FCC SAR Compliance Test Report

For

ITEL MOBILE LIMITED

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

FOTAN NT HONGKONG

Model: A6611L

Test Engineer:	Zeng Longhao
Report Number:	WSCT-ANAB-R&E250700058A-SAR
Report Date:	14 August 2025
FCC ID:	2AJMN-A6611L
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Modified History

REV.	Modification Description	Issued Date	Remark
REV.1.0	Initial Test Report Relesse	14 August 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: 2025-07-14
Start of test: 2025-07-15
End of test: 2025-08-10

1.3 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for A6611L is as below:

Band	Position Test Points	MAX Reported SAR_{1g} (W/kg)
GSM850	Head	0.291
GSM1900	Head	0.510
UMTS Band 2	Head	0.530
UMTS Band 4	Head	0.675
UMTS Band 5	Head	0.173
LTE Band 2	Head	0.724
LTE Band 4	Head	0.634
LTE Band 5	Head	0.092
LTE Band 7	Head	1.099
LTE Band 12	Head	0.135
LTE Band 17	Head	0.135
LTE Band 26	Head	0.073
LTE Band 26	Head	0.161
LTE Band 38	Head	0.847
LTE Band 41	Head	1.134
LTE Band 66	Head	0.540
BT	Head	0.055
2.4GWIFI	Head	0.159
Band	Position Test Points	MAX Reported SAR1g (W/kg)
GSM850	Body & Hotspot 10mm	0.310
GSM1900	Body & Hotspot 10mm	0.158
UMTS Band 2	Body & Hotspot 10mm	0.199
UMTS Band 4	Body & Hotspot 10mm	0.255
UMTS Band 5	Body & Hotspot 10mm	0.187
LTE Band 2	Body & Hotspot 10mm	0.273
LTE Band 4	Body & Hotspot 10mm	0.195
LTE Band 5	Body & Hotspot 10mm	0.264
LTE Band 7	Body & Hotspot 10mm	0.308
LTE Band 12	Body & Hotspot 10mm	0.222
LTE Band 17	Body & Hotspot 10mm	0.213
LTE Band 26	Body & Hotspot 10mm	0.082
LTE Band 26	Body & Hotspot 10mm	0.317
LTE Band 38	Body & Hotspot 10mm	0.163
LTE Band 41	Body & Hotspot 10mm	0.596
LTE Band 66	Body & Hotspot 10mm	0.169
BT	Body & Hotspot 10mm	0.010
2.4GWIFI	Body & Hotspot 10mm	0.040
Maximum Max. SAR Level(s) Measured: (Limit: 1.6W/Kg):	LTE Band 41	1.134W/kg1gHeadTissue
	2.4GWIFI	0.159W/kg1gHeadTissue
	LTE Band 41	0.596W/kg1gBodyTissue
	2.4GWIFI	0.040W/kg1gBodyTissue
The Head highest simultaneous SAR :		1.293W/kg1gHeadTissue
The Body highest simultaneous SAR :		0.636W/kg1gBodyTissue

The device is in compliance with Specific Absorption Rate （SAR）for general population/uncontraolled 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:	A6611L
Trade Name:	itel
Software number:	A6611L-A553
Hardware number:	V1.0
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 2/4/5/7/12/17/26/38/41/66
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 26	814~824	859~869
LTE Band 26	824-849	869-894
LTE Band38	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/LTE B26：-2.0 dBi PCS 1900/WCDMA B2/LTE B2: 0.68 dBi WCDMA B4/LTE B4/ LTE B66: 0.63 dBi LTE B7/ LTE B38/ LTE B41:-0.47 dBi LTE B12/LTE B17:-2.38 dBi
Radiated Power (EIRP/ERP) Limit	GSM 850/WCDMA B5/LTE B5/LTE B26：7.00W(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/NR N12: 3.00W(34.77dBm)
Power Source:	Rechargeable Li-ion Polymer Battery :BL-49NI Rated Voltage: 3.85V Rated Capacity:4900mAh/18.86Wh Typical Capacity:5000mAh/19.25Wh Limited Charge Voltage:4.4V

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 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, Shiyan 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	**ANAB - Certificate Number: AT-3951**
China	**CNAS (Registration Number: L3732)**
Canada	**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:	ITEL MOBILE LIMITED
Applicant Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer Name:	ITEL 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)

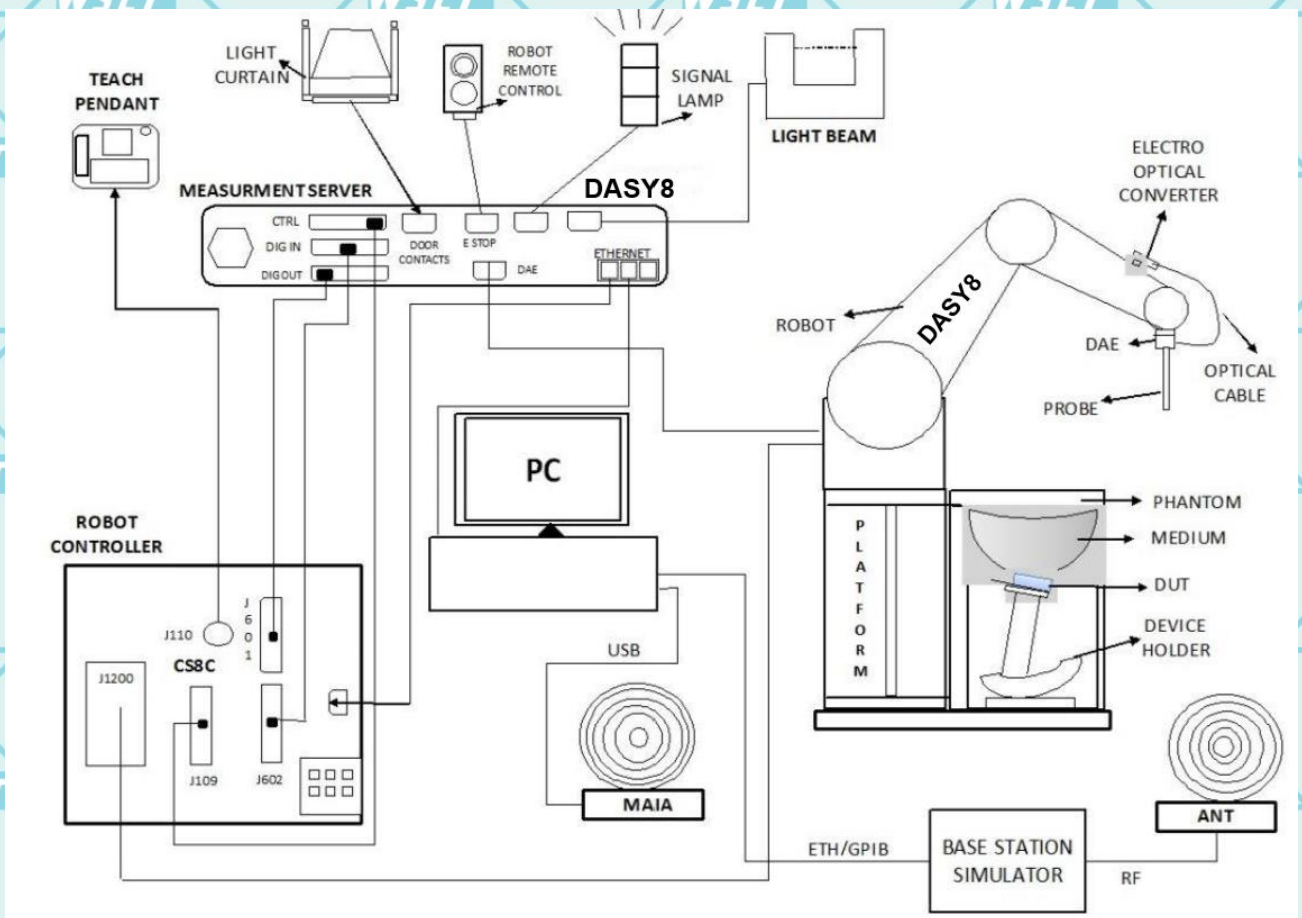
ρ = mass density of the tissue (kg/m^3)

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, isotopic, 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

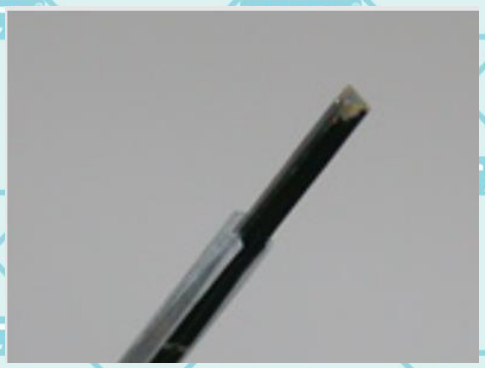
The DASY8 system uses the high-precision industrial robots TX2-60L and TX2-90XL from Stäubli SA (France). The TX2 family of robots provides the ideal combination of speed, rigidity, size, and precision:

- 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 callbrated for use in liquid with high pemitivity. 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:7895&7391 with following specifications is used



Frequency: 4MHz – 10GHz ;
Linearity: ±0.2dB (30MHz – 10GHz)

Dynamic Range: 10μW/g–>100 mW/g
Linearity: ±0.2dB (noise: typically <1μW/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:<5µV (with auto zero)
- Input resistance:200MOhm
- Input bias current:<50 FA
- Power supply: integrated (from the DASY8 measurement server)
- Dimensions(L × W × H):60×60×68 mm
- Calibration: ISO/IEC 17025 calibration service available.

7.5 Phantom

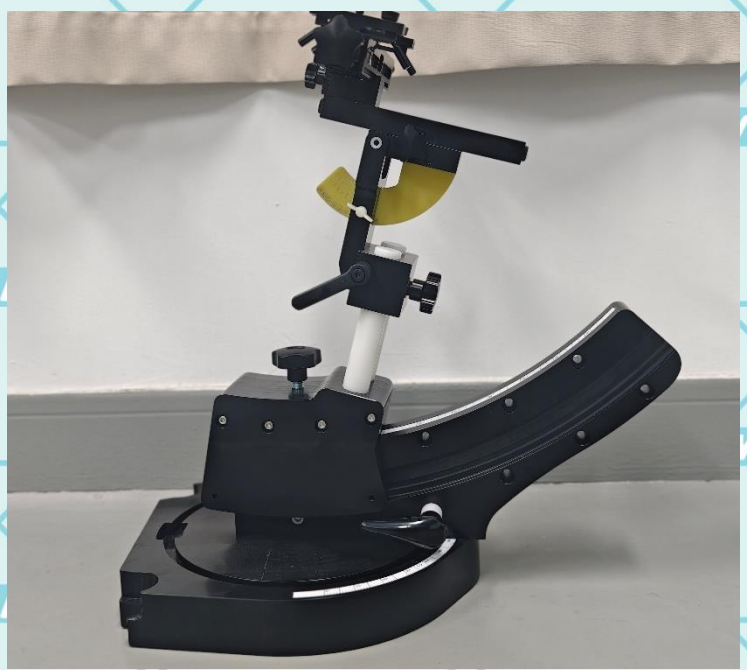
The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEC/IEEE 62209-1528. It enables the dosimetric evaluation of left—and right-hand phone usage as well as body-mounted usage at the flat phantom region. A cover prevents the liquid from evaporating. 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 ± 0.2mm (6 ± 0.2mm 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 ε=3 and loss tangent δ=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.

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>>3 GHz</td></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5 mm ± 1 mm</td><td>½ δ ln(2) mm ±0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30° ± 1°</td><td>20° ± 1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area sean spatial resolution: Δ x Area , Δy Area</td><td>≤2 GHz: ≤ 15 mm
2-3 GHz: ≤ 12 mm</td><td>3- 4 GHz: ≤ 12 mm
4- 6 GHz: ≤10 mm</td></tr>
<tr><td colspan="2">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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: ΔxZoom , ΔyZoom</td><td>≤ 2 GHz: ≤ 8 mm
2-3 GHz: ≤ 5 mm*</td><td>3- 4 GHz: ≤5 mm*
4- 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: Δz Zoom (n)</td><td>≤5 mm</td><td>3- 4 GHz: ≤4 mm
4- 5 GHz: ≤ 3 mm
5- 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>Δ zZoom (1): between 1 st two points closest to phantom surface</td><td>≤4 mm</td><td>3-4 GHz: ≤ 3 mm
4-5 GHz: ≤ 2.5 mm
5-6 GHz: ≤ 2 mm</td></tr>
<tr><td>Δ zZoom (n>1): between subsequent points</td><td colspan="2">≤1.5·ΔzZoom (n-1) mm</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y,z</td><td>≥30 mm</td><td>3 -4 GHz: ≥ 28 mm
4- 5 GHz: ≥ 25 mm
5- 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">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 ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

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:

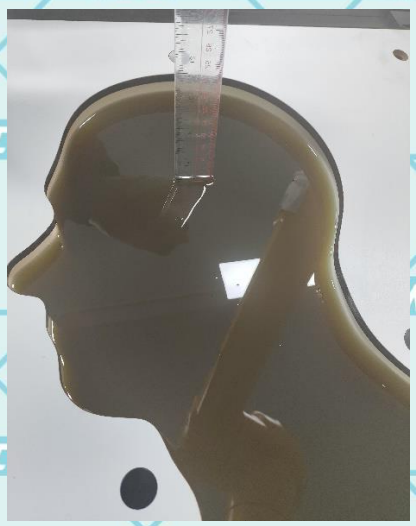
All antennas and radiating structures that may contribute to the measured SAR or influence the SAR distribution must be included in the area scan. The areas of the transmitter(s), antenna(s) and host device, when projected onto the phantom, must be within the area scan measurement region. The area scan 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.

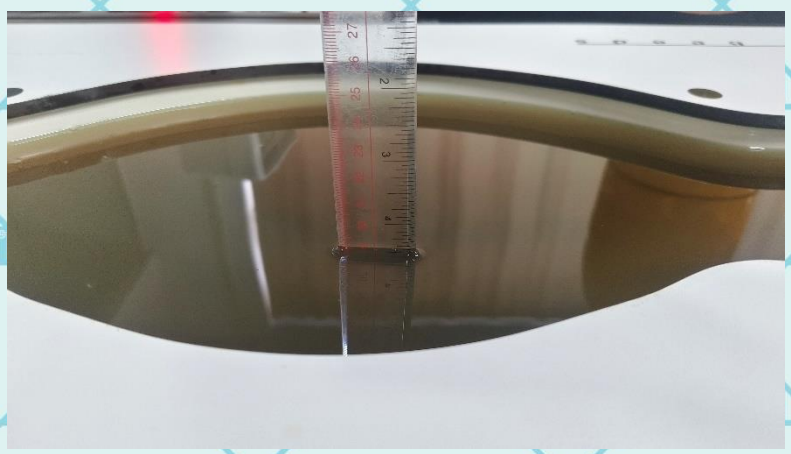
Zoom Scan:

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 oundaries;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 of the dielectic parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within ± 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%

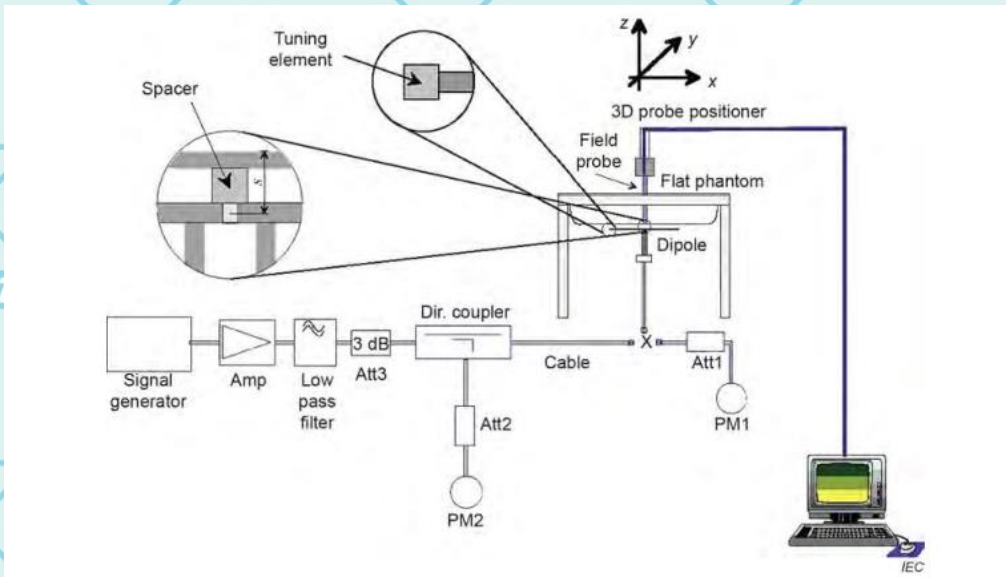
7.10 Tissue simulating liquids: parameters

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	2025-07-15
835MHz Head	41.50 (39.425~43.575)	0.90 (0.86~0.95)	41.60	0.914	21.6°C	2025-07-18
1750MHz Head	40.10 (38.10~42.10)	1.37 (1.31~1.43)	41.90	1.34	21.6°C	2025-07-22
1900MHz Head	40.00 (38.00~42.00)	1.40 (1.33~1.47)	41.70	1.44	21.6°C	2025-07-25
2450MHz Head	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.27	1.82	21.6°C	2025-07-29
2550MHz Head	39.10 (37.15~41.05)	1.91 (1.82~2.01)	40.80	1.90	21.6°C	2025-08-01
2600MHz Head	39.00 (37.05~40.95)	1.96 (1.86~2.05)	39.87	1.94	21.6°C	2025-08-05
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

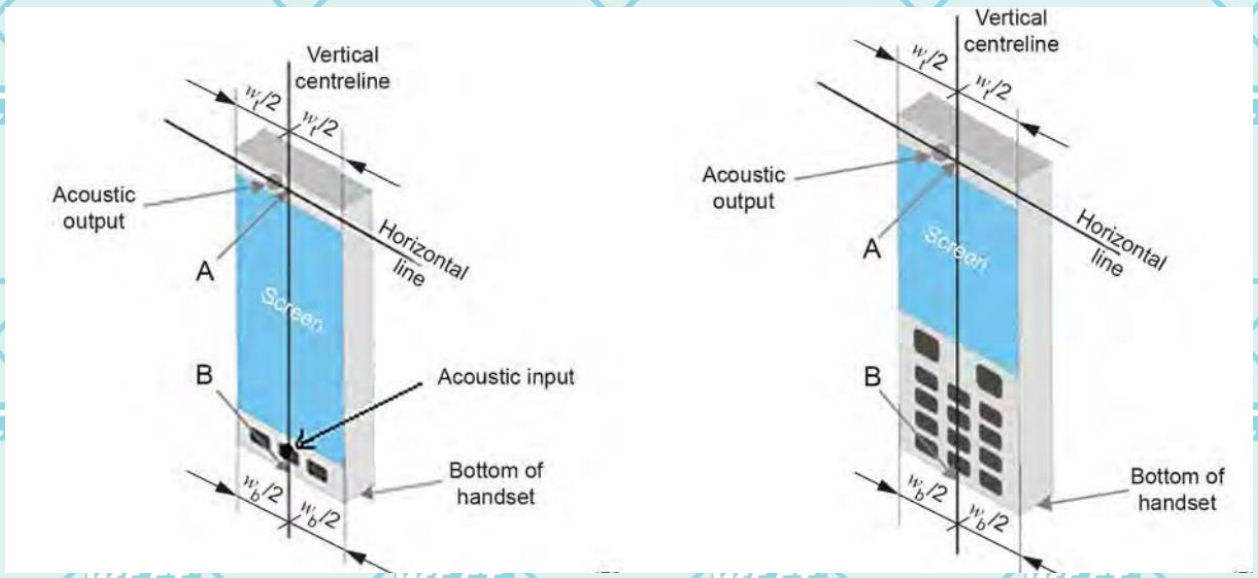
The system Check is performed for verifying the accuracy of the complete measurement system and performance of the software.The following table shows System check results for all frequency bands and tissue liquids used during the tests (plot(s) see annex A).

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	2025-07-15
D835V2 Body	9.68 (8.72~10.64)	6.44 (5.80~7.08)	9.94	6.55	21.6°C	2025-07-18
D1750V2 Body	36.40 (32.76~40.04)	19.60 (17.64~21.56)	36.20	19.50	21.6°C	2025-07-22
D1900V2 Body	39.70 (35.73~43.67)	21.00 (18.90~23.10)	40.40	21.10	21.6°C	2025-07-25
D2550V2 Body	54.10 (48.69~59.51)	24.70 (22.23~27.17)	55.80	25.60	21.6°C	2025-08-01
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 wt 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)

wt Width of the DUT at the level of the acoustic output
wb Width of the bottom of the DUT
A Midpoint of the width wt of the DUT at the level of the acoustic output
B Midpoint of the width wb 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.

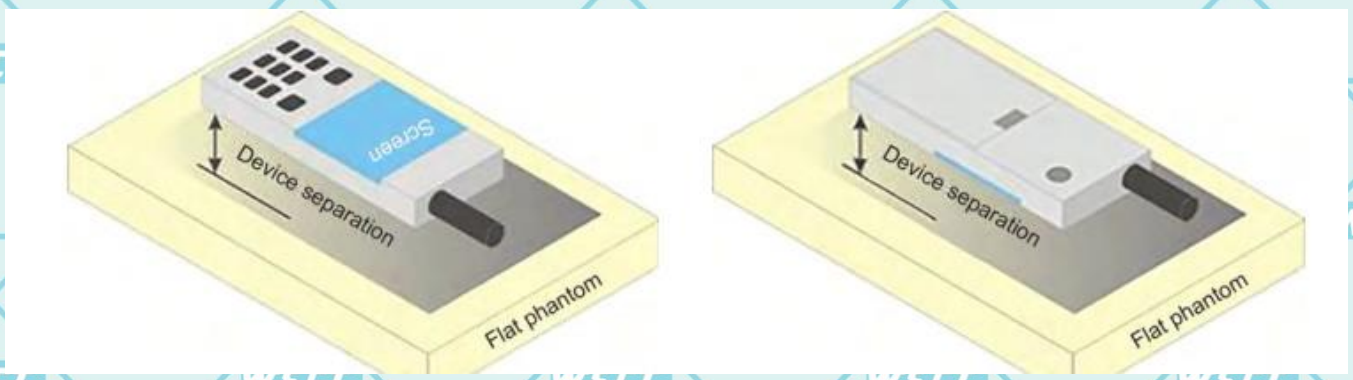
Tilt position:

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°

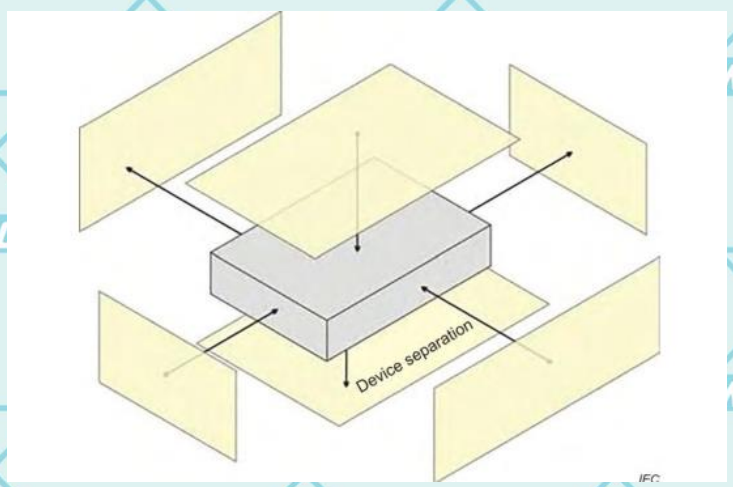
While maintaining the orientation of the DUT, move the DUT towards the phantom on a line passing through RE and LE until any part of the DUT touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g. an extended antenna 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 lever 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 requied 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 ≤ ¼ 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 βc andβd gain factors for DPCCH and DPDCH were set according to the values in the below table, hs for HS-DPCCH is set automatically to the correct value when ΔACK, ΔNACK, ΔCQI = 8. The variation of the βc /βd ratio causes a power reduction at sub-tests 2 - 4.

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

Note 1: ΔACK, ΔNACK and ΔCQI = 8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2 : CM=1 for β_c/β_d= 12/15, β_{hs}/β_c = 24/15. For all other combinations of DPDCH,DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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 β_c = 11/15 and β_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 ≤ ¼ 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
16 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 > ½ 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 > ½ 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 frquency 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 ¼ 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)		33.00	32.42	32.64	32.68	-9.03	25.07	25.29	25.33
GPRS (GMSK)	1Tx slot	33.00	32.41	32.60	32.61	-9.03	25.06	25.25	25.26
	2Tx slots	30.50	30.00	30.17	30.10	-9.03	22.65	22.82	22.75
	3Tx slots	28.50	27.88	28.05	27.96	-6.02	20.53	20.70	20.61
	4Tx slots	26.00	25.44	25.70	25.63	-4.26	18.09	18.35	18.28
EGPRS (8PSK)	1Tx slot	25.50	25.15	25.00	25.13	-3.01	17.80	17.65	17.78
	2Tx slots	24.50	24.07	23.87	23.80	-9.03	16.72	16.52	16.45
	3Tx slots	22.00	21.73	21.30	21.44	-6.02	14.38	13.95	14.09
	4Tx slots	20.00	19.18	19.53	19.27	-4.26	11.83	12.18	11.92
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)		29.50	28.97	28.99	29.09	-9.03	29.65	29.67	29.77
GPRS (GMSK)	1Tx slot	29.50	28.95	28.98	29.05	-9.03	29.63	29.66	29.73
	2Tx slots	27.00	26.87	26.56	26.26	-9.03	27.55	27.24	26.94
	3Tx slots	25.50	25.15	24.82	24.60	-6.02	25.83	25.50	25.28
	4Tx slots	23.00	22.93	22.65	22.34	-4.26	23.61	23.33	23.02
EGPRS (8PSK)	1Tx slot	25.50	24.87	25.03	24.87	-3.01	25.55	25.71	25.55
	2Tx slots	24.00	23.67	23.72	22.94	-9.03	24.35	24.40	23.62
	3Tx slots	22.00	21.91	21.60	21.21	-6.02	22.59	22.28	21.89
	4Tx slots	19.50	18.96	19.04	18.57	-4.26	19.64	19.72	19.25

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
			1852.4	1880.0	1907.6
RMC 12.2K		22.00	21.58	21.71	21.80
HSDPA	Subtest-1	21.50	21.36	20.18	18.99
	Subtest-2	21.50	19.13	21.13	19.11
	Subtest-3	21.50	18.89	18.42	21.17
	Subtest-4	19.50	19.26	18.82	18.39
HSUPA	Subtest-1	18.50	18.41	18.39	18.41
	Subtest-2	19.00	18.83	18.70	18.73
	Subtest-3	19.50	19.02	18.95	18.92
	Subtest-4	19.50	19.34	19.30	19.24
	Subtest-5	21.50	21.30	21.22	21.28
Mode		Maximum Tune-up(dBm)	WCDMA Band 4		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
			1712.4	1732.6	1752.6
RMC 12.2K		22.00	21.61	21.51	21.82
HSDPA	Subtest-1	20.50	20.04	19.62	17.99
	Subtest-2	20.00	17.33	19.90	19.35
	Subtest-3	20.00	18.26	18.13	19.86
	Subtest-4	19.50	19.20	18.17	17.82
HSUPA	Subtest-1	18.50	18.31	18.21	18.21
	Subtest-2	18.50	18.10	17.73	17.74
	Subtest-3	19.00	18.61	18.50	18.49
	Subtest-4	18.50	18.44	18.31	18.32
	Subtest-5	20.50	20.45	20.28	20.45
Mode		Maximum Tune-up(dBm)	WCDMA Band 5		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
			826.4	836.6	846.6
RMC 12.2K		22.50	22.13	21.94	21.93
HSDPA	Subtest-1	22.00	21.59	19.74	18.68
	Subtest-2	21.50	18.45	21.44	19.66
	Subtest-3	21.50	19.40	17.67	21.38
	Subtest-4	20.00	19.79	18.68	18.63
HSUPA	Subtest-1	20.00	19.44	19.53	19.46
	Subtest-2	20.00	19.48	19.62	19.50
	Subtest-3	20.00	19.71	19.84	19.51
	Subtest-4	20.00	19.52	19.67	19.58
	Subtest-5	21.50	21.09	21.36	21.37

Per KDB 941225 D01, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤1/2dB 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	23.50	23.15	23.07	23.06
			2	23.50	23.12	23.10	23.03
			5	23.50	23.14	23.07	23.03
		3	0	23.50	23.04	23.12	23.02
			2	23.50	23.08	23.16	22.94
			3	23.50	23.03	23.16	22.98
		6	0	22.50	22.12	22.11	21.97
	16QAM	1	0	24.00	23.54	22.03	22.44
			2	24.00	23.54	22.05	22.44
			5	24.00	23.56	22.05	22.53
		3	0	22.50	22.34	22.04	21.98
			2	22.50	22.34	22.08	21.98
			3	22.50	22.35	21.99	21.93
		6	0	21.50	21.25	21.38	21.06
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
3MHz	QPSK	1	0	23.50	23.07	23.11	23.09
			7	23.50	23.10	23.06	23.08
			14	23.50	23.04	23.02	23.10
		8	0	22.50	22.09	22.09	21.96
			4	22.50	22.04	22.09	22.02
			7	22.50	22.05	22.19	21.94
		15	0	22.50	21.98	22.23	21.96
	16QAM	1	0	24.00	23.64	22.08	22.52
			7	24.00	23.63	22.06	22.49
			14	24.00	23.70	22.01	22.49
		8	0	21.50	20.98	21.11	21.07
			4	21.50	20.91	21.10	21.10
			7	21.50	20.93	21.10	21.08
		15	0	21.50	21.18	21.12	21.16
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
5MHz	QPSK	1	0	23.50	22.99	23.21	22.88
			13	23.50	23.02	23.18	22.82
			24	23.50	23.06	23.19	22.75
		12	0	22.50	22.09	22.16	22.03
			6	22.50	22.09	22.15	22.03
			13	22.50	22.12	22.07	22.05
		25	0	22.50	22.08	22.20	21.98
	16QAM	1	0	23.50	22.64	22.76	23.13
			13	23.50	22.75	22.71	23.09
			24	23.50	22.69	22.86	23.02
		12	0	21.50	21.06	21.04	21.05
			6	21.50	21.03	21.07	21.05
			13	21.50	21.01	21.02	20.99
		25	0	21.50	21.27	21.22	21.23

LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
10MHz	QPSK	1	0	23.50	23.01	23.08	23.10
			25	23.50	22.99	23.13	23.05
			49	23.50	23.13	23.17	22.96
		25	0	22.50	22.14	22.21	22.11
			13	22.50	22.07	22.14	22.10
			25	22.50	22.15	22.17	22.02
		50	0	22.50	22.14	22.22	22.06
	16QAM	1	0	24.00	23.65	23.44	22.95
			25	24.00	23.66	23.46	22.85
			49	24.00	23.67	23.43	22.77
		25	0	21.50	21.20	21.33	21.15
			13	22.00	21.60	21.26	21.17
			25	21.50	21.21	21.32	21.13
		50	0	22.00	21.56	21.25	21.14
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
15MHz	QPSK	1	0	23.50	23.08	23.19	23.26
			38	23.50	23.12	23.15	23.08
			74	23.50	23.10	23.27	22.96
		36	0	22.50	22.11	22.21	22.24
			18	22.50	22.10	22.21	22.06
			39	22.50	22.14	22.24	22.09
		75	0	22.50	22.07	22.26	22.08
	16QAM	1	0	24.00	23.61	23.45	23.59
			38	24.00	23.58	23.43	23.45
			74	24.00	23.59	23.44	23.33
		36	0	22.00	21.63	21.38	21.12
			18	21.50	21.25	21.36	21.09
			39	21.50	21.19	21.44	21.06
		75	0	21.50	21.23	21.18	21.21
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
20MHz	QPSK	1	0	23.50	23.24	23.40	23.40
			50	23.50	23.30	23.41	23.26
			99	24.00	23.23	23.53	23.12
		50	0	22.50	22.23	22.22	22.27
			25	22.50	22.22	22.21	22.12
			50	22.50	22.05	22.25	21.98
		100	0	22.50	22.05	22.04	22.05
	16QAM	1	0	23.50	22.72	22.21	23.17
			50	23.00	22.75	22.23	22.91
			99	23.00	22.64	22.33	22.79
		50	0	22.00	21.68	21.15	21.30
			25	21.50	21.24	21.18	21.25
			50	21.50	21.37	21.23	21.20
		100	0	21.50	21.27	21.19	21.23

11.1.4 Conducted Power of LTE Band 4

LTE-FDD Band 4				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		19957	20175	20393
					1710.7MHz	1732.5MHz	1754.3MHz
1.4MHz	QPSK	1	0	24.00	23.33	23.38	23.55
			2	24.00	23.33	23.37	23.57
			5	24.00	23.29	23.34	23.53
		3	0	23.50	23.23	23.31	23.41
			2	23.50	23.24	23.26	23.48
			3	23.50	23.22	23.28	23.41
		6	0	22.50	22.28	22.28	22.36
	16QAM	1	0	24.00	23.70	22.83	22.45
			2	24.00	23.74	22.86	22.40
			5	24.00	23.70	22.87	22.46
		3	0	23.00	22.52	22.25	22.28
			2	23.00	22.51	22.28	22.25
			3	23.00	22.55	22.26	22.28
		6	0	22.00	21.48	21.55	21.36
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175	20385
					1711.5MHz	1732.5MHz	1753.5MHz
3MHz	QPSK	1	0	23.50	23.23	23.29	23.40
			7	23.50	23.26	23.33	23.36
			14	23.50	23.22	23.31	23.35
		8	0	22.50	22.34	22.32	22.40
			4	22.50	22.38	22.36	22.45
			7	22.50	22.15	22.32	22.42
		15	0	22.50	22.31	22.33	22.40
	16QAM	1	0	24.00	23.52	22.79	23.36
			7	23.50	23.46	22.72	23.38
			14	23.50	23.45	22.77	23.30
		8	0	22.00	21.51	21.29	21.27
			4	22.00	21.54	21.36	21.31
			7	21.50	21.50	21.34	21.21
		15	0	21.50	21.34	21.45	21.42
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19975	20175	20375
					1712.5MHz	1732.5MHz	1752.5MHz
5MHz	QPSK	1	0	23.50	23.27	23.38	23.28
			13	23.50	23.11	23.29	23.18
			24	23.50	23.20	23.35	23.17
		12	0	22.50	22.21	22.30	22.45
			6	22.50	22.34	22.29	22.50
			13	22.50	22.17	22.32	22.36
		25	0	22.50	22.20	22.33	22.50
	16QAM	1	0	24.00	23.00	22.96	23.52
			13	23.50	22.97	22.84	23.50
			24	23.50	22.90	22.91	23.50
		12	0	21.50	21.30	21.11	21.41
			6	21.50	21.19	21.13	21.42
			13	21.50	21.17	21.14	21.45
		25	0	22.00	21.27	21.44	21.62

LTE-FDD Band 4				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20000	20175	20350
					1715.0MHz	1732.5MHz	1750.0MHz
10MHz	QPSK	1	0	23.50	23.44	23.33	23.46
			25	23.50	23.43	23.34	23.44
			49	23.50	23.49	23.29	23.42
		25	0	22.50	22.33	22.32	22.48
			13	22.50	22.39	22.34	22.28
			25	22.50	22.23	22.42	22.41
		50	0	22.50	22.27	22.39	22.46
	16QAM	1	0	24.00	22.91	23.18	23.98
			25	24.00	22.83	23.09	23.99
			49	24.50	22.87	23.06	24.09
		25	0	22.00	21.24	21.34	21.58
			13	21.50	21.44	21.37	21.30
			25	21.50	21.45	21.44	21.38
		50	0	21.50	21.45	21.38	21.36
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20025	20175	20325
					1717.5MHz	1732.5MHz	1747.5MHz
15MHz	QPSK	1	0	23.50	23.32	23.29	23.50
			38	23.50	23.27	23.22	23.45
			74	24.00	23.31	23.20	23.56
		36	0	22.50	22.24	22.44	22.49
			18	22.50	22.25	22.38	22.50
			39	22.50	22.41	22.28	22.38
		75	0	22.50	22.30	22.33	22.48
	16QAM	1	0	24.00	23.91	23.56	23.74
			38	24.00	23.84	23.44	23.75
			74	24.00	23.84	23.41	23.82
		36	0	21.50	21.48	21.49	21.42
			18	22.00	21.38	21.46	21.67
			39	21.50	21.46	21.39	21.35
		75	0	22.00	21.31	21.36	21.72
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175	20300
					1720.0MHz	1732.5MHz	1745.0MHz
20MHz	QPSK	1	0	24.00	23.44	23.62	23.37
			50	24.00	23.37	23.54	23.47
			99	24.00	23.37	23.58	23.44
		50	0	22.50	22.23	22.45	22.41
			25	22.50	22.47	22.26	22.34
			50	22.50	22.43	22.27	22.30
		100	0	22.50	22.26	22.31	22.42
	16QAM	1	0	23.50	22.97	22.95	23.18
			50	23.50	22.99	22.90	23.13
			99	23.50	22.94	22.90	23.21
		50	0	22.00	21.53	21.33	21.44
			25	22.00	21.57	21.41	21.46
			50	21.50	21.45	21.26	21.47
		100	0	21.50	21.40	21.35	21.34

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	24.00	23.28	23.54	23.58
			2	24.00	23.26	23.56	23.66
			5	24.00	23.26	23.55	23.60
		3	0	24.00	23.29	23.47	23.52
			2	24.00	23.25	23.50	23.55
			3	24.00	23.23	23.49	23.60
		6	0	23.00	22.22	22.55	22.57
	16QAM	1	0	24.50	23.97	23.08	24.09
			2	24.50	23.91	23.10	24.02
			5	24.50	23.86	23.07	24.04
		3	0	23.00	22.47	22.55	22.88
			2	23.00	22.52	22.57	22.86
			3	23.00	22.49	22.60	22.82
		6	0	22.00	21.70	21.77	21.68
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	23.19	23.61	23.67
			7	24.00	23.16	23.57	23.65
			14	24.00	23.17	23.76	23.61
		8	0	23.00	22.19	22.52	22.59
			4	22.50	22.15	22.50	22.50
			7	23.00	22.29	22.51	22.47
		15	0	23.00	22.19	22.45	22.52
	16QAM	1	0	24.00	23.77	23.05	23.96
			7	24.00	23.77	23.15	23.97
			14	24.00	23.84	23.14	23.87
		8	0	22.00	21.43	21.85	21.56
			4	22.00	21.44	21.58	21.49
			7	22.00	21.18	21.61	21.58
		15	0	22.00	21.61	21.58	21.52

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	23.22	23.58	23.56
			13	24.00	23.21	23.57	23.56
			24	24.00	23.29	23.56	23.50
		12	0	23.00	22.18	22.54	22.50
			6	23.00	22.18	22.64	22.64
			13	23.00	22.26	22.61	22.48
		25	0	23.00	22.21	22.52	22.45
	16QAM	1	0	23.50	22.86	23.06	22.72
			13	23.50	22.91	23.14	22.72
			24	23.50	22.88	23.20	22.72
		12	0	22.00	21.50	21.70	21.45
			6	22.00	21.24	21.41	21.51
			13	21.50	21.19	21.43	21.39
		25	0	22.00	21.49	21.62	21.60
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	24.00	23.10	23.42	23.57
			25	24.00	23.29	23.51	23.57
			49	24.00	23.37	23.58	23.58
		25	0	23.00	22.23	22.38	22.62
			13	23.00	22.28	22.42	22.60
			25	23.00	22.46	22.58	22.68
		50	0	23.00	22.37	22.49	22.59
	16QAM	1	0	24.00	23.73	23.56	23.55
			25	24.00	23.78	23.77	23.45
			49	24.50	24.07	23.74	23.23
		25	0	22.50	21.34	21.94	22.01
			13	22.50	21.26	21.60	22.06
			25	22.00	21.79	21.69	21.63
		50	0	22.00	21.35	21.64	21.97

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	23.50	23.30	23.15	22.85
			13	23.50	23.35	23.16	22.93
			24	23.50	23.39	23.09	22.95
		12	0	22.50	22.33	22.15	22.14
			6	22.50	22.34	22.29	21.98
			13	22.50	22.40	22.20	22.12
		25	0	22.50	22.39	22.16	22.08
	16QAM	1	0	23.00	22.67	22.85	23.00
			13	23.00	22.62	22.74	22.93
			24	23.50	22.68	22.78	23.04
		12	0	21.50	21.41	21.37	21.13
			6	21.50	21.40	21.38	21.10
			13	21.50	21.37	21.34	21.01
		25	0	22.00	21.57	21.35	21.25
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20800	21100	21400
					2505.0MHz	2535.0MHz	2565.0MHz
10MHz	QPSK	1	0	23.50	23.35	23.28	23.15
			25	23.50	23.45	23.13	23.06
			49	23.50	23.43	23.19	23.15
		25	0	22.50	22.46	22.26	22.14
			13	22.50	22.44	22.30	22.10
			25	22.50	22.34	22.19	22.12
		50	0	22.50	22.37	22.34	22.13
	16QAM	1	0	24.50	24.25	23.64	23.13
			25	24.50	24.22	23.60	23.12
			49	24.50	24.30	23.66	23.17
		25	0	22.00	21.57	21.42	21.30
			13	22.00	21.57	21.45	21.33
			25	22.00	21.70	21.41	21.35
		50	0	22.00	21.64	21.46	21.22

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20825	21100	21375
					2057.5MHz	2535.0MHz	2562.5MHz
15MHz	QPSK	1	0	23.50	23.33	23.20	22.96
			38	23.50	23.31	23.13	22.99
			74	23.50	23.33	23.11	22.96
		36	0	22.50	22.39	22.37	22.14
			18	22.50	22.43	22.26	21.99
			39	22.50	22.32	22.21	22.09
		75	0	22.50	22.50	22.25	22.00
	16QAM	1	0	24.50	24.17	23.67	23.84
			38	24.50	24.21	23.53	23.78
			74	24.50	24.25	23.48	23.84
		36	0	22.00	21.69	21.61	21.16
			18	22.00	21.76	21.51	21.13
			39	22.00	21.59	21.48	21.18
		75	0	22.00	21.63	21.44	21.22
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	21350	21100	21350
					2560.0MHz	2535.0MHz	2560.0MHz
20MHz	QPSK	1	0	24.00	23.38	23.89	23.29
			50	24.00	23.44	23.73	23.11
			99	24.00	23.42	23.64	23.21
		50	0	23.00	22.51	22.20	22.17
			25	23.00	22.53	22.20	22.07
			50	23.00	22.51	22.23	22.18
		100	0	22.50	22.39	22.32	22.09
	16QAM	1	0	23.50	23.15	23.10	23.15
			50	23.50	23.23	22.90	23.10
			99	23.50	23.11	22.89	23.13
		50	0	22.00	21.68	21.64	21.32
			25	22.00	21.60	21.49	21.29
			50	22.00	21.63	21.36	21.34
		100	0	22.00	21.61	21.40	21.19

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	23095	23173
					699.7MHz	707.5MHz	715.5MHz
1.4MHz	QPSK	1	0	23.50	23.41	23.39	23.43
			2	23.50	23.32	23.41	23.46
			5	23.50	23.38	23.38	23.39
		3	0	23.50	23.34	23.35	23.32
			2	23.50	23.37	23.42	23.33
			3	23.50	23.27	23.44	23.19
		6	0	22.50	22.35	22.39	22.32
	16QAM	1	0	24.50	24.14	22.84	22.93
			2	24.50	24.10	22.99	22.94
			5	24.50	24.07	22.96	23.00
		3	0	23.00	22.67	22.53	22.23
			2	23.00	22.70	22.51	22.24
			3	23.00	22.60	22.55	22.17
		6	0	22.50	21.46	22.03	21.24
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz
3MHz	QPSK	1	0	24.00	23.34	23.40	23.56
			7	23.50	23.32	23.45	23.46
			14	23.50	23.32	23.49	23.42
		8	0	22.50	22.34	22.39	22.33
			4	23.00	22.31	22.52	22.32
			7	22.50	22.23	22.43	22.32
		15	0	23.00	22.35	22.56	22.51
	16QAM	1	0	24.00	23.92	22.97	23.01
			7	24.00	23.98	22.97	22.95
			14	24.00	23.80	22.99	22.97
		8	0	22.00	21.09	21.85	21.89
			4	22.00	21.07	21.87	21.82
			7	22.00	21.60	21.90	21.33
		15	0	22.00	21.44	21.86	21.85

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
5MHz	QPSK	1	0	24.00	23.29	23.51	23.36
			13	23.50	23.32	23.46	23.15
			24	23.50	23.28	23.48	23.06
		12	0	22.50	22.33	22.44	22.39
			6	23.00	22.28	22.52	22.53
			13	22.50	22.23	22.44	22.29
		25	0	22.50	22.29	22.49	22.44
	16QAM	1	0	23.50	23.01	23.07	23.50
			13	23.50	22.96	23.04	23.45
			24	23.50	23.11	22.99	23.32
		12	0	22.00	21.24	21.68	21.45
			6	22.00	21.63	21.68	21.76
			13	22.00	21.73	21.61	21.73
		25	0	22.00	21.88	21.83	21.98
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	22.50	23095	23130
					704.0MHz	707.5MHz	711.0MHz
10MHz	QPSK	1	0	24.00	23.28	23.36	23.53
			25	23.50	23.32	23.40	23.45
			49	23.50	23.34	23.37	23.38
		25	0	23.00	22.26	22.49	22.53
			13	22.50	22.42	22.46	22.41
			25	22.50	22.36	22.41	22.49
		50	0	23.00	22.39	22.51	22.38
	16QAM	1	0	24.00	23.72	23.51	23.40
			25	24.00	23.84	23.65	23.48
			49	24.00	23.87	23.51	23.32
		25	0	22.00	21.76	21.89	21.87
			13	22.00	21.41	21.93	21.89
			25	22.00	21.84	21.86	21.83
		50	0	22.00	21.52	21.89	21.79

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	23.50	23.31	23.19	23.37
			13	23.50	23.29	23.16	23.34
			24	23.50	23.31	23.15	23.19
		12	0	22.50	22.41	22.32	22.48
			6	22.50	22.37	22.41	22.34
			13	22.50	22.44	22.46	22.49
		25	0	22.50	22.41	22.39	22.35
	16QAM	1	0	24.00	22.70	23.51	23.07
			13	23.50	22.61	23.45	23.05
			24	23.50	22.62	23.47	22.98
		12	0	22.00	21.75	21.75	21.37
			6	22.00	21.66	21.76	21.70
			13	22.00	21.70	21.41	21.63
		25	0	22.00	21.87	21.92	21.92
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23780 709.0MHz	23790 710.0MHz	23800 711.0MHz
10MHz	QPSK	1	0	23.50	23.38	23.43	23.36
			25	23.50	23.35	23.48	23.43
			49	23.50	23.34	23.39	23.39
		25	0	22.50	22.26	22.45	22.37
			13	22.50	22.42	22.38	22.41
			25	23.00	22.51	22.47	22.50
		50	0	22.50	22.48	22.47	22.32
	16QAM	1	0	24.00	23.87	23.62	23.39
			25	24.00	23.85	23.55	23.38
			49	24.00	23.75	23.55	23.33
		25	0	22.00	21.90	21.92	21.86
			13	22.00	21.87	21.87	21.82
			25	22.00	21.47	21.46	21.84
		50	0	22.00	21.80	21.83	21.77

11.1.11Conducted Power of LTE Band 26(814-824)

LTE-FDD Band 26				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26697	26740	26783
					814.7 MHz	819.0MHz	823.3 MHz
1.4MHz	QPSK	1	0	23.50	23.45	23.33	23.20
			2	23.50	23.44	23.31	23.25
			5	23.50	23.36	23.35	23.28
		3	0	23.50	23.28	23.21	23.29
			2	23.50	23.32	23.31	23.22
			3	23.50	23.43	23.29	23.25
		6	0	22.50	22.49	22.37	22.20
	16QAM	1	0	24.50	24.11	22.74	22.68
			2	24.50	24.12	22.74	22.69
			5	24.50	24.08	22.78	22.75
		3	0	23.00	22.79	22.26	22.13
			2	23.00	22.76	22.24	22.11
			3	23.00	22.82	22.23	22.13
		6	0	22.00	21.62	21.40	21.80
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26705	26740	26775
					815.5 MHz	819.0MHz	822.5 MHz
3MHz	QPSK	1	0	23.50	23.45	23.38	23.28
			7	23.50	23.34	23.31	23.20
			14	23.50	23.29	23.35	23.20
		8	0	22.50	22.36	22.18	22.08
			4	22.50	22.42	22.31	22.14
			7	22.50	22.31	22.28	22.09
		15	0	22.50	22.38	22.25	22.10
	16QAM	1	0	24.50	24.07	22.80	22.66
			7	24.00	23.95	22.72	22.72
			14	24.00	23.94	22.57	22.71
		8	0	21.50	21.22	21.36	21.31
			4	22.00	21.19	21.32	21.75
			7	22.00	21.59	21.24	21.72
		15	0	22.00	21.45	21.27	21.70

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26715	26740	26765
					816.5 MHz	819.0MHz	821.5 MHz
5MHz	QPSK	1	0	23.50	23.42	23.39	23.10
			13	23.50	23.29	23.25	22.92
			24	23.50	23.29	23.18	22.94
		12	0	23.00	22.53	22.27	22.24
			6	22.50	22.38	22.19	22.22
			13	22.50	22.39	22.23	22.13
		25	0	22.50	22.29	22.36	22.19
	16QAM	1	0	23.50	23.07	22.97	23.40
			13	23.50	22.95	22.82	23.28
			24	23.50	22.91	22.78	23.29
		12	0	22.00	21.35	21.56	21.22
			6	22.00	21.58	21.11	21.17
			13	22.00	21.59	21.12	21.66
		25	0	22.00	21.84	21.36	21.41

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26740
					819.0MHz
10MHz	QPSK	1	0	23.50	23.42
			25	23.50	23.20
			49	23.50	23.12
		25	0	22.50	22.27
			13	22.50	22.36
			25	22.50	22.26
		50	0	22.50	22.30
	16QAM	1	0	24.00	23.94
			25	24.00	23.81
			49	24.00	23.69
		25	0	22.00	21.70
			13	21.50	21.36
			25	21.50	21.29
		50	0	21.50	21.34

11.1.12Conducted Power of LTE Band 26(824-849)

LTE-FDD Band 26				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26797	26915	27033
					824.7 MHz	836.5 MHz	848.3 MHz
1.4MHz	QPSK	1	0	24.00	23.37	23.76	23.54
			2	24.00	23.34	23.61	23.78
			5	24.00	23.37	23.71	23.69
		3	0	24.00	23.30	23.54	23.65
			2	24.00	23.22	23.62	23.55
			3	24.00	23.24	23.57	23.56
		6	0	23.00	22.19	22.55	22.36
	16QAM	1	0	24.50	24.10	23.10	23.19
			2	24.00	24.00	23.10	23.17
			5	24.00	23.99	23.15	23.23
		3	0	23.00	22.54	22.67	22.55
			2	23.00	22.65	22.63	22.42
			3	23.00	22.64	22.64	22.48
		6	0	22.00	21.45	21.78	21.54
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26805	26915	27025
					825.5 MHz	836.5 MHz	847.5 MHz
3MHz	QPSK	1	0	24.00	23.26	23.71	23.75
			7	24.00	23.27	23.71	23.78
			14	24.00	23.30	23.72	23.59
		8	0	23.00	22.24	22.64	22.59
			4	23.00	22.21	22.63	22.51
			7	23.00	22.35	22.63	22.46
		15	0	23.00	22.32	22.58	22.63
	16QAM	1	0	24.00	23.92	23.19	23.25
			7	24.00	23.91	23.14	23.21
			14	24.00	23.91	23.22	23.16
		8	0	22.00	21.23	21.71	21.65
			4	22.00	21.22	21.70	21.68
			7	22.00	21.23	21.70	21.61
		15	0	22.00	21.48	21.61	21.63

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26815 826.5 MHz	26915 836.5 MHz	27015 846.5 MHz
5MHz	QPSK	1	0	24.00	23.20	23.67	23.47
			13	24.00	23.32	23.66	23.46
			24	24.00	23.30	23.67	23.33
		12	0	23.00	22.35	22.59	22.62
			6	23.00	22.35	22.60	22.54
			13	23.00	22.43	22.57	22.52
		25	0	23.00	22.37	22.61	22.62
	16QAM	1	0	24.00	22.98	23.17	23.75
			13	24.00	22.93	23.15	23.70
			24	24.00	22.97	23.24	23.60
		12	0	21.50	21.35	21.50	21.43
			6	22.00	21.22	21.49	21.59
			13	22.00	21.24	21.43	21.56
		25	0	22.00	21.51	21.68	21.76
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26840 829 MHz	26915 836.5 MHz	26990 844 MHz
10MHz	QPSK	1	0	24.00	23.26	23.51	23.66
			25	24.00	23.28	23.58	23.73
			49	24.00	23.57	23.62	23.58
		25	0	23.00	22.22	22.57	22.68
			13	23.00	22.42	22.52	22.67
			25	23.00	22.50	22.63	22.61
		50	0	23.00	22.40	22.63	22.57
	16QAM	1	0	24.00	23.90	23.64	23.62
			25	24.00	23.95	23.81	23.47
			49	24.50	24.17	23.88	23.32
		25	0	22.00	21.37	21.65	21.79
			13	22.00	21.92	21.69	21.68
			25	22.00	21.59	21.76	21.70
		50	0	22.00	21.83	21.72	21.61
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26865 831.5 MHz	26915 836.5 MHz	26965 841.5 MHz
15MHz	QPSK	1	0	24.00	23.22	23.39	23.55
			38	24.00	23.49	23.57	23.55
			74	24.00	23.61	23.56	23.51
		36	0	23.00	22.32	22.68	22.76
			18	23.00	22.51	22.57	22.71
			39	23.00	22.66	22.73	22.66
		75	0	23.00	22.45	22.62	22.66
	16QAM	1	0	24.50	23.93	23.57	24.01
			38	24.50	24.06	23.82	23.96
			74	24.50	24.31	23.83	23.88
		36	0	22.00	21.88	21.73	21.76
			18	22.00	21.55	21.74	21.68
			39	22.00	21.74	21.84	21.67
		75	0	22.00	21.51	21.68	21.74

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	23.50	23.22	22.86	22.90
			13	23.00	22.53	22.91	22.89
			24	23.50	23.23	22.88	22.90
		12	0	22.50	22.28	22.04	21.81
			6	22.50	22.27	22.07	21.77
			13	22.50	22.13	21.93	21.76
		25	0	22.50	22.33	21.95	21.81
	16QAM	1	0	23.50	22.65	23.05	22.02
			13	23.00	22.62	22.93	21.90
			24	23.00	22.65	22.87	21.91
		12	0	21.50	21.39	21.21	20.82
			6	21.50	21.33	21.10	20.81
			13	21.50	21.36	21.07	20.78
		25	0	21.50	21.43	21.32	21.06
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37800	38000	38200
					2575.0MHz	2595.0MHz	2615.0MHz
10MHz	QPSK	1	0	23.50	23.32	23.20	22.87
			25	23.50	23.31	23.12	22.74
			49	23.50	23.20	23.21	22.63
		25	0	22.50	22.21	22.14	21.90
			13	22.50	22.30	22.05	21.94
			25	22.50	22.23	22.04	21.87
		50	0	22.50	22.25	22.07	21.78
	16QAM	1	0	24.50	24.15	22.39	22.85
			25	24.00	23.92	22.30	22.66
			49	24.00	23.88	22.35	22.70
		25	0	22.00	21.67	21.40	21.15
			13	22.00	21.58	21.30	21.07
			25	22.00	21.51	21.29	21.01
		50	0	21.50	21.34	21.31	21.01

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37825	38000	38175
					2577.5MHz	2595.0MHz	2612.5MHz
15MHz	QPSK	1	0	23.50	23.33	23.02	23.01
			38	23.00	21.71	22.68	22.81
			74	23.50	23.14	23.08	22.81
		36	0	22.50	22.20	22.06	21.98
			18	22.50	22.17	22.03	21.91
			39	22.50	22.08	22.10	21.72
		75	0	22.50	22.22	22.07	21.76
	16QAM	1	0	24.50	24.17	22.34	22.64
			38	24.00	23.91	22.30	22.46
			74	24.00	23.81	22.29	22.46
		36	0	21.50	21.26	21.22	21.08
			18	21.50	21.29	21.14	20.96
			39	21.50	21.19	21.26	20.89
		75	0	21.50	21.45	21.15	20.99
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	38750	38000	38150
					2580.0MHz	2595.0MHz	2610.0MHz
20MHz	QPSK	1	0	23.50	23.12	22.92	23.09
			50	23.50	23.03	23.03	22.96
			99	23.50	23.01	22.98	22.81
		50	0	22.50	22.11	22.14	21.95
			25	22.50	22.02	22.09	21.99
			50	22.50	21.95	22.08	21.78
		100	0	22.50	21.89	22.08	21.80
	16QAM	1	0	23.00	22.63	22.27	22.39
			50	23.00	22.54	22.26	22.21
			99	22.50	22.49	22.21	22.01
		50	0	21.50	21.37	21.24	21.06
			25	21.50	21.30	21.41	20.97
			50	21.50	21.41	21.31	20.92
		100	0	21.50	21.14	21.17	20.99

11.1.10Conducted 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	23.33	22.60	22.87	22.38	22.88
			13	23.00	22.39	22.14	22.89	22.35	22.80
			24	23.50	23.34	22.60	22.85	22.36	22.87
		12	0	23.00	22.55	21.80	22.04	21.44	21.83
			6	23.00	22.52	21.81	22.09	21.48	21.86
			13	22.50	22.36	21.71	22.06	21.40	21.74
		25	0	22.50	22.39	21.72	22.05	21.43	21.81
	16QAM	1	0	23.50	22.85	22.46	23.07	22.00	21.92
			13	23.00	22.79	22.35	22.90	21.95	22.00
			24	23.00	22.84	22.42	23.00	21.98	21.95
		12	0	22.00	21.64	20.92	21.19	20.48	20.76
			6	22.00	21.54	20.86	21.18	20.51	20.83
			13	22.00	21.61	20.92	21.22	20.47	20.71
		25	0	22.00	21.51	20.96	21.41	20.70	20.99
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	23.28	22.71	23.13	22.42	22.71
			25	23.50	23.28	22.78	23.27	22.42	22.57
			49	23.50	23.36	22.75	23.13	22.38	22.63
		25	0	23.00	22.53	21.80	22.06	21.45	21.84
			13	22.50	22.43	21.79	22.14	21.49	21.84
			25	22.50	22.44	21.71	21.98	21.39	21.80
		50	0	22.50	22.49	21.77	22.04	21.39	21.74
	16QAM	1	0	24.00	23.95	22.66	22.36	22.03	22.69
			25	24.00	23.93	22.66	22.39	22.02	22.65
			49	24.00	23.85	22.61	22.37	22.01	22.64
		25	0	22.00	21.80	21.07	21.34	20.63	20.92
			13	22.00	21.72	21.01	21.29	20.62	20.94
			25	22.00	21.72	21.03	21.33	20.69	21.05
		50	0	22.00	21.55	20.94	21.33	20.56	20.79

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	23.50	23.41	22.83	23.25	22.49	22.73
			38	23.50	23.05	22.43	22.81	22.24	22.67
			74	23.50	23.23	22.74	23.25	22.49	22.73
		36	0	22.50	22.45	21.78	22.11	21.40	21.69
			18	22.50	22.38	21.73	22.07	21.40	21.72
			39	22.50	22.43	21.77	22.10	21.39	21.67
		75	0	22.50	22.42	21.70	21.98	21.38	21.78
	16QAM	1	0	24.50	24.04	22.74	22.44	22.08	22.71
			38	24.00	23.88	22.61	22.34	21.98	22.62
			74	24.00	23.74	22.53	22.32	21.97	22.61
		36	0	22.00	21.64	20.94	21.23	20.57	20.91
			18	21.50	21.47	20.85	21.23	20.60	20.96
			39	21.50	21.50	20.90	21.30	20.61	20.91
		75	0	22.00	21.62	20.90	21.17	20.52	20.86
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	23.50	23.38	22.71	23.03	22.46	22.88
			50	23.50	23.30	22.67	23.04	22.39	22.74
			99	23.50	23.03	22.56	23.09	22.46	22.82
		50	0	22.50	22.32	21.72	22.11	21.48	21.85
			25	22.50	22.22	21.69	22.15	21.49	21.82
			50	22.50	22.19	21.58	21.97	21.36	21.75
		100	0	22.50	22.29	21.65	22.00	21.34	21.67
	16QAM	1	0	23.00	22.69	21.87	22.05	21.36	21.67
			50	23.00	22.53	21.85	22.17	21.31	21.44
			99	22.50	22.33	21.84	22.35	21.58	21.81
		50	0	22.00	21.59	20.90	21.20	20.54	20.87
			25	22.00	21.52	20.82	21.12	20.51	20.89
			50	21.50	21.46	20.78	21.10	20.52	20.94
		100	0	21.50	21.37	20.82	21.26	20.58	20.89

11.1.12Conducted Power of LTE Band 66

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		131979	132322	132665
					1710.7MHz	1755.0MHz	1779.3MHz
1.4MHz	QPSK	1	0	24.00	23.23	23.58	23.37
			2	24.00	23.27	23.57	23.42
			5	24.00	23.27	23.56	23.32
		3	0	23.50	23.28	23.37	23.33
			2	23.50	23.21	23.42	23.37
			3	23.50	23.23	23.37	23.40
		6	0	22.50	22.35	22.42	22.47
	16QAM	1	0	24.00	23.05	23.51	23.16
			2	23.50	23.06	23.50	23.16
			5	23.50	23.08	23.50	23.16
		3	0	23.00	22.72	22.31	22.81
			2	23.00	22.62	22.32	22.83
			3	23.00	22.56	22.33	22.76
		6	0	22.00	21.46	21.23	21.62
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131987	132322	132657
					1711.5MHz	1755.0MHz	1778.5MHz
3MHz	QPSK	1	0	24.00	23.28	23.55	23.24
			7	24.00	23.27	23.63	23.39
			14	24.00	23.23	23.56	23.35
		8	0	22.50	22.24	22.35	22.29
			4	22.50	22.28	22.38	22.40
			7	22.50	22.32	22.33	22.48
		15	0	22.50	22.33	22.40	22.46
	16QAM	1	0	24.00	23.89	23.38	23.85
			7	24.00	23.89	23.28	23.98
			14	24.00	23.90	23.37	23.97
		8	0	21.50	21.09	21.35	21.24
			4	21.50	21.15	21.32	21.40
			7	21.50	21.11	21.32	21.38
		15	0	22.00	21.40	21.38	21.56
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131997	132322	132647
					1712.5MHz	1755.0MHz	1775.0MHz
5MHz	QPSK	1	0	23.50	23.17	23.50	23.10
			13	23.50	23.12	23.44	23.08
			24	23.50	23.20	23.41	23.22
		12	0	22.50	22.30	22.40	22.36
			6	22.50	22.18	22.33	22.35
			13	22.50	22.24	22.33	22.49
		25	0	22.50	22.24	22.44	22.39
	16QAM	1	0	23.50	22.88	23.01	23.41
			13	23.50	22.91	22.96	23.34
			24	23.50	22.87	23.04	23.47
		12	0	22.00	21.23	21.60	21.34
			6	21.50	21.20	21.20	21.34
			13	21.50	21.20	21.23	21.44
		25	0	21.50	21.41	21.46	21.49

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		132022	132322	132622
					1715.0MHz	1755.0MHz	1775.0MHz
10MHz	QPSK	1	0	23.50	23.20	23.48	23.32
			25	23.50	23.24	23.46	23.35
			49	24.00	23.30	23.52	23.44
		25	0	22.50	22.30	22.41	22.34
			13	22.50	22.20	22.33	22.40
			25	22.50	22.33	22.46	22.41
		50	0	22.50	22.23	22.50	22.32
	16QAM	1	0	24.00	23.83	23.41	23.14
			25	24.00	23.83	23.43	23.06
			49	24.00	23.82	23.45	23.25
		25	0	22.00	21.37	21.79	21.44
			13	22.00	21.71	21.48	21.38
			25	22.00	21.72	21.51	21.40
		50	0	22.00	21.72	21.41	21.32
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132047	132322	132597
					1717.5MHz	1755.0MHz	1772.5MHz
15MHz	QPSK	1	0	23.50	23.28	23.45	23.31
			38	23.50	23.28	23.46	23.24
			74	23.50	23.28	23.47	23.27
		36	0	22.50	22.30	22.41	22.36
			18	22.50	22.41	22.44	22.44
			39	22.50	22.46	22.50	22.39
		75	0	22.50	22.25	22.41	22.42
	16QAM	1	0	24.00	23.83	23.51	23.75
			38	24.00	23.90	23.42	23.56
			74	24.00	23.91	23.52	23.81
		36	0	22.00	21.69	21.53	21.27
			18	22.00	21.80	21.56	21.27
			39	22.00	21.50	21.83	21.32
		75	0	22.00	21.61	21.46	21.42
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322	132572
					1720.0MHz	1755.0MHz	1770.0MHz
20MHz	QPSK	1	0	24.00	23.39	23.74	23.45
			50	24.00	23.43	23.74	23.36
			99	24.00	23.38	23.79	23.46
		50	0	22.50	22.23	22.26	22.29
			25	22.50	22.37	22.31	22.34
			50	22.50	22.38	22.48	22.24
		100	0	22.50	22.24	22.38	22.36
	16 QAM	1	0	23.50	22.97	22.39	23.32
			50	23.50	22.95	22.44	23.04
			99	23.50	22.91	22.44	23.22
		50	0	22.00	21.76	21.35	21.46
			25	22.00	21.78	21.36	21.35
			50	22.00	21.46	21.74	21.41
		100	0	22.00	21.74	21.37	21.30

11.1.25Conducted Power of Wi-Fi 2.4G

Mode	802.11b		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	16.48	18.24	15.88
Mode	802.11g		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	16.34	16.29	17.55
Mode	802.11n(HT20)		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	18.23	18.13	17.68

11.1.27 Conducted Power of BT

EDR	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	9.50	9.05	7.67	7.72
	π/4QPSK	7.00	6.55	5.44	6.23
	8DPSK	7.50	7.18	6.12	6.84
BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	19	39
			2402MHz	2440MHz	2480MHz
	1Mbps	-1.00	-1.33	-1.57	-1.20

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (dBm)	Exclusion thresholds for 1-g SAR(dBm)	SAR evaluation required
0	2402	9.50	9.05	4.77	Yes
39	2480	-1.00	-1.20	4.77	No

Note

1. 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:

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

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

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.

2. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.

3 . The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

11.1.28 Tune-up power tolerance

Band	Tune-up power tolerance(dBm)		
GSM850	GSM/GPRS (GMSK)	GSM	Max output power =33.00 ±1.0dBm
		1TXslots	Max output power =33.00 ±1.0dBm
		2TXslots	Max output power =30.50 ±1.0dBm
		3TXslots	Max output power =28.50 ±1.0dBm
		4TXslots	Max output power =26.00 ±1.0dBm
	EGPRS (8-PSK)	1TXslots	Max output power =25.50 ±1.0dBm
		2TXslots	Max output power =24.50 ±1.0dBm
		3TXslots	Max output power =22.00 ±1.0dBm
		4TXslots	Max output power =20.00 ±1.0dBm
GSM1900	GSM/GPRS (GMSK)	GSM	Max output power =29.50 ±1.0dBm
		1TXslots	Max output power =29.50 ±1.0dBm
		2TXslots	Max output power =27.00 ±1.0dBm
		3TXslots	Max output power =25.50 ±1.0dBm
		4TXslots	Max output power =23.00 ±1.0dBm
	EGPRS (8-PSK)	1TXslots	Max output power =25.50 ±1.0dBm
		2TXslots	Max output power =24.00 ±1.0dBm
		3TXslots	Max output power =22.00 ±1.0dBm
		4TXslots	Max output power =19.50 ±1.0dBm
WCDMA 2	Max output power =22.00±1.0dBm		
WCDMA 4	Max output power =22.00±1.0dBm		
WCDMA 5	Max output power =22.50±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 =24.50±1.0dBm		
LTE B7	Max output power =24.50±1.0dBm		
LTE B12	Max output power =24.50±1.0dBm		
LTE B17	Max output power =24.00±1.0dBm		
LTE B26	Max output power =24.50±1.0dBm		
LTE B26	Max output power =24.50±1.0dBm		
LTE B38	Max output power =24.50±1.0dBm		
LTE B41	Max output power =24.50±1.0dBm		
LTE B66	Max output power =24.00±1.0dBm		
2.4G WIFI	802.11b	Max output power =18.50±1.0dBm	
	802.11g	Max output power =18.00±1.0dBm	
	802.11n (HT20)	Max output power =18.50±1.0dBm	
BT	GFSK mode	Max output power =9.50±1.0dBm	
	π/4DQPSK mode	Max output power =7.00±1.0dBm	
	8DPSK mode	Max output power =7.50±1.0dBm	
BLE	1Mbps Power	Max output power =-1.00±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 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: ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz. When the maximum output power variation across the required test channels is > ½ 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 <= 0.4 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 <= 0.8 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 <= 0.8 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 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 <= 1.2 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 ≥0.8W/Kg; if the deviation among the repeated measurement is ≤20%,and the measured SAR <1.45W/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≤ 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	251	848.8	0.05	0.232	100	1.00	32.68	33.00	1.076	0.250
	Left Tilt	251	848.8	-0.04	0.130	100	1.00	32.68	33.00	1.076	0.140
	Right Cheek	251	848.8	-0.04	0.270	100	1.00	32.68	33.00	1.076	0.291
	Right Tilt	251	848.8	0.03	0.179	100	1.00	32.68	33.00	1.076	0.193
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	251	848.8	-0.11	0.190	100	1.00	32.68	33.00	1.076	0.205
	Back	251	848.8	-0.06	0.288	100	1.00	32.68	33.00	1.076	0.310
	Left	251	848.8	-0.09	0.081	100	1.00	32.68	33.00	1.076	0.087
	right	251	848.8	0.12	0.073	100	1.00	32.68	33.00	1.076	0.079
	Top	251	848.8	-0.16	0.017	100	1.00	32.68	33.00	1.076	0.018
	Bottom	251	848.8	0.08	0.232	100	1.00	32.68	33.00	1.076	0.250

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	810	1909.8	0.150	0.269	100	1.00	29.77	30.00	1.054	0.284
	Left Tilt	810	1909.8	0.140	0.246	100	1.00	29.77	30.00	1.054	0.259
	Right Cheek	810	1909.8	-0.040	0.416	100	1.00	29.77	30.00	1.054	0.439
	Right Tilt	810	1909.8	0.050	0.484	100	1.00	29.77	30.00	1.054	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)
GPRS 1900+4slots	Front	810	1909.8	0.140	0.098	100	1.00	29.77	30.00	1.054	0.103
	Back	810	1909.8	-0.080	0.150	100	1.00	29.77	30.00	1.054	0.158
	Left	810	1909.8	0.070	0.102	100	1.00	29.77	30.00	1.054	0.108
	right	810	1909.8	0.170	0.033	100	1.00	29.77	30.00	1.054	0.035
	Top	810	1909.8	-0.170	0.093	100	1.00	29.77	30.00	1.054	0.098
	Bottom	810	1909.8	-0.150	0.005	100	1.00	29.77	30.00	1.054	0.005

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	0.192	0.333	100	1.00	21.80	22.00	1.047	0.349
	Left Tilt	9538	1907.6	0.202	0.437	100	1.00	21.80	22.00	1.047	0.458
	Right Cheek	9538	1907.6	0.207	0.383	100	1.00	21.80	22.00	1.047	0.401
	Right Tilt	9538	1907.6	0.242	0.506	100	1.00	21.80	22.00	1.047	0.530
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	0.07	0.129	100	1.00	21.80	22.00	1.047	0.135
	Back	9538	1907.6	0.106	0.190	100	1.00	21.80	22.00	1.047	0.199
	Left	9538	1907.6	0.071	0.125	100	1.00	21.80	22.00	1.047	0.131
	right	9538	1907.6	0.059	0.069	100	1.00	21.80	22.00	1.047	0.072
	Top	9538	1907.6	0.067	0.119	100	1.00	21.80	22.00	1.047	0.125
	Bottom	9538	1907.6	0.003	0.004	100	1.00	21.80	22.00	1.047	0.004

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	1513	1752.6	0.130	0.379	100	1.00	21.82	22.00	1.042	0.395
	Left Tilt	1513	1752.6	-0.190	0.353	100	1.00	21.82	22.00	1.042	0.368
	Right Cheek	1513	1752.6	0.060	0.648	100	1.00	21.82	22.00	1.042	0.675
	Right Tilt	1513	1752.6	-0.050	0.558	100	1.00	21.82	22.00	1.042	0.582
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	1513	1752.6	0.100	0.160	100	1.00	21.82	22.00	1.042	0.167
	Back	1513	1752.6	-0.080	0.245	100	1.00	21.82	22.00	1.042	0.255
	Left	1513	1752.6	-0.160	0.084	100	1.00	21.82	22.00	1.042	0.088
	right	1513	1752.6	-0.020	0.142	100	1.00	21.82	22.00	1.042	0.148
	Top	1513	1752.6	0.020	0.124	100	1.00	21.82	22.00	1.042	0.129
	Bottom	1513	1752.6	0.100	0.013	100	1.00	21.82	22.00	1.042	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)
WCDMA Band 5 (RMC*)	Left Cheek	4132	826.4	0.140	0.138	100	1.00	22.13	22.50	1.089	0.150
	Left Tilt	4132	826.4	0.110	0.074	100	1.00	22.13	22.50	1.089	0.081
	Right Cheek	4132	826.4	-0.030	0.159	100	1.00	22.13	22.50	1.089	0.173
	Right Tilt	4132	826.4	0.080	0.085	100	1.00	22.13	22.50	1.089	0.093
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	-0.060	0.148	100	1.00	22.13	22.50	1.089	0.161
	Back	4132	826.4	-0.050	0.172	100	1.00	22.13	22.50	1.089	0.187
	Left	4132	826.4	0.200	0.108	100	1.00	22.13	22.50	1.089	0.118
	right	4132	826.4	0.060	0.124	100	1.00	22.13	22.50	1.089	0.135
	Top	4132	826.4	-0.030	0.110	100	1.00	22.13	22.50	1.089	0.120
	Bottom	4132	826.4	0.050	0.007	100	1.00	22.13	22.50	1.089	0.008

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	18615	1851.5	0.15	0.384	100	1.00	23.70	24.00	1.072	0.411
		Left Tilt	18615	1851.5	0.08	0.309	100	1.00	23.70	24.00	1.072	0.331
		Right Cheek	18615	1851.5	0.01	0.676	100	1.00	23.70	24.00	1.072	0.724
		Right Tilt	18615	1851.5	-0.09	0.633	100	1.00	23.70	24.00	1.072	0.678
	50%RB	Left Cheek	18615	1851.5	-0.19	0.305	100	1.00	23.70	24.00	1.072	0.327
		Left Tilt	18615	1851.5	-0.03	0.260	100	1.00	23.70	24.00	1.072	0.279
		Right Cheek	18615	1851.5	0.01	0.543	100	1.00	23.70	24.00	1.072	0.582
		Right Tilt	18615	1851.5	-0.15	0.506	100	1.00	23.70	24.00	1.072	0.542
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	18615	1851.5	0.19	0.161	100	1.00	23.70	24.00	1.072	0.173
		Back	18615	1851.5	-0.10	0.255	100	1.00	23.70	24.00	1.072	0.273
		Left	18615	1851.5	0.18	0.131	100	1.00	23.70	24.00	1.072	0.140
		right	18615	1851.5	0.05	0.107	100	1.00	23.70	24.00	1.072	0.115
		Top	18615	1851.5	0.09	0.143	100	1.00	23.70	24.00	1.072	0.153
		Bottom	18615	1851.5	-0.02	0.006	100	1.00	23.70	24.00	1.072	0.006
	50%RB	Front	18615	1851.5	0.10	0.129	100	1.00	23.70	24.00	1.072	0.138
		Back	18615	1851.5	0.06	0.219	100	1.00	23.70	24.00	1.072	0.235
		Left	18615	1851.5	-0.14	0.104	100	1.00	23.70	24.00	1.072	0.111
		right	18615	1851.5	0.12	0.084	100	1.00	23.70	24.00	1.072	0.090
		Top	18615	1851.5	-0.05	0.120	100	1.00	23.70	24.00	1.072	0.129
		Bottom	18615	1851.5	0.08	0.005	100	1.00	23.70	24.00	1.072	0.005

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	20350	1750.0	-0.120	0.248	100	1.00	24.09	24.50	1.099	0.273
		Left Tilt	20350	1750.0	0.010	0.476	100	1.00	24.09	24.50	1.099	0.523
		Right Cheek	20350	1750.0	-0.050	0.325	100	1.00	24.09	24.50	1.099	0.357
		Right Tilt	20350	1750.0	0.050	0.577	100	1.00	24.09	24.50	1.099	0.634
	50%RB	Left Cheek	20350	1750.0	-0.050	0.206	100	1.00	24.09	24.50	1.099	0.226
		Left Tilt	20350	1750.0	-0.080	0.399	100	1.00	24.09	24.50	1.099	0.439
		Right Cheek	20350	1750.0	0.180	0.278	100	1.00	24.09	24.50	1.099	0.306
		Right Tilt	20350	1750.0	-0.010	0.494	100	1.00	24.09	24.50	1.099	0.543
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	20350	1750.0	0.080	0.144	100	1.00	24.09	24.50	1.099	0.158
		Back	20350	1750.0	-0.110	0.177	100	1.00	24.09	24.50	1.099	0.195
		Left	20350	1750.0	0.190	0.123	100	1.00	24.09	24.50	1.099	0.135
		right	20350	1750.0	0.050	0.090	100	1.00	24.09	24.50	1.099	0.099
		Top	20350	1750.0	-0.070	0.116	100	1.00	24.09	24.50	1.099	0.127
		Bottom	20350	1750.0	-0.090	0.005	100	1.00	24.09	24.50	1.099	0.005
	50%RB	Front	20350	1750.0	0.060	0.116	100	1.00	24.09	24.50	1.099	0.127
		Back	20350	1750.0	-0.160	0.149	100	1.00	24.09	24.50	1.099	0.164
		Left	20350	1750.0	-0.040	0.097	100	1.00	24.09	24.50	1.099	0.107
		right	20350	1750.0	0.170	0.075	100	1.00	24.09	24.50	1.099	0.082
		Top	20350	1750.0	0.120	0.097	100	1.00	24.09	24.50	1.099	0.107
		Bottom	20350	1750.0	0.050	0.004	100	1.00	24.09	24.50	1.099	0.004

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	20643	843.3	-0.090	0.130	100	1.00	24.09	24.50	1.099	0.143
		Left Tilt	20643	843.3	-0.170	0.069	100	1.00	24.09	24.50	1.099	0.076
		Right Cheek	20643	843.3	0.050	0.147	100	1.00	24.09	24.50	1.099	0.162
		Right Tilt	20643	843.3	0.140	0.084	100	1.00	24.09	24.50	1.099	0.092
	50%RB	Left Cheek	20643	843.3	0.020	0.115	100	1.00	24.09	24.50	1.099	0.126
		Left Tilt	20643	843.3	0.050	0.058	100	1.00	24.09	24.50	1.099	0.064
		Right Cheek	20643	843.3	-0.030	0.135	100	1.00	24.09	24.50	1.099	0.148
		Right Tilt	20643	843.3	0.065	0.120	100	1.00	24.09	24.50	1.099	0.132
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	20643	843.3	0.070	0.153	100	1.00	24.09	24.50	1.099	0.168
		Back	20643	843.3	-0.040	0.240	100	1.00	24.09	24.50	1.099	0.264
		Left	20643	843.3	-0.050	0.091	100	1.00	24.09	24.50	1.099	0.100
		Right	20643	843.3	0.100	0.070	100	1.00	24.09	24.50	1.099	0.077
		Top	20643	843.3	0.180	0.003	100	1.00	24.09	24.50	1.099	0.003
		Bottom	20643	843.3	-0.080	0.188	100	1.00	24.09	24.50	1.099	0.207
	50%RB	Front	20643	843.3	-0.030	0.128	100	1.00	24.09	24.50	1.099	0.141
		Back	20643	843.3	0.080	0.221	100	1.00	24.09	24.50	1.099	0.243
		Left	20643	843.3	0.050	0.062	100	1.00	24.09	24.50	1.099	0.068
		Right	20643	843.3	-0.120	0.084	100	1.00	24.09	24.50	1.099	0.092
		Top	20643	843.3	-0.150	0.003	100	1.00	24.09	24.50	1.099	0.003
		Bottom	20643	843.3	0.060	0.156	100	1.00	24.09	24.50	1.099	0.171

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	20800	2505.0	0.140	0.387	100	1.00	24.30	24.50	1.047	0.405
		Left Tilt	20800	2505.0	-0.060	0.528	100	1.00	24.30	24.50	1.047	0.553
		Right Cheek	20800	2505.0	-0.180	0.873	100	1.00	24.30	24.50	1.047	0.914
		Right Tilt	20800	2505.0	-0.010	1.050	100	1.00	24.30	24.50	1.047	1.099
	50%RB	Left Cheek	20800	2505.0	0.090	0.316	100	1.00	24.30	24.50	1.047	0.331
		Left Tilt	20800	2505.0	-0.130	0.475	100	1.00	24.30	24.50	1.047	0.497
		Right Cheek	20800	2505.0	0.150	0.802	100	1.00	24.30	24.50	1.047	0.840
		Right Tilt	20800	2505.0	-0.080	0.916	100	1.00	24.30	24.50	1.047	0.959
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	20800	2505.0	-0.050	0.219	100	1.00	24.30	24.50	1.047	0.229
		Back	20800	2505.0	-0.030	0.294	100	1.00	24.30	24.50	1.047	0.308
		Left	20800	2505.0	0.090	0.192	100	1.00	24.30	24.50	1.047	0.201
		Right	20800	2505.0	0.180	0.127	100	1.00	24.30	24.50	1.047	0.133
		Top	20800	2505.0	0.050	0.168	100	1.00	24.30	24.50	1.047	0.176
		Bottom	20800	2505.0	-0.060	0.007	100	1.00	24.30	24.50	1.047	0.007
	50%RB	Front	20800	2505.0	0.060	0.186	100	1.00	24.30	24.50	1.047	0.195
		Back	20800	2505.0	0.140	0.259	100	1.00	24.30	24.50	1.047	0.271
		Left	20800	2505.0	-0.120	0.172	100	1.00	24.30	24.50	1.047	0.180
		Right	20800	2505.0	0.110	0.109	100	1.00	24.30	24.50	1.047	0.114
		Top	20800	2505.0	0.090	0.135	100	1.00	24.30	24.50	1.047	0.141
		Bottom	20800	2505.0	-0.130	0.060	100	1.00	24.30	24.50	1.047	0.063

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	0.050	0.116	100	1.00	24.14	24.50	1.086	0.126
		Left Tilt	23017	699.7	0.030	0.063	100	1.00	24.14	24.50	1.086	0.068
		Right Cheek	23017	699.7	0.020	0.124	100	1.00	24.14	24.50	1.086	0.135
		Right Tilt	23017	699.7	0.080	0.071	100	1.00	24.14	24.50	1.086	0.077
	50%RB	Left Cheek	23017	699.7	-0.060	0.102	100	1.00	24.14	24.50	1.086	0.111
		Left Tilt	23017	699.7	0.010	0.051	100	1.00	24.14	24.50	1.086	0.055
		Right Cheek	23017	699.7	0.030	0.111	100	1.00	24.14	24.50	1.086	0.121
		Right Tilt	23017	699.7	-0.010	0.062	100	1.00	24.14	24.50	1.086	0.067
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	-0.030	0.169	100	1.00	24.14	24.50	1.086	0.184
		Back	23017	699.7	-0.030	0.204	100	1.00	24.14	24.50	1.086	0.222
		Left	23017	699.7	-0.050	0.083	100	1.00	24.14	24.50	1.086	0.090
		Right	23017	699.7	0.070	0.075	100	1.00	24.14	24.50	1.086	0.081
		Top	23017	699.7	-0.170	0.036	100	1.00	24.14	24.50	1.086	0.039
		Bottom	23017	699.7	0.060	0.045	100	1.00	24.14	24.50	1.086	0.049
	50%RB	Front	23017	699.7	0.060	0.148	100	1.00	24.14	24.50	1.086	0.161
		Back	23017	699.7	-0.020	0.186	100	1.00	24.14	24.50	1.086	0.202
		Left	23017	699.7	0.140	0.076	100	1.00	24.14	24.50	1.086	0.083
		Right	23017	699.7	-0.080	0.065	100	1.00	24.14	24.50	1.086	0.071
		Top	23017	699.7	-0.160	0.031	100	1.00	24.14	24.50	1.086	0.034
		Bottom	23017	699.7	-0.120	0.038	100	1.00	24.14	24.50	1.086	0.041

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	23780	709.0	0.180	0.112	100	1.00	23.87	24.00	1.030	0.115
		Left Tilt	23780	709.0	-0.060	0.067	100	1.00	23.87	24.00	1.030	0.069
		Right Cheek	23780	709.0	-0.060	0.131	100	1.00	23.87	24.00	1.030	0.135
		Right Tilt	23780	709.0	0.040	0.097	100	1.00	23.87	24.00	1.030	0.100
	50%RB	Left Cheek	23780	709.0	0.050	0.106	100	1.00	23.87	24.00	1.030	0.109
		Left Tilt	23780	709.0	-0.020	0.057	100	1.00	23.87	24.00	1.030	0.059
		Right Cheek	23780	709.0	-0.040	0.118	100	1.00	23.87	24.00	1.030	0.122
		Right Tilt	23780	709.0	0.030	0.088	100	1.00	23.87	24.00	1.030	0.091
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	23780	709.0	0.040	0.153	100	1.00	23.87	24.00	1.030	0.158
		Back	23780	709.0	-0.100	0.207	100	1.00	23.87	24.00	1.030	0.213
		Left	23780	709.0	-0.030	0.102	100	1.00	23.87	24.00	1.030	0.105
		Right	23780	709.0	-0.050	0.076	100	1.00	23.87	24.00	1.030	0.078
		Top	23780	709.0	0.070	0.052	100	1.00	23.87	24.00	1.030	0.054
		Bottom	23780	709.0	-0.150	0.048	100	1.00	23.87	24.00	1.030	0.049
	50%RB	Front	23780	709.0	-0.020	0.144	100	1.00	23.87	24.00	1.030	0.148
		Back	23780	709.0	0.050	0.189	100	1.00	23.87	24.00	1.030	0.195
		Left	23780	709.0	0.090	0.094	100	1.00	23.87	24.00	1.030	0.097
		Right	23780	709.0	-0.110	0.068	100	1.00	23.87	24.00	1.030	0.070
		Top	23780	709.0	-0.140	0.049	100	1.00	23.87	24.00	1.030	0.050
		Bottom	23780	709.0	-0.100	0.040	100	1.00	23.87	24.00	1.030	0.041

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 26 (BW: 1.4MHz)	1RB	Left Cheek	26697	814.7	-0.150	0.054	100	1.00	24.12	24.50	1.091	0.059
		Left Tilt	26697	814.7	-0.190	0.035	100	1.00	24.12	24.50	1.091	0.038
		Right Cheek	26697	814.7	-0.190	0.067	100	1.00	24.12	24.50	1.091	0.073
		Right Tilt	26697	814.7	0.180	0.043	100	1.00	24.12	24.50	1.091	0.047
	50%RB	Left Cheek	26697	814.7	-0.080	0.043	100	1.00	24.12	24.50	1.091	0.047
		Left Tilt	26697	814.7	-0.090	0.029	100	1.00	24.12	24.50	1.091	0.032
		Right Cheek	26697	814.7	-0.180	0.054	100	1.00	24.12	24.50	1.091	0.059
		Right Tilt	26697	814.7	-0.140	0.035	100	1.00	24.12	24.50	1.091	0.038
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 26 (BW: 1.4MHz)	1RB	Front	26697	814.7	-0.110	0.054	100	1.00	24.12	24.50	1.091	0.059
		Back	26697	814.7	-0.190	0.075	100	1.00	24.12	24.50	1.091	0.082
		Left	26697	814.7	0.010	0.037	100	1.00	24.12	24.50	1.091	0.040
		Right	26697	814.7	0.110	0.050	100	1.00	24.12	24.50	1.091	0.055
		Top	26697	814.7	0.110	0.002	100	1.00	24.12	24.50	1.091	0.002
		Bottom	26697	814.7	0.180	0.048	100	1.00	24.12	24.50	1.091	0.052
	50%RB	Front	26697	814.7	-0.110	0.043	100	1.00	24.12	24.50	1.091	0.047
		Back	26697	814.7	0.100	0.064	100	1.00	24.12	24.50	1.091	0.070
		Left	26697	814.7	-0.190	0.030	100	1.00	24.12	24.50	1.091	0.033
		Right	26697	814.7	0.190	0.040	100	1.00	24.12	24.50	1.091	0.044
		Top	26697	814.7	0.010	0.002	100	1.00	24.12	24.50	1.091	0.002
		Bottom	26697	814.7	-0.140	0.038	100	1.00	24.12	24.50	1.091	0.041

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 26 (BW: 10MHz)	1RB	Left Cheek	26865	831.5	-0.160	0.112	100	1.00	24.31	24.50	1.045	0.117
		Left Tilt	26865	831.5	0.050	0.073	100	1.00	24.31	24.50	1.045	0.076
		Right Cheek	26865	831.5	-0.090	0.154	100	1.00	24.31	24.50	1.045	0.161
		Right Tilt	26865	831.5	0.010	0.082	100	1.00	24.31	24.50	1.045	0.086
	50%RB	Left Cheek	26865	831.5	-0.130	0.099	100	1.00	24.31	24.50	1.045	0.103
		Left Tilt	26865	831.5	0.040	0.064	100	1.00	24.31	24.50	1.045	0.067
		Right Cheek	26865	831.5	-0.100	0.136	100	1.00	24.31	24.50	1.045	0.142
		Right Tilt	26865	831.5	0.030	0.072	100	1.00	24.31	24.50	1.045	0.075
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 26 (BW: 10MHz)	1RB	Front	26865	831.5	-0.090	0.224	100	1.00	24.31	24.50	1.045	0.234
		Back	26865	831.5	-0.080	0.303	100	1.00	24.31	24.50	1.045	0.317
		Left	26865	831.5	0.140	0.221	100	1.00	24.31	24.50	1.045	0.231
		Right	26865	831.5	-0.040	0.170	100	1.00	24.31	24.50	1.045	0.178
		Top	26865	831.5	0.120	0.200	100	1.00	24.31	24.50	1.045	0.209
		Bottom	26865	831.5	0.150	0.009	100	1.00	24.31	24.50	1.045	0.009
	50%RB	Front	26865	831.5	0.050	0.197	100	1.00	24.31	24.50	1.045	0.206
		Back	26865	831.5	-0.110	0.267	100	1.00	24.31	24.50	1.045	0.279
		Left	26865	831.5	0.080	0.194	100	1.00	24.31	24.50	1.045	0.203
		Right	26865	831.5	-0.060	0.150	100	1.00	24.31	24.50	1.045	0.157
		Top	26865	831.5	0.050	0.176	100	1.00	24.31	24.50	1.045	0.184
		Bottom	26865	831.5	0.140	0.008	100	1.00	24.31	24.50	1.045	0.008

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	37825	2577.5	-0.100	0.345	100	1.00	24.17	24.50	1.079	0.372
		Left Tilt	37825	2577.5	0.020	0.391	100	1.00	24.17	24.50	1.079	0.422
		Right Cheek	37825	2577.5	-0.110	0.727	100	1.00	24.17	24.50	1.079	0.784
		Right Tilt	37825	2577.5	0.110	0.785	100	1.00	24.17	24.50	1.079	0.847
	50%RB	Left Cheek	37825	2577.5	0.070	0.293	100	1.00	24.17	24.50	1.079	0.316
		Left Tilt	37825	2577.5	-0.130	0.326	100	1.00	24.17	24.50	1.079	0.352
		Right Cheek	37825	2577.5	-0.100	0.570	100	1.00	24.17	24.50	1.079	0.615
		Right Tilt	37825	2577.5	-0.100	0.641	100	1.00	24.17	24.50	1.079	0.692
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	37825	2577.5	-0.120	0.116	100	1.00	24.17	24.50	1.079	0.125
		Back	37825	2577.5	0.110	0.151	100	1.00	24.17	24.50	1.079	0.163
		Left	37825	2577.5	0.150	0.096	100	1.00	24.17	24.50	1.079	0.104
		Right	37825	2577.5	-0.190	0.092	100	1.00	24.17	24.50	1.079	0.099
		Top	37825	2577.5	-0.110	0.114	100	1.00	24.17	24.50	1.079	0.123
		Bottom	37825	2577.5	-0.180	0.004	100	1.00	24.17	24.50	1.079	0.004
	50%RB	Front	37825	2577.5	-0.110	0.099	100	1.00	24.17	24.50	1.079	0.107
		Back	37825	2577.5	0.070	0.124	100	1.00	24.17	24.50	1.079	0.134
		Left	37825	2577.5	-0.070	0.080	100	1.00	24.17	24.50	1.079	0.086
		Right	37825	2577.5	-0.160	0.073	100	1.00	24.17	24.50	1.079	0.079
		Top	37825	2577.5	-0.120	0.093	100	1.00	24.17	24.50	1.079	0.100
		Bottom	37825	2577.5	0.190	0.003	100	1.00	24.17	24.50	1.079	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 41 (BW: 20MHz)	1RB	Left Cheek	40620	2593.0	0.140	0.183	100	1.00	24.04	24.50	1.112	0.203
		Left Tilt	40620	2593.0	-0.190	0.426	100	1.00	24.04	24.50	1.112	0.474
		Right Cheek	40620	2593.0	-0.190	0.247	100	1.00	24.04	24.50	1.112	0.275
		Right Tilt	40620	2593.0	-0.030	0.797	100	1.00	24.04	24.50	1.112	0.886
		Left Cheek	39750	2506.0	0.190	1.020	100	1.00	24.04	24.50	1.112	1.134
		Left Cheek	40185	2549.5	0.000	1.000	100	1.00	24.04	24.50	1.112	1.112
		Left Cheek	41055	2636.5	0.070	0.092	100	1.00	24.04	24.50	1.112	0.102
		Left Cheek	41490	2680.0	-0.030	0.076	100	1.00	24.04	24.50	1.112	0.084
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	-0.140	0.160	100	1.00	24.04	24.50	1.112	0.178
		Back	40620	2593.0	0.020	0.207	100	1.00	24.04	24.50	1.112	0.230
		Left	40620	2593.0	-0.020	0.152	100	1.00	24.04	24.50	1.112	0.169
		Right	40620	2593.0	0.140	0.129	100	1.00	24.04	24.50	1.112	0.143
		Top	40620	2593.0	-0.080	0.150	100	1.00	24.04	24.50	1.112	0.167
		Bottom	40620	2593.0	0.010	0.006	100	1.00	24.04	24.50	1.112	0.007
		Back	39750	2506.0	-0.100	0.217	100	1.00	24.04	24.50	1.112	0.241
		Back	40185	2549.5	0.030	0.221	100	1.00	24.04	24.50	1.112	0.246
		Back	41055	2636.5	0.040	0.536	100	1.00	24.04	24.50	1.112	0.596
		Back	41490	2680.0	0.000	0.506	100	1.00	24.04	24.50	1.112	0.563

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	0.06	0.162	100	1.00	24.04	24.50	1.112	0.180
		Left Tilt	40620	2593.0	-0.12	0.385	100	1.00	24.04	24.50	1.112	0.428
		Right Cheek	40620	2593.0	0.05	0.206	100	1.00	24.04	24.50	1.112	0.229
		Right Tilt	40620	2593.0	-0.13	0.715	100	1.00	24.04	24.50	1.112	0.795
		Left Cheek	39750	2506.0	0.07	0.956	100	1.00	24.04	24.50	1.112	1.063
		Left Cheek	40185	2549.5	0.09	0.914	100	1.00	24.04	24.50	1.112	1.016
		Left Cheek	41055	2636.5	-0.16	0.085	100	1.00	24.04	24.50	1.112	0.094
		Left Cheek	41490	2680.0	0.14	0.070	100	1.00	24.04	24.50	1.112	0.078
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	-0.13	0.149	100	1.00	24.04	24.50	1.112	0.166
		Back	40620	2593.0	0.08	0.185	100	1.00	24.04	24.50	1.112	0.206
		Left	40620	2593.0	-0.15	0.137	100	1.00	24.04	24.50	1.112	0.152
		Right	40620	2593.0	0.11	0.115	100	1.00	24.04	24.50	1.112	0.128
		Top	40620	2593.0	-0.17	0.141	100	1.00	24.04	24.50	1.112	0.157
		Bottom	40620	2593.0	0.07	0.004	100	1.00	24.04	24.50	1.112	0.004
		Back	39750	2506.0	0.11	0.189	100	1.00	24.04	24.50	1.112	0.210
		Back	40185	2549.5	-0.09	0.195	100	1.00	24.04	24.50	1.112	0.217
		Back	41055	2636.5	-0.16	0.476	100	1.00	24.04	24.50	1.112	0.529
		Back	41490	2680.0	0.06	0.462	100	1.00	24.04	24.50	1.112	0.514

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	132657	1778.5	0.11	0.239	100	1.00	23.98	24.00	1.005	0.240
		Left Tilt	132657	1778.5	0.07	0.481	100	1.00	23.98	24.00	1.005	0.483
		Right Cheek	132657	1778.5	-0.17	0.342	100	1.00	23.98	24.00	1.005	0.344
		Right Tilt	132657	1778.5	0.05	0.538	100	1.00	23.98	24.00	1.005	0.540
	50%RB	Left Cheek	132657	1778.5	-0.19	0.190	100	1.00	23.98	24.00	1.005	0.191
		Left Tilt	132657	1778.5	-0.17	0.402	100	1.00	23.98	24.00	1.005	0.404
		Right Cheek	132657	1778.5	0.19	0.282	100	1.00	23.98	24.00	1.005	0.283
		Right Tilt	132657	1778.5	-0.01	0.426	100	1.00	23.98	24.00	1.005	0.428
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	Front	132657	1778.5	0.10	0.124	100	1.00	23.98	24.00	1.005	0.125
		Back	132657	1778.5	-0.10	0.168	100	1.00	23.98	24.00	1.005	0.169
		Left	132657	1778.5	0.01	0.122	100	1.00	23.98	24.00	1.005	0.123
		Right	132657	1778.5	0.15	0.121	100	1.00	23.98	24.00	1.005	0.122
		Top	132657	1778.5	-0.01	0.114	100	1.00	23.98	24.00	1.005	0.115
		Bottom	132657	1778.5	-0.19	0.005	100	1.00	23.98	24.00	1.005	0.005
	50%RB	Front	132657	1778.5	0.09	0.102	100	1.00	23.98	24.00	1.005	0.102
		Back	132657	1778.5	0.16	0.139	100	1.00	23.98	24.00	1.005	0.140
		Left	132657	1778.5	0.00	0.096	100	1.00	23.98	24.00	1.005	0.096
		Right	132657	1778.5	0.08	0.099	100	1.00	23.98	24.00	1.005	0.099
		Top	132657	1778.5	0.15	0.093	100	1.00	23.98	24.00	1.005	0.093
		Bottom	132657	1778.5	0.10	0.004	100	1.00	23.98	24.00	1.005	0.004

11.3.4 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)
2.4GWiFi 802.11n	Left Cheek	6	2437	0.190	0.090	100	1.00	18.24	18.50	1.062	0.096
	Left Tilt	6	2437	0.190	0.150	100	1.00	18.24	18.50	1.062	0.159
	Right Cheek	6	2437	-0.190	0.035	100	1.00	18.24	18.50	1.062	0.037
	Right Tilt	6	2437	0.190	0.048	100	1.00	18.24	18.50	1.062	0.051
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)
2.4GWiFi 802.11n	Front	6	2437	0.160	0.027	100	1.00	18.24	18.50	1.062	0.029
	Back	6	2437	-0.190	0.038	100	1.00	18.24	18.50	1.062	0.040
	Left	6	2437	0.190	0.023	100	1.00	18.24	18.50	1.062	0.024
	Right	6	2437	0.170	0.009	100	1.00	18.24	18.50	1.062	0.010
	Top	6	2437	-0.160	0.018	100	1.00	18.24	18.50	1.062	0.019
	Bottom	6	2437	0.130	0.001	100	1.00	18.24	18.50	1.062	0.001

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	0	2402	-0.180	0.045	100	1.00	9.05	9.50	1.109	0.050
	Left Tilt	0	2402	-0.190	0.050	100	1.00	9.05	9.50	1.109	0.055
	Right Cheek	0	2402	0.180	0.017	100	1.00	9.05	9.50	1.109	0.019
	Right Tilt	0	2402	0.190	0.028	100	1.00	9.05	9.50	1.109	0.031
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	0	2402	0.160	0.006	100	1.00	9.05	9.50	1.109	0.007
	Back	0	2402	-0.190	0.009	100	1.00	9.05	9.50	1.109	0.010
	Left	0	2402	0.180	0.004	100	1.00	9.05	9.50	1.109	0.004
	Right	0	2402	-0.110	0.005	100	1.00	9.05	9.50	1.109	0.006
	Top	0	2402	0.130	0.007	100	1.00	9.05	9.50	1.109	0.008
	Bottom	0	2402	-0.170	0.001	100	1.00	9.05	9.50	1.109	0.001

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 ≤ 0.8W/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 ≥ 9 cm x 5 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^[(tune-up limit power(dBm) - 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 Wi-Fi ,because the BT and Wi-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)	Σ SAR (W/kg)	Llimit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)			
GSM850 (voice)	Left Cheek	0.250	0.096	0.050	0.346	1.6
	Left Tilt	0.140	0.159	0.055	0.299	
	Right Cheek	0.291	0.037	0.019	0.328	
	Right Tilt	0.193	0.051	0.031	0.244	
GSM1900 (voice)	Left Cheek	0.284	0.096	0.050	0.380	
	Left Tilt	0.259	0.159	0.055	0.418	
	Right Cheek	0.439	0.037	0.019	0.476	
	Right Tilt	0.510	0.051	0.031	0.561	
WCDMA Band 2	Left Cheek	0.349	0.096	0.050	0.445	
	Left Tilt	0.458	0.159	0.055	0.617	
	Right Cheek	0.401	0.037	0.019	0.438	
	Right Tilt	0.530	0.051	0.031	0.581	
WCDMA Band 4	Left Cheek	0.395	0.096	0.050	0.491	
	Left Tilt	0.368	0.159	0.055	0.527	
	Right Cheek	0.675	0.037	0.019	0.712	
	Right Tilt	0.582	0.051	0.031	0.633	
WCDMA Band 5	Left Cheek	0.150	0.096	0.050	0.246	
	Left Tilt	0.081	0.159	0.055	0.240	
	Right Cheek	0.173	0.037	0.019	0.210	
	Right Tilt	0.093	0.051	0.031	0.144	

Band	Test Position	Scaled SAR			BT SAR 1g(W/kg)	Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)			
LTE Band 2 QPSK (20MHz)	Left Cheek	1RB	0.411	0.096	0.050	0.507	1.6
	Left Tilt		0.331	0.159	0.055	0.490	
	Right Cheek		0.724	0.037	0.019	0.761	
	Right Tilt		0.678	0.051	0.031	0.729	
	Left Cheek	50%RB	0.327	0.096	0.050	0.423	
	Left Tilt		0.279	0.159	0.055	0.438	
	Right Cheek		0.582	0.037	0.019	0.619	
	Right Tilt		0.542	0.051	0.031	0.593	
LTE Band 4 QPSK (20MHz)	Left Cheek	1RB	0.273	0.096	0.050	0.369	
	Left Tilt		0.523	0.159	0.055	0.682	
	Right Cheek		0.357	0.037	0.019	0.394	
	Right Tilt		0.634	0.051	0.031	0.685	
	Left Cheek	50%RB	0.226	0.096	0.050	0.322	
	Left Tilt		0.439	0.159	0.055	0.598	
	Right Cheek		0.306	0.037	0.019	0.343	
	Right Tilt		0.543	0.051	0.031	0.594	
LTE Band 5 QPSK (10MHz)	Left Cheek	1RB	0.143	0.096	0.050	0.239	
	Left Tilt		0.076	0.159	0.055	0.235	
	Right Cheek		0.162	0.037	0.019	0.199	
	Right Tilt		0.092	0.051	0.031	0.143	
	Left Cheek	50%RB	0.126	0.096	0.050	0.222	
	Left Tilt		0.064	0.159	0.055	0.223	
	Right Cheek		0.148	0.037	0.019	0.185	
	Right Tilt		0.132	0.051	0.031	0.183	
LTE Band 7 QPSK (10MHz)	Left Cheek	1RB	0.405	0.096	0.050	0.501	
	Left Tilt		0.553	0.159	0.055	0.712	
	Right Cheek		0.914	0.037	0.019	0.951	
	Right Tilt		1.099	0.051	0.031	1.150	
	Left Cheek	50%RB	0.331	0.096	0.050	0.427	
	Left Tilt		0.497	0.159	0.055	0.656	
	Right Cheek		0.840	0.037	0.019	0.877	
	Right Tilt		0.959	0.051	0.031	1.010	
LTE Band 12 QPSK (10MHz)	Left Cheek	1RB	0.126	0.096	0.050	0.222	
	Left Tilt		0.068	0.159	0.055	0.227	
	Right Cheek		0.135	0.037	0.019	0.172	
	Right Tilt		0.077	0.051	0.031	0.128	
	Left Cheek	50%RB	0.111	0.096	0.050	0.207	
	Left Tilt		0.055	0.159	0.055	0.214	
	Right Cheek		0.121	0.037	0.019	0.158	
	Right Tilt		0.067	0.051	0.031	0.118	
LTE Band 17 QPSK (10MHz)	Left Cheek	1RB	0.115	0.096	0.050	0.211	
	Left Tilt		0.069	0.159	0.055	0.228	
	Right Cheek		0.135	0.037	0.019	0.172	
	Right Tilt		0.100	0.051	0.031	0.151	
	Left Cheek	50%RB	0.109	0.096	0.050	0.205	
	Left Tilt		0.059	0.159	0.055	0.218	
	Right Cheek		0.122	0.037	0.019	0.159	
	Right Tilt		0.091	0.051	0.031	0.142	
LTE Band 26 QPSK (1.4MHz)	Left Cheek	1RB	0.059	0.096	0.050	0.155	
	Left Tilt		0.038	0.159	0.055	0.197	
	Right Cheek		0.073	0.037	0.019	0.110	
	Right Tilt		0.047	0.051	0.031	0.098	
	Left Cheek	50%RB	0.047	0.096	0.050	0.143	
	Left Tilt		0.032	0.159	0.055	0.191	
	Right Cheek		0.059	0.037	0.019	0.096	
	Right Tilt		0.038	0.051	0.031	0.089	

Band	Test Position	Scaled SAR			BT SAR 1g(W/kg)	Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)			
LTE Band 26 QPSK (10MHz)	Left Cheek	1RB	0.117	0.096	0.050	0.213	1.6
	Left Tilt		0.076	0.159	0.055	0.235	
	Right Cheek		0.161	0.037	0.019	0.198	
	Right Tilt		0.086	0.051	0.031	0.137	
	Left Cheek	50%RB	0.103	0.096	0.050	0.199	
	Left Tilt		0.067	0.159	0.055	0.226	
	Right Cheek		0.142	0.037	0.019	0.179	
	Right Tilt		0.075	0.051	0.031	0.126	
LTE Band 38 QPSK (20MHz)	Left Cheek	1RB	0.372	0.096	0.050	0.468	
	Left Tilt		0.422	0.159	0.055	0.581	
	Right Cheek		0.784	0.037	0.019	0.821	
	Right Tilt		0.847	0.051	0.031	0.898	
	Left Cheek	50%RB	0.316	0.096	0.050	0.412	
	Left Tilt		0.352	0.159	0.055	0.511	
	Right Cheek		0.615	0.037	0.019	0.652	
	Right Tilt		0.692	0.051	0.031	0.743	
LTE Band 41 QPSK (20MHz)	Left Cheek	1RB	0.203	0.096	0.050	0.299	
	Left Tilt		0.474	0.159	0.055	0.633	
	Right Cheek		0.275	0.037	0.019	0.312	
	Right Tilt		0.886	0.051	0.031	0.937	
	Left Cheek	50%RB	0.180	0.096	0.050	0.276	
	Left Tilt		0.428	0.159	0.055	0.587	
	Right Cheek		0.229	0.037	0.019	0.266	
	Right Tilt		0.795	0.051	0.031	0.846	
LTE Band 66 QPSK (20MHz)	Left Cheek	1RB	0.240	0.096	0.050	0.336	
	Left Tilt		0.483	0.159	0.055	0.642	
	Right Cheek		0.344	0.037	0.019	0.381	
	Right Tilt		0.540	0.051	0.031	0.591	
	Left Cheek	50%RB	0.191	0.096	0.050	0.287	
	Left Tilt		0.404	0.159	0.055	0.563	
	Right Cheek		0.283	0.037	0.019	0.320	
	Right Tilt		0.428	0.051	0.031	0.479	

Hotspot(body-worn10mm)

Band	Test Position	Scaled SAR		BT SAR 1g(W/kg)	Σ SAR (W/kg)	Llimit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)			
GSM850 (GPRS 4slots)	Front	0.205	0.029	0.007	0.234	1.6
	Back	0.310	0.040	0.010	0.350	
	Left	0.087	0.024	0.004	0.111	
	right	0.079	0.010	0.006	0.089	
	Top	0.018	0.019	0.008	0.037	
	Bottom	0.250	0.001	0.001	0.251	
GSM1900 (GPRS 4slots)	Front	0.103	0.029	0.007	0.132	
	Back	0.158	0.040	0.010	0.198	
	Left	0.108	0.024	0.004	0.132	
	right	0.035	0.010	0.006	0.045	
	Top	0.098	0.019	0.008	0.117	
	Bottom	0.005	0.001	0.001	0.006	
WCDMA Band 2	Front	0.135	0.029	0.007	0.164	
	Back	0.199	0.040	0.010	0.239	
	Left	0.131	0.024	0.004	0.155	
	right	0.072	0.010	0.006	0.082	
	Top	0.125	0.019	0.008	0.144	
	Bottom	0.004	0.001	0.001	0.005	
WCDMA Band 4	Front	0.167	0.029	0.007	0.196	
	Back	0.255	0.040	0.010	0.295	
	Left	0.088	0.024	0.004	0.112	
	right	0.148	0.010	0.006	0.158	
	Top	0.129	0.019	0.008	0.148	
	Bottom	0.014	0.001	0.001	0.015	
WCDMA Band 5	Front	0.161	0.029	0.007	0.190	
	Back	0.187	0.040	0.010	0.227	
	Left	0.118	0.024	0.004	0.142	
	right	0.135	0.010	0.006	0.145	
	Top	0.120	0.019	0.008	0.139	
	Bottom	0.008	0.001	0.001	0.009	

Band	Test Position	RB allocation	Scaled SAR		BT SAR 1g(W/kg)	Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)			
LTE Band 2	Front	1RB	0.173	0.029	0.007	0.202	1.6
	Back		0.273	0.040	0.010	0.313	
	Left		0.140	0.024	0.004	0.164	
	right		0.115	0.010	0.006	0.125	
	Top		0.153	0.019	0.008	0.172	
	Bottom		0.006	0.001	0.001	0.007	
	Front	50%RB	0.138	0.029	0.007	0.167	
	Back		0.235	0.040	0.010	0.275	
	Left		0.111	0.024	0.004	0.135	
	right		0.090	0.010	0.006	0.100	
	Top		0.129	0.019	0.008	0.148	
	Bottom		0.005	0.001	0.001	0.006	
LTE Band 4	Front	1RB	0.158	0.029	0.007	0.187	
	Back		0.195	0.040	0.010	0.235	
	Left		0.135	0.024	0.004	0.159	
	right		0.099	0.010	0.006	0.109	
	Top		0.127	0.019	0.008	0.146	
	Bottom		0.005	0.001	0.001	0.006	
	Front	50%RB	0.127	0.029	0.007	0.156	
	Back		0.164	0.040	0.010	0.204	
	Left		0.107	0.024	0.004	0.131	
	right		0.082	0.010	0.006	0.092	
	Top		0.107	0.019	0.008	0.126	
	Bottom		0.004	0.001	0.001	0.005	
LTE Band 5	Front	1RB	0.168	0.029	0.007	0.197	
	Back		0.264	0.040	0.010	0.304	
	Left		0.100	0.024	0.004	0.124	
	right		0.077	0.010	0.006	0.087	
	Top		0.003	0.019	0.008	0.022	
	Bottom		0.207	0.001	0.001	0.208	
	Front	50%RB	0.141	0.029	0.007	0.170	
	Back		0.243	0.040	0.010	0.283	
	Left		0.068	0.024	0.004	0.092	
	right		0.092	0.010	0.006	0.102	
	Top		0.003	0.019	0.008	0.022	
	Bottom		0.171	0.001	0.001	0.172	
LTE Band 7	Front	1RB	0.229	0.029	0.007	0.258	
	Back		0.308	0.040	0.010	0.348	
	Left		0.201	0.024	0.004	0.225	
	right		0.133	0.010	0.006	0.143	
	Top		0.176	0.019	0.008	0.195	
	Bottom		0.007	0.001	0.001	0.008	
	Front	50%RB	0.195	0.029	0.007	0.224	
	Back		0.271	0.040	0.010	0.311	
	Left		0.180	0.024	0.004	0.204	
	right		0.114	0.010	0.006	0.124	
	Top		0.141	0.019	0.008	0.160	
	Bottom		0.063	0.001	0.001	0.064	

Band	Test Position	RB allocation	Scaled SAR		BT SAR 1g(W/kg)	Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)			
LTE Band 12	Front	1RB	0.184	0.029	0.007	0.213	
	Back		0.222	0.040	0.010	0.262	
	Left		0.090	0.024	0.004	0.114	
	right		0.081	0.010	0.006	0.091	
	Top		0.039	0.019	0.008	0.058	
	Bottom		0.049	0.001	0.001	0.050	
	Front	50%RB	0.161	0.029	0.007	0.190	
	Back		0.202	0.040	0.010	0.242	
	Left		0.083	0.024	0.004	0.107	
	right		0.071	0.010	0.006	0.081	
	Top		0.034	0.019	0.008	0.053	
	Bottom		0.041	0.001	0.001	0.042	
LTE Band 17	Front	1RB	0.158	0.029	0.007	0.187	
	Back		0.213	0.040	0.010	0.253	
	Left		0.105	0.024	0.004	0.129	
	right		0.078	0.010	0.006	0.088	
	Top		0.054	0.019	0.008	0.073	
	Bottom		0.049	0.001	0.001	0.050	
	Front	50%RB	0.148	0.029	0.007	0.177	
	Back		0.195	0.040	0.010	0.235	
	Left		0.097	0.024	0.004	0.121	
	right		0.070	0.010	0.006	0.080	
	Top		0.050	0.019	0.008	0.069	
	Bottom		0.041	0.001	0.001	0.042	
LTE Band 26	Front	1RB	0.059	0.029	0.007	0.088	1.6
	Back		0.082	0.040	0.010	0.122	
	Left		0.040	0.024	0.004	0.064	
	right		0.055	0.010	0.006	0.065	
	Top		0.002	0.019	0.008	0.021	
	Bottom		0.052	0.001	0.001	0.053	
	Front	50%RB	0.047	0.029	0.007	0.076	
	Back		0.070	0.040	0.010	0.110	
	Left		0.033	0.024	0.004	0.057	
	right		0.044	0.010	0.006	0.054	
	Top		0.002	0.019	0.008	0.021	
	Bottom		0.041	0.001	0.001	0.042	
LTE Band 26	Front	1RB	0.234	0.029	0.007	0.263	
	Back		0.317	0.040	0.010	0.357	
	Left		0.231	0.024	0.004	0.255	
	right		0.178	0.010	0.006	0.188	
	Top		0.209	0.019	0.008	0.228	
	Bottom		0.009	0.001	0.001	0.010	
	Front	50%RB	0.206	0.029	0.007	0.235	
	Back		0.279	0.040	0.010	0.319	
	Left		0.203	0.024	0.004	0.227	
	right		0.157	0.010	0.006	0.167	
	Top		0.184	0.019	0.008	0.203	
	Bottom		0.008	0.001	0.001	0.009	
LTE Band 38	Front	1RB	0.125	0.029	0.007	0.154	
	Back		0.163	0.040	0.010	0.203	
	Left		0.104	0.024	0.004	0.128	
	right		0.099	0.010	0.006	0.109	
	Top		0.123	0.019	0.008	0.142	
	Bottom		0.004	0.001	0.001	0.005	
	Front	50%RB	0.107	0.029	0.007	0.136	
	Back		0.134	0.040	0.010	0.174	
	Left		0.086	0.024	0.004	0.110	
	right		0.079	0.010	0.006	0.089	
	Top		0.100	0.019	0.008	0.119	
	Bottom		0.003	0.001	0.001	0.004	

Band	Test Position	RB allocation	Scaled SAR		BT SAR 1g(W/kg)	Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)			
LTE Band 41	Front	1RB	0.178	0.029	0.007	0.207	1.6
	Back		0.230	0.040	0.010	0.270	
	Left		0.169	0.024	0.004	0.193	
	right		0.143	0.010	0.006	0.153	
	Top		0.167	0.019	0.008	0.186	
	Bottom		0.007	0.001	0.001	0.008	
	Front	50%RB	0.166	0.029	0.007	0.195	
	Back		0.206	0.040	0.010	0.246	
	Left		0.152	0.024	0.004	0.176	
	right		0.128	0.010	0.006	0.138	
	Top		0.157	0.019	0.008	0.176	
	Bottom		0.004	0.001	0.001	0.005	
LTE Band 66	Front	1RB	0.125	0.029	0.007	0.154	
	Back		0.169	0.040	0.010	0.209	
	Left		0.123	0.024	0.004	0.147	
	right		0.122	0.010	0.006	0.132	
	Top		0.115	0.019	0.008	0.134	
	Bottom		0.005	0.001	0.001	0.006	
	Front	50%RB	0.102	0.029	0.007	0.131	
	Back		0.140	0.040	0.010	0.180	
	Left		0.096	0.024	0.004	0.120	
	right		0.099	0.010	0.006	0.109	
	Top		0.093	0.019	0.008	0.112	
	Bottom		0.004	0.001	0.001	0.005	

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.	(ci) (1g)	(ci) (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(ΔSAR)	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	√3	0.7	0.7	1.90	1.90	∞
Hemispherical Isotropy	9.6	R	√3	0.7	0.7	3.88	3.88	∞
Boundary Effect	1	R	√3	1	1	0.58	0.58	∞
Linearity	4.7	R	√3	1	1	2.71	2.71	∞
system detection Limits	1	R	√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	√3	1	1	0.00	0.00	∞
Integration Time	0	R	√3	1	1	0.00	0.00	∞
RF ambient Conditions - Noise	1	R	√3	1	1	0.58	0.58	∞
RF ambient Conditions – Reflections	1	R	√3	1	1	0.58	0.58	∞
Probe positioned Mechanical Tolerance	0.8	R	√3	1	1	0.46	0.46	∞
Probe positioning with respect to Phantom Shell	6.7	R	√3	1	1	3.87	3.87	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.0	R	√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	√3	1	1	1.15	1.15	∞
Dipole axis to liquid Distance	3.4	R	√3	1	1	1.96	1.96	∞
Phantom and Tissue Parameters								
Phantom Uncertainty (shape and thickness tolerances)	4.0	R	√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	√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	√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	7895	2024-11-28	2025-11-27
☒	SPEAG	E-Field PROBE	EX3DV4	7391	2024-11-16	2025-11-15
☒	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	DAE4	1495	2024-07-24	2025-07-23
☒	SPEAG	DAE	DAE4ip	1872	2024-10-18	2025-10-17
☒	SPEAG	Dielectric parameter probes	DAK-3.5	1363	2024-11-05	2025-11-04
☒	R & S	Universal Radio Communication Tester	CMU 200	119733	2024-10-21	2025-10-20
☒	R & S	Universal Radio Communication Tester	CMW500	144459	2024-10-21	2025-10-20
☒	R & S	UXM5G Wireless Test Platform	E7515B	MY60192341	2024-10-21	2025-10-20
☒	HP	Network Analyser	8753D	3410A08889	2024-10-21	2025-10-20
☒	HP	Signal Generator	E4421B	GB39340770	2024-10-28	2025-10-27
☒	Keithley	Multimeter	Keithley 2000	4014539	2024-10-28	2025-10-27
☒	SATIMO	Amplifier	Power Amplifier	MODU-023-A-0004	2024-10-21	2025-10-20
☒	Agilent	Power Meter	E4418B	GB43312909	2024-10-21	2025-10-20
☒	Agilent	Power Meter Sensor	E4412A	MY41500046	2024-10-21	2025-10-20