	15.50±1.0	15.38	No
	802.11ac-VHT40	100	5500	17.00±1.0	16.56	Yes
		140	5700	16.50±1.0	16.12	No
U-NII-3 (5725-5825)	802.11a	102	5510	13.50±1.0	13.37	No
		134	5670	14.00±1.0	13.69	No
	802.11ac-VHT40	106	5530	13.00±1.0	12.84	No
		122	5610	13.50±1.0	13.07	No
	802.11n-HT20	149	5745	15.50±1.0	15.28	No
		165	5825	15.50±1.0	15.48	No
	802.11n-HT40	149	5745	16.50±1.0	16.44	No
		165	5825	17.00±1.0	16.67	No
	802.11ac-VHT20	151	5755	16.00±1.0	15.55	No
		159	5795	16.00±1.0	15.86	No
U-NII-3 (5725-5825)	802.11ac-VHT40	149	5745	17.50±1.0	17.01	No
		165	5825	17.50±1.0	17.27	Yes
	802.11ac-VHT80	151	5755	14.50±1.0	14.01	No
		159	5795	14.50±1.0	14.36	No
	802.11ac-VHT80	155	5775	13.50±1.0	13.33	No
	802.11a	149	5745	15.50±1.0	15.28	No
		165	5825	15.50±1.0	15.48	No
	802.11n-HT20	149	5745	16.50±1.0	16.44	No
		165	5825	17.00±1.0	16.67	No
	802.11n-HT40	151	5755	16.00±1.0	15.55	No
		159	5795	16.00±1.0	15.86	No
	802.11ac-VHT20	149	5745	17.50±1.0	17.01	No
		165	5825	17.50±1.0	17.27	Yes
	802.11ac-VHT40	151	5755	14.50±1.0	14.01	No
		159	5795	14.50±1.0	14.36	No
	802.11ac-VHT80	155	5775	13.50±1.0	13.33	No

11.1.14 Conducted Power of BT

EDR	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	12.00	9.62	9.93	11.87
	$\pi/4$ QPSK	12.00	8.64	10.03	11.88
	8DPSK	12.00	8.62	10.02	11.84
BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	19	39
			2402MHz	2440MHz	2480MHz
	1Mbps	2.00	0.44	1.59	1.72
	2Mbps	2.00	0.22	1.21	1.46

Note

- Per KDB 447498 D04 Interim General RF Exposure Guidance v01, the 1-g SAR test exclusion thresholds for 300 MHz to 6 GHz at test separation distances ≤ 40 cm are determined by:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

*When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine estimated SAR.

- Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
- The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

11.1.15 Tune-up power tolerance

Band	Tune-up power tolerance(dBm)		
GSM850	GSM/GPRS (GMSK)	GSM	Max output power =34.50 ±1.0dBm
		1TXslots	Max output power =35.00 ±1.0dBm
		2TXslots	Max output power =34.00 ±1.0dBm
		3TXslots	Max output power =32.00 ±1.0dBm
	EGPRS (8-PSK)	4TXslots	Max output power =30.50 ±1.0dBm
		1TXslots	Max output power =35.00 ±1.0dBm
		2TXslots	Max output power =34.00 ±1.0dBm
		3TXslots	Max output power =31.50 ±1.0dBm
GSM1900	GSM/GPRS (GMSK)	4TXslots	Max output power =30.50 ±1.0dBm
		GSM	Max output power =32.50 ±1.0dBm
		1TXslots	Max output power =32.50 ±1.0dBm
		2TXslots	Max output power =31.50 ±1.0dBm
	EGPRS (8-PSK)	3TXslots	Max output power =29.00 ±1.0dBm
		4TXslots	Max output power =28.00 ±1.0dBm
		1TXslots	Max output power =28.50 ±1.0dBm
		2TXslots	Max output power =28.00 ±1.0dBm
WCDMA 2	Max output power =25.50±1.0dBm		
WCDMA 4	Max output power =25.50±1.0dBm		
WCDMA 5	Max output power =25.50±1.0dBm		
LTE B2	Max output power =24.00±1.0dBm		
LTE B4	Max output power =24.50±1.0dBm		
LTE B5	Max output power =25.00±1.0dBm		
LTE B7	Max output power =23.00±1.0dBm		
LTE B12	Max output power =24.50±1.0dBm		
LTE B17	Max output power =24.50±1.0dBm		
LTE B38	Max output power =23.00±1.0dBm		
LTE B41	Max output power =23.50±1.0dBm		
LTE B66	Max output power =24.50±1.0dBm		
2.4G WIFI	802.11b	Max output power =20.50±1.0dBm	
	802.11g	Max output power =23.00±1.0dBm	
	802.11n (HT20)	Max output power =23.00±1.0dBm	
	802.11n (HT40)	Max output power =27.50±1.0dBm	
5G WIFI	802.11ac-VHT20	Max output power =17.00±1.0dBm	
	802.11ac-VHT20	Max output power =17.00±1.0dBm	
	802.11ac-VHT20	Max output power =17.00±1.0dBm	
	802.11ac-VHT20	Max output power =17.50±1.0dBm	
BT	GFSK mode	Max output power =12.00±1.0dBm	
	π/4DQPSK mode	Max output power =12.00±1.0dBm	
	8DPSK mode	Max output power =12.00±1.0dBm	
BLE	1Mbps Power	Max output power =2.00±1.0dBm	
	2Mbps Power	Max output power =2.00±1.0dBm	

11.2 SAR test results

Notes:

- 1) Per KDB447498 ,the SAR test shall be performed at the high, middle and low frequency channels of each operating mode. If the scaled SAR measured at mid-band channel for each test configuration is at least 3.0 dB lower than the SAR limit ($< 0.8 \text{ W/kg}$), testing at the high and low channels is optional.
- 2) Per KDB447498 , testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is: $\leq 0.8 \text{ W/kg}$ or 2.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\leq 100 \text{ MHz}$. When the maximum output power variation across the required test channels is $> \frac{1}{2} \text{ dB}$, instead of the middle channel, the highest output power channel must be used.
- 3) Per KDB447498 , All measurement SAR result is scaled-up to account for tune-up tolerance is compliant.
- 4) Per KDB648474 D04v01r02, body-worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn with headset SAR.
- 5) Per KDB248227 D01v01r02, the procedures required to establish specific device operating configurations for testing the SAR of 802.11 a/b/g transmitters.
 - (1) For Headsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is $\leq 0.4 \text{ W/kg}$, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is $\leq 0.8 \text{ W/kg}$ or all test positions are measured.
 - (2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is $\leq 0.8 \text{ W/kg}$, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is $\leq 1.2 \text{ W/kg}$.

(3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.

6) Per KDB865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/Kg; if the deviation among the repeated measurement is $\leq 20\%$, and the measured SAR < 1.45 W/Kg, only one repeated measurement is required.

7) Per KDB865664 D02v01r01, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; Plots are also required when the measured SAR is > 1.5 W/kg, or > 7.0 W/kg for occupational exposure. The published RF exposure KDB procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan post-processing (Refer to appendix B for details).

8) Per KDB941225 D06v01r01, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

9) Per KDB 941225 D01, 3G SAR Measurement 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 $\leq 1/4$ 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.

10) Per KDB 941225 D05, SAR Evaluation Considerations for LTE Devices

(1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among 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; 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 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 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.

(3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> 1/2$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is $> 1/2$ 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.

11.3 Test Result

11.3.1 Results overview of GSM

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GSM 850 (voice)	Left Cheek	128	824.2	0.190	0.814	100	1.00	34.54	35.00	1.112	0.905
	Left Tilt	128	824.2	0.190	0.236	100	1.00	34.54	35.00	1.112	0.262
	Right Cheek	128	824.2	0.190	0.645	100	1.00	34.54	35.00	1.112	0.717
	Right Tilt	128	824.2	0.060	0.214	100	1.00	34.54	35.00	1.112	0.238
	Left Cheek	128	824.2	0.010	0.806	100	1.00	34.54	35.00	1.112	0.896
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GPRS 850+4slots	Front	128	824.2	0.080	0.438	100	1.00	34.54	35.00	1.112	0.487
	Back	128	824.2	-0.130	0.561	100	1.00	34.54	35.00	1.112	0.624
	Left	128	824.2	0.100	0.675	100	1.00	34.54	35.00	1.112	0.750
	right	128	824.2	0.180	0.112	100	1.00	34.54	35.00	1.112	0.125
	Top	128	824.2	0.010	0.191	100	1.00	34.54	35.00	1.112	0.212
	Bottom	128	824.2	-0.170	0.100	100	1.00	34.54	35.00	1.112	0.111

Band	Ch.	EUT Position	Measure SAR(W/kg)		
			Original	Repeated	SAR ratio
GPRS 850+4slots	128	Left Cheek	0.814	0.806	1.01

Note: the ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , so second repeated measurement is not required.

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GSM 1900 (voice)	Left Cheek	661	1880	0.010	0.163	100	1.00	32.13	32.50	1.089	0.177
	Left Tilt	661	1880	-0.060	0.233	100	1.00	32.13	32.50	1.089	0.254
	Right Cheek	661	1880	0.150	0.197	100	1.00	32.13	32.50	1.089	0.215
	Right Tilt	661	1880	0.190	0.356	100	1.00	32.13	32.50	1.089	0.388
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GPRS 1900+4slots	Front	661	1880	0.070	0.537	100	1.00	32.13	32.50	1.089	0.585
	Back	661	1880	-0.110	0.934	100	1.00	32.13	32.50	1.089	1.017
	Left	661	1880	0.020	0.333	100	1.00	32.13	32.50	1.089	0.363
	right	661	1880	-0.010	0.121	100	1.00	32.13	32.50	1.089	0.132
	Top	661	1880	0.000	0.953	100	1.00	32.13	32.50	1.089	1.038
	Bottom	661	1880	0.050	0.024	100	1.00	32.13	32.50	1.089	0.026
	Top	661	1880	0.050	0.937	100	1.00	32.13	32.50	1.089	1.020

Band	Ch.	EUT Position	Measure SAR(W/kg)		
			Original	Repeated	SAR ratio
GPRS 1900+4slots	661	Top side	0.953	0.937	1.02

Note: the ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , so second repeated measurement is not required.

11.3.2 Results overview of WCDMA

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 2 (RMC*)	Left Cheek	9538	1907.6	-0.110	0.234	100	1.00	25.33	25.50	1.040	0.243
	Left Tilt	9538	1907.6	0.080	0.326	100	1.00	25.33	25.50	1.040	0.339
	Right Cheek	9538	1907.6	0.130	0.392	100	1.00	25.33	25.50	1.040	0.408
	Right Tilt	9538	1907.6	0.190	0.490	100	1.00	25.33	25.50	1.040	0.510
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 2 (RMC*)	Front	9538	1907.6	-0.090	0.063	100	1.00	25.33	25.50	1.040	0.066
	Back	9538	1907.6	0.030	0.115	100	1.00	25.33	25.50	1.040	0.120
	Left	9538	1907.6	0.010	0.026	100	1.00	25.33	25.50	1.040	0.027
	right	9538	1907.6	0.120	0.012	100	1.00	25.33	25.50	1.040	0.012
	Top	9538	1907.6	-0.180	0.083	100	1.00	25.33	25.50	1.040	0.086
	Bottom	9538	1907.6	0.140	0.002	100	1.00	25.33	25.50	1.040	0.002

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 4 (RMC*)	Left Cheek	1312	1712.4	0.050	0.172	100	1.00	25.49	25.50	1.002	0.172
	Left Tilt	1312	1712.4	0.110	0.302	100	1.00	25.49	25.50	1.002	0.303
	Right Cheek	1312	1712.4	0.130	0.258	100	1.00	25.49	25.50	1.002	0.259
	Right Tilt	1312	1712.4	0.190	0.510	100	1.00	25.49	25.50	1.002	0.511
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 4 (RMC*)	Front	1312	1712.4	-0.130	0.141	100	1.00	25.49	25.50	1.002	0.141
	Back	1312	1712.4	-0.100	0.226	100	1.00	25.49	25.50	1.002	0.227
	Left	1312	1712.4	-0.050	0.040	100	1.00	25.49	25.50	1.002	0.040
	right	1312	1712.4	0.020	0.017	100	1.00	25.49	25.50	1.002	0.017
	Top	1312	1712.4	0.110	0.128	100	1.00	25.49	25.50	1.002	0.128
	Bottom	1312	1712.4	-0.010	0.003	100	1.00	25.49	25.50	1.002	0.003

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 5 (RMC*)	Left Cheek	4132	826.4	0.190	1.050	100	1.00	25.30	25.50	1.047	1.099
	Left Tilt	4132	826.4	0.180	0.305	100	1.00	25.30	25.50	1.047	0.319
	Right Cheek	4132	826.4	0.190	0.759	100	1.00	25.30	25.50	1.047	0.795
	Right Tilt	4132	826.4	0.190	0.270	100	1.00	25.30	25.50	1.047	0.283
	Left Cheek	4132	826.4	0.050	0.988	100	1.00	25.30	25.50	1.047	1.035
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 5 (RMC*)	Front	4132	826.4	0.120	0.311	100	1.00	25.30	25.50	1.047	0.326
	Back	4132	826.4	-0.090	0.348	100	1.00	25.30	25.50	1.047	0.364
	Left	4132	826.4	0.050	0.510	100	1.00	25.30	25.50	1.047	0.534
	right	4132	826.4	-0.110	0.032	100	1.00	25.30	25.50	1.047	0.034
	Top	4132	826.4	0.080	0.127	100	1.00	25.30	25.50	1.047	0.133
	Bottom	4132	826.4	0.150	0.073	100	1.00	25.30	25.50	1.047	0.076

Band	Ch.	EUT Position	Measure SAR(W/kg)		
			Original	Repeated	SAR ratio
WCDMA Band 5	4132	Left Cheek	1.05	0.988	1.06

Note: the ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , so second repeated measurement is not required.

11.3.3 Results overview of LTE

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 2 (BW: 20MHz)	1RB	Left Cheek	18700	1860.0	0.110	0.181	100	1.00	23.88	24.00	1.028	0.186
		Left Tilt	18700	1860.0	0.070	0.334	100	1.00	23.88	24.00	1.028	0.343
		Right Cheek	18700	1860.0	-0.020	0.274	100	1.00	23.88	24.00	1.028	0.282
		Right Tilt	18700	1860.0	0.140	0.452	100	1.00	23.88	24.00	1.028	0.465
	50%RB	Left Cheek	18700	1860.0	0.050	0.172	100	1.00	23.88	24.00	1.028	0.177
		Left Tilt	18700	1860.0	0.130	0.312	100	1.00	23.88	24.00	1.028	0.321
		Right Cheek	18700	1860.0	0.110	0.253	100	1.00	23.88	24.00	1.028	0.260
		Right Tilt	18700	1860.0	0.180	0.431	100	1.00	23.88	24.00	1.028	0.443
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 2 (BW: 20MHz)	1RB	Front	18700	1860.0	0.110	0.083	100	1.00	23.88	24.00	1.028	0.085
		Back	18700	1860.0	-0.010	0.108	100	1.00	23.88	24.00	1.028	0.111
		Left	18700	1860.0	-0.080	0.024	100	1.00	23.88	24.00	1.028	0.025
		right	18700	1860.0	0.130	0.015	100	1.00	23.88	24.00	1.028	0.015
		Top	18700	1860.0	-0.010	0.083	100	1.00	23.88	24.00	1.028	0.085
		Bottom	18700	1860.0	0.040	0.003	100	1.00	23.88	24.00	1.028	0.003
	50%RB	Front	18700	1860.0	0.020	0.079	100	1.00	23.88	24.00	1.028	0.081
		Back	18700	1860.0	0.110	0.097	100	1.00	23.88	24.00	1.028	0.100
		Left	18700	1860.0	-0.030	0.021	100	1.00	23.88	24.00	1.028	0.022
		right	18700	1860.0	-0.170	0.014	100	1.00	23.88	24.00	1.028	0.014
		Top	18700	1860.0	0.070	0.080	100	1.00	23.88	24.00	1.028	0.082
		Bottom	18700	1860.0	0.160	0.002	100	1.00	23.88	24.00	1.028	0.002

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 4 (BW: 20MHz)	1RB	Left Cheek	19957	1710.7	0.010	0.083	100	1.00	24.12	24.50	1.091	0.091
		Left Tilt	19957	1710.7	0.000	0.134	100	1.00	24.12	24.50	1.091	0.146
		Right Cheek	19957	1710.7	-0.110	0.120	100	1.00	24.12	24.50	1.091	0.131
		Right Tilt	19957	1710.7	-0.190	0.201	100	1.00	24.12	24.50	1.091	0.219
	50%RB	Left Cheek	19957	1710.7	0.170	0.079	100	1.00	24.12	24.50	1.091	0.086
		Left Tilt	19957	1710.7	-0.120	0.124	100	1.00	24.12	24.50	1.091	0.135
		Right Cheek	19957	1710.7	0.030	0.112	100	1.00	24.12	24.50	1.091	0.122
		Right Tilt	19957	1710.7	0.140	0.183	100	1.00	24.12	24.50	1.091	0.200
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 4 (BW: 20MHz)	1RB	Front	19957	1710.7	0.020	0.136	100	1.00	24.12	24.50	1.091	0.148
		Back	19957	1710.7	-0.120	0.197	100	1.00	24.12	24.50	1.091	0.215
		Left	19957	1710.7	-0.080	0.036	100	1.00	24.12	24.50	1.091	0.039
		right	19957	1710.7	0.030	0.017	100	1.00	24.12	24.50	1.091	0.019
		Top	19957	1710.7	-0.120	0.124	100	1.00	24.12	24.50	1.091	0.135
		Bottom	19957	1710.7	0.170	0.004	100	1.00	24.12	24.50	1.091	0.004
	50%RB	Front	19957	1710.7	-0.150	0.122	100	1.00	24.12	24.50	1.091	0.133
		Back	19957	1710.7	0.030	0.174	100	1.00	24.12	24.50	1.091	0.190
		Left	19957	1710.7	0.090	0.027	100	1.00	24.12	24.50	1.091	0.029
		right	19957	1710.7	0.010	0.015	100	1.00	24.12	24.50	1.091	0.016
		Top	19957	1710.7	0.170	0.110	100	1.00	24.12	24.50	1.091	0.120
		Bottom	19957	1710.7	0.040	0.003	100	1.00	24.12	24.50	1.091	0.003

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 5 (BW: 10MHz)	1RB	Left Cheek	20407	824.7	0.190	0.335	100	1.00	24.50	25.00	1.122	0.376
		Left Tilt	20407	824.7	0.190	0.136	100	1.00	24.50	25.00	1.122	0.153
		Right Cheek	20407	824.7	0.190	0.407	100	1.00	24.50	25.00	1.122	0.457
		Right Tilt	20407	824.7	-0.090	0.216	100	1.00	24.50	25.00	1.122	0.242
	50%RB	Left Cheek	20407	824.7	0.030	0.314	100	1.00	24.50	25.00	1.122	0.352
		Left Tilt	20407	824.7	-0.140	0.121	100	1.00	24.50	25.00	1.122	0.136
		Right Cheek	20407	824.7	0.070	0.383	100	1.00	24.50	25.00	1.122	0.430
		Right Tilt	20407	824.7	0.010	0.194	100	1.00	24.50	25.00	1.122	0.218
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 5 (BW: 10MHz)	1RB	Front	20407	824.7	-0.110	0.324	100	1.00	24.50	25.00	1.122	0.364
		Back	20407	824.7	0.020	0.439	100	1.00	24.50	25.00	1.122	0.493
		Left	20407	824.7	0.070	0.094	100	1.00	24.50	25.00	1.122	0.105
		Right	20407	824.7	-0.180	0.005	100	1.00	24.50	25.00	1.122	0.006
		Top	20407	824.7	-0.130	0.002	100	1.00	24.50	25.00	1.122	0.002
		Bottom	20407	824.7	0.070	0.007	100	1.00	24.50	25.00	1.122	0.008
	50%RB	Front	20407	824.7	0.170	0.301	100	1.00	24.50	25.00	1.122	0.338
		Back	20407	824.7	-0.040	0.412	100	1.00	24.50	25.00	1.122	0.462
		Left	20407	824.7	0.130	0.092	100	1.00	24.50	25.00	1.122	0.103
		Right	20407	824.7	-0.120	0.004	100	1.00	24.50	25.00	1.122	0.004
		Top	20407	824.7	0.070	0.002	100	1.00	24.50	25.00	1.122	0.002
		Bottom	20407	824.7	0.140	0.006	100	1.00	24.50	25.00	1.122	0.007

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 7 (BW: 20MHz)	1RB	Left Cheek	24100	2565.0	0.110	0.194	100	1.00	22.85	23.00	1.035	0.201
		Left Tilt	24100	2565.0	-0.080	0.327	100	1.00	22.85	23.00	1.035	0.338
		Right Cheek	24100	2565.0	0.020	0.302	100	1.00	22.85	23.00	1.035	0.313
		Right Tilt	24100	2565.0	0.190	0.626	100	1.00	22.85	23.00	1.035	0.648
	50%RB	Left Cheek	24100	2565.0	-0.120	0.181	100	1.00	22.85	23.00	1.035	0.187
		Left Tilt	24100	2565.0	-0.010	0.304	100	1.00	22.85	23.00	1.035	0.315
		Right Cheek	24100	2565.0	0.010	0.273	100	1.00	22.85	23.00	1.035	0.283
		Right Tilt	24100	2565.0	0.170	0.587	100	1.00	22.85	23.00	1.035	0.608
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 7 (BW: 20MHz)	1RB	Front	24100	2565.0	-0.070	0.141	100	1.00	22.85	23.00	1.035	0.146
		Back	24100	2565.0	0.000	0.172	100	1.00	22.85	23.00	1.035	0.178
		Left	24100	2565.0	0.140	0.032	100	1.00	22.85	23.00	1.035	0.033
		Right	24100	2565.0	0.160	0.011	100	1.00	22.85	23.00	1.035	0.011
		Top	24100	2565.0	0.050	0.091	100	1.00	22.85	23.00	1.035	0.094
		Bottom	24100	2565.0	0.140	0.002	100	1.00	22.85	23.00	1.035	0.002
	50%RB	Front	24100	2565.0	0.020	0.128	100	1.00	22.85	23.00	1.035	0.132
		Back	24100	2565.0	-0.170	0.159	100	1.00	22.85	23.00	1.035	0.165
		Left	24100	2565.0	0.110	0.030	100	1.00	22.85	23.00	1.035	0.031
		Right	24100	2565.0	-0.080	0.009	100	1.00	22.85	23.00	1.035	0.009
		Top	24100	2565.0	0.010	0.087	100	1.00	22.85	23.00	1.035	0.090
		Bottom	24100	2565.0	0.060	0.002	100	1.00	22.85	23.00	1.035	0.002

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 12 (BW: 10MHz)	1RB	Left Cheek	23017	699.7	0.190	0.244	100	1.00	24.00	24.50	1.122	0.274
		Left Tilt	23017	699.7	0.190	0.092	100	1.00	24.00	24.50	1.122	0.103
		Right Cheek	23017	699.7	0.070	0.076	100	1.00	24.00	24.50	1.122	0.085
		Right Tilt	23017	699.7	-0.140	0.043	100	1.00	24.00	24.50	1.122	0.048
	50%RB	Left Cheek	23017	699.7	-0.010	0.220	100	1.00	24.00	24.50	1.122	0.247
		Left Tilt	23017	699.7	0.060	0.081	100	1.00	24.00	24.50	1.122	0.091
		Right Cheek	23017	699.7	0.120	0.071	100	1.00	24.00	24.50	1.122	0.080
		Right Tilt	23017	699.7	0.030	0.039	100	1.00	24.00	24.50	1.122	0.044
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 12 (BW: 10MHz)	1RB	Front	23017	699.7	0.080	0.273	100	1.00	24.00	24.50	1.122	0.306
		Back	23017	699.7	0.090	0.476	100	1.00	24.00	24.50	1.122	0.534
		Left	23017	699.7	0.110	0.057	100	1.00	24.00	24.50	1.122	0.064
		Right	23017	699.7	-0.170	0.005	100	1.00	24.00	24.50	1.122	0.006
		Top	23017	699.7	0.060	0.006	100	1.00	24.00	24.50	1.122	0.007
		Bottom	23017	699.7	0.120	0.003	100	1.00	24.00	24.50	1.122	0.003
	50%RB	Front	23017	699.7	-0.130	0.261	100	1.00	24.00	24.50	1.122	0.293
		Back	23017	699.7	0.060	0.443	100	1.00	24.00	24.50	1.122	0.497
		Left	23017	699.7	0.090	0.053	100	1.00	24.00	24.50	1.122	0.059
		Right	23017	699.7	-0.020	0.005	100	1.00	24.00	24.50	1.122	0.006
		Top	23017	699.7	0.050	0.005	100	1.00	24.00	24.50	1.122	0.006
		Bottom	23017	699.7	0.130	0.003	100	1.00	24.00	24.50	1.122	0.003

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Left Cheek	23755	706.5	0.190	0.092	100	1.00	24.02	24.50	1.117	0.103
		Left Tilt	23755	706.5	0.190	0.039	100	1.00	24.02	24.50	1.117	0.044
		Right Cheek	23755	706.5	-0.190	0.071	100	1.00	24.02	24.50	1.117	0.079
		Right Tilt	23755	706.5	0.070	0.030	100	1.00	24.02	24.50	1.117	0.034
	50%RB	Left Cheek	23755	706.5	0.060	0.087	100	1.00	24.02	24.50	1.117	0.097
		Left Tilt	23755	706.5	-0.050	0.035	100	1.00	24.02	24.50	1.117	0.039
		Right Cheek	23755	706.5	0.160	0.066	100	1.00	24.02	24.50	1.117	0.074
		Right Tilt	23755	706.5	-0.010	0.028	100	1.00	24.02	24.50	1.117	0.031
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Front	23755	706.5	-0.130	0.241	100	1.00	24.02	24.50	1.117	0.269
		Back	23755	706.5	0.070	0.448	100	1.00	24.02	24.50	1.117	0.500
		Left	23755	706.5	0.090	0.047	100	1.00	24.02	24.50	1.117	0.052
		Right	23755	706.5	-0.020	0.004	100	1.00	24.02	24.50	1.117	0.004
		Top	23755	706.5	0.150	0.005	100	1.00	24.02	24.50	1.117	0.006
		Bottom	23755	706.5	0.010	0.002	100	1.00	24.02	24.50	1.117	0.002
	50%RB	Front	23755	706.5	0.010	0.227	100	1.00	24.02	24.50	1.117	0.254
		Back	23755	706.5	0.070	0.415	100	1.00	24.02	24.50	1.117	0.463
		Left	23755	706.5	0.130	0.043	100	1.00	24.02	24.50	1.117	0.048
		Right	23755	706.5	0.080	0.004	100	1.00	24.02	24.50	1.117	0.004
		Top	23755	706.5	-0.120	0.004	100	1.00	24.02	24.50	1.117	0.004
		Bottom	23755	706.5	-0.040	0.002	100	1.00	24.02	24.50	1.117	0.002

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Left Cheek	38000	2580.0	-0.110	0.165	100	1.00	22.77	23.00	1.054	0.174
		Left Tilt	38000	2580.0	0.140	0.307	100	1.00	22.77	23.00	1.054	0.324
		Right Cheek	38000	2580.0	0.050	0.274	100	1.00	22.77	23.00	1.054	0.289
		Right Tilt	38000	2580.0	0.190	0.516	100	1.00	22.77	23.00	1.054	0.544
	50%RB	Left Cheek	38000	2580.0	0.020	0.148	100	1.00	22.77	23.00	1.054	0.156
		Left Tilt	38000	2580.0	-0.070	0.287	100	1.00	22.77	23.00	1.054	0.303
		Right Cheek	38000	2580.0	0.030	0.249	100	1.00	22.77	23.00	1.054	0.263
		Right Tilt	38000	2580.0	0.010	0.474	100	1.00	22.77	23.00	1.054	0.500
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Front	38000	2580.0	-0.140	0.315	100	1.00	22.77	23.00	1.054	0.332
		Back	38000	2580.0	0.060	0.576	100	1.00	22.77	23.00	1.054	0.607
		Left	38000	2580.0	0.010	0.105	100	1.00	22.77	23.00	1.054	0.111
		Right	38000	2580.0	-0.050	0.047	100	1.00	22.77	23.00	1.054	0.050
		Top	38000	2580.0	0.120	0.338	100	1.00	22.77	23.00	1.054	0.356
		Bottom	38000	2580.0	0.060	0.013	100	1.00	22.77	23.00	1.054	0.014
	50%RB	Front	38000	2580.0	0.120	0.297	100	1.00	22.77	23.00	1.054	0.313
		Back	38000	2580.0	0.080	0.549	100	1.00	22.77	23.00	1.054	0.579
		Left	38000	2580.0	-0.020	0.097	100	1.00	22.77	23.00	1.054	0.102
		Right	38000	2580.0	0.180	0.043	100	1.00	22.77	23.00	1.054	0.045
		Top	38000	2580.0	0.090	0.312	100	1.00	22.77	23.00	1.054	0.329
		Bottom	38000	2580.0	0.170	0.011	100	1.00	22.77	23.00	1.054	0.012

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	1RB	Left Cheek	40620	2593.0	0.110	0.139	100	1.00	23.31	23.50	1.045	0.145
		Left Tilt	40620	2593.0	0.040	0.284	100	1.00	23.31	23.50	1.045	0.297
		Right Cheek	40620	2593.0	0.130	0.183	100	1.00	23.31	23.50	1.045	0.191
		Right Tilt	40620	2593.0	-0.140	0.396	100	1.00	23.31	23.50	1.045	0.414
		Left Cheek	39750	2506.0	0.080	0.486	100	1.00	23.31	23.50	1.045	0.508
		Left Cheek	40185	2549.5	-0.110	0.478	100	1.00	23.31	23.50	1.045	0.499
		Left Cheek	41055	2636.5	-0.020	0.476	100	1.00	23.31	23.50	1.045	0.497
		Left Cheek	41490	2680.0	0.190	0.488	100	1.00	23.31	23.50	1.045	0.510
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	1RB	Front	40620	2593.0	0.100	0.304	100	1.00	23.31	23.50	1.045	0.318
		Back	40620	2593.0	0.080	0.548	100	1.00	23.31	23.50	1.045	0.573
		Left	40620	2593.0	-0.030	0.089	100	1.00	23.31	23.50	1.045	0.093
		Right	40620	2593.0	0.130	0.048	100	1.00	23.31	23.50	1.045	0.050
		Top	40620	2593.0	-0.020	0.329	100	1.00	23.31	23.50	1.045	0.344
		Bottom	40620	2593.0	-0.120	0.012	100	1.00	23.31	23.50	1.045	0.013
		Back	39750	2506.0	0.100	0.571	100	1.00	23.31	23.50	1.045	0.597
		Back	40185	2549.5	0.090	0.553	100	1.00	23.31	23.50	1.045	0.578
		Back	41055	2636.5	0.070	0.594	100	1.00	23.31	23.50	1.045	0.621
		Back	41490	2680.0	0.090	0.606	100	1.00	23.31	23.50	1.045	0.633

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	50%RB	Left Cheek	40620	2593.0	-0.010	0.121	100	1.00	23.31	23.50	1.045	0.126
		Left Tilt	40620	2593.0	-0.080	0.273	100	1.00	23.31	23.50	1.045	0.285
		Right Cheek	40620	2593.0	0.110	0.178	100	1.00	23.31	23.50	1.045	0.186
		Right Tilt	40620	2593.0	0.170	0.374	100	1.00	23.31	23.50	1.045	0.391
		Left Cheek	39750	2506.0	0.130	0.453	100	1.00	23.31	23.50	1.045	0.473
		Left Cheek	40185	2549.5	0.020	0.448	100	1.00	23.31	23.50	1.045	0.468
		Left Cheek	41055	2636.5	0.170	0.441	100	1.00	23.31	23.50	1.045	0.461
		Left Cheek	41490	2680.0	-0.090	0.457	100	1.00	23.31	23.50	1.045	0.477
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	50%RB	Front	40620	2593.0	0.160	0.255	100	1.00	23.31	23.50	1.045	0.266
		Back	40620	2593.0	-0.180	0.447	100	1.00	23.31	23.50	1.045	0.467
		Left	40620	2593.0	-0.020	0.074	100	1.00	23.31	23.50	1.045	0.077
		Right	40620	2593.0	-0.130	0.041	100	1.00	23.31	23.50	1.045	0.043
		Top	40620	2593.0	-0.040	0.281	100	1.00	23.31	23.50	1.045	0.294
		Bottom	40620	2593.0	-0.140	0.010	100	1.00	23.31	23.50	1.045	0.010
		Back	39750	2506.0	0.030	0.458	100	1.00	23.31	23.50	1.045	0.478
		Back	40185	2549.5	-0.170	0.453	100	1.00	23.31	23.50	1.045	0.473
		Back	41055	2636.5	-0.110	0.469	100	1.00	23.31	23.50	1.045	0.490
		Back	41490	2680.0	0.070	0.477	100	1.00	23.31	23.50	1.045	0.498

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 66 (BW: 20MHz)	1RB	Left Cheek	131979	1710.7	0.010	0.117	100	1.00	24.19	24.50	1.074	0.126
		Left Tilt	131979	1710.7	0.130	0.261	100	1.00	24.19	24.50	1.074	0.280
		Right Cheek	131979	1710.7	-0.040	0.213	100	1.00	24.19	24.50	1.074	0.229
		Right Tilt	131979	1710.7	0.190	0.436	100	1.00	24.19	24.50	1.074	0.468
	50%RB	Left Cheek	131979	1710.7	-0.170	0.103	100	1.00	24.19	24.50	1.074	0.111
		Left Tilt	131979	1710.7	0.010	0.247	100	1.00	24.19	24.50	1.074	0.265
		Right Cheek	131979	1710.7	0.120	0.196	100	1.00	24.19	24.50	1.074	0.211
Band 66 (BW: 20MHz)	1RB	Right Tilt	131979	1710.7	0.060	0.397	100	1.00	24.19	24.50	1.074	0.426
		Front	131979	1710.7	-0.150	0.117	100	1.00	24.19	24.50	1.074	0.126
		Back	131979	1710.7	-0.020	0.167	100	1.00	24.19	24.50	1.074	0.179
		Left	131979	1710.7	-0.040	0.031	100	1.00	24.19	24.50	1.074	0.033
		Right	131979	1710.7	-0.180	0.015	100	1.00	24.19	24.50	1.074	0.016
		Top	131979	1710.7	0.130	0.103	100	1.00	24.19	24.50	1.074	0.111
		Bottom	131979	1710.7	0.010	0.003	100	1.00	24.19	24.50	1.074	0.003
Band 66 (BW: 20MHz)	50%RB	Front	131979	1710.7	-0.010	0.100	100	1.00	24.19	24.50	1.074	0.107
		Back	131979	1710.7	0.010	0.131	100	1.00	24.19	24.50	1.074	0.141
		Left	131979	1710.7	0.040	0.026	100	1.00	24.19	24.50	1.074	0.028
		Right	131979	1710.7	0.110	0.012	100	1.00	24.19	24.50	1.074	0.013
		Top	131979	1710.7	0.020	0.083	100	1.00	24.19	24.50	1.074	0.089
		Bottom	131979	1710.7	-0.060	0.002	100	1.00	24.19	24.50	1.074	0.002

11.3.4 Results overview of CA

Mode	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
CA 7C (BW: 20MHz)	Left Cheek	21001	21199	0.000	0.132	100	1.00	24.87	25.00	1.030	0.136
	Left Tilt	21001	21199	-0.110	0.223	100	1.00	24.87	25.00	1.030	0.230
	Right Cheek	21001	21199	0.080	0.198	100	1.00	24.87	25.00	1.030	0.204
	Right Tilt	21001	21199	0.040	0.375	100	1.00	24.87	25.00	1.030	0.386
CA 7C (BW: 20MHz)	Front	21001	21199	0.010	0.037	100	1.00	24.87	25.00	1.030	0.038
	Back	21001	21199	-0.060	0.072	100	1.00	24.87	25.00	1.030	0.074
	Left	21001	21199	0.000	0.022	100	1.00	24.87	25.00	1.030	0.023
	Right	21001	21199	-0.010	0.006	100	1.00	24.87	25.00	1.030	0.006
	Top	21001	21199	-0.060	0.082	100	1.00	24.87	25.00	1.030	0.084
	Bottom	21001	21199	0.090	0.002	100	1.00	24.87	25.00	1.030	0.002

Mode	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
CA_38C (BW: 20MHz)	Left Cheek	37901	38099	0.060	0.110	100	1.00	24.63	25.00	1.089	0.120
	Left Tilt	37901	38099	-0.010	0.208	100	1.00	24.63	25.00	1.089	0.226
	Right Cheek	37901	38099	0.150	0.194	100	1.00	24.63	25.00	1.089	0.211
	Right Tilt	37901	38099	-0.080	0.368	100	1.00	24.63	25.00	1.089	0.401
Mode	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
CA_38C (BW: 20MHz)	Front	37901	38099	0.130	0.037	100	1.00	24.63	25.00	1.089	0.040
	Back	37901	38099	-0.060	0.065	100	1.00	24.63	25.00	1.089	0.071
	Left	37901	38099	0.140	0.019	100	1.00	24.63	25.00	1.089	0.021
	Right	37901	38099	0.000	0.004	100	1.00	24.63	25.00	1.089	0.004
	Top	37901	38099	-0.020	0.075	100	1.00	24.63	25.00	1.089	0.082
	Bottom	37901	38099	0.050	0.002	100	1.00	24.63	25.00	1.089	0.002

Mode	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
CA_41C (BW: 20MHz)	Left Cheek	40546	40690	0.120	0.134	100	1.00	24.47	24.50	1.007	0.135
	Left Tilt	40546	40690	-0.020	0.304	100	1.00	24.47	24.50	1.007	0.306
	Right Cheek	40546	40690	0.000	0.184	100	1.00	24.47	24.50	1.007	0.185
	Right Tilt	40546	40690	-0.010	0.438	100	1.00	24.47	24.50	1.007	0.441
Mode	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
CA_41C (BW: 20MHz)	Front	40546	40690	0.000	0.043	100	1.00	24.47	24.50	1.007	0.043
	Back	40546	40690	-0.090	0.079	100	1.00	24.47	24.50	1.007	0.080
	Left	40546	40690	0.110	0.025	100	1.00	24.47	24.50	1.007	0.025
	Right	40546	40690	0.080	0.011	100	1.00	24.47	24.50	1.007	0.011
	Top	40546	40690	-0.010	0.092	100	1.00	24.47	24.50	1.007	0.093
	Bottom	40546	40690	0.040	0.002	100	1.00	24.47	24.50	1.007	0.002

Mode	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
CA_66C (BW: 20MHz)	Left Cheek	132072	132243	-0.030	0.086	100	1.00	25.22	25.50	1.067	0.092
	Left Tilt	132072	132243	0.160	0.217	100	1.00	25.22	25.50	1.067	0.231
	Right Cheek	132072	132243	0.070	0.182	100	1.00	25.22	25.50	1.067	0.194
	Right Tilt	132072	132243	-0.040	0.319	100	1.00	25.22	25.50	1.067	0.340
Mode	Position	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
CA_66C (BW: 20MHz)	Front	132072	132243	0.040	0.026	100	1.00	25.22	25.50	1.067	0.028
	Back	132072	132243	-0.050	0.044	100	1.00	25.22	25.50	1.067	0.047
	Left	132072	132243	0.130	0.019	100	1.00	25.22	25.50	1.067	0.020
	Right	132072	132243	0.000	0.006	100	1.00	25.22	25.50	1.067	0.006
	Top	132072	132243	-0.030	0.073	100	1.00	25.22	25.50	1.067	0.078
	Bottom	132072	132243	0.070	0.002	100	1.00	25.22	25.50	1.067	0.002

11.3.5 Results overview of WIFI&BT

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
2.4g (2.4~2.4835) 802.11n	Left Cheek	6	2437	0.120	0.279	100	1.00	27.14	27.50	1.086	0.303
	Left Tilt	6	2437	-0.090	0.316	100	1.00	27.14	27.50	1.086	0.343
	Right Cheek	6	2437	0.100	0.148	100	1.00	27.14	27.50	1.086	0.161
	Right Tilt	6	2437	0.030	0.167	100	1.00	27.14	27.50	1.086	0.181
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
2.4g (2.4~2.4835) 802.11n	Front	6	2437	0.160	0.129	100	1.00	27.14	27.50	1.086	0.140
	Back	6	2437	-0.170	0.174	100	1.00	27.14	27.50	1.086	0.189
	Left	6	2437	-0.080	0.043	100	1.00	27.14	27.50	1.086	0.047
	Right	6	2437	-0.060	0.077	100	1.00	27.14	27.50	1.086	0.084
	Top	6	2437	0.070	0.204	100	1.00	27.14	27.50	1.086	0.222
	Bottom	6	2437	0.150	0.012	100	1.00	27.14	27.50	1.086	0.013

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band1 5180-5240 802.11ac- VHT20	Left Cheek	48	5240	-0.050	0.084	100	1.00	16.82	17.00	1.042	0.088
	Left Tilt	48	5240	0.190	0.134	100	1.00	16.82	17.00	1.042	0.140
	Right Cheek	48	5240	0.010	0.045	100	1.00	16.82	17.00	1.042	0.047
	Right Tilt	48	5240	-0.070	0.084	100	1.00	16.82	17.00	1.042	0.088
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band1 802.11ac- VHT20	Front	48	5240	0.070	0.122	100	1.00	16.82	17.00	1.042	0.127
	Back	48	5240	-0.150	0.153	100	1.00	16.82	17.00	1.042	0.159
	Left	48	5240	-0.130	0.042	100	1.00	16.82	17.00	1.042	0.044
	Right	48	5240	0.020	0.084	100	1.00	16.82	17.00	1.042	0.088
	Top	48	5240	-0.030	0.189	100	1.00	16.82	17.00	1.042	0.197
	Bottom	48	5240	0.110	0.009	100	1.00	16.82	17.00	1.042	0.009

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band2 5260-5320 802.11ac-VHT20	Left Cheek	52	5260	0.120	0.137	100	1.00	16.76	17.00	1.057	0.145
	Left Tilt	52	5260	0.190	0.172	100	1.00	16.76	17.00	1.057	0.182
	Right Cheek	52	5260	-0.120	0.073	100	1.00	16.76	17.00	1.057	0.077
	Right Tilt	52	5260	0.040	0.094	100	1.00	16.76	17.00	1.057	0.099
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band2 5260-5320 802.11ac-VHT20	Front	52	5260	0.020	0.121	100	1.00	16.76	17.00	1.057	0.128
	Back	52	5260	0.130	0.156	100	1.00	16.76	17.00	1.057	0.165
	Left	52	5260	-0.170	0.037	100	1.00	16.76	17.00	1.057	0.039
	Right	52	5260	0.080	0.088	100	1.00	16.76	17.00	1.057	0.093
	Top	52	5260	-0.130	0.188	100	1.00	16.76	17.00	1.057	0.199
	Bottom	52	5260	0.120	0.010	100	1.00	16.76	17.00	1.057	0.011

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band3 5500-5700 802.11ac-VHT20	Left Cheek	100	5500	0.030	0.106	100	1.00	16.56	17.00	1.107	0.117
	Left Tilt	100	5500	-0.080	0.277	100	1.00	16.56	17.00	1.107	0.307
	Right Cheek	100	5500	0.140	0.083	100	1.00	16.56	17.00	1.107	0.092
	Right Tilt	100	5500	0.080	0.173	100	1.00	16.56	17.00	1.107	0.191
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band3 5500-5700 802.11ac-VHT20	Front	100	5500	-0.100	0.290	100	1.00	16.56	17.00	1.107	0.321
	Back	100	5500	0.050	0.341	100	1.00	16.56	17.00	1.107	0.377
	Left	100	5500	-0.010	0.073	100	1.00	16.56	17.00	1.107	0.081
	Right	100	5500	-0.080	0.237	100	1.00	16.56	17.00	1.107	0.262
	Top	100	5500	-0.040	0.451	100	1.00	16.56	17.00	1.107	0.499
	Bottom	100	5500	0.120	0.015	100	1.00	16.56	17.00	1.107	0.017

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band4 5745-5825 802.11ac- VHT20	Left Cheek	165	5825	0.170	0.101	100	1.00	17.27	17.50	1.054	0.106
	Left Tilt	165	5825	-0.190	0.264	100	1.00	17.27	17.50	1.054	0.278
	Right Cheek	165	5825	0.070	0.063	100	1.00	17.27	17.50	1.054	0.066
	Right Tilt	165	5825	-0.030	0.142	100	1.00	17.27	17.50	1.054	0.150
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band4 5745-5825 802.11ac- VHT20	Front	165	5825	-0.110	0.241	100	1.00	17.27	17.50	1.054	0.254
	Back	165	5825	0.150	0.312	100	1.00	17.27	17.50	1.054	0.329
	Left	165	5825	0.020	0.075	100	1.00	17.27	17.50	1.054	0.079
	Right	165	5825	-0.040	0.178	100	1.00	17.27	17.50	1.054	0.188
	Top	165	5825	0.170	0.376	100	1.00	17.27	17.50	1.054	0.396
	Bottom	165	5825	0.010	0.013	100	1.00	17.27	17.50	1.054	0.014

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Bluetooth	Left Cheek	78	2480	0.190	0.095	100	1.00	11.88	12.00	1.028	0.098
	Left Tilt	78	2480	0.020	0.198	100	1.00	11.88	12.00	1.028	0.204
	Right Cheek	78	2480	0.080	0.053	100	1.00	11.88	12.00	1.028	0.054
	Right Tilt	78	2480	0.190	0.100	100	1.00	11.88	12.00	1.028	0.103
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Bluetooth	Front	78	2480	-0.080	0.021	100	1.00	11.88	12.00	1.028	0.022
	Back	78	2480	-0.110	0.027	100	1.00	11.88	12.00	1.028	0.028
	Left	78	2480	0.020	0.007	100	1.00	11.88	12.00	1.028	0.007
	Right	78	2480	0.040	0.012	100	1.00	11.88	12.00	1.028	0.012
	Top	78	2480	-0.030	0.033	100	1.00	11.88	12.00	1.028	0.034
	Bottom	78	2480	0.050	0.002	100	1.00	11.88	12.00	1.028	0.002

Note:

- 1.The maximum SAR Value of each test band is marked bold.
- 2.SAR plot is provided only for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
- 3.Per KDB 447498 D01 v06, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8\text{W/kg}$, other channels SAR testing is not necessary.
- 4.Per KDB 447498 D01 v06, head/body-worn use is evaluated with the device positioned at 0mm/10 mm from a head/flat phantom respectively filled with head tissue-equivalent medium.
- 5.Per KDB Publication 941225 D06 where SAR test considerations for handsets (L x W $\geq 9\text{ cm} \times 5\text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.
- 6.Per KDB 447498 D01 v06, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor= $10^{[(\text{tune-up limit power(dBm)} - \text{Ave.power power (dBm)})/10]}$, where tune-up limit is the maximum rated power among all production units.
- 7.Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor.

12 Multiple Transmitter Information

The SAR measurement positions of each side are as below:



< Rear Side >

Mode	Front side	Rear side	Left side	Right side	Top side	Bottom side
2G/3G/4G /5G Antenna	Yes	Yes	Yes	Yes	Yes	Yes
Wi-Fi/BT Antenna	Yes	Yes	Yes	Yes	Yes	Yes

- 1) Per KDB941225 D06v01r01, the DUT Dimension is bigger than 9 cm x 5 cm, so 10mm is chosen as the test separation distance for Hotspot mode. When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.

12.1 Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities are as below:

Simultaneous Transmission Possibilities				
Simultaneous Tx Combination	Configuration	Head	Body	Hotspot
1	GSM/GPRS/UMTS/LTE +Wi-Fi	YES	YES	YES
2	GSM/GPRS/UMTS/LTE +BT	YES	YES	YES

Note: The device does not support simultaneous BT and 2.4GWi-Fi ,because the BT and 2.4GWi-Fi share the same antenna and can't transmit simultaneously.

12.1.1 SAR Summation Scenario

Head

Band	Test Position	Scaled SAR			BT SAR 1g(W/kg)	WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	Llimit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	Wi-Fi 5G(Band 3) 1g(W/kg)					
GSM850 (voice)	Left Cheek	0.905	0.303	0.117	0.098	1.208	1.022	1.003	1.6
	Left Tilt	0.262	0.343	0.307	0.204	0.605	0.569	0.466	
	Right Cheek	0.717	0.161	0.092	0.054	0.878	0.809	0.771	
	Right Tilt	0.238	0.181	0.191	0.103	0.419	0.429	0.341	
GSM1900 (voice)	Left Cheek	0.896	0.303	0.117	0.098	1.199	1.013	0.994	
	Left Cheek	0.177	0.303	0.117	0.098	0.480	0.294	0.275	
	Left Tilt	0.254	0.343	0.307	0.204	0.597	0.561	0.458	
	Right Cheek	0.215	0.161	0.092	0.054	0.376	0.307	0.269	
WCDMA Band 2	Right Tilt	0.388	0.181	0.191	0.103	0.569	0.579	0.491	
	Left Cheek	0.243	0.303	0.117	0.098	0.546	0.360	0.341	
	Left Tilt	0.339	0.343	0.307	0.204	0.682	0.646	0.543	
	Right Cheek	0.408	0.161	0.092	0.054	0.569	0.500	0.462	
WCDMA Band 4	Right Tilt	0.510	0.181	0.191	0.103	0.691	0.701	0.613	
	Left Cheek	0.172	0.303	0.117	0.098	0.475	0.289	0.27	
	Left Tilt	0.303	0.343	0.307	0.204	0.646	0.610	0.507	
	Right Cheek	0.259	0.161	0.092	0.054	0.420	0.351	0.313	
WCDMA Band 5	Right Tilt	0.511	0.181	0.191	0.103	0.692	0.702	0.614	
	Left Cheek	1.099	0.303	0.117	0.098	1.402	1.216	1.197	
	Left Tilt	0.319	0.343	0.307	0.204	0.662	0.626	0.523	
	Right Cheek	0.795	0.161	0.092	0.054	0.956	0.887	0.849	
	Right Tilt	0.283	0.181	0.191	0.103	0.464	0.474	0.386	
	Left Cheek	1.035	0.303	0.117	0.098	1.338	1.152	1.133	

Band	Test Position	Scaled SAR				BT SAR 1g(W/kg)	WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	Wi-Fi 5G(Band 3) 1g(W/kg)					
LTE Band 2 QPSK (20MHz)	Left Cheek	1RB	0.186	0.303	0.117	0.098	0.489	0.303	0.284	1.6
	Left Tilt		0.343	0.343	0.307	0.204	0.686	0.650	0.547	
	Right Cheek		0.282	0.161	0.092	0.054	0.443	0.374	0.336	
	Right Tilt		0.465	0.181	0.191	0.103	0.646	0.656	0.568	
	Left Cheek	50%RB	0.177	0.303	0.117	0.098	0.480	0.294	0.275	
	Left Tilt		0.321	0.343	0.307	0.204	0.664	0.628	0.525	
	Right Cheek		0.260	0.161	0.092	0.054	0.421	0.352	0.314	
	Right Tilt		0.443	0.181	0.191	0.103	0.624	0.634	0.546	
LTE Band 4 QPSK (20MHz)	Left Cheek	1RB	0.091	0.303	0.117	0.098	0.394	0.208	0.189	
	Left Tilt		0.146	0.343	0.307	0.204	0.489	0.453	0.35	
	Right Cheek		0.131	0.161	0.092	0.054	0.292	0.223	0.185	
	Right Tilt		0.219	0.181	0.191	0.103	0.400	0.410	0.322	
	Left Cheek	50%RB	0.086	0.303	0.117	0.098	0.389	0.203	0.184	
	Left Tilt		0.135	0.343	0.307	0.204	0.478	0.442	0.339	
	Right Cheek		0.122	0.161	0.092	0.054	0.283	0.214	0.176	
	Right Tilt		0.200	0.181	0.191	0.103	0.381	0.391	0.303	
LTE Band 5 QPSK (10MHz)	Left Cheek	1RB	0.376	0.303	0.117	0.098	0.679	0.493	0.474	
	Left Tilt		0.153	0.343	0.307	0.204	0.496	0.460	0.357	
	Right Cheek		0.457	0.161	0.092	0.054	0.618	0.549	0.511	
	Right Tilt		0.242	0.181	0.191	0.103	0.423	0.433	0.345	
	Left Cheek	50%RB	0.352	0.303	0.117	0.098	0.655	0.469	0.45	
	Left Tilt		0.136	0.343	0.307	0.204	0.479	0.443	0.34	
	Right Cheek		0.430	0.161	0.092	0.054	0.591	0.522	0.484	
	Right Tilt		0.218	0.181	0.191	0.103	0.399	0.409	0.321	
LTE Band 7 QPSK (20MHz)	Left Cheek	1RB	0.201	0.303	0.117	0.098	0.504	0.318	0.299	
	Left Tilt		0.338	0.343	0.307	0.204	0.681	0.645	0.542	
	Right Cheek		0.313	0.161	0.092	0.054	0.474	0.405	0.367	
	Right Tilt		0.648	0.181	0.191	0.103	0.829	0.839	0.751	
	Left Cheek	50%RB	0.187	0.303	0.117	0.098	0.490	0.304	0.285	
	Left Tilt		0.315	0.343	0.307	0.204	0.658	0.622	0.519	
	Right Cheek		0.283	0.161	0.092	0.054	0.444	0.375	0.337	
	Right Tilt		0.608	0.181	0.191	0.103	0.789	0.799	0.711	
LTE Band 12 QPSK (10MHz)	Left Cheek	1RB	0.274	0.303	0.117	0.098	0.577	0.391	0.372	
	Left Tilt		0.103	0.343	0.307	0.204	0.446	0.410	0.307	
	Right Cheek		0.085	0.161	0.092	0.054	0.246	0.177	0.139	
	Right Tilt		0.048	0.181	0.191	0.103	0.229	0.239	0.151	
	Left Cheek	50%RB	0.247	0.303	0.117	0.098	0.550	0.364	0.345	
	Left Tilt		0.091	0.343	0.307	0.204	0.434	0.398	0.295	
	Right Cheek		0.080	0.161	0.092	0.054	0.241	0.172	0.134	
	Right Tilt		0.044	0.181	0.191	0.103	0.225	0.235	0.147	
LTE Band 17 QPSK (10MHz)	Left Cheek	1RB	0.103	0.303	0.117	0.098	0.406	0.220	0.201	
	Left Tilt		0.044	0.343	0.307	0.204	0.387	0.351	0.248	
	Right Cheek		0.079	0.161	0.092	0.054	0.240	0.171	0.133	
	Right Tilt		0.034	0.181	0.191	0.103	0.215	0.225	0.137	
	Left Cheek	50%RB	0.097	0.303	0.117	0.098	0.400	0.214	0.195	
	Left Tilt		0.039	0.343	0.307	0.204	0.382	0.346	0.243	
	Right Cheek		0.074	0.161	0.092	0.054	0.235	0.166	0.128	
	Right Tilt		0.031	0.181	0.191	0.103	0.212	0.222	0.134	

Band	Test Position	Scaled SAR				BT SAR 1g(W/kg)	WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWA N+BT Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	Wi-Fi 5G(Band 3) 1g(W/kg)					
LTE Band 38 QPSK (20MHz)	Left Cheek	1RB	0.174	0.303	0.117	0.098	0.477	0.291	0.272	1.6
	Left Tilt		0.324	0.343	0.307	0.204	0.667	0.631	0.528	
	Right Cheek		0.289	0.161	0.092	0.054	0.450	0.381	0.343	
	Right Tilt		0.544	0.181	0.191	0.103	0.725	0.735	0.647	
	Left Cheek	50%RB	0.156	0.303	0.117	0.098	0.459	0.273	0.254	
	Left Tilt		0.303	0.343	0.307	0.204	0.646	0.610	0.507	
	Right Cheek		0.263	0.161	0.092	0.054	0.424	0.355	0.317	
	Right Tilt		0.500	0.181	0.191	0.103	0.681	0.691	0.603	
LTE Band 41 QPSK (20MHz)	Left Cheek	1RB	0.145	0.303	0.117	0.098	0.448	0.262	0.243	
	Left Tilt		0.297	0.343	0.307	0.204	0.640	0.604	0.501	
	Right Cheek		0.191	0.161	0.092	0.054	0.352	0.283	0.245	
	Right Tilt		0.414	0.181	0.191	0.103	0.595	0.605	0.517	
	Left Cheek	50%RB	0.126	0.303	0.117	0.098	0.429	0.243	0.224	
	Left Tilt		0.285	0.343	0.307	0.204	0.628	0.592	0.489	
	Right Cheek		0.186	0.161	0.092	0.054	0.347	0.278	0.24	
	Right Tilt		0.391	0.181	0.191	0.103	0.572	0.582	0.494	
LTE Band 66 QPSK (20MHz)	Left Cheek	1RB	0.126	0.303	0.117	0.098	0.429	0.243	0.224	
	Left Tilt		0.280	0.343	0.307	0.204	0.623	0.587	0.484	
	Right Cheek		0.229	0.161	0.092	0.054	0.390	0.321	0.283	
	Right Tilt		0.468	0.181	0.191	0.103	0.649	0.659	0.571	
	Left Cheek	50%RB	0.111	0.303	0.117	0.098	0.414	0.228	0.209	
	Left Tilt		0.265	0.343	0.307	0.204	0.608	0.572	0.469	
	Right Cheek		0.211	0.161	0.092	0.054	0.372	0.303	0.265	
	Right Tilt		0.426	0.181	0.191	0.103	0.607	0.617	0.529	

Hotspot(body-worn10mm)

Band	Test Position	Scaled SAR			BT SAR 1g(W/kg)	WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN +BT Σ SAR (W/kg)	Llimit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	Wi-Fi 5G(Band 3) 1g(W/kg)					
GSM850 (GPRS 4slots)	Front	0.487	0.140	0.321	0.022	0.627	0.808	0.509	1.6
	Back	0.624	0.189	0.377	0.028	0.813	1.001	0.652	
	Left	0.750	0.047	0.081	0.007	0.797	0.831	0.757	
	Right	0.125	0.084	0.262	0.012	0.209	0.387	0.137	
	Top	0.212	0.222	0.499	0.034	0.434	0.711	0.246	
	Bottom	0.111	0.013	0.017	0.002	0.124	0.128	0.113	
GSM1900 (GPRS 4slots)	Front	0.585	0.140	0.321	0.022	0.725	0.906	0.607	
	Back	1.017	0.189	0.377	0.028	1.206	1.394	1.045	
	Left	0.363	0.047	0.081	0.007	0.410	0.444	0.37	
	Right	0.132	0.084	0.262	0.012	0.216	0.394	0.144	
	Top	1.038	0.222	0.499	0.034	1.260	1.537	1.072	
	Bottom	0.026	0.013	0.017	0.002	0.039	0.043	0.028	
WCDMA Band 2	Top	1.020	0.022	0.499	0.034	1.042	1.519	1.054	
	Front	0.066	0.140	0.321	0.022	0.206	0.387	0.088	
	Back	0.120	0.189	0.377	0.028	0.309	0.497	0.148	
	Left	0.027	0.047	0.081	0.007	0.074	0.108	0.034	
	Right	0.012	0.084	0.262	0.012	0.096	0.274	0.024	
	Top	0.086	0.222	0.499	0.034	0.308	0.585	0.12	
WCDMA Band 4	Bottom	0.002	0.013	0.017	0.002	0.015	0.019	0.004	
	Front	0.141	0.140	0.321	0.022	0.281	0.462	0.163	
	Back	0.227	0.189	0.377	0.028	0.416	0.604	0.255	
	Left	0.040	0.047	0.081	0.007	0.087	0.121	0.047	
	Right	0.017	0.084	0.262	0.012	0.101	0.279	0.029	
	Top	0.128	0.222	0.499	0.034	0.350	0.627	0.162	
WCDMA Band 5	Bottom	0.003	0.013	0.017	0.002	0.016	0.020	0.005	
	Front	0.326	0.140	0.321	0.022	0.466	0.647	0.348	
	Back	0.364	0.189	0.377	0.028	0.553	0.741	0.392	
	Left	0.534	0.047	0.081	0.007	0.581	0.615	0.541	
	Right	0.034	0.084	0.262	0.012	0.118	0.296	0.046	
	Top	0.133	0.222	0.499	0.034	0.355	0.632	0.167	
WCDMA Band 5	Bottom	0.076	0.013	0.017	0.002	0.089	0.093	0.078	

Band	Test Position	RB allocation	Scaled SAR			BT SAR 1g(W/kg)	WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	Wi-Fi 5G(Band 3) 1g(W/kg)					
LTE Band 2	Front	1RB	0.085	0.140	0.321	0.022	0.225	0.406	0.107	1.6
	Back		0.111	0.189	0.377	0.028	0.300	0.488	0.139	
	Left		0.025	0.047	0.081	0.007	0.072	0.106	0.032	
	Right		0.015	0.084	0.262	0.012	0.099	0.277	0.027	
	Top		0.085	0.222	0.499	0.034	0.307	0.584	0.119	
	Bottom		0.003	0.013	0.017	0.002	0.016	0.020	0.005	
	Front	50%RB	0.081	0.140	0.321	0.022	0.221	0.402	0.103	
	Back		0.100	0.189	0.377	0.028	0.289	0.477	0.128	
	Left		0.022	0.047	0.081	0.007	0.069	0.103	0.029	
	Right		0.014	0.084	0.262	0.012	0.098	0.276	0.026	
	Top		0.082	0.222	0.499	0.034	0.304	0.581	0.116	
LTE Band 4	Bottom		0.002	0.013	0.017	0.002	0.015	0.019	0.004	
	Front	1RB	0.148	0.140	0.321	0.022	0.288	0.469	0.17	
	Back		0.215	0.189	0.377	0.028	0.404	0.592	0.243	
	Left		0.039	0.047	0.081	0.007	0.086	0.120	0.046	
	Right		0.019	0.084	0.262	0.012	0.103	0.281	0.031	
	Top		0.135	0.222	0.499	0.034	0.357	0.634	0.169	
	Bottom		0.004	0.013	0.017	0.002	0.017	0.021	0.006	
	Front	50%RB	0.133	0.140	0.321	0.022	0.273	0.454	0.155	
	Back		0.190	0.189	0.377	0.028	0.379	0.567	0.218	
	Left		0.029	0.047	0.081	0.007	0.076	0.110	0.036	
	Right		0.016	0.084	0.262	0.012	0.100	0.278	0.028	
	Top		0.120	0.222	0.499	0.034	0.342	0.619	0.154	
LTE Band 5	Bottom		0.003	0.013	0.017	0.002	0.016	0.020	0.005	
	Front	1RB	0.364	0.140	0.321	0.022	0.504	0.685	0.386	
	Back		0.493	0.189	0.377	0.028	0.682	0.870	0.521	
	Left		0.105	0.047	0.081	0.007	0.152	0.186	0.112	
	Right		0.006	0.084	0.262	0.012	0.090	0.268	0.018	
	Top		0.002	0.222	0.499	0.034	0.224	0.501	0.036	
	Bottom		0.008	0.013	0.017	0.002	0.021	0.025	0.01	
	Front	50%RB	0.338	0.140	0.321	0.022	0.478	0.659	0.36	
	Back		0.462	0.189	0.377	0.028	0.651	0.839	0.49	
	Left		0.103	0.047	0.081	0.007	0.150	0.184	0.11	
	Right		0.004	0.084	0.262	0.012	0.088	0.266	0.016	
	Top		0.002	0.222	0.499	0.034	0.224	0.501	0.036	
LTE Band 7	Bottom		0.007	0.013	0.017	0.002	0.020	0.024	0.009	
	Front	1RB	0.146	0.140	0.321	0.022	0.286	0.467	0.168	
	Back		0.178	0.189	0.377	0.028	0.367	0.555	0.206	
	Left		0.033	0.047	0.081	0.007	0.080	0.114	0.04	
	Right		0.011	0.084	0.262	0.012	0.095	0.273	0.023	
	Top		0.094	0.222	0.499	0.034	0.316	0.593	0.128	
	Bottom		0.002	0.013	0.017	0.002	0.015	0.019	0.004	
	Front	50%RB	0.132	0.140	0.321	0.022	0.272	0.453	0.154	
	Back		0.165	0.189	0.377	0.028	0.354	0.542	0.193	
	Left		0.031	0.047	0.081	0.007	0.078	0.112	0.038	
	Right		0.009	0.084	0.262	0.012	0.093	0.271	0.021	
	Top		0.090	0.222	0.499	0.034	0.312	0.589	0.124	
LTE Band 12	Bottom		0.002	0.013	0.017	0.002	0.015	0.019	0.004	
	Front	1RB	0.306	0.140	0.321	0.022	0.446	0.627	0.328	
	Back		0.534	0.189	0.377	0.028	0.723	0.911	0.562	
	Left		0.064	0.047	0.081	0.007	0.111	0.145	0.071	
	Right		0.006	0.084	0.262	0.012	0.090	0.268	0.018	
	Top		0.007	0.222	0.499	0.034	0.229	0.506	0.041	
	Bottom		0.003	0.013	0.017	0.002	0.016	0.020	0.005	
	Front	50%RB	0.293	0.140	0.321	0.022	0.433	0.614	0.315	
	Back		0.497	0.189	0.377	0.028	0.686	0.874	0.525	
	Left		0.059	0.047	0.081	0.007	0.106	0.140	0.066	
	Right		0.006	0.084	0.262	0.012	0.090	0.268	0.018	
	Top		0.006	0.222	0.499	0.034	0.228	0.505	0.04	
LTE Band 12	Bottom		0.003	0.013	0.017	0.002	0.016	0.020	0.005	

Band	Test Position	RB allocation	Scaled SAR			BT SAR 1g(W/kg)	WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	Wi-Fi 5G(Band 3) 1g(W/kg)					
LTE Band 17	Front	1RB	0.269	0.140	0.321	0.022	0.409	0.590	0.291	1.6
	Back		0.500	0.189	0.377	0.028	0.689	0.877	0.528	
	Left		0.052	0.047	0.081	0.007	0.099	0.133	0.059	
	Right		0.004	0.084	0.262	0.012	0.088	0.266	0.016	
	Top		0.006	0.222	0.499	0.034	0.228	0.505	0.04	
	Bottom		0.002	0.013	0.017	0.002	0.015	0.019	0.004	
	Front	50%RB	0.254	0.140	0.321	0.022	0.394	0.575	0.276	
	Back		0.463	0.189	0.377	0.028	0.652	0.840	0.491	
	Left		0.048	0.047	0.081	0.007	0.095	0.129	0.055	
	Right		0.004	0.084	0.262	0.012	0.088	0.266	0.016	
	Top		0.004	0.222	0.499	0.034	0.226	0.503	0.038	
	Bottom		0.002	0.013	0.017	0.002	0.015	0.019	0.004	
LTE Band 38	Front	1RB	0.332	0.140	0.321	0.022	0.472	0.653	0.354	
	Back		0.607	0.189	0.377	0.028	0.796	0.984	0.635	
	Left		0.111	0.047	0.081	0.007	0.158	0.192	0.118	
	Right		0.050	0.084	0.262	0.012	0.134	0.312	0.062	
	Top		0.356	0.222	0.499	0.034	0.578	0.855	0.39	
	Bottom		0.014	0.013	0.017	0.002	0.027	0.031	0.016	
	Front	50%RB	0.313	0.140	0.321	0.022	0.453	0.634	0.335	
	Back		0.579	0.189	0.377	0.028	0.768	0.956	0.607	
	Left		0.102	0.047	0.081	0.007	0.149	0.183	0.109	
	Right		0.045	0.084	0.262	0.012	0.129	0.307	0.057	
	Top		0.329	0.222	0.499	0.034	0.551	0.828	0.363	
	Bottom		0.012	0.013	0.017	0.002	0.025	0.029	0.014	
LTE Band 41	Front	1RB	0.318	0.140	0.321	0.022	0.458	0.639	0.34	
	Back		0.573	0.189	0.377	0.028	0.762	0.950	0.601	
	Left		0.093	0.047	0.081	0.007	0.140	0.174	0.1	
	Right		0.050	0.084	0.262	0.012	0.134	0.312	0.062	
	Top		0.344	0.222	0.499	0.034	0.566	0.843	0.378	
	Bottom		0.013	0.013	0.017	0.002	0.026	0.030	0.015	
	Front	50%RB	0.266	0.140	0.321	0.022	0.406	0.587	0.288	
	Back		0.467	0.189	0.377	0.028	0.656	0.844	0.495	
	Left		0.077	0.047	0.081	0.007	0.124	0.158	0.084	
	Right		0.043	0.084	0.262	0.012	0.127	0.305	0.055	
	Top		0.294	0.222	0.499	0.034	0.516	0.793	0.328	
	Bottom		0.010	0.013	0.017	0.002	0.023	0.027	0.012	
LTE Band 66	Front	1RB	0.126	0.140	0.321	0.022	0.266	0.447	0.148	
	Back		0.179	0.189	0.377	0.028	0.368	0.556	0.207	
	Left		0.033	0.047	0.081	0.007	0.080	0.114	0.04	
	Right		0.016	0.084	0.262	0.012	0.100	0.278	0.028	
	Top		0.111	0.222	0.499	0.034	0.333	0.610	0.145	
	Bottom		0.003	0.013	0.017	0.002	0.016	0.020	0.005	
	Front	50%RB	0.107	0.140	0.321	0.022	0.247	0.428	0.129	
	Back		0.141	0.189	0.377	0.028	0.330	0.518	0.169	
	Left		0.028	0.047	0.081	0.007	0.075	0.109	0.035	
	Right		0.013	0.084	0.262	0.012	0.097	0.275	0.025	
	Top		0.089	0.222	0.499	0.034	0.311	0.588	0.123	
	Bottom		0.002	0.013	0.017	0.002	0.015	0.019	0.004	

13 Measurement uncertainty evaluation

13.1 Measurement uncertainty evaluation for SAR test

The following table includes the uncertainty table of the IEEE 1528. The values are determined by SPEAG. The breakdown of the individual uncertainties is as follows:

DASY8 Uncertainty Budget								
According to IEC/IEEE 62209-1528 (Frequency band: 300MHz-3GHz range)								
Symbol	Error Description	Uncert. value	Prob. Dist.	Div.	(ci) (1g)	(ci) (10g)	Std. Unc (1g)	Std. Unc (10g)
Measurement System Errors								
CF	Probe Calibration	±13.3%	N	2	1	1	±6.7%	±6.7%
CF _{drift}	Probe Calibration Drift	±1.7%	R	$\sqrt{3}$	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±2.8%	R	$\sqrt{3}$	1	1	±1.6%	±1.6%
ISO	Probe Isotropy	±7.6%	R	$\sqrt{3}$	1	1	±4.4%	±4.4%
DAE	Other Probe+Electronic	±0.8%	N	1	1	1	±0.8%	±0.8%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ _{sys}	Probe Positioning	±0.006 mm	N	1	0.14	0.14	±0.10%	±0.10%
DAT	Data Processing	±1.2%	N	1	1	1	±1.2%	±1.2%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.)DAK	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
LIQ(T _σ)	Conductivity (temp.)BB	±3.3%	R	$\sqrt{3}$	0.78	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	$\sqrt{3}$	0	0	±0%	±0%
DIS	Distance DUT – TSL	±2.0%	N	1	2	2	±4.0%	±4.0%
D _{xyz}	Device Positioning	±1.0%	N	1	1	1	±1.0%	±1.0%
H	Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%
MOD	DUT Modulation ^m	±2.4%	R	$\sqrt{3}$	1	1	±1.4%	±1.4%
TAS	Time-average SAR	±1.7%	R	$\sqrt{3}$	1	1	±1.0%	±1.0%
RF _{drift}	DUT drift	±2.5%	N	1	1	1	±2.5%	±2.5%
VAL	Val Antenna Unc. ^{val}	±0.0%	N	1	1	1	±0.0%	±0.0%
RF _{in}	Unc.Input Power ^{val}	±0.0%	N	1	1	1	±0.0%	±0.0%
Correction to the SAR results								
C(ε, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
C(R)	SAR scaling ^p	±0.0%	R	$\sqrt{3}$	1	1	±0.0%	±0.0%
u(ΔSAR)	Combined Uncertainty						±11.3%	±11.2%
U	Expanded Uncertainty						±22.6%	±22.5%

DASY8 Uncertainty Budget

According to IEC/IEEE 62209-1528
(Frequency band: 3GHz–6GHz range)

Symbol	Error Description	Uncert. value	Prob. Dist.	Div.	(c_1) (1g)	(c_2) (10g)	Std. Unc (1g)	Std. Unc (10g)
Measurement System Errors								
CF	Probe Calibration	±13.1%	N	2	1	1	±6.55%	±6.55%
CF _{drift}	Probe Calibration Drift	±1.7%	R	$\sqrt{3}$	1	1	±1.0%	±1.0%
LIN	Probe Linearity	±4.7%	R	$\sqrt{3}$	1	1	±2.7%	±2.7%
BBS	Broadband Signal	±2.6%	R	$\sqrt{3}$	1	1	±1.5%	±1.5%
ISO	Probe Isotropy	±7.6%	R	$\sqrt{3}$	1	1	±4.4%	±4.4%
DAE	Other Probe+Electronic	±1.2%	N	1	1	1	±1.2%	±1.2%
AMB	RF Ambient	±1.8%	N	1	1	1	±1.8%	±1.8%
Δ_{sys}	Probe Positioning	±0.005 mm	N	1	0.29	0.29	±0.2%	±0.20%
DAT	Data Processing	±2.3%	N	1	1	1	±2.3%	±2.3%
Phantom and Device Errors								
LIQ(σ)	Conductivity (meas.)DAK	±2.5%	N	1	0.78	0.71	±2.0%	±1.8%
LIQ(T_σ)	Conductivity (temp.)BB	±3.4%	R	$\sqrt{3}$	0.78	0.71	±1.5%	±1.4%
EPS	Phantom Permittivity	±14.0%	R	$\sqrt{3}$	0.25	0.25	±2.0%	±2.0%
DIS	Distance DUT – TSL	±2.0%	N	1	2	2	±4.0%	±4.0%
D _{xyz}	Device Positioning	±1.0%	N	1	1	1	±1.0%	±1.0%
H	Device Holder	±3.6%	N	1	1	1	±3.6%	±3.6%
MOD	DUT Modulation ^m	±2.4%	R	$\sqrt{3}$	1	1	±1.4%	±1.4%
TAS	Time-average SAR	±1.7%	R	$\sqrt{3}$	1	1	±1.0%	±1.0%
RF _{drift}	DUT drift	±2.5%	N	1	1	1	±2.5%	±2.5%
VAL	Val Antenna Unc. ^{val}	±0.0%	N	1	1	1	±0.0%	±0.0%
RF _{in}	Unc.Input Power ^{val}	±0.0%	N	1	1	1	±0.0%	±0.0%
Correction to the SAR results								
C(ϵ, σ)	Deviation to Target	±1.9%	N	1	1	0.84	±1.9%	±1.6%
C(R)	SAR scaling ^p	±0.0%	R	$\sqrt{3}$	1	1	±0.0%	±0.0%
u(Δ SAR)	Combined Uncertainty						±11.6%	±11.6%
U	Expanded Uncertainty						±23.3%	±23.1%

13.2 Measurement uncertainty evaluation for system check

The following table includes the uncertainty table of the IEEE 1528. The values are determined by SPEAG. The breakdown of the individual uncertainties is as follows:

Uncertainty For System Performance Check								
Uncertainty Component	Tol. (±%)	Prob. Dist.	Div.	C _i 1g	C _i 10g	1g U _i (±%)	10g U _i (±%)	V _i
measurement system								
Probe Calibration	6.7	N	1	1	1	6.70	6.70	∞
Axial Isotropy	4.7	R	$\sqrt{3}$	0.7	0.7	1.90	1.90	∞
Hemispherical Isotropy	9.6	R	$\sqrt{3}$	0.7	0.7	3.88	3.88	∞
Boundary Effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
system detection Limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0	N	1	1	1	0.00	0.00	∞
Readout Electronics	0.3	N	1	1	1	0.30	0.30	∞
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
RF ambient Conditions - Noise	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
RF ambient Conditions – Reflections	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Probe positioned Mechanical Tolerance	0.8	R	$\sqrt{3}$	1	1	0.46	0.46	∞
Probe positioning with respect to Phantom Shell	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Dipole								
Deviation of experimental source from numerical source	5.5	N	1	1	1	3.18	3.18	∞
Input power and SAR drift measurement	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Dipole axis to liquid Distance	3.4	R	$\sqrt{3}$	1	1	1.96	1.96	∞
Phantom and Tissue Parameters								
Phantom Uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviation (in permittivity and conductivity)	2	N	1	1	0.84	2.0	1.68	∞
Liquid conductivity (meas.)	2.5	N	1	0.78	0.71	1.13	1.03	5
Liquid conductivity (target.)	5	R	$\sqrt{3}$	0.78	0.71	3.90	3.55	5
Liquid Permittivity (meas.)	2.5	N	1	0.23	0.26	0.33	0.38	∞
Liquid Permittivity (target.)	5	R	$\sqrt{3}$	0.23	0.26	1.15	1.30	∞
Combined Standard Uncertainty		Rss				11.29	11.18	
Expanded Uncertainty (95% Confidence interval)		k				20.57	19.95	

14 Test equipment and ancillaries used for tests

To simplify the identification of the test equipment and/or ancillaries which were used, the reporting of the relevant test cases only refer to the test item number as specified in the table below.

	Manufacturer	Device Type	Type(Model)	Serial number	calibration	
					Last Cal.	Due Date
☒	SPEAG	E-Field PROBE	EX3DV4	7951	2025-09-10	2026-09-09
☒	SPEAG	Validation Kits	D750V3	1151	2024-08-19	2027-08-18
☒	SPEAG	Validation Kits	D835V2	4d203	2024-08-20	2027-08-19
☒	SPEAG	Validation Kits	D1750V2	1143	2024-08-20	2027-08-19
☒	SPEAG	Validation Kits	D1900V2	5d211	2024-08-19	2027-08-18
☒	SPEAG	Validation Sources	D2550V2	1015	2024-08-16	2027-08-15
☐	SPEAG	Validation Sources	D3500V2	1164	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D3700V2	1139	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D3900V2	1106	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D4600V2	1097	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D4900V2	1093	2024-10-08	2027-10-07
☒	SPEAG	Validation Sources	D5GHzV2	1412	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D6.5GHzV2	1116	2024-10-14	2027-10-13
☒	SPEAG	DAE	DAE4ip	1921	2025-09-04	2026-09-03
☒	R & S	Universal Radio Communication Tester	CMU 200	119733	2025-11-27	2026-11-26
☒	R & S	Universal Radio Communication Tester	CMW500	144459	2025-11-27	2026-11-26
☒	R & S	UXM5G Wireless Test Platform	E7515B	MY60192341	2025-11-27	2026-11-26
☒	HP	Network Analyser	8753D	3410A08889	2025-11-27	2026-11-26
☒	HP	Signal Generator	E4421B	GB39340770	2025-11-27	2026-11-26
☒	Keithley	Multimeter	Keithley 2000	4014539	2025-11-27	2026-11-26
☒	SATIMO	Amplifier	Power Amplifier	MODU-023-A-0004	2025-11-27	2026-11-26
☒	Agilent	Power Meter	E4418B	GB43312909	2025-11-27	2026-11-26
☒	Agilent	Power Meter Sensor	E4412A	MY41500046	2025-11-27	2026-11-26

Annex A: System performance verification
(Please See the SAR Measurement Plots of annex A.)

Annex B: Measurement results
(Please See the SAR Measurement Plots of annex B.)

Annex C: Calibration reports
(Please See the Calibration reports of annex C.)

Annex D: Photographs
(Please see SAR test setup photos.)

--END OF REPORT--