FCC SAR Compliance Test Report

For

TECNO MOBILE LIMITED

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

FOTAN NT HONGKONG

Model: KN4n

Test Engineer:	Xiao Kang
Report Number:	WSCT-ANAB-R&E260500039A-SAR
Report Date:	31 May 2026
FCC ID:	2ADYY-KN4N
Check By:	Jiang Xuling
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Modified History

REV.	Modification Description	Issued Date	Remark
REV.1.0	Initial Test Report Relesse	31 May 2026	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: 2026-05-13
Start of test: 2026-05-15
End of test: 2026-05-31

1.3 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for KN4n is as below:

Band	Position Test Points	MAX Reported SAR$_{1g}$(W/kg)
GSM850	Head	0.466
GSM1900	Head	0.250
UMTS Band 2	Head	0.460
UMTS Band 4	Head	0.472
UMTS Band 5	Head	0.435
LTE Band 2	Head	0.448
LTE Band 4	Head	0.385
LTE Band 5	Head	0.378
LTE Band 7	Head	0.501
LTE Band 12	Head	0.261
LTE Band 17	Head	0.271
LTE Band 38	Head	0.625
LTE Band 41	Head	0.285
LTE Band 66	Head	0.441
BT	Head	0.192
Wi-Fi 2.4G	Head	0.183
WIFI5G Band1	Head	0.153
WIFI5G Band2	Head	0.165
WIFI5G Band3	Head	0.167
WIFI5G Band4	Head	0.190

Band	Position Test Points	MAX Reported SAR_{1g}(W/kg)
GSM850	Body & Hotspot 10mm	0.097
GSM1900	Body & Hotspot 10mm	0.631
UMTS Band 2	Body & Hotspot 10mm	0.146
UMTS Band 4	Body & Hotspot 10mm	0.118
UMTS Band 5	Body & Hotspot 10mm	0.195
LTE Band 2	Body & Hotspot 10mm	0.103
LTE Band 4	Body & Hotspot 10mm	0.076
LTE Band 5	Body & Hotspot 10mm	0.123
LTE Band 7	Body & Hotspot 10mm	0.127
LTE Band 12	Body & Hotspot 10mm	0.094
LTE Band 17	Body & Hotspot 10mm	0.099
LTE Band 38	Body & Hotspot 10mm	0.207
LTE Band 41	Body & Hotspot 10mm	0.113
LTE Band 66	Body & Hotspot 10mm	0.072
BT	Body & Hotspot 10mm	0.048
Wi-Fi 2.4G	Body & Hotspot 10mm	0.050
WIFI5G Band1	Body & Hotspot 10mm	0.036
WIFI5G Band2	Body & Hotspot 10mm	0.038
WIFI5G Band3	Body & Hotspot 10mm	0.049
WIFI5G Band4	Body & Hotspot 10mm	0.056
Maximum Max. SAR Level(s) Measured: (Limit: 1.6W/Kg):	LTE Band 38	0.625 W/kg1gHeadTissue
	BT	0.192 W/kg1gHeadTissue
	GSM1900	0.631 W/kg1gBodyTissue
	WIFI5G Band4	0.056 W/kg1gBodyTissue
The Head highest simultaneous SAR :		0.860 W/kg1gHeadTissue
The Body highest simultaneous SAR :		0.722 W/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:	KM4n
Trade Name:	TECNO
Software version:	KN4n-16.2.0
Hardware version:	V1.3
Device Type:	Portable device
Exposure Category:	uncontrolled environment / general population
Production Unit or Identical Prototype:	Production Unit
Antenna Type :	Integral Antenna
Device Operating Configurations:	
Supporting Mode(s) :	GSM850, PCS 1900 WCDMA B2/ WCDMA B4/ WCDMA B5 LTE Band 2/ LTE Band 4/ LTE Band 5 LTE Band 7/LTE Band 12/ LTE Band 17 LTE Band 38/LTE Band 41/ LTE Band 66/Wi-Fi/BT
Modulation:	GSM/GPRS: GMSK,EGPRS: 8PSK,WCDMA: QPSK HSDPA/HSUPA: QPSK /16QAM,LTE: QPSK/16QAM DSSS (DBPSK, DQPSK, CCK) for IEEE 802.11b IEEE 802.11g/n: OFDM IEEE 802.11: OFDM /OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM) IEEE 802.11a/n/ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
Operating Frequency Range(s) :	GSM850: 824-849MHz (TX), 869-894MHz (RX); PCS1900: 1850-1910MHz (TX), 1930-1990MHz (RX); WCDMA Band2: 1850-1910MHz (TX), 1930-1990MHz (RX); WCDMA Band4: 1710-1755MHz (TX), 2110-2155MHz (RX); WCDMA Band5: 824-849MHz (TX), 869-894MHz (RX); LTE Band2: 1850-1910MHz (TX), 1930-1990MHz (RX); LTE Band4: 1710-1755MHz (TX), 2110-2155MHz (RX); LTE Band5: 824-849MHz (TX), 869-894MHz (RX); LTE Band7: 2500-2570MHz (TX), 2620-2690MHz (RX); LTE Band12: 699-716MHz (TX), 729-746MHz (RX); LTE Band17: 704-716MHz (TX), 734-746MHz (RX); LTE Band38: 2570-2620MHz(TX), 2570-2620MHz(RX); LTE Band41: 2535-2655 MHz(TX), 2535-2655 MHz(RX); LTE Band66:1710-1780 MHz(TX), 2110-2200 MHz(RX); BT: 2402MHz~2480MHz 2.4GWi-Fi:2412MHz~2462MHz (802.11b/g/n(HT20)) 2422MHz~2452MHz (802.11n(HT40)) 5GWi-Fi:Band 1: 5180-5240 MHz Band 2: 5260-5320 MHz Band 3: 5500-5700 MHz Band 4: 5745-5825 MHz NFC: 13.56MHz(TX/RX)

Antenna gain:	GSM 850/WCDMA B5/LTE B5: -4.63dbi PCS 1900/WCDMA B2/LTE B2: -0.91dbi WCDMA B4/LTE B4/B66: -1.88dbi LTE B7/B38/ B41: -3.68dbi LTE B12/B17: -4.78dbi 2.4GWi-Fi/BT:-0.34dBi 5GWi-Fi:-0.86dBi
Radiated Power (EIRP/ERP) Limit	GSM 850/WCDMA B5/LTE B5：7.00W(38.45dBm) PCS 1900/WCDMA B2/LTE B2: 2.00W(33.01dBm) WCDMA B4/LTE B4/ LTE B66: 1.00W(30.00dBm) LTE B7/LTE B38/LTE B41: 2.00W(33.01dBm) LTE B12/B17: 3.00W(34.77dBm)
Power Source:	Adapter1: U180TSA(CY) Input/Entrada: 100-240V~50/60Hz 0.6A Output/Sallda: 5.0V⎓2.4A or 7.5V⎓2.4A 18.0W Max Adapter2: U180TSB(BJ) Input/Entrada: 180-240V~50/60Hz 2.2A Output/Sallda: 5.0V⎓2.4A 12.0W or 7.5V⎓2.4A 18.0W Max Rechargeable Li-ion Polymer Battery Model: BL-65AT Rated Voltage: 3.91V Rated Capacity: 6500mAh/25.42Wh Typical Capacity: 5700mAh/26.20Wh Limited Charge Voltage: 4.5V

Note：
1. The EUT is a Mobile Phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA, LTE, and both SIM card slots share the same transceiver, so only SIM1 is tested in this report.
2. The antenna gain provided by the applicant, and the laboratory will not be responsible for the accumulated calculation results which covers the information provided by the applicant.
3. N/A stands for no applicable.
4. Antenna gain provided by the customer.
5. For NFC evaluation, it is not necessary to test NFC because its power is very low

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

6 Test standards:

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

6.1 RF exposure limits

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

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

Notes:

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

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

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

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

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

6.2 SAR Definition

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

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

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

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

where:

σ = conductivity of the tissue (S/m)

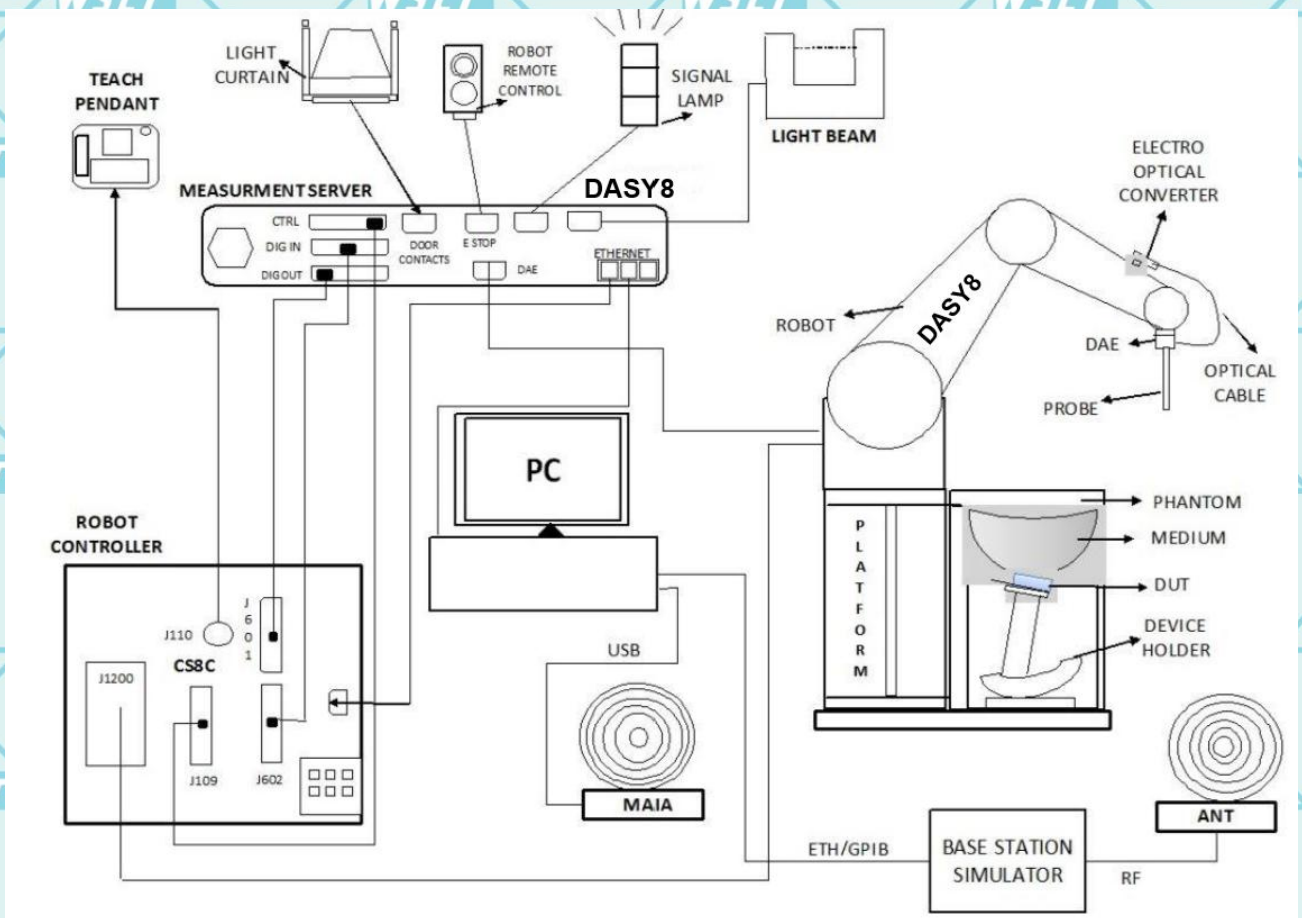
ρ = mass density of the tissue (kg/m^3)

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

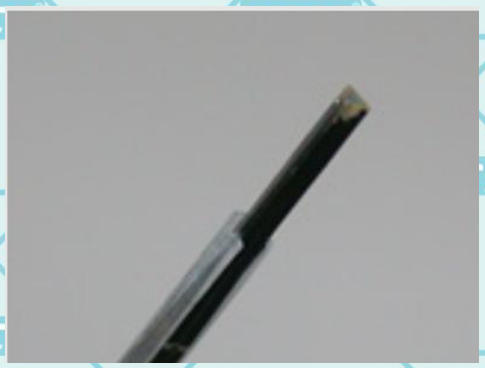
The DASY8 system uses the high-precision industrial robots TX2-60L and TX2-90XL from Stäubli SA (France). The TX2 family of robots provides the ideal combination of speed, rigidity, size, and precision:

- 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 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

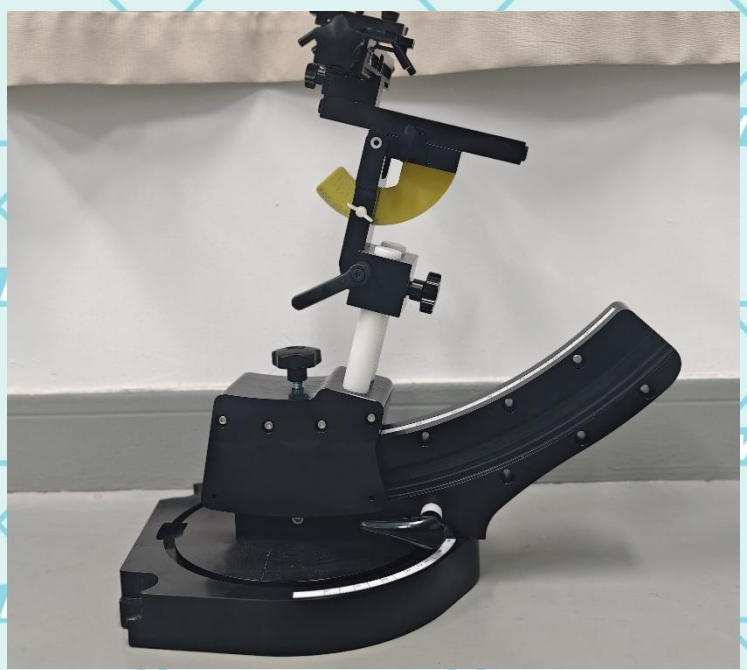
The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEC/IEEE 62209-1528. It enables the dosimetric evaluation of left—and right-hand phone usage as well as body-mounted usage at the flat phantom region. A cover prevents the liquid from evaporating.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

			≤ 3 GHz	>3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 mm ± 1 mm	½δln(2) mm ±0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area sean spatial resolution: Δx Area , Δy Area			≤2 GHz: ≤ 15 mm 2-3 GHz: ≤ 12 mm	3- 4 GHz: ≤ 12 mm 4- 6 GHz: ≤10 mm
			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.	
Maximum zoom scan spatial resolution: ΔxZoom , ΔyZoom			≤ 2 GHz: ≤ 8 mm 2-3 GHz: ≤ 5 mm*	3- 4 GHz: ≤5 mm* 4- 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)		≤5 mm	3- 4 GHz: ≤4 mm 4- 5 GHz: ≤ 3 mm 5- 6 GHz: ≤ 2 mm
	graded grid	ΔzZoom (1): between 1 st two points closest to phantom surface	≤4 mm	3-4 GHz: ≤ 3 mm 4-5 GHz: ≤ 2.5 mm 5-6 GHz: ≤ 2 mm
		ΔzZoom (n>1): between subsequent points	≤1.5·ΔzZoom (n-1) mm	
Minimum zoom scan volume	x, y,z		≥30 mm	3 -4 GHz: ≥ 28 mm 4- 5 GHz: ≥ 25 mm 5- 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see 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.

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:

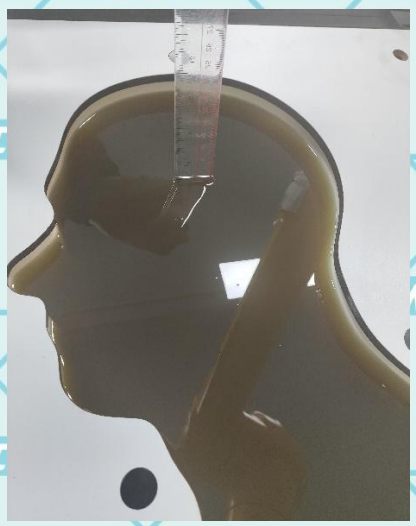
All antennas and radiating structures that may contribute to the measured SAR or influence the SAR distribution must be included in the area scan. The areas of the transmitter(s), antenna(s) and host device, when projected onto the phantom, must be within the area scan measurement region. The area scan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

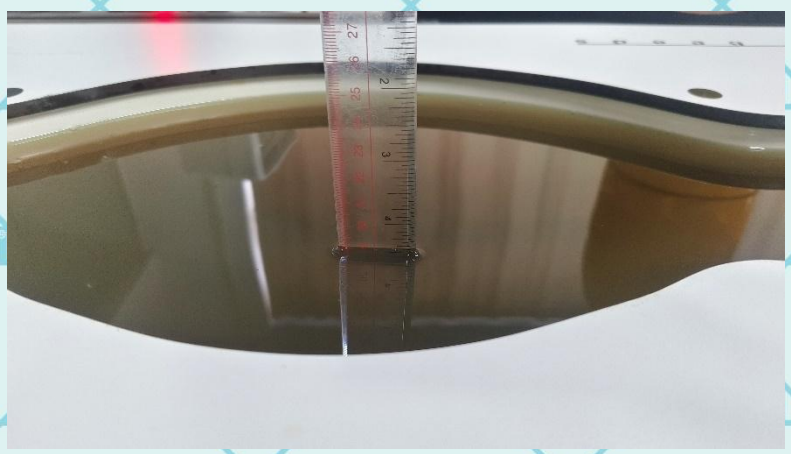
Zoom Scan:

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 ± 10% 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%

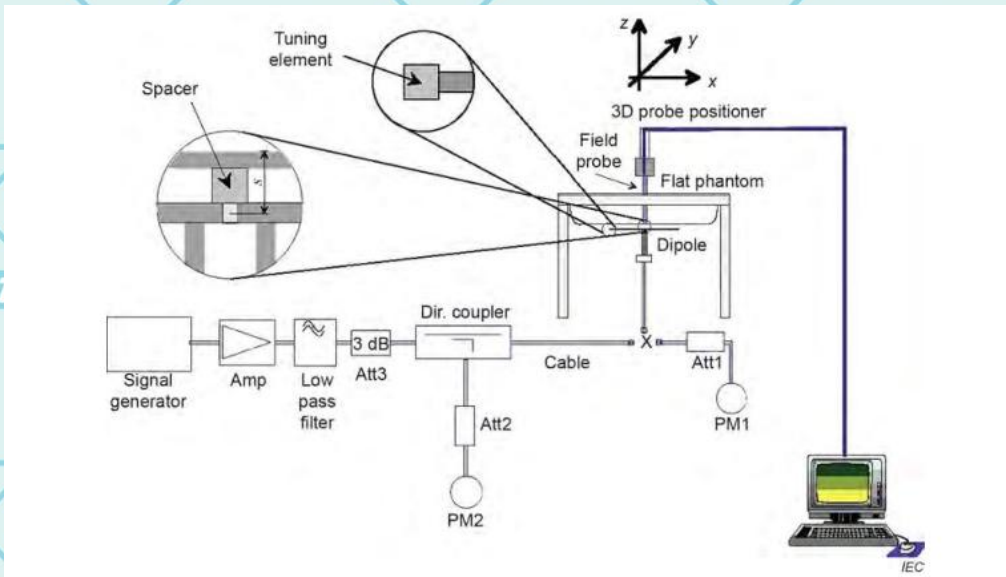
7.10 Tissue simulating liquids: parameters

Used Target Frequency	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
	ε_r (+/-10%)	σ (S/m) (+/-10%)	ε_r	σ (S/m)		
750MHz Head	41.90 (37.71~46.09)	0.89 (0.81~0.97)	43.90	0.885	21.6°C	2026-05-16
835MHz Head	41.50 (37.35~45.65)	0.91 (0.82~1.00)	43.60	0.914	21.6°C	2026-05-18
1750MHz Head	40.10 (36.09~44.11)	1.37 (1.24~1.50)	41.90	1.34	21.6°C	2026-05-20
1900MHz Head	40.00 (36.00~44.00)	1.40 (1.26~1.54)	41.70	1.44	21.6°C	2026-05-22
2450MHz Head	39.20 (35.28~43.12)	1.80 (1.62~1.98)	41.00	1.82	21.6°C	2026-05-24
2550MHz Head	39.10 (35.19~43.01)	1.91 (1.72~2.1)	40.80	1.90	21.6°C	2026-05-24
2600MHz Head	39.00 (35.10~42.90)	1.96 (1.77~2.15)	40.70	1.94	21.6°C	2026-05-24
5200MHz Head	36.00 (32.40~39.60)	4.66 (4.20~5.12)	36.30	4.54	21.6°C	2026-05-27
5500MHz Head	35.60 (32.04~39.16)	4.96 (4.47~5.45)	35.80	4.88	21.6°C	2026-05-28
5800MHz Head	35.30 (31.77~38.83)	5.27 (4.75~5.79)	35.30	5.23	21.6°C	2026-05-29
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).

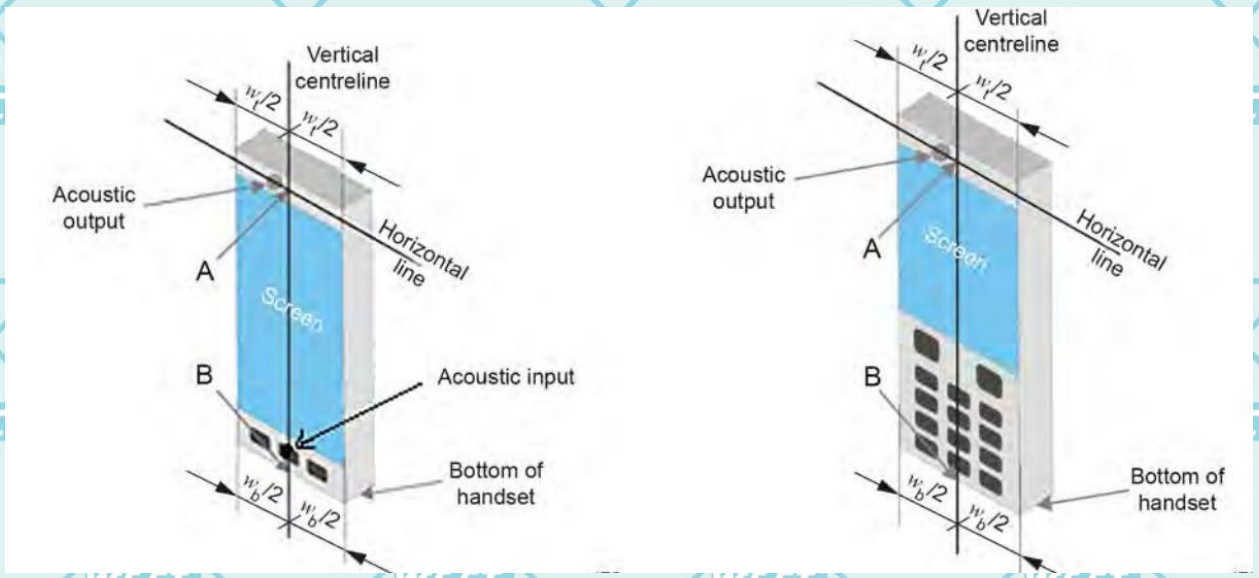
System Check	Target SAR (1W) (+/-10%)		Measured SAR (Normalized to 1W)		Liquid Temp.	Test Date
	1-g (W/kg)	10-g (W/kg)	1-g (W/kg)	10-g (W/kg)		
D750V3 Body	8.46 (7.62~9.30)	5.70 (5.13~6.27)	8.58	5.70	21.6°C	2026-05-16
D835V2 Body	9.68 (8.72~10.64)	6.44 (5.80~7.08)	9.81	6.42	21.6°C	2026-05-18
D1750V2 Body	36.40 (32.76~40.04)	19.60 (17.64~21.56)	36.10	19.60	21.6°C	2026-05-20
D1900V2 Body	39.70 (35.73~43.67)	21.00 (18.90~23.10)	40.40	21.10	21.6°C	2026-05-22
D2450V2 Body	52.70 (47.16~57.64)	24.00 (21.60~26.40)	53.60	25.20	21.6°C	2026-05-24
D2550V2 Body	54.10 (48.69~59.51)	24.70 (22.23~27.17)	55.80	25.60	21.6°C	2026-05-24
D2600V2 Body	55.90 (49.77~60.83)	24.60 (22.14~27.06)	55.90	25.60	21.6°C	2026-05-24
D5200V2 Body	76.00 (68.40~83.60)	22.00 (19.80~24.20)	71.70	20.70	21.6°C	2026-05-27
D5300V2 Body	80.60 (72.54~88.66)	23.30 (20.97~25.63)	80.80	23.10	21.6°C	2026-05-27
D5500V2 Body	85.60 (77.04~94.16)	24.50 (22.05~26.95)	79.00	22.50	21.6°C	2026-05-28
D5600V2 Body	83.30 (74.97~91.63)	24.10 (21.69~26.51)	78.70	22.40	21.6°C	2026-05-28
D5800V2 Body	79.00 (71.10~86.90)	22.70 (20.43~24.97)	77.60	22.00	21.6°C	2026-05-29

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.

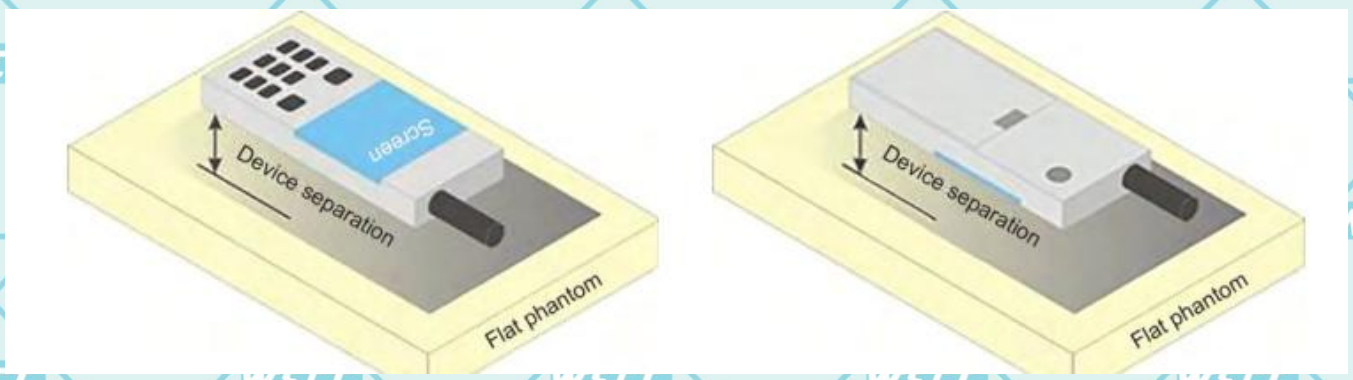
Tilt position:

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°

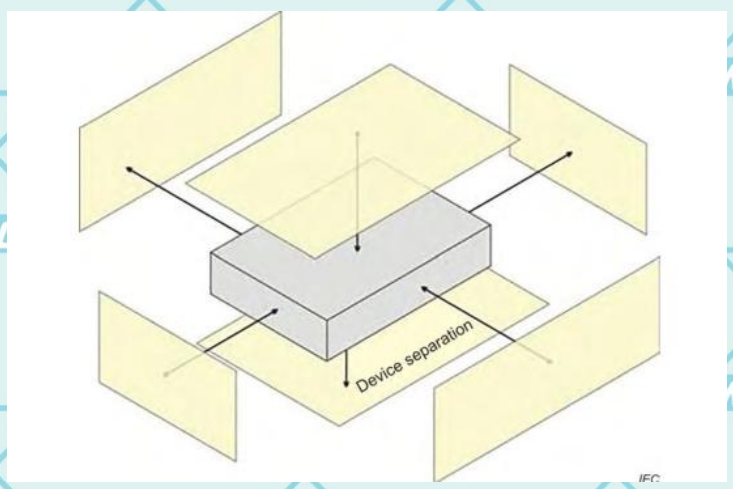
While maintaining the orientation of the DUT, move the DUT towards the phantom on a line passing through RE and LE until any part of the DUT touches the ear. The tilt position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, e.g. an extended antenna 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)		34.00	33.84	33.78	33.81	-9.03	24.81	24.75	24.78
GPRS (GMSK)	1Tx slot	34.00	33.81	33.77	33.78	-9.03	24.78	24.74	24.75
	2Tx slots	33.50	33.14	33.09	33.02	-6.02	27.12	27.07	27.00
	3Tx slots	31.50	31.47	31.33	31.27	-4.26	27.21	27.07	27.01
	4Tx slots	30.50	30.06	29.96	29.92	-3.01	27.05	26.95	26.91
EGPRS (8PSK)	1Tx slot	34.00	33.88	33.83	33.77	-9.03	24.85	24.80	24.74
	2Tx slots	33.50	33.18	33.10	33.02	-6.02	27.16	27.08	27.00
	3Tx slots	31.50	31.46	31.32	31.23	-4.26	27.20	27.06	26.97
	4Tx slots	30.50	30.08	29.96	29.88	-3.01	27.07	26.95	26.87
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)		30.50	30.44	30.26	30.40	-9.03	21.41	21.23	21.37
GPRS (GMSK)	1Tx slot	30.50	30.43	30.23	30.35	-9.03	21.40	21.20	21.32
	2Tx slots	29.50	29.50	29.32	29.40	-6.02	23.48	23.30	23.38
	3Tx slots	27.50	27.50	27.28	27.39	-4.26	23.24	23.02	23.13
	4Tx slots	26.50	26.23	26.05	26.12	-3.01	23.22	23.04	23.11
EGPRS (8PSK)	1Tx slot	30.50	30.36	30.17	30.32	-9.03	21.33	21.14	21.29
	2Tx slots	29.50	29.36	29.18	29.31	-6.02	23.34	23.16	23.29
	3Tx slots	27.50	27.33	27.16	27.26	-4.26	23.07	22.90	23.00
	4Tx slots	26.50	26.06	25.87	26.02	-3.01	23.05	22.86	23.01

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		23.50	23.42	22.62	22.87
HSDPA	Subtest-1	24.00	23.50	21.89	20.81
	Subtest-2	23.00	20.40	22.72	21.09
	Subtest-3	23.00	20.08	19.38	22.95
	Subtest-4	22.00	21.68	19.94	19.93
HSUPA	Subtest-1	21.50	21.44	20.68	20.94
	Subtest-2	21.50	21.45	20.70	20.90
	Subtest-3	22.00	20.85	21.69	21.89
	Subtest-4	21.00	20.93	20.20	20.37
	Subtest-5	22.50	22.44	21.67	21.92

Mode		Maximum Tune-up(dBm)	WCDMA Band 4		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
			1712.4	1732.6	1752.6
RMC 12.2K		23.50	23.47	23.45	23.01
HSDPA	Subtest-1	24.00	23.60	22.17	20.74
	Subtest-2	24.00	20.51	23.51	21.82
	Subtest-3	23.50	20.33	20.19	23.08
	Subtest-4	22.00	21.65	19.96	19.83
HSUPA	Subtest-1	21.50	21.50	21.50	21.06
	Subtest-2	21.50	21.50	21.45	21.06
	Subtest-3	22.50	22.48	22.48	22.06
	Subtest-4	21.50	21.04	21.02	20.55
	Subtest-5	23.00	22.58	22.51	22.07

Mode		Maximum Tune-up(dBm)	WCDMA Band 5		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
			826.4	836.6	846.6
RMC 12.2K		24.00	23.63	23.33	23.22
HSDPA	Subtest-1	24.00	23.65	22.41	20.82
	Subtest-2	23.50	20.16	23.36	22.06
	Subtest-3	23.50	20.83	19.87	23.25
	Subtest-4	22.50	22.06	20.57	19.76
HSUPA	Subtest-1	22.00	21.64	21.37	21.22
	Subtest-2	22.00	21.64	21.33	20.00
	Subtest-3	23.00	22.63	22.34	22.24
	Subtest-4	21.50	21.14	20.92	20.73
	Subtest-5	23.00	22.60	22.33	22.24

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	23.00	22.54	22.62	22.40
			2	23.00	22.68	22.83	22.54
			5	23.00	22.57	22.60	22.39
		3	0	23.00	22.57	22.55	22.51
			2	23.00	22.62	22.51	22.50
			3	23.00	22.58	22.57	22.51
		6	0	22.00	21.63	21.63	21.51
	16QAM	1	0	22.00	21.29	21.62	21.59
			2	22.00	21.50	21.71	21.68
			5	22.00	21.31	21.63	21.61
		3	0	22.00	21.67	21.70	21.67
			2	22.00	21.68	21.74	21.73
			3	22.00	21.68	21.70	21.71
		6	0	21.00	20.76	20.74	20.60
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
3MHz	QPSK	1	0	23.00	22.57	22.56	22.59
			7	23.00	22.80	22.81	22.71
			14	23.00	22.48	22.56	22.59
		8	0	22.00	21.63	21.63	21.58
			4	22.00	21.64	21.62	21.58
			7	22.00	21.61	21.63	21.52
		15	0	22.00	21.56	21.57	21.52
	16QAM	1	0	22.00	21.93	21.71	21.38
			7	22.50	22.22	22.01	21.67
			14	22.00	21.89	21.69	21.32
		8	0	21.00	20.62	20.59	20.49
			4	21.00	20.65	20.60	20.54
			7	21.00	20.63	20.60	20.50
		15	0	21.00	20.59	20.54	20.60
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
5MHz	QPSK	1	0	22.50	22.50	22.50	22.34
			13	23.00	22.81	22.95	22.66
			24	22.50	22.43	22.49	22.35
		12	0	22.00	21.57	21.56	21.54
			6	22.00	21.64	21.63	21.60
			13	22.00	21.57	21.55	21.42
		25	0	22.00	21.58	21.57	21.51
	16QAM	1	0	22.00	21.94	21.77	21.70
			13	22.50	22.24	22.16	22.05
			24	22.00	21.95	21.72	21.69
		12	0	21.00	20.60	20.50	20.59
			6	21.00	20.63	20.56	20.62
			13	21.00	20.58	20.43	20.45
		25	0	21.00	20.59	20.57	20.48

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	23.00	22.61	22.65	22.60
			25	23.00	22.68	22.75	22.74
			49	23.00	22.59	22.57	22.64
		25	0	22.00	21.67	21.69	21.54
			13	22.00	21.62	21.67	21.53
			25	22.00	21.61	21.59	21.45
		50	0	22.00	21.59	21.62	21.52
	16QAM	1	0	22.00	21.92	21.81	21.37
			25	22.50	22.03	21.75	21.44
			49	22.00	21.97	21.67	21.34
		25	0	21.00	20.66	20.67	20.58
			13	21.00	20.60	20.60	20.53
			25	21.00	20.66	20.54	20.50
		50	0	21.00	20.63	20.64	20.51
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
15MHz	QPSK	1	0	23.00	22.57	22.56	22.49
			38	23.00	22.73	22.84	22.76
			74	23.00	22.50	22.41	22.52
		36	0	22.00	21.69	21.72	21.54
			18	22.00	21.66	21.72	21.57
			39	22.00	21.63	21.63	21.55
		75	0	22.00	21.65	21.63	21.56
	16QAM	1	0	22.00	21.89	21.72	21.54
			38	22.50	22.18	21.89	21.89
			74	22.00	21.90	21.52	21.49
		36	0	21.00	20.65	20.69	20.47
			18	21.00	20.64	20.67	20.48
			39	21.00	20.61	20.60	20.44
		75	0	21.00	20.63	20.61	20.56
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
20MHz	QPSK	1	0	22.50	22.41	22.49	22.34
			50	23.00	22.69	22.81	22.61
			99	22.50	22.37	22.33	22.30
		50	0	22.00	21.57	21.62	21.59
			25	22.00	21.60	21.59	21.53
			50	22.00	21.59	21.42	21.48
		100	0	22.00	21.57	21.46	21.45
	16QAM	1	0	22.00	21.66	21.66	21.66
			50	22.50	22.02	21.83	21.85
			99	22.00	21.69	21.51	21.45
		50	0	21.00	20.69	20.65	20.61
			25	21.00	20.72	20.59	20.57
			50	21.00	20.71	20.44	20.49
		100	0	21.00	20.64	20.53	20.50

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	23.00	22.62	22.71	22.68
			2	23.00	22.78	22.87	22.84
			5	23.00	22.63	22.73	22.67
		3	0	23.00	22.82	22.67	22.82
			2	23.00	22.79	22.69	22.78
			3	23.00	22.75	22.71	22.80
		6	0	22.00	21.74	21.68	21.75
	16QAM	1	0	22.00	21.84	21.50	21.90
			2	22.50	21.93	21.63	22.03
			5	22.00	21.86	21.49	21.93
		3	0	22.00	21.90	21.85	22.00
			2	22.00	21.95	21.81	21.99
			3	22.50	21.97	21.84	22.01
		6	0	21.00	20.91	20.88	20.97
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175	20385
					1711.5MHz	1732.5MHz	1753.5MHz
3MHz	QPSK	1	0	23.00	22.80	22.67	22.73
			7	23.50	23.10	23.05	23.08
			14	23.00	22.81	22.63	22.83
		8	0	22.00	21.77	21.69	21.75
			4	22.00	21.82	21.71	21.75
			7	22.00	21.74	21.68	21.78
		15	0	22.00	21.73	21.68	21.71
	16QAM	1	0	22.50	21.60	22.06	21.95
			7	22.50	21.86	22.35	22.20
			14	22.50	21.52	22.06	21.95
		8	0	21.00	20.78	20.76	20.82
			4	21.00	20.84	20.79	20.83
			7	21.00	20.76	20.75	20.81
		15	0	21.00	20.83	20.74	20.69
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19975	20175	20375
					1712.5MHz	1732.5MHz	1752.5MHz
5MHz	QPSK	1	0	23.00	22.65	22.65	22.60
			13	23.50	22.97	23.06	22.99
			24	23.00	22.67	22.61	22.59
		12	0	22.00	21.70	21.69	21.73
			6	22.00	21.77	21.79	21.81
			13	22.00	21.72	21.64	21.77
		25	0	22.00	21.75	21.69	21.74
	16QAM	1	0	22.50	22.10	21.90	21.96
			13	23.00	22.52	22.34	22.35
			24	22.50	22.14	21.89	21.98
		12	0	21.00	20.72	20.64	20.79
			6	21.00	20.78	20.69	20.83
			13	21.00	20.72	20.62	20.80
		25	0	21.00	20.76	20.76	20.76

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	23.00	22.80	22.68	22.92
			25	23.00	22.89	22.75	22.83
			49	23.00	22.76	22.68	22.45
		25	0	22.00	21.74	21.74	21.47
			13	22.00	21.74	21.67	21.42
			25	22.00	21.82	21.68	21.30
		50	0	22.00	21.77	21.73	21.30
	16QAM	1	0	22.50	22.09	21.83	21.19
			25	22.50	22.17	21.92	21.26
			49	22.50	22.12	21.84	21.13
		25	0	21.00	20.86	20.79	20.36
			13	21.00	20.83	20.76	20.47
			25	21.00	20.86	20.75	20.25
		50	0	21.00	20.77	20.78	20.33
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20025	20175	20325
					1717.5MHz	1732.5MHz	1747.5MHz
15MHz	QPSK	1	0	23.00	22.66	22.56	22.78
			38	23.50	23.01	22.90	23.11
			74	23.00	22.56	22.50	22.68
		36	0	22.00	21.81	21.80	21.84
			18	22.00	21.82	21.77	21.82
			39	22.00	21.81	21.67	21.73
		75	0	22.00	21.83	21.80	21.82
	16QAM	1	0	22.00	21.99	21.78	21.84
			38	22.50	22.28	22.10	22.04
			74	22.00	21.97	21.71	21.74
		36	0	21.00	20.83	20.84	20.80
			18	21.00	20.83	20.81	20.77
			39	21.00	20.82	20.73	20.72
		75	0	21.00	20.85	20.78	20.88
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175	20300
					1720.0MHz	1732.5MHz	1745.0MHz
20MHz	QPSK	1	0	23.00	22.55	22.63	22.50
			50	23.00	22.83	22.85	22.53
			99	22.50	22.38	22.50	22.19
		50	0	22.00	21.69	21.69	21.32
			25	22.00	21.79	21.71	21.31
			50	22.00	21.70	21.56	21.17
		100	0	22.00	21.66	21.64	21.31
	16QAM	1	0	22.00	21.81	21.73	21.45
			50	22.50	22.12	21.95	21.66
			99	22.00	21.68	21.65	21.35
		50	0	21.00	20.80	20.75	20.36
			25	21.00	20.84	20.73	20.37
			50	21.00	20.77	20.57	20.24
		100	0	21.00	20.74	20.68	20.27

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	23.50	22.99	23.30	23.19
			2	23.50	23.12	23.45	23.32
			5	23.50	22.99	23.24	23.11
		3	0	23.50	22.93	23.28	23.33
			2	23.50	22.98	23.29	23.33
			3	23.50	22.99	23.27	23.32
		6	0	22.50	21.97	22.30	22.23
	16QAM	1	0	22.50	22.10	22.02	22.38
			2	22.50	22.29	22.17	22.48
			5	22.50	22.12	22.04	22.39
		3	0	22.50	22.21	22.36	22.47
			2	22.50	22.24	22.39	22.47
			3	22.50	22.20	22.40	22.47
		6	0	21.50	21.20	21.45	21.43
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	23.50	22.91	23.22	23.33
			7	24.00	23.27	23.41	23.57
			14	23.50	22.92	23.29	23.32
		8	0	22.50	21.91	22.28	22.30
			4	22.50	21.99	22.35	22.30
			7	22.50	22.02	22.34	22.21
		15	0	22.50	21.95	22.29	22.23
	16QAM	1	0	22.50	22.41	22.39	22.10
			7	23.00	22.78	22.69	22.38
			14	22.50	22.44	22.46	22.01
		8	0	21.50	20.99	21.30	21.32
			4	21.50	21.04	21.34	21.30
			7	21.50	21.01	21.32	21.26
		15	0	21.50	21.02	21.26	21.35

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	23.50	22.85	22.89	23.13
			13	24.00	23.48	23.28	23.52
			24	23.50	22.99	22.95	23.07
		12	0	22.50	21.86	21.82	22.31
			6	22.50	21.96	21.98	22.32
			13	22.50	22.14	22.02	22.19
		25	0	22.50	21.90	22.03	22.25
	16QAM	1	0	22.50	22.37	22.17	22.44
			13	23.00	22.81	22.58	22.64
			24	22.50	22.37	22.43	22.40
		12	0	21.50	20.78	20.94	21.31
			6	21.50	20.96	21.08	21.35
			13	21.50	21.13	21.07	21.20
		25	0	21.50	20.93	21.17	21.29
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	23.00	22.89	22.81	22.84
			25	23.50	23.17	22.96	23.03
			49	23.50	23.01	22.82	22.78
		25	0	22.00	21.84	21.90	21.89
			13	22.00	21.92	21.79	21.83
			25	22.00	21.93	21.86	21.75
		50	0	22.00	21.73	21.91	21.84
	16QAM	1	0	22.00	21.95	21.81	21.70
			25	22.50	22.06	22.04	21.74
			49	22.50	22.13	22.02	21.59
		25	0	21.00	20.55	20.85	20.94
			13	21.50	21.02	20.88	20.83
			25	21.00	20.85	20.88	20.73
		50	0	21.00	20.73	20.96	20.84

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	22.50	22.17	21.89	22.30
			13	23.00	22.59	22.18	22.68
			24	22.50	22.15	22.04	22.26
		12	0	21.50	21.20	21.15	21.35
			6	21.50	21.22	21.16	21.36
			13	21.50	21.22	21.07	21.32
		25	0	21.50	21.17	21.07	21.34
	16QAM	1	0	22.00	21.53	21.28	21.75
			13	22.50	21.89	21.69	22.11
			24	22.00	21.49	21.31	21.73
		12	0	20.50	20.11	20.10	20.31
			6	20.50	20.16	20.17	20.33
			13	20.50	20.09	20.05	20.26
		25	0	20.50	0.00	20.02	20.30
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20800	21100	21400
					2505.0MHz	2535.0MHz	2565.0MHz
10MHz	QPSK	1	0	22.50	22.15	22.06	22.37
			25	22.50	22.20	22.15	22.50
			49	22.50	22.05	22.06	22.35
		25	0	21.50	21.22	21.13	21.41
			13	21.50	21.19	21.11	21.36
			25	21.50	21.19	21.07	21.37
		50	0	21.50	21.19	21.05	21.35
	16QAM	1	0	22.00	21.60	21.30	21.21
			25	22.00	21.72	21.37	21.28
			49	22.00	21.55	21.28	21.22
		25	0	20.50	20.22	20.14	20.40
			13	20.50	20.17	20.09	20.33
			25	20.50	20.18	20.06	20.37
		50	0	20.50	20.09	20.11	20.32

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20825	21100	21375
					2057.5MHz	2535.0MHz	2562.5MHz
15MHz	QPSK	1	0	22.50	22.07	21.96	22.24
			38	23.00	22.15	22.39	22.53
			74	22.50	21.89	21.93	22.22
		36	0	21.50	21.22	21.18	21.36
			18	21.50	21.21	21.16	21.40
			39	21.50	21.18	21.09	21.33
		75	0	21.50	21.18	21.11	21.39
	16QAM	1	0	22.00	21.53	21.17	21.33
			38	22.00	21.77	21.51	21.61
			74	21.50	21.39	21.16	21.12
		36	0	20.50	20.02	20.18	20.28
			18	20.50	20.15	20.17	20.28
			39	20.50	20.12	20.13	20.23
		75	0	20.50	20.11	20.01	20.32
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	21350	21100	21350
					2560.0MHz	2535.0MHz	2560.0MHz
20MHz	QPSK	1	0	22.00	22.00	21.97	21.92
			50	22.50	22.23	22.25	22.35
			99	22.50	21.82	21.95	22.04
		50	0	21.50	21.02	21.14	21.25
			25	21.50	21.08	21.10	21.29
			50	21.50	21.10	21.03	21.25
		100	0	21.50	21.07	21.06	21.23
	16QAM	1	0	21.50	21.34	21.07	21.21
			50	22.00	21.54	21.35	21.58
			99	21.50	21.12	21.05	21.10
		50	0	20.50	20.05	20.11	20.33
			25	20.50	20.11	20.10	20.33
			50	20.50	20.14	19.99	20.28
		100	0	20.50	20.04	20.07	20.19

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	22.50	22.04	22.12	21.73
			2	22.50	22.24	22.24	21.92
			5	22.50	22.12	22.08	21.76
		3	0	22.50	22.09	22.07	21.91
			2	22.50	22.14	22.08	21.90
			3	22.50	22.12	22.11	21.84
		6	0	21.50	21.05	21.01	20.81
	16QAM	1	0	21.50	20.87	21.23	20.96
			2	21.50	21.04	21.33	21.07
			5	21.50	20.89	21.23	20.94
		3	0	21.50	21.22	21.31	21.04
			2	21.50	21.24	21.27	21.07
			3	21.50	21.26	21.26	21.07
		6	0	20.50	20.26	20.24	20.02
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz
3MHz	QPSK	1	0	22.50	22.05	22.08	21.97
			7	22.50	22.49	22.36	22.24
			14	22.50	22.04	22.03	21.90
		8	0	21.50	21.04	21.06	20.86
			4	21.50	21.08	21.04	20.85
			7	21.50	21.11	21.04	20.76
		15	0	21.50	21.02	21.04	20.76
	16QAM	1	0	22.00	21.51	21.28	20.72
			7	22.00	21.89	21.61	20.92
			14	21.50	21.41	21.26	20.65
		8	0	20.50	20.17	20.11	19.90
			4	20.50	20.19	20.13	19.89
			7	20.50	20.20	20.11	19.80
		15	0	20.50	20.12	20.06	19.92

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
5MHz	QPSK	1	0	22.50	22.01	22.01	21.80
			13	22.50	22.38	22.36	22.09
			24	22.00	21.95	21.92	21.65
		12	0	21.50	21.02	21.15	20.90
			6	21.50	21.10	21.10	20.91
			13	21.50	21.05	21.05	20.72
		25	0	21.50	21.02	21.09	20.75
	16QAM	1	0	22.00	21.56	21.34	21.15
			13	22.00	21.63	21.62	21.26
			24	21.50	21.43	21.29	20.98
		12	0	20.50	19.99	20.14	19.91
			6	20.50	20.16	20.11	19.98
			13	20.50	20.09	20.01	19.72
		25	0	20.50	20.09	20.16	19.84
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	22.50	23095	23130
					704.0MHz	707.5MHz	711.0MHz
10MHz	QPSK	1	0	22.50	22.01	22.05	22.14
			25	22.50	22.08	22.19	22.09
			49	22.00	21.98	21.93	21.91
		25	0	21.50	21.04	21.33	20.99
			13	21.50	21.09	21.11	21.01
			25	21.50	21.00	21.21	20.82
		50	0	21.50	21.01	21.25	20.94
	16QAM	1	0	21.50	21.48	21.20	20.96
			25	21.50	21.39	21.40	20.92
			49	21.50	21.46	21.10	20.63
		25	0	20.50	20.14	20.37	20.07
			13	20.50	20.18	20.19	20.06
			25	20.50	20.08	20.24	19.90
		50	0	20.50	20.06	20.35	20.01

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	23790	23825
					706.5MHz	710.0MHz	713.5MHz
5MHz	QPSK	1	0	22.50	22.13	22.08	21.85
			13	23.00	22.55	22.49	22.26
			24	22.50	22.08	21.92	21.81
		12	0	21.50	21.31	21.11	20.95
			6	21.50	21.25	21.13	21.02
			13	21.50	21.16	21.10	20.80
		25	0	21.50	21.24	21.13	20.93
	16QAM	1	0	22.00	21.61	21.45	21.25
			13	22.00	21.99	21.84	21.56
			24	22.00	21.65	21.23	21.13
		12	0	20.50	20.38	20.06	20.04
			6	20.50	20.30	20.13	20.09
			13	20.50	20.22	20.10	19.86
		25	0	20.50	20.28	20.20	19.98
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23780	23790	23800
					709.0MHz	710.0MHz	711.0MHz
10MHz	QPSK	1	0	22.50	22.11	22.14	22.18
			25	22.50	22.17	22.14	22.13
			49	22.50	21.89	21.87	22.01
		25	0	21.50	21.30	21.22	21.07
			13	21.50	21.15	21.13	21.03
			25	21.50	21.26	21.09	20.93
		50	0	21.50	21.28	21.10	21.01
	16QAM	1	0	22.00	21.61	21.40	21.06
			25	22.00	21.64	21.39	21.00
			49	21.50	21.30	21.00	20.79
		25	0	20.50	20.38	20.24	20.18
			13	20.50	20.28	20.19	20.12
			25	20.50	20.34	20.18	19.95
		50	0	20.50	20.31	20.21	20.04

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	22.00	21.86	21.83	21.76
			13	22.50	22.11	22.09	22.07
			24	22.00	21.81	21.85	21.74
		12	0	21.00	20.88	20.88	20.86
			6	21.00	20.94	20.94	20.91
			13	21.00	20.82	20.91	20.83
		25	0	21.00	20.83	20.89	20.83
	16QAM	1	0	21.50	21.46	21.14	21.14
			13	22.00	21.70	21.41	21.41
			24	21.50	21.42	21.15	21.10
		12	0	20.00	19.85	19.86	19.88
			6	20.00	19.94	19.90	19.92
			13	20.00	19.79	19.83	19.85
		25	0	20.00	19.77	19.89	19.80
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37800	38000	38200
					2575.0MHz	2595.0MHz	2615.0MHz
10MHz	QPSK	1	0	22.00	21.91	21.98	21.96
			25	22.50	22.00	22.16	22.04
			49	22.00	21.87	21.96	21.89
		25	0	21.50	20.95	21.02	20.98
			13	21.00	20.92	20.97	20.93
			25	21.00	20.84	20.99	20.92
		50	0	21.00	20.87	20.97	20.95
	16QAM	1	0	21.50	21.46	21.11	20.91
			25	21.50	21.49	21.29	21.01
			49	21.50	21.37	21.09	20.86
		25	0	20.50	19.98	20.03	20.00
			13	20.00	19.96	19.96	19.91
			25	20.00	19.94	19.97	19.91
		50	0	20.50	19.86	20.01	19.92

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37825	38000	38175
					2577.5MHz	2595.0MHz	2612.5MHz
15MHz	QPSK	1	0	22.00	21.85	21.91	21.91
			38	22.50	22.08	22.15	22.14
			74	22.00	21.76	21.80	21.81
		36	0	21.00	20.93	21.00	20.95
			18	21.00	20.93	20.98	20.95
			39	21.00	20.81	20.98	20.93
		75	0	21.00	20.86	20.95	20.90
	16QAM	1	0	21.50	21.35	21.02	21.08
			38	22.00	21.56	21.28	21.34
			74	21.50	21.26	20.93	20.98
		36	0	20.50	19.96	20.02	19.88
			18	20.50	19.95	20.01	19.90
			39	20.50	19.89	20.01	19.85
		75	0	20.00	19.84	19.93	19.92
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	38750	38000	38150
					2580.0MHz	2595.0MHz	2610.0MHz
20MHz	QPSK	1	0	22.00	21.69	21.73	21.71
			50	22.50	22.01	22.10	22.07
			99	22.00	21.66	21.68	21.62
		50	0	21.00	20.93	20.99	20.91
			25	21.00	20.95	20.94	20.93
			50	21.00	20.87	20.93	20.86
		100	0	21.00	20.88	20.93	20.88
	16QAM	1	0	21.00	20.97	20.92	20.88
			50	21.50	21.31	21.32	21.24
			99	21.00	20.94	20.86	20.81
		50	0	20.00	19.98	19.97	19.96
			25	20.00	19.99	19.91	19.97
			50	20.00	19.94	19.91	19.89
		100	0	20.00	19.90	19.92	19.90

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	2632.5 MHz	2652.5MHz
5MHz	QPSK	1	0	22.00	21.76	21.30	21.84	21.41	21.98
			13	22.50	22.06	21.61	22.16	21.73	22.29
			24	22.00	21.76	21.30	21.84	21.40	21.95
		12	0	21.50	20.74	20.37	20.99	20.53	21.07
			6	21.50	20.75	20.40	21.04	20.58	21.11
			13	21.00	20.64	20.31	20.97	20.48	20.99
		25	0	21.50	20.58	20.28	20.97	20.49	21.01
	16QAM	1	0	22.00	20.97	20.61	21.24	20.90	21.55
			13	22.00	21.29	20.91	21.53	21.17	21.81
			24	22.00	21.00	20.61	21.22	20.87	21.52
		12	0	20.50	19.60	19.30	20.00	19.52	20.04
			6	20.50	19.75	19.41	20.06	19.60	20.13
			13	20.00	19.68	19.34	20.00	19.50	20.00
		25	0	20.00	19.74	19.34	19.94	19.47	19.99
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	22.50	21.69	21.35	22.01	21.50	21.99
			25	22.50	21.80	21.46	22.12	21.63	22.14
			49	22.50	21.67	21.34	22.00	21.51	22.01
		25	0	21.50	20.83	20.46	21.08	20.60	21.11
			13	21.50	20.84	20.43	21.02	20.54	21.05
			25	21.50	20.88	20.46	21.04	20.51	20.98
		50	0	21.50	20.77	20.39	21.01	20.51	21.00
	16QAM	1	0	21.50	21.30	20.72	21.14	20.56	20.97
			25	21.50	21.44	20.87	21.29	20.71	21.12
			49	21.50	21.28	20.70	21.11	20.53	20.94
		25	0	20.50	19.86	19.46	20.05	19.58	20.10
			13	20.50	19.85	19.44	20.03	19.54	20.05
			25	20.50	19.87	19.45	20.03	19.51	19.98
		50	0	22.50	21.69	21.35	22.01	21.50	21.99

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	22.00	21.64	21.29	21.94	21.47	21.99
			38	22.50	21.89	21.55	22.21	21.76	22.30
			74	22.00	21.62	21.25	21.87	21.41	21.95
		36	0	21.50	20.86	20.47	21.07	20.57	21.07
			18	21.50	20.88	20.47	21.06	20.58	21.09
			39	21.50	20.80	20.42	21.03	20.52	21.00
		75	0	21.50	20.83	20.43	21.02	20.53	21.04
	16QAM	1	0	21.50	21.16	20.61	21.06	20.60	21.14
			38	21.50	21.50	20.92	21.34	20.89	21.44
			74	21.50	21.17	20.59	21.01	20.55	21.08
		36	0	20.50	19.81	19.46	20.11	19.55	19.98
			18	20.50	19.84	19.46	20.07	19.55	20.03
			39	20.50	19.77	19.43	20.08	19.50	19.92
		75	0	22.00	21.64	21.29	21.94	21.47	21.99
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	22.00	21.59	21.20	21.80	21.31	21.82
			50	22.50	21.96	21.56	22.15	21.66	22.17
			99	22.00	21.61	21.18	21.75	21.25	21.74
		50	0	21.50	20.76	20.41	21.05	20.52	20.99
			25	21.50	20.85	20.42	20.98	20.50	21.01
			50	21.00	20.84	20.41	20.98	20.41	20.84
		100	0	21.50	20.78	20.40	21.01	20.46	20.91
	16QAM	1	0	21.00	20.80	20.39	20.98	20.47	20.96
			50	21.50	21.18	20.77	21.35	20.83	21.31
			99	21.00	20.84	20.39	20.93	20.42	20.90
		50	0	20.50	19.78	19.40	20.02	19.55	20.07
			25	20.50	19.88	19.45	20.01	19.54	20.06
			50	20.00	19.86	19.41	19.96	19.44	19.91
		100	0	22.00	21.59	21.20	21.80	21.31	21.82

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	22.50	22.26	22.44	22.44
			2	23.00	22.47	22.66	22.61
			5	22.50	22.28	22.45	22.43
		3	0	23.00	22.48	22.42	22.62
			2	23.00	22.44	22.42	22.60
			3	23.00	22.46	22.45	22.55
		6	0	22.00	21.40	21.45	21.53
	16QAM	1	0	22.00	21.50	21.52	21.68
			2	22.00	21.64	21.67	21.76
			5	22.00	21.52	21.54	21.71
		3	0	22.00	21.59	21.60	21.77
			2	22.00	21.64	21.58	21.79
			3	22.00	21.62	21.59	21.76
		6	0	21.50	20.58	21.47	20.70
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131987	132322	132657
					1711.5MHz	1755.0MHz	1778.5MHz
3MHz	QPSK	1	0	22.50	22.37	22.38	22.45
			7	23.00	22.69	22.71	22.74
			14	22.50	22.30	22.40	22.41
		8	0	22.00	21.39	21.41	21.52
			4	22.00	21.40	21.41	21.54
			7	21.50	21.39	21.41	21.50
		15	0	21.50	21.35	21.38	21.44
	16QAM	1	0	22.00	21.73	21.62	21.92
			7	22.50	22.00	21.86	22.17
			14	22.00	21.69	21.60	21.87
		8	0	21.00	20.46	20.47	20.55
			4	21.00	20.48	20.47	20.60
			7	21.00	20.44	20.42	20.58
		15	0	21.00	20.41	20.35	20.54
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131997	132322	132647
					1712.5MHz	1755.0MHz	1775.0MHz
5MHz	QPSK	1	0	22.50	22.18	22.33	22.37
			13	23.00	22.62	22.70	22.85
			24	22.50	22.21	22.35	22.37
		12	0	22.00	21.32	21.41	21.52
			6	22.00	21.40	21.45	21.54
			13	21.50	21.33	21.39	21.46
		25	0	21.50	21.37	21.42	21.50
	16QAM	1	0	22.00	21.53	21.86	21.99
			13	22.50	21.87	22.24	22.33
			24	22.00	21.54	21.86	21.93
		12	0	21.00	20.40	20.42	20.55
			6	21.00	20.48	20.47	20.61
			13	21.00	20.37	20.41	20.52
		25	0	20.50	20.37	20.41	20.50

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	22.50	22.46	22.40	22.48
			25	23.00	22.57	22.48	22.52
			49	22.50	22.44	22.37	22.42
		25	0	22.00	21.43	21.49	21.59
			13	22.00	21.36	21.43	21.54
			25	21.50	21.45	21.48	21.50
		50	0	22.00	21.43	21.45	21.57
	16QAM	1	0	22.00	21.24	21.79	21.70
			25	22.00	21.32	21.88	21.75
			49	22.00	21.24	21.79	21.63
		25	0	21.00	20.48	20.56	20.61
			13	21.00	20.39	20.53	20.57
			25	21.00	20.48	20.56	20.56
		50	0	22.50	22.46	22.40	22.48
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132047	132322	132597
					1717.5MHz	1755.0MHz	1772.5MHz
15MHz	QPSK	1	0	22.50	22.34	22.34	22.49
			38	23.00	22.55	22.59	22.78
			74	22.50	22.16	22.26	22.41
		36	0	22.00	21.46	21.50	21.59
			18	22.00	21.46	21.48	21.56
			39	21.50	21.41	21.44	21.49
		75	0	22.00	21.49	21.49	21.56
	16QAM	1	0	22.00	21.71	21.52	21.48
			38	22.00	22.00	21.91	21.87
			74	22.00	21.56	21.47	21.48
		36	0	21.00	20.48	20.52	20.57
			18	21.00	20.47	20.54	20.52
			39	21.00	20.44	20.52	20.40
		75	0	22.50	22.34	22.34	22.49
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322	132572
					1720.0MHz	1755.0MHz	1770.0MHz
20MHz	QPSK	1	0	22.50	22.21	22.31	22.20
			50	23.00	22.47	22.58	22.50
			99	22.50	22.06	22.22	22.21
		50	0	21.50	21.33	21.43	21.44
			25	21.50	21.36	21.41	21.49
			50	21.50	21.28	21.37	21.38
		100	0	21.50	21.31	21.38	21.39
	16 QAM	1	0	22.00	21.50	21.42	21.52
			50	22.00	21.76	21.72	21.79
			99	21.50	21.33	21.36	21.48
		50	0	21.00	20.43	20.46	20.56
			25	21.00	20.48	20.48	20.52
			50	21.00	20.45	20.39	20.52
		100	0	22.50	22.21	22.31	22.20

11.1.25Conducted Power of Wi-Fi 2.4G

Mode	802.11b			Tune-up(dBm)
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)	19.50
Average Power(dBm)	18.75	19.08	18.90	
Mode	802.11g			
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)	22.50
Average Power(dBm)	22.05	22.33	22.05	
Mode	802.11n(HT20)			
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)	23.50
Average Power(dBm)	22.78	23.27	23.05	
Mode	802.11n(HT40)			
Channel/Frequency(MHz)	3(2422)	6(2437)	9 (2452)	22.00
Average Power(dBm)	21.49	21.45	21.56	

11.1.26Conducted Power of Wi-Fi 5G

Band	Mode	Channel	Frequency(MHz)	Tune-up(dBm)	Average Power(dBm)	SAR Test(Yes/No)
U-NII-1 (5150-5250)	802.11a	36	5180	16.50	16.27	No
		48	5240	16.50	16.12	No
	802.11n-HT20	36	5180	17.00	16.86	Yes
		48	5240	17.00	16.51	No
	802.11n-HT40	38	5190	17.00	16.77	No
		46	5230	17.00	16.67	No
	802.11ac-VHT20	36	5180	17.00	16.85	No
		48	5240	16.50	16.50	No
	802.11ac-VHT40	38	5190	17.00	16.69	No
		46	5230	17.00	16.60	No
	802.11ac-VHT80	42	5210	16.50	16.46	No
Band	Mode	Channel	Frequency (MHz)	Tune-up(dBm)	Average Power(dBm)	SAR Test(Yes/No)
U-NII-2a (5250-5350)	802.11a	52	5260	16.00	15.74	No
		64	5320	15.50	15.17	No
	802.11n-HT20	52	5260	16.50	16.28	No
		64	5320	16.00	15.64	No
	802.11n-HT40	54	5270	16.50	16.03	No
		62	5310	16.00	15.75	No
	802.11ac-VHT20	52	5260	16.50	16.29	Yes
		64	5320	16.00	15.83	No
	802.11ac-VHT40	54	5270	16.00	15.98	No
		62	5310	16.00	15.70	No
	802.11ac-VHT80	58	5290	16.00	15.61	No

Band	Mode	Channel	Frequency (MHz)	Tune-up(dBm)	Average Power(dBm)	SAR Test(Yes/No)
U-NII-2c (5470-5725)	802.11a	100	5500	15.00	15.00	No
		140	5700	15.00	14.86	No
	802.11n-HT20	100	5500	16.00	15.76	No
		140	5700	16.00	15.70	No
	802.11n-HT40	102	5510	16.00	15.67	No
		134	5670	16.50	16.07	Yes
	802.11ac-VHT20	100	5500	16.00	15.86	No
		140	5700	16.00	15.90	No
	802.11ac-VHT40	102	5510	16.00	15.75	No
		134	5670	16.50	16.04	No
	802.11ac-VHT80	106	5530	15.50	15.47	No
		122	5610	15.00	15.00	No
Band	Mode	Channel	Frequency (MHz)	Tune-up(dBm)	Average Powe(dBm)	SAR Test(Yes/No)
U-NII-3 (5725-5825)	802.11a	149	5745	15.00	14.72	No
		165	5825	15.50	15.15	No
	802.11n-HT20	149	5745	16.00	15.55	No
		165	5825	16.00	15.96	No
	802.11n-HT40	151	5755	16.50	16.02	No
		159	5795	16.50	16.14	Yes
	802.11ac-VHT20	149	5745	16.00	15.77	No
		165	5825	16.00	15.97	No
	802.11ac-VHT40	151	5755	16.50	16.04	No
		159	5795	16.00	15.98	No
	802.11ac-VHT80	155	5775	15.00	14.72	No
	802.11ax-HT20	149	5745	15.50	15.15	No
		165	5825	16.00	15.55	No
	802.11ax-HT40	151	5755	16.00	15.96	No
		159	5795	16.50	16.02	No
	802.11ax-HT80	155	5775	16.50	16.14	No

<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>

For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with thehighest 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.

11.1.27 Conducted Power of BT

	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	39	78
EDR			2402MHz	2441MHz	2480MHz
	GFSK	8.50	7.45	8.00	7.58
	π/4QPSK	8.00	6.99	7.64	7.09
	8DPSK	8.00	6.96	7.63	7.13
	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	19	39
BLE			2402MHz	2440MHz	2480MHz
	1Mbps	9.00	7.91	8.72	8.35
	2Mbps	8.00	6.98	7.61	7.41

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 =34.00
		1TXslots	Max output power =33.50
		2TXslots	Max output power =33.50
		3TXslots	Max output power =31.50
		4TXslots	Max output power =30.50
	EGPRS (8-PSK)	1TXslots	Max output power =34.00
		2TXslots	Max output power =33.50
		3TXslots	Max output power =31.50
		4TXslots	Max output power =30.50
GSM1900	GSM/GPRS (GMSK)	GSM	Max output power =30.50
		1TXslots	Max output power =30.50
		2TXslots	Max output power =30.00
		3TXslots	Max output power =28.00
		4TXslots	Max output power =26.50
	EGPRS (8-PSK)	1TXslots	Max output power =30.50
		2TXslots	Max output power =29.50
		3TXslots	Max output power =27.50
		4TXslots	Max output power =26.50
WCDMA 2	Max output power =24.50		
WCDMA 4	Max output power =24.50		
WCDMA 5	Max output power =25.00		
LTE B2	Max output power =23.00		
LTE B4	Max output power =23.50		
LTE B5	Max output power =24.00		
LTE B7	Max output power =23.00		
LTE B12	Max output power =22.50		
LTE B17	Max output power =23.00		
LTE B38	Max output power =22.50		
LTE B41	Max output power =22.50		
LTE B66	Max output power =23.00		

Band	Tune-up power tolerance(dBm)		
WIFI	2.4G	802.11b	Max output power =19.50
		802.11g	Max output power =22.50
		802.11n (HT20)	Max output power =23.50
		802.11n (HT40)	Max output power =22.00
	U-NII-1(5150-5250)	802.11a	Max output power =16.50
		802.11n-HT20	Max output power =17.00
		802.11n-HT40	Max output power =17.00
		802.11ac-VHT20	Max output power =17.00
		802.11ac-VHT40	Max output power =17.00
		802.11ac-VHT80	Max output power =16.50
	U-NII-2a(5250-5350)	802.11a	Max output power =16.00
		802.11n-HT20	Max output power =16.50
		802.11n-HT40	Max output power =16.50
		802.11ac-VHT20	Max output power =16.50
		802.11ac-VHT40	Max output power =16.00
		802.11ac-VHT80	Max output power =16.00
	U-NII-2c(5470-5725)	802.11a	Max output power =15.50
		802.11n-HT20	Max output power =16.00
		802.11n-HT40	Max output power =16.50
		802.11ac-VHT20	Max output power =16.00
		802.11ac-VHT40	Max output power =16.50
		802.11ac-VHT80	Max output power =16.00
	U-NII-3(5725-5825)	802.11a	Max output power =15.50
		802.11n-HT20	Max output power =16.00
		802.11n-HT40	Max output power =16.50
		802.11ac-VHT20	Max output power =16.00
		802.11ac-VHT40	Max output power =16.50
		802.11ac-VHT80	Max output power =16.00
BT		GFSK mode	Max output power =8.50
		Pi/4DQPSK mode	Max output power =8.00
		8DPSK mode	Max output power =8.00
BLE		1Mbps Power	Max output power =9.00
		2Mbps Power	Max output power =8.00

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	128	824.2	-0.140	0.133	100	1.00	33.84	34.00	1.038	0.138
	Left Tilt	128	824.2	-0.090	0.207	100	1.00	33.84	34.00	1.038	0.215
	Right Cheek	128	824.2	0.140	0.265	100	1.00	33.84	34.00	1.038	0.275
	Right Tilt	128	824.2	0.030	0.449	100	1.00	33.84	34.00	1.038	0.466
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)
EGPRS 850+1slots	Front	128	824.2	-0.090	0.058	100	1.00	33.88	34.00	1.028	0.060
	Back	128	824.2	-0.010	0.090	100	1.00	33.88	34.00	1.028	0.093
	Left	128	824.2	-0.020	0.094	100	1.00	33.88	34.00	1.028	0.097
	right	128	824.2	-0.160	0.034	100	1.00	33.88	34.00	1.028	0.035
	Top	128	824.2	-0.130	0.056	100	1.00	33.88	34.00	1.028	0.058
	Bottom	128	824.2	0.110	0.019	100	1.00	33.88	34.00	1.028	0.020

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	512	1850.2	-0.130	0.055	100	1.00	30.44	30.50	1.014	0.056
	Left Tilt	512	1850.2	-0.130	0.139	100	1.00	30.44	30.50	1.014	0.141
	Right Cheek	512	1850.2	0.150	0.089	100	1.00	30.44	30.50	1.014	0.090
	Right Tilt	512	1850.2	0.160	0.247	100	1.00	30.44	30.50	1.014	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)
EGPRS 1900+1slots	Front	512	1850.2	0.070	0.301	100	1.00	30.36	30.50	1.033	0.311
	Back	512	1850.2	0.150	0.496	100	1.00	30.36	30.50	1.033	0.512
	Left	512	1850.2	0.170	0.170	100	1.00	30.36	30.50	1.033	0.176
	right	512	1850.2	-0.120	0.045	100	1.00	30.36	30.50	1.033	0.046
	Top	512	1850.2	0.160	0.611	100	1.00	30.36	30.50	1.033	0.631
	Bottom	512	1850.2	-0.080	0.020	100	1.00	30.36	30.50	1.033	0.021
	Top	512	1850.2	0.070	0.301	100	1.00	30.36	30.50	1.033	0.311

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	0.000	0.084	100	1.00	24.18	24.50	1.076	0.090
	Left Tilt	9538	1907.6	0.110	0.207	100	1.00	24.18	24.50	1.076	0.223
	Right Cheek	9538	1907.6	0.170	0.185	100	1.00	24.18	24.50	1.076	0.199
	Right Tilt	9538	1907.6	-0.010	0.427	100	1.00	24.18	24.50	1.076	0.460
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	0.070	0.068	100	1.00	24.18	24.50	1.076	0.073
	Back	9538	1907.6	0.040	0.115	100	1.00	24.18	24.50	1.076	0.124
	Left	9538	1907.6	0.090	0.039	100	1.00	24.18	24.50	1.076	0.042
	right	9538	1907.6	0.160	0.010	100	1.00	24.18	24.50	1.076	0.011
	Top	9538	1907.6	-0.040	0.136	100	1.00	24.18	24.50	1.076	0.146
	Bottom	9538	1907.6	0.000	0.005	100	1.00	24.18	24.50	1.076	0.005

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 4 (RMC*)	Left Cheek	1312	1712.4	-0.160	0.075	100	1.00	24.36	24.50	1.033	0.077
	Left Tilt	1312	1712.4	-0.030	0.218	100	1.00	24.36	24.50	1.033	0.225
	Right Cheek	1312	1712.4	-0.130	0.164	100	1.00	24.36	24.50	1.033	0.169
	Right Tilt	1312	1712.4	0.010	0.457	100	1.00	24.36	24.50	1.033	0.472
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 4 (RMC*)	Front	1312	1712.4	0.070	0.058	100	1.00	24.36	24.50	1.033	0.060
	Back	1312	1712.4	0.030	0.097	100	1.00	24.36	24.50	1.033	0.100
	Left	1312	1712.4	0.090	0.032	100	1.00	24.36	24.50	1.033	0.033
	right	1312	1712.4	0.110	0.009	100	1.00	24.36	24.50	1.033	0.009
	Top	1312	1712.4	-0.010	0.114	100	1.00	24.36	24.50	1.033	0.118
	Bottom	1312	1712.4	0.030	0.003	100	1.00	24.36	24.50	1.033	0.003

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 5 (RMC*)	Left Cheek	4233	846.6	-0.110	0.129	100	1.00	24.75	25.00	1.059	0.137
	Left Tilt	4233	846.6	0.110	0.233	100	1.00	24.75	25.00	1.059	0.247
	Right Cheek	4233	846.6	-0.150	0.216	100	1.00	24.75	25.00	1.059	0.229
	Right Tilt	4233	846.6	-0.010	0.411	100	1.00	24.75	25.00	1.059	0.435
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	4233	846.6	0.070	0.114	100	1.00	24.75	25.00	1.059	0.121
	Back	4233	846.6	0.010	0.184	100	1.00	24.75	25.00	1.059	0.195
	Left	4233	846.6	0.030	0.040	100	1.00	24.75	25.00	1.059	0.042
	right	4233	846.6	0.090	0.010	100	1.00	24.75	25.00	1.059	0.011
	Top	4233	846.6	-0.040	0.093	100	1.00	24.75	25.00	1.059	0.099
	Bottom	4233	846.6	-0.170	0.002	100	1.00	24.75	25.00	1.059	0.002

11.3.3 Results overview of LTE

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	18900	1880.0	-0.090	0.216	100	1.00	22.95	23.00	1.012	0.219
		Left Tilt	18900	1880.0	-0.110	0.311	100	1.00	22.95	23.00	1.012	0.315
		Right Cheek	18900	1880.0	0.100	0.307	100	1.00	22.95	23.00	1.012	0.311
		Right Tilt	18900	1880.0	-0.020	0.443	100	1.00	22.95	23.00	1.012	0.448
	50%RB	Left Cheek	18900	1880.0	0.070	0.162	100	1.00	22.95	23.00	1.012	0.164
		Left Tilt	18900	1880.0	-0.110	0.233	100	1.00	22.95	23.00	1.012	0.236
		Right Cheek	18900	1880.0	0.020	0.225	100	1.00	22.95	23.00	1.012	0.228
		Right Tilt	18900	1880.0	0.150	0.332	100	1.00	22.95	23.00	1.012	0.336
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	18900	1880.0	-0.160	0.130	100	1.00	22.95	23.00	1.012	0.132
		Back	18900	1880.0	-0.080	0.136	100	1.00	22.95	23.00	1.012	0.138
		Left	18900	1880.0	0.090	0.021	100	1.00	22.95	23.00	1.012	0.021
		right	18900	1880.0	-0.190	0.010	100	1.00	22.95	23.00	1.012	0.010
		Top	18900	1880.0	0.020	0.134	100	1.00	22.95	23.00	1.012	0.136
		Bottom	18900	1880.0	0.170	0.001	100	1.00	22.95	23.00	1.012	0.001
	50%RB	Front	18900	1880.0	0.060	0.097	100	1.00	22.95	23.00	1.012	0.098
		Back	18900	1880.0	0.120	0.102	100	1.00	22.95	23.00	1.012	0.103
		Left	18900	1880.0	0.030	0.015	100	1.00	22.95	23.00	1.012	0.015
		right	18900	1880.0	0.150	0.007	100	1.00	22.95	23.00	1.012	0.007
		Top	18900	1880.0	-0.110	0.100	100	1.00	22.95	23.00	1.012	0.101
		Bottom	18900	1880.0	-0.170	0.001	100	1.00	22.95	23.00	1.012	0.001

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	20325	1747.5	0.050	0.103	100	1.00	23.11	23.50	1.094	0.113
		Left Tilt	20325	1747.5	-0.090	0.220	100	1.00	23.11	23.50	1.094	0.241
		Right Cheek	20325	1747.5	0.110	0.175	100	1.00	23.11	23.50	1.094	0.191
		Right Tilt	20325	1747.5	-0.020	0.352	100	1.00	23.11	23.50	1.094	0.385
	50%RB	Left Cheek	20325	1747.5	0.150	0.077	100	1.00	23.11	23.50	1.094	0.084
		Left Tilt	20325	1747.5	-0.130	0.165	100	1.00	23.11	23.50	1.094	0.181
		Right Cheek	20325	1747.5	0.060	0.131	100	1.00	23.11	23.50	1.094	0.143
		Right Tilt	20325	1747.5	-0.080	0.264	100	1.00	23.11	23.50	1.094	0.289
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	20325	1747.5	0.100	0.090	100	1.00	23.11	23.50	1.094	0.098
		Back	20325	1747.5	-0.040	0.102	100	1.00	23.11	23.50	1.094	0.112
		Left	20325	1747.5	-0.100	0.017	100	1.00	23.11	23.50	1.094	0.019
		right	20325	1747.5	-0.180	0.009	100	1.00	23.11	23.50	1.094	0.010
		Top	20325	1747.5	0.060	0.097	100	1.00	23.11	23.50	1.094	0.106
		Bottom	20325	1747.5	0.050	0.001	100	1.00	23.11	23.50	1.094	0.001
	50%RB	Front	20325	1747.5	0.020	0.067	100	1.00	23.11	23.50	1.094	0.073
		Back	20325	1747.5	0.160	0.076	100	1.00	23.11	23.50	1.094	0.083
		Left	20325	1747.5	-0.090	0.012	100	1.00	23.11	23.50	1.094	0.013
		right	20325	1747.5	0.140	0.006	100	1.00	23.11	23.50	1.094	0.007
		Top	20325	1747.5	0.030	0.072	100	1.00	23.11	23.50	1.094	0.079
		Bottom	20325	1747.5	-0.020	0.001	100	1.00	23.11	23.50	1.094	0.001

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	20635	847.5	0.170	0.088	100	1.00	23.57	24.00	1.104	0.097
		Left Tilt	20635	847.5	-0.110	0.137	100	1.00	23.57	24.00	1.104	0.151
		Right Cheek	20635	847.5	0.150	0.219	100	1.00	23.57	24.00	1.104	0.242
		Right Tilt	20635	847.5	0.010	0.342	100	1.00	23.57	24.00	1.104	0.378
	50%RB	Left Cheek	20635	847.5	0.070	0.066	100	1.00	23.57	24.00	1.104	0.073
		Left Tilt	20635	847.5	-0.090	0.102	100	1.00	23.57	24.00	1.104	0.113
		Right Cheek	20635	847.5	0.120	0.164	100	1.00	23.57	24.00	1.104	0.181
		Right Tilt	20635	847.5	0.190	0.256	100	1.00	23.57	24.00	1.104	0.283
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	20635	847.5	0.080	0.091	100	1.00	23.57	24.00	1.104	0.100
		Back	20635	847.5	0.010	0.149	100	1.00	23.57	24.00	1.104	0.165
		Left	20635	847.5	0.050	0.032	100	1.00	23.57	24.00	1.104	0.035
		Right	20635	847.5	-0.160	0.008	100	1.00	23.57	24.00	1.104	0.009
		Top	20635	847.5	-0.130	0.065	100	1.00	23.57	24.00	1.104	0.072
		Bottom	20635	847.5	0.020	0.001	100	1.00	23.57	24.00	1.104	0.001
	50%RB	Front	20635	847.5	0.170	0.068	100	1.00	23.57	24.00	1.104	0.075
		Back	20635	847.5	0.010	0.111	100	1.00	23.57	24.00	1.104	0.123
		Left	20635	847.5	0.130	0.024	100	1.00	23.57	24.00	1.104	0.026
		Right	20635	847.5	-0.080	0.006	100	1.00	23.57	24.00	1.104	0.007
		Top	20635	847.5	-0.140	0.048	100	1.00	23.57	24.00	1.104	0.053
		Bottom	20635	847.5	-0.050	0.001	100	1.00	23.57	24.00	1.104	0.001

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	21425	2567.5	-0.010	0.223	100	1.00	22.68	23.00	1.076	0.240
		Left Tilt	21425	2567.5	-0.060	0.407	100	1.00	22.68	23.00	1.076	0.438
		Right Cheek	21425	2567.5	-0.090	0.308	100	1.00	22.68	23.00	1.076	0.332
		Right Tilt	21425	2567.5	0.000	0.465	100	1.00	22.68	23.00	1.076	0.501
	50%RB	Left Cheek	21425	2567.5	-0.120	0.167	100	1.00	22.68	23.00	1.076	0.180
		Left Tilt	21425	2567.5	0.060	0.305	100	1.00	22.68	23.00	1.076	0.328
		Right Cheek	21425	2567.5	0.050	0.231	100	1.00	22.68	23.00	1.076	0.249
		Right Tilt	21425	2567.5	-0.180	0.348	100	1.00	22.68	23.00	1.076	0.375
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	21425	2567.5	-0.080	0.131	100	1.00	22.68	23.00	1.076	0.141
		Back	21425	2567.5	-0.080	0.158	100	1.00	22.68	23.00	1.076	0.170
		Left	21425	2567.5	0.150	0.050	100	1.00	22.68	23.00	1.076	0.054
		Right	21425	2567.5	0.050	0.018	100	1.00	22.68	23.00	1.076	0.019
		Top	21425	2567.5	0.140	0.111	100	1.00	22.68	23.00	1.076	0.119
		Bottom	21425	2567.5	0.030	0.010	100	1.00	22.68	23.00	1.076	0.011
	50%RB	Front	21425	2567.5	-0.010	0.098	100	1.00	22.68	23.00	1.076	0.105
		Back	21425	2567.5	0.100	0.118	100	1.00	22.68	23.00	1.076	0.127
		Left	21425	2567.5	0.020	0.037	100	1.00	22.68	23.00	1.076	0.040
		Right	21425	2567.5	-0.060	0.013	100	1.00	22.68	23.00	1.076	0.014
		Top	21425	2567.5	0.130	0.083	100	1.00	22.68	23.00	1.076	0.089
		Bottom	21425	2567.5	0.170	0.007	100	1.00	22.68	23.00	1.076	0.008

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	23025	700.5	0.020	0.039	100	1.00	22.49	22.50	1.002	0.039
		Left Tilt	23025	700.5	-0.030	0.102	100	1.00	22.49	22.50	1.002	0.102
		Right Cheek	23025	700.5	0.170	0.193	100	1.00	22.49	22.50	1.002	0.193
		Right Tilt	23025	700.5	0.010	0.260	100	1.00	22.49	22.50	1.002	0.261
	50%RB	Left Cheek	23025	700.5	-0.080	0.029	100	1.00	22.49	22.50	1.002	0.029
		Left Tilt	23025	700.5	0.050	0.076	100	1.00	22.49	22.50	1.002	0.076
		Right Cheek	23025	700.5	-0.190	0.144	100	1.00	22.49	22.50	1.002	0.144
		Right Tilt	23025	700.5	0.140	0.195	100	1.00	22.49	22.50	1.002	0.195
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	23025	700.5	-0.090	0.072	100	1.00	22.49	22.50	1.002	0.072
		Back	23025	700.5	-0.130	0.117	100	1.00	22.49	22.50	1.002	0.117
		Left	23025	700.5	-0.110	0.126	100	1.00	22.49	22.50	1.002	0.126
		Right	23025	700.5	0.090	0.044	100	1.00	22.49	22.50	1.002	0.044
		Top	23025	700.5	-0.100	0.076	100	1.00	22.49	22.50	1.002	0.076
		Bottom	23025	700.5	-0.030	0.026	100	1.00	22.49	22.50	1.002	0.026
	50%RB	Front	23025	700.5	0.190	0.054	100	1.00	22.49	22.50	1.002	0.054
		Back	23025	700.5	-0.120	0.087	100	1.00	22.49	22.50	1.002	0.087
		Left	23025	700.5	-0.160	0.094	100	1.00	22.49	22.50	1.002	0.094
		Right	23025	700.5	0.070	0.033	100	1.00	22.49	22.50	1.002	0.033
		Top	23025	700.5	0.020	0.057	100	1.00	22.49	22.50	1.002	0.057
		Bottom	23025	700.5	-0.010	0.019	100	1.00	22.49	22.50	1.002	0.019

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Left Cheek	23755	706.5	0.110	0.081	100	1.00	22.55	23.00	1.109	0.090
		Left Tilt	23755	706.5	0.160	0.098	100	1.00	22.55	23.00	1.109	0.109
		Right Cheek	23755	706.5	-0.150	0.201	100	1.00	22.55	23.00	1.109	0.223
		Right Tilt	23755	706.5	0.010	0.244	100	1.00	22.55	23.00	1.109	0.271
	50%RB	Left Cheek	23755	706.5	0.020	0.060	100	1.00	22.55	23.00	1.109	0.067
		Left Tilt	23755	706.5	-0.140	0.073	100	1.00	22.55	23.00	1.109	0.081
		Right Cheek	23755	706.5	0.110	0.150	100	1.00	22.55	23.00	1.109	0.166
		Right Tilt	23755	706.5	0.090	0.183	100	1.00	22.55	23.00	1.109	0.203
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Front	23755	706.5	-0.030	0.068	100	1.00	22.55	23.00	1.109	0.075
		Back	23755	706.5	-0.050	0.110	100	1.00	22.55	23.00	1.109	0.122
		Left	23755	706.5	0.000	0.119	100	1.00	22.55	23.00	1.109	0.132
		Right	23755	706.5	0.080	0.041	100	1.00	22.55	23.00	1.109	0.045
		Top	23755	706.5	-0.110	0.072	100	1.00	22.55	23.00	1.109	0.080
		Bottom	23755	706.5	-0.170	0.024	100	1.00	22.55	23.00	1.109	0.027
	50%RB	Front	23755	706.5	0.120	0.051	100	1.00	22.55	23.00	1.109	0.057
		Back	23755	706.5	0.150	0.082	100	1.00	22.55	23.00	1.109	0.091
		Left	23755	706.5	0.070	0.089	100	1.00	22.55	23.00	1.109	0.099
		Right	23755	706.5	-0.180	0.030	100	1.00	22.55	23.00	1.109	0.033
		Top	23755	706.5	-0.060	0.054	100	1.00	22.55	23.00	1.109	0.060
		Bottom	23755	706.5	-0.010	0.018	100	1.00	22.55	23.00	1.109	0.020

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Left Cheek	38000	2595	0.160	0.326	100	1.00	22.16	22.50	1.081	0.353
		Left Tilt	38000	2595	-0.120	0.442	100	1.00	22.16	22.50	1.081	0.478
		Right Cheek	38000	2595	0.080	0.433	100	1.00	22.16	22.50	1.081	0.468
		Right Tilt	38000	2595	-0.050	0.578	100	1.00	22.16	22.50	1.081	0.625
	50%RB	Left Cheek	38000	2595	0.060	0.244	100	1.00	22.16	22.50	1.081	0.264
		Left Tilt	38000	2595	0.130	0.331	100	1.00	22.16	22.50	1.081	0.358
		Right Cheek	38000	2595	0.090	0.324	100	1.00	22.16	22.50	1.081	0.350
		Right Tilt	38000	2595	0.030	0.433	100	1.00	22.16	22.50	1.081	0.468
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Front	38000	2595	-0.140	0.131	100	1.00	22.16	22.50	1.081	0.142
		Back	38000	2595	0.170	0.212	100	1.00	22.16	22.50	1.081	0.229
		Left	38000	2595	0.150	0.073	100	1.00	22.16	22.50	1.081	0.079
		Right	38000	2595	-0.100	0.020	100	1.00	22.16	22.50	1.081	0.022
		Top	38000	2595	0.010	0.255	100	1.00	22.16	22.50	1.081	0.276
		Bottom	38000	2595	-0.070	0.008	100	1.00	22.16	22.50	1.081	0.009
	50%RB	Front	38000	2595	0.050	0.098	100	1.00	22.16	22.50	1.081	0.106
		Back	38000	2595	-0.090	0.159	100	1.00	22.16	22.50	1.081	0.172
		Left	38000	2595	0.170	0.054	100	1.00	22.16	22.50	1.081	0.058
		Right	38000	2595	0.120	0.015	100	1.00	22.16	22.50	1.081	0.016
		Top	38000	2595	-0.020	0.191	100	1.00	22.16	22.50	1.081	0.207
		Bottom	38000	2595	0.110	0.006	100	1.00	22.16	22.50	1.081	0.006

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	41165	2647.5	-0.160	0.099	100	1.00	22.30	22.50	1.047	0.104
		Left Tilt	41165	2647.5	-0.150	0.196	100	1.00	22.30	22.50	1.047	0.205
		Right Cheek	41165	2647.5	0.130	0.123	100	1.00	22.30	22.50	1.047	0.129
		Right Tilt	41165	2647.5	0.070	0.242	100	1.00	22.30	22.50	1.047	0.253
		Right Tilt	39750	2506.0	0.150	0.252	100	1.00	22.30	22.50	1.047	0.264
		Right Tilt	40185	2549.5	0.120	0.259	100	1.00	22.30	22.50	1.047	0.271
		Right Tilt	41055	2636.5	0.030	0.272	100	1.00	22.30	22.50	1.047	0.285
		Right Tilt	41490	2680.0	-0.020	0.141	100	1.00	22.30	22.50	1.047	0.148
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	41165	2647.5	0.120	0.072	100	1.00	22.30	22.50	1.047	0.075
		Back	41165	2647.5	0.180	0.124	100	1.00	22.30	22.50	1.047	0.130
		Left	41165	2647.5	0.170	0.040	100	1.00	22.30	22.50	1.047	0.042
		Right	41165	2647.5	-0.100	0.011	100	1.00	22.30	22.50	1.047	0.012
		Top	41165	2647.5	-0.020	0.144	100	1.00	22.30	22.50	1.047	0.151
		Bottom	41165	2647.5	0.030	0.004	100	1.00	22.30	22.50	1.047	0.004
		Top	39750	2506.0	-0.160	0.125	100	1.00	22.30	22.50	1.047	0.131
		Top	40185	2549.5	-0.130	0.130	100	1.00	22.30	22.50	1.047	0.136
		Top	41055	2636.5	-0.110	0.102	100	1.00	22.30	22.50	1.047	0.107
		Top	41490	2680.0	-0.030	0.097	100	1.00	22.30	22.50	1.047	0.102

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	41165	2647.5	0.030	0.074	100	1.00	22.30	22.50	1.047	0.077
		Left Tilt	41165	2647.5	0.110	0.147	100	1.00	22.30	22.50	1.047	0.154
		Right Cheek	41165	2647.5	-0.090	0.092	100	1.00	22.30	22.50	1.047	0.096
		Right Tilt	41165	2647.5	0.010	0.181	100	1.00	22.30	22.50	1.047	0.190
		Right Tilt	40140	2506.0	0.190	0.189	100	1.00	22.30	22.50	1.047	0.198
		Right Tilt	40185	2549.5	-0.120	0.194	100	1.00	22.30	22.50	1.047	0.203
		Right Tilt	41055	2636.5	-0.050	0.204	100	1.00	22.30	22.50	1.047	0.214
		Right Tilt	41140	2680.0	-0.060	0.105	100	1.00	22.30	22.50	1.047	0.110
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	41165	2647.5	0.010	0.054	100	1.00	22.30	22.50	1.047	0.057
		Back	41165	2647.5	0.060	0.093	100	1.00	22.30	22.50	1.047	0.097
		Left	41165	2647.5	0.030	0.030	100	1.00	22.30	22.50	1.047	0.031
		Right	41165	2647.5	-0.110	0.008	100	1.00	22.30	22.50	1.047	0.008
		Top	41165	2647.5	0.150	0.108	100	1.00	22.30	22.50	1.047	0.113
		Bottom	41165	2647.5	0.050	0.003	100	1.00	22.30	22.50	1.047	0.003
		Top	40140	2506.0	-0.090	0.093	100	1.00	22.30	22.50	1.047	0.097
		Top	40185	2549.5	-0.060	0.097	100	1.00	22.30	22.50	1.047	0.102
		Top	41055	2636.5	-0.190	0.076	100	1.00	22.30	22.50	1.047	0.080
		Top	41140	2680.0	0.100	0.072	100	1.00	22.30	22.50	1.047	0.075

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	132647	1777.5	-0.130	0.179	100	1.00	22.85	23.00	1.035	0.185
		Left Tilt	132647	1777.5	-0.070	0.225	100	1.00	22.85	23.00	1.035	0.233
		Right Cheek	132647	1777.5	0.030	0.359	100	1.00	22.85	23.00	1.035	0.372
		Right Tilt	132647	1777.5	0.010	0.426	100	1.00	22.85	23.00	1.035	0.441
	50%RB	Left Cheek	132647	1777.5	0.050	0.134	100	1.00	22.85	23.00	1.035	0.139
		Left Tilt	132647	1777.5	0.060	0.168	100	1.00	22.85	23.00	1.035	0.174
		Right Cheek	132647	1777.5	-0.110	0.269	100	1.00	22.85	23.00	1.035	0.278
		Right Tilt	132647	1777.5	0.190	0.319	100	1.00	22.85	23.00	1.035	0.330
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	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	132647	1777.5	0.070	0.077	100	1.00	22.85	23.00	1.035	0.080
		Back	132647	1777.5	-0.040	0.094	100	1.00	22.85	23.00	1.035	0.097
		Left	132647	1777.5	-0.110	0.024	100	1.00	22.85	23.00	1.035	0.025
		Right	132647	1777.5	0.140	0.006	100	1.00	22.85	23.00	1.035	0.006
		Top	132647	1777.5	-0.170	0.086	100	1.00	22.85	23.00	1.035	0.089
		Bottom	132647	1777.5	0.140	0.003	100	1.00	22.85	23.00	1.035	0.003
	50%RB	Front	132647	1777.5	0.160	0.057	100	1.00	22.85	23.00	1.035	0.059
		Back	132647	1777.5	0.020	0.070	100	1.00	22.85	23.00	1.035	0.072
		Left	132647	1777.5	-0.070	0.018	100	1.00	22.85	23.00	1.035	0.019
		Right	132647	1777.5	-0.010	0.004	100	1.00	22.85	23.00	1.035	0.004
		Top	132647	1777.5	0.180	0.064	100	1.00	22.85	23.00	1.035	0.066
		Bottom	132647	1777.5	0.090	0.002	100	1.00	22.85	23.00	1.035	0.002

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)
2.4gWi-Fi 802.11n(HT20)	Left Cheek	6	2437	0.030	0.174	100	1.00	23.27	23.50	1.054	0.183
	Left Tilt	6	2437	0.040	0.154	100	1.00	23.27	23.50	1.054	0.162
	Right Cheek	6	2437	0.190	0.101	100	1.00	23.27	23.50	1.054	0.106
	Right Tilt	6	2437	0.020	0.103	100	1.00	23.27	23.50	1.054	0.109
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)
2.4gWi-Fi 802.11n(HT20)	Front	6	2437	0.120	0.036	100	1.00	23.27	23.50	1.054	0.038
	Back	6	2437	-0.060	0.047	100	1.00	23.27	23.50	1.054	0.050
	Left	6	2437	-0.020	0.014	100	1.00	23.27	23.50	1.054	0.015
	Right	6	2437	0.050	0.022	100	1.00	23.27	23.50	1.054	0.023
	Top	6	2437	-0.170	0.041	100	1.00	23.27	23.50	1.054	0.043
	Bottom	6	2437	0.040	0.002	100	1.00	23.27	23.50	1.054	0.002

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band1 802.11n(HT20)	Left Cheek	36	5180	0.190	0.115	100	1.00	16.86	17.00	1.033	0.119
	Left Tilt	36	5180	-0.010	0.148	100	1.00	16.86	17.00	1.033	0.153
	Right Cheek	36	5180	0.180	0.061	100	1.00	16.86	17.00	1.033	0.063
	Right Tilt	36	5180	0.020	0.082	100	1.00	16.86	17.00	1.033	0.085
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band1 802.11n(HT20)	Front	36	5180	0.060	0.012	100	1.00	16.86	17.00	1.033	0.012
	Back	36	5180	-0.130	0.018	100	1.00	16.86	17.00	1.033	0.019
	Left	36	5180	-0.028	0.005	100	1.00	16.86	17.00	1.033	0.005
	Right	36	5180	0.140	0.009	100	1.00	16.86	17.00	1.033	0.009
	Top	36	5180	-0.080	0.035	100	1.00	16.86	17.00	1.033	0.036
	Bottom	36	5180	0.120	0.001	100	1.00	16.86	17.00	1.033	0.001

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band2 802.11ac-VHT20	Left Cheek	52	5260	0.080	0.109	100	1.00	16.29	16.50	1.050	0.114
	Left Tilt	52	5260	0.100	0.157	100	1.00	16.29	16.50	1.050	0.165
	Right Cheek	52	5260	-0.170	0.068	100	1.00	16.29	16.50	1.050	0.071
	Right Tilt	52	5260	-0.010	0.095	100	1.00	16.29	16.50	1.050	0.100
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band2 802.11ac-VHT20	Front	52	5260	0.050	0.014	100	1.00	16.29	16.50	1.050	0.015
	Back	52	5260	-0.160	0.020	100	1.00	16.29	16.50	1.050	0.021
	Left	52	5260	0.130	0.004	100	1.00	16.29	16.50	1.050	0.004
	Right	52	5260	0.140	0.015	100	1.00	16.29	16.50	1.050	0.016
	Top	52	5260	-0.110	0.036	100	1.00	16.29	16.50	1.050	0.038
	Bottom	52	5260	-0.120	0.002	100	1.00	16.29	16.50	1.050	0.002

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band3 802.11n-HT40	Left Cheek	134	5670	0.110	0.070	100	1.00	16.07	16.50	1.104	0.077
	Left Tilt	134	5670	0.150	0.151	100	1.00	16.07	16.50	1.104	0.167
	Right Cheek	134	5670	0.010	0.038	100	1.00	16.07	16.50	1.104	0.042
	Right Tilt	134	5670	0.170	0.082	100	1.00	16.07	16.50	1.104	0.091
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band3 802.11n-HT40	Front	134	5670	-0.090	0.018	100	1.00	16.07	16.50	1.104	0.020
	Back	134	5670	-0.180	0.024	100	1.00	16.07	16.50	1.104	0.026
	Left	134	5670	0.000	0.005	100	1.00	16.07	16.50	1.104	0.006
	Right	134	5670	0.070	0.019	100	1.00	16.07	16.50	1.104	0.021
	Top	134	5670	-0.160	0.044	100	1.00	16.07	16.50	1.104	0.049
	Bottom	134	5670	0.030	0.001	100	1.00	16.07	16.50	1.104	0.001

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band4 802.11n-HT40	Left Cheek	159	5795	0.090	0.128	100	1.00	16.14	16.50	1.086	0.139
	Left Tilt	159	5795	-0.120	0.175	100	1.00	16.14	16.50	1.086	0.190
	Right Cheek	159	5795	-0.010	0.040	100	1.00	16.14	16.50	1.086	0.043
	Right Tilt	159	5795	-0.150	0.055	100	1.00	16.14	16.50	1.086	0.060
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
5g Band4 802.11n-HT40	Front	159	5795	0.160	0.021	100	1.00	16.14	16.50	1.086	0.023
	Back	159	5795	-0.020	0.027	100	1.00	16.14	16.50	1.086	0.029
	Left	159	5795	-0.190	0.006	100	1.00	16.14	16.50	1.086	0.007
	Right	159	5795	0.110	0.023	100	1.00	16.14	16.50	1.086	0.025
	Top	159	5795	0.050	0.052	100	1.00	16.14	16.50	1.086	0.056
	Bottom	159	5795	0.080	0.002	100	1.00	16.14	16.50	1.086	0.002

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Bluetooth	Left Cheek	39	2441	0.030	0.125	100	1.00	8.00	8.50	1.122	0.140
	Left Tilt	39	2441	0.000	0.171	100	1.00	8.00	8.50	1.122	0.192
	Right Cheek	39	2441	-0.130	0.064	100	1.00	8.00	8.50	1.122	0.072
	Right Tilt	39	2441	-0.185	0.084	100	1.00	8.00	8.50	1.122	0.094
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	39	2441	0.160	0.040	100	1.00	8.00	8.50	1.122	0.045
	Back	39	2441	0.040	0.043	100	1.00	8.00	8.50	1.122	0.048
	Left	39	2441	-0.080	0.008	100	1.00	8.00	8.50	1.122	0.009
	Right	39	2441	-0.140	0.032	100	1.00	8.00	8.50	1.122	0.036
	Top	39	2441	-0.030	0.031	100	1.00	8.00	8.50	1.122	0.035
	Bottom	39	2441	0.070	0.001	100	1.00	8.00	8.50	1.122	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.

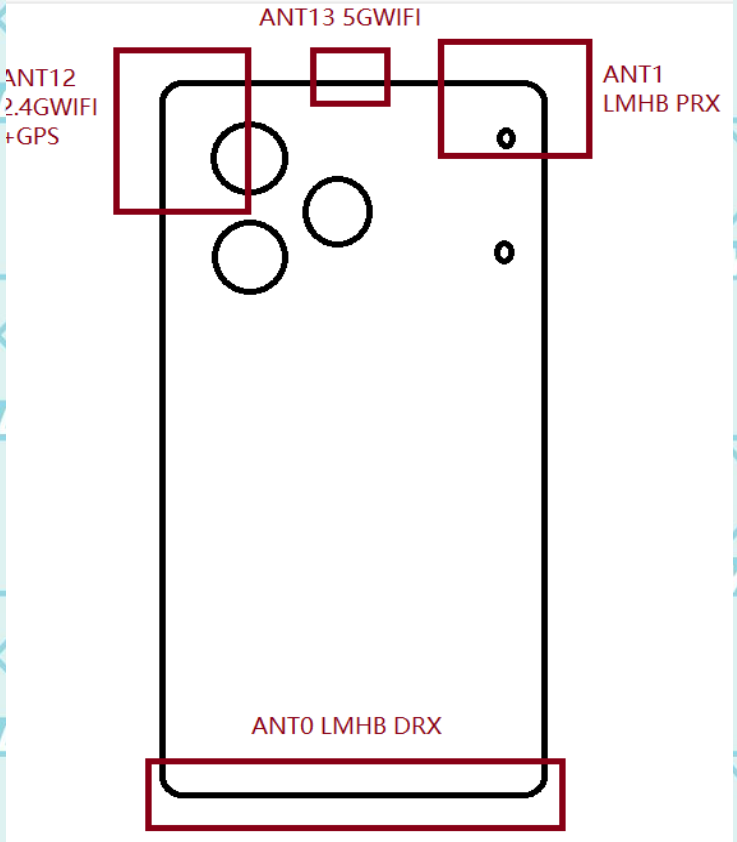
5.Per KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions 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 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	WWAN +BT	YES	YES	YES
2	WWAN+2.4GWi-Fi	YES	YES	YES
3	WWAN+5GWi-Fi	YES	YES	YES
4	WWAN+5GWi-Fi+BT	YES	YES	YES

Note: The relevant synchronous transmission technical specification materials are provided by the applicant.

12.1.1 SAR Summation Scenario

Head

Band	Test Position	Scaled SAR				WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN+BT Σ SAR (W/kg)	WWAN+ WIFI5G +BT Σ SAR (W/kg)	Llimit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	WIFI5G MAX SAR 1g(W/kg)	BT SAR 1g(W/kg)					
GSM850 (voice)	Left Cheek	0.138	0.183	0.139	0.140	0.321	0.277	0.278	0.417	1.6
	Left Tilt	0.215	0.162	0.190	0.192	0.377	0.405	0.407	0.597	
	Right Cheek	0.275	0.106	0.071	0.072	0.381	0.346	0.347	0.418	
	Right Tilt	0.466	0.109	0.100	0.094	0.575	0.566	0.560	0.660	
GSM1900 (voice)	Left Cheek	0.056	0.183	0.139	0.140	0.239	0.195	0.196	0.335	
	Left Tilt	0.141	0.162	0.190	0.192	0.303	0.331	0.333	0.523	
	Right Cheek	0.090	0.106	0.071	0.072	0.196	0.161	0.162	0.233	
	Right Tilt	0.250	0.109	0.100	0.094	0.359	0.350	0.344	0.444	
WCDMA Band 2	Left Cheek	0.090	0.183	0.139	0.140	0.273	0.229	0.230	0.369	
	Left Tilt	0.223	0.162	0.190	0.192	0.385	0.413	0.415	0.605	
	Right Cheek	0.199	0.106	0.071	0.072	0.305	0.270	0.271	0.342	
	Right Tilt	0.460	0.109	0.100	0.094	0.569	0.560	0.554	0.654	
WCDMA Band 4	Left Cheek	0.077	0.183	0.139	0.140	0.260	0.216	0.217	0.356	
	Left Tilt	0.225	0.162	0.190	0.192	0.387	0.415	0.417	0.607	
	Right Cheek	0.169	0.106	0.071	0.072	0.275	0.240	0.241	0.312	
	Right Tilt	0.472	0.109	0.100	0.094	0.581	0.572	0.566	0.666	
WCDMA Band 5	Left Cheek	0.137	0.183	0.139	0.140	0.320	0.276	0.277	0.416	
	Left Tilt	0.247	0.162	0.190	0.192	0.409	0.437	0.439	0.629	
	Right Cheek	0.229	0.106	0.071	0.072	0.335	0.300	0.301	0.372	
	Right Tilt	0.435	0.109	0.100	0.094	0.544	0.535	0.529	0.629	

Band	Test Position	Scaled SAR					WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	WWAN+ WIFI5G +BT Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	WIFI5G MAX SAR 1g(W/kg)	BT SAR 1g(W/kg)					
LTE Band 2 QPSK (20MHz)	Left Cheek	1RB	0.219	0.183	0.139	0.140	0.402	0.358	0.359	0.498	
	Left Tilt		0.315	0.162	0.190	0.192	0.477	0.505	0.507	0.697	
	Right Cheek		0.311	0.106	0.071	0.072	0.417	0.382	0.383	0.454	
	Right Tilt		0.448	0.109	0.100	0.094	0.557	0.548	0.542	0.642	
	Left Cheek	50%RB	0.164	0.183	0.139	0.140	0.347	0.303	0.304	0.443	
	Left Tilt		0.236	0.162	0.190	0.192	0.398	0.426	0.428	0.618	
	Right Cheek		0.228	0.106	0.071	0.072	0.334	0.299	0.300	0.371	
	Right Tilt		0.336	0.109	0.100	0.094	0.445	0.436	0.430	0.530	
LTE Band 4 QPSK (20MHz)	Left Cheek	1RB	0.113	0.183	0.139	0.140	0.296	0.252	0.253	0.392	
	Left Tilt		0.241	0.162	0.190	0.192	0.403	0.431	0.433	0.623	
	Right Cheek		0.191	0.106	0.071	0.072	0.297	0.262	0.263	0.334	
	Right Tilt		0.385	0.109	0.100	0.094	0.494	0.485	0.479	0.579	
	Left Cheek	50%RB	0.084	0.183	0.139	0.140	0.267	0.223	0.224	0.363	
	Left Tilt		0.181	0.162	0.190	0.192	0.343	0.371	0.373	0.563	
	Right Cheek		0.143	0.106	0.071	0.072	0.249	0.214	0.215	0.286	
	Right Tilt		0.289	0.109	0.100	0.094	0.398	0.389	0.383	0.483	
LTE Band 5 QPSK (10MHz)	Left Cheek	1RB	0.097	0.183	0.139	0.140	0.280	0.236	0.237	0.376	
	Left Tilt		0.151	0.162	0.190	0.192	0.313	0.341	0.343	0.533	
	Right Cheek		0.242	0.106	0.071	0.072	0.348	0.313	0.314	0.385	
	Right Tilt		0.378	0.109	0.100	0.094	0.487	0.478	0.472	0.572	
	Left Cheek	50%RB	0.073	0.183	0.139	0.140	0.256	0.212	0.213	0.352	
	Left Tilt		0.113	0.162	0.190	0.192	0.275	0.303	0.305	0.495	
	Right Cheek		0.181	0.106	0.071	0.072	0.287	0.252	0.253	0.324	
	Right Tilt		0.283	0.109	0.100	0.094	0.392	0.383	0.377	0.477	
LTE Band 7 QPSK (10MHz)	Left Cheek	1RB	0.240	0.183	0.139	0.140	0.423	0.379	0.380	0.519	1.6
	Left Tilt		0.438	0.162	0.190	0.192	0.600	0.628	0.630	0.820	
	Right Cheek		0.332	0.106	0.071	0.072	0.438	0.403	0.404	0.475	
	Right Tilt		0.501	0.109	0.100	0.094	0.610	0.601	0.595	0.695	
	Left Cheek	50%RB	0.180	0.183	0.139	0.140	0.363	0.319	0.320	0.459	
	Left Tilt		0.328	0.162	0.190	0.192	0.490	0.518	0.520	0.710	
	Right Cheek		0.249	0.106	0.071	0.072	0.355	0.320	0.321	0.392	
	Right Tilt		0.375	0.109	0.100	0.094	0.484	0.475	0.469	0.569	
LTE Band 12 QPSK (10MHz)	Left Cheek	1RB	0.039	0.183	0.139	0.140	0.222	0.178	0.179	0.318	
	Left Tilt		0.102	0.162	0.190	0.192	0.264	0.292	0.294	0.484	
	Right Cheek		0.193	0.106	0.071	0.072	0.299	0.264	0.265	0.336	
	Right Tilt		0.261	0.109	0.100	0.094	0.370	0.361	0.355	0.455	
	Left Cheek	50%RB	0.029	0.183	0.139	0.140	0.212	0.168	0.169	0.308	
	Left Tilt		0.076	0.162	0.190	0.192	0.238	0.266	0.268	0.458	
	Right Cheek		0.144	0.106	0.071	0.072	0.250	0.215	0.216	0.287	
	Right Tilt		0.195	0.109	0.100	0.094	0.304	0.295	0.289	0.389	
LTE Band 17 QPSK (10MHz)	Left Cheek	1RB	0.090	0.183	0.139	0.140	0.273	0.229	0.230	0.369	
	Left Tilt		0.109	0.162	0.190	0.192	0.271	0.299	0.301	0.491	
	Right Cheek		0.223	0.106	0.071	0.072	0.329	0.294	0.295	0.366	
	Right Tilt		0.271	0.109	0.100	0.094	0.380	0.371	0.365	0.465	
	Left Cheek	50%RB	0.067	0.183	0.139	0.140	0.250	0.206	0.207	0.346	
	Left Tilt		0.081	0.162	0.190	0.192	0.243	0.271	0.273	0.463	
	Right Cheek		0.166	0.106	0.071	0.072	0.272	0.237	0.238	0.309	
	Right Tilt		0.203	0.109	0.100	0.094	0.312	0.303	0.297	0.397	
LTE Band 38 QPSK (20MHz)	Left Cheek	1RB	0.353	0.183	0.139	0.140	0.536	0.492	0.493	0.632	
	Left Tilt		0.478	0.162	0.190	0.192	0.640	0.668	0.670	**0.860**	
	Right Cheek		0.468	0.106	0.071	0.072	0.574	0.539	0.540	0.611	
	Right Tilt		0.625	0.109	0.100	0.094	0.734	0.725	0.719	0.819	
	Left Cheek	50%RB	0.264	0.183	0.139	0.140	0.447	0.403	0.404	0.543	
	Left Tilt		0.358	0.162	0.190	0.192	0.520	0.548	0.550	0.740	
	Right Cheek		0.350	0.106	0.071	0.072	0.456	0.421	0.422	0.493	
	Right Tilt		0.468	0.109	0.100	0.094	0.577	0.568	0.562	0.662	

Band	Test Position	Scaled SAR					WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	WWAN+ WIFI5G +BT Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	WIFI5G MAX SAR 1g(W/kg)	BT SAR 1g(W/kg)					
LTE Band 41 QPSK (20MHz)	Left Cheek	1RB	0.104	0.183	0.139	0.140	0.287	0.243	0.244	0.383	1.6
	Left Tilt		0.205	0.162	0.190	0.192	0.367	0.395	0.397	0.587	
	Right Cheek		0.129	0.106	0.071	0.072	0.235	0.200	0.201	0.272	
	Right Tilt		0.285	0.109	0.100	0.094	0.394	0.385	0.379	0.479	
	Left Cheek	50%RB	0.077	0.183	0.139	0.140	0.260	0.216	0.217	0.356	
	Left Tilt		0.154	0.162	0.190	0.192	0.316	0.344	0.346	0.536	
	Right Cheek		0.096	0.106	0.071	0.072	0.202	0.167	0.168	0.239	
	Right Tilt		0.214	0.109	0.100	0.094	0.323	0.314	0.308	0.408	
LTE Band 66 QPSK (20MHz)	Left Cheek	1RB	0.185	0.183	0.139	0.140	0.368	0.324	0.325	0.464	
	Left Tilt		0.233	0.162	0.190	0.192	0.395	0.423	0.425	0.615	
	Right Cheek		0.372	0.106	0.071	0.072	0.478	0.443	0.444	0.515	
	Right Tilt		0.441	0.109	0.100	0.094	0.550	0.541	0.535	0.635	
	Left Cheek	50%RB	0.139	0.183	0.139	0.140	0.322	0.278	0.279	0.418	
	Left Tilt		0.174	0.162	0.190	0.192	0.336	0.364	0.366	0.556	
	Right Cheek		0.278	0.106	0.071	0.072	0.384	0.349	0.350	0.421	
	Right Tilt		0.330	0.109	0.100	0.094	0.439	0.430	0.424	0.524	

Hotspot(body-worn10mm)

Band	Test Position	Scaled SAR				WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN+BT Σ SAR (W/kg)	WWAN+ WIFI5G +BT Σ SAR (W/kg)	Llimit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	WIFI5G MAX SAR 1g(W/kg)	BT SAR 1g(W/kg)					
GSM850 (EGPRS 1slots)	Front	0.060	0.038	0.026	0.045	0.098	0.086	0.105	0.131	1.6
	Back	0.093	0.050	0.029	0.048	0.143	0.122	0.141	0.170	
	Left	0.097	0.015	0.007	0.009	0.112	0.104	0.106	0.113	
	Right	0.035	0.023	0.025	0.036	0.058	0.060	0.071	0.096	
	Top	0.058	0.043	0.056	0.035	0.101	0.114	0.093	0.149	
	Bottom	0.020	0.002	0.002	0.001	0.022	0.022	0.021	0.023	
GSM1900 (EGPRS 1slots)	Front	0.311	0.038	0.026	0.045	0.349	0.337	0.356	0.382	
	Back	0.512	0.050	0.029	0.048	0.562	0.541	0.560	0.589	
	Left	0.176	0.015	0.007	0.009	0.191	0.183	0.185	0.192	
	Right	0.046	0.023	0.025	0.036	0.069	0.071	0.082	0.107	
	Top	0.631	0.043	0.056	0.035	0.674	0.687	0.666	**0.722**	
	Bottom	0.021	0.002	0.002	0.001	0.023	0.023	0.022	0.024	
WCDMA Band 2	Front	0.073	0.038	0.026	0.045	0.111	0.099	0.118	0.144	
	Back	0.124	0.050	0.029	0.048	0.174	0.153	0.172	0.201	
	Left	0.042	0.015	0.007	0.009	0.057	0.049	0.051	0.058	
	Right	0.011	0.023	0.025	0.036	0.034	0.036	0.047	0.072	
	Top	0.146	0.043	0.056	0.035	0.189	0.202	0.181	0.237	
	Bottom	0.005	0.002	0.002	0.001	0.007	0.007	0.006	0.008	
WCDMA Band 4	Front	0.060	0.038	0.026	0.045	0.098	0.086	0.105	0.131	
	Back	0.100	0.050	0.029	0.048	0.150	0.129	0.148	0.177	
	Left	0.033	0.015	0.007	0.009	0.048	0.040	0.042	0.049	
	Right	0.009	0.023	0.025	0.036	0.032	0.034	0.045	0.070	
	Top	0.118	0.043	0.056	0.035	0.161	0.174	0.153	0.209	
	Bottom	0.003	0.002	0.002	0.001	0.005	0.005	0.004	0.006	
WCDMA Band 5	Front	0.121	0.038	0.026	0.045	0.159	0.147	0.166	0.192	
	Back	0.195	0.050	0.029	0.048	0.245	0.224	0.243	0.272	
	Left	0.042	0.015	0.007	0.009	0.057	0.049	0.051	0.058	
	Right	0.011	0.023	0.025	0.036	0.034	0.036	0.047	0.072	
	Top	0.099	0.043	0.056	0.035	0.142	0.155	0.134	0.190	
	Bottom	0.002	0.002	0.002	0.001	0.004	0.004	0.003	0.005	

Band	Test Position	RB allocation	Scaled SAR				WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	WWAN+ WIFI5G +BT Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	WIFI5G MAX SAR 1g(W/kg)	BT SAR 1g(W/kg)					
LTE Band 2	Front	1RB	0.132	0.038	0.026	0.045	0.170	0.158	0.177	0.203	1.6
	Back		0.138	0.050	0.029	0.048	0.188	0.167	0.186	0.215	
	Left		0.021	0.015	0.007	0.009	0.036	0.028	0.030	0.037	
	Right		0.010	0.023	0.025	0.036	0.033	0.035	0.046	0.071	
	Top		0.136	0.043	0.056	0.035	0.179	0.192	0.171	0.227	
	Bottom		0.001	0.002	0.002	0.001	0.003	0.003	0.002	0.004	
	Front	50%RB	0.098	0.038	0.026	0.045	0.136	0.124	0.143	0.169	
	Back		0.103	0.050	0.029	0.048	0.153	0.132	0.151	0.180	
	Left		0.015	0.015	0.007	0.009	0.030	0.022	0.024	0.031	
	Right		0.007	0.023	0.025	0.036	0.030	0.032	0.043	0.068	
	Top		0.101	0.043	0.056	0.035	0.144	0.157	0.136	0.192	
	Bottom		0.001	0.002	0.002	0.001	0.003	0.003	0.002	0.004	
LTE Band 4	Front	1RB	0.098	0.038	0.026	0.045	0.136	0.124	0.143	0.169	
	Back		0.112	0.050	0.029	0.048	0.162	0.141	0.160	0.189	
	Left		0.019	0.015	0.007	0.009	0.034	0.026	0.028	0.035	
	Right		0.010	0.023	0.025	0.036	0.033	0.035	0.046	0.071	
	Top		0.106	0.043	0.056	0.035	0.149	0.162	0.141	0.197	
	Bottom		0.001	0.002	0.002	0.001	0.003	0.003	0.002	0.004	
	Front	50%RB	0.073	0.038	0.026	0.045	0.111	0.099	0.118	0.144	
	Back		0.083	0.050	0.029	0.048	0.133	0.112	0.131	0.160	
	Left		0.013	0.015	0.007	0.009	0.028	0.020	0.022	0.029	
	Right		0.007	0.023	0.025	0.036	0.030	0.032	0.043	0.068	
	Top		0.079	0.043	0.056	0.035	0.122	0.135	0.114	0.170	
	Bottom		0.001	0.002	0.002	0.001	0.003	0.003	0.002	0.004	
LTE Band 5	Front	1RB	0.100	0.038	0.026	0.045	0.138	0.126	0.145	0.171	
	Back		0.165	0.050	0.029	0.048	0.215	0.194	0.213	0.242	
	Left		0.035	0.015	0.007	0.009	0.050	0.042	0.044	0.051	
	Right		0.009	0.023	0.025	0.036	0.032	0.034	0.045	0.070	
	Top		0.072	0.043	0.056	0.035	0.115	0.128	0.107	0.163	
	Bottom		0.001	0.002	0.002	0.001	0.003	0.003	0.002	0.004	
	Front	50%RB	0.075	0.038	0.026	0.045	0.113	0.101	0.120	0.146	
	Back		0.123	0.050	0.029	0.048	0.173	0.152	0.171	0.200	
	Left		0.026	0.015	0.007	0.009	0.041	0.033	0.035	0.042	
	Right		0.007	0.023	0.025	0.036	0.030	0.032	0.043	0.068	
	Top		0.053	0.043	0.056	0.035	0.096	0.109	0.088	0.144	
	Bottom		0.001	0.002	0.002	0.001	0.003	0.003	0.002	0.004	
LTE Band 7	Front	1RB	0.141	0.038	0.026	0.045	0.179	0.167	0.186	0.212	
	Back		0.170	0.050	0.029	0.048	0.220	0.199	0.218	0.247	
	Left		0.054	0.015	0.007	0.009	0.069	0.061	0.063	0.070	
	Right		0.019	0.023	0.025	0.036	0.042	0.044	0.055	0.080	
	Top		0.119	0.043	0.056	0.035	0.162	0.175	0.154	0.210	
	Bottom		0.011	0.002	0.002	0.001	0.013	0.013	0.012	0.014	
	Front	50%RB	0.105	0.038	0.026	0.045	0.143	0.131	0.150	0.176	
	Back		0.127	0.050	0.029	0.048	0.177	0.156	0.175	0.204	
	Left		0.040	0.015	0.007	0.009	0.055	0.047	0.049	0.056	
	Right		0.014	0.023	0.025	0.036	0.037	0.039	0.050	0.075	
	Top		0.089	0.043	0.056	0.035	0.132	0.145	0.124	0.180	
	Bottom		0.008	0.002	0.002	0.001	0.010	0.010	0.009	0.011	
LTE Band 12	Front	1RB	0.072	0.038	0.026	0.045	0.110	0.098	0.117	0.143	
	Back		0.117	0.050	0.029	0.048	0.167	0.146	0.165	0.194	
	Left		0.126	0.015	0.007	0.009	0.141	0.133	0.135	0.142	
	Right		0.044	0.023	0.025	0.036	0.067	0.069	0.080	0.105	
	Top		0.076	0.043	0.056	0.035	0.119	0.132	0.111	0.167	
	Bottom		0.026	0.002	0.002	0.001	0.028	0.028	0.027	0.029	
	Front	50%RB	0.054	0.038	0.026	0.045	0.092	0.080	0.099	0.125	
	Back		0.087	0.050	0.029	0.048	0.137	0.116	0.135	0.164	
	Left		0.094	0.015	0.007	0.009	0.109	0.101	0.103	0.110	
	Right		0.033	0.023	0.025	0.036	0.056	0.058	0.069	0.094	
	Top		0.057	0.043	0.056	0.035	0.100	0.113	0.092	0.148	
	Bottom		0.019	0.002	0.002	0.001	0.021	0.021	0.020	0.022	

Band	Test Position	RB allocation	Scaled SAR				WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ WIFI5G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	WWAN+ WIFI5G +BT Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	WIFI5G Band4 SAR 1g(W/kg)	BT SAR 1g(W/kg)					
LTE Band 17	Front	1RB	0.075	0.038	0.026	0.045	0.113	0.101	0.120	0.146	1.6
	Back		0.122	0.050	0.029	0.048	0.172	0.151	0.170	0.199	
	Left		0.132	0.015	0.007	0.009	0.147	0.139	0.141	0.148	
	Right		0.045	0.023	0.025	0.036	0.068	0.070	0.081	0.106	
	Top		0.080	0.043	0.056	0.035	0.123	0.136	0.115	0.171	
	Bottom		0.027	0.002	0.002	0.001	0.029	0.029	0.028	0.030	
	Front	50%RB	0.057	0.038	0.026	0.045	0.095	0.083	0.102	0.128	
	Back		0.091	0.050	0.029	0.048	0.141	0.120	0.139	0.168	
	Left		0.099	0.015	0.007	0.009	0.114	0.106	0.108	0.115	
	Right		0.033	0.023	0.025	0.036	0.056	0.058	0.069	0.094	
	Top		0.060	0.043	0.056	0.035	0.103	0.116	0.095	0.151	
	Bottom		0.020	0.002	0.002	0.001	0.022	0.022	0.021	0.023	
LTE Band 38	Front	1RB	0.142	0.038	0.026	0.045	0.180	0.168	0.187	0.213	
	Back		0.229	0.050	0.029	0.048	0.279	0.258	0.277	0.306	
	Left		0.079	0.015	0.007	0.009	0.094	0.086	0.088	0.095	
	Right		0.022	0.023	0.025	0.036	0.045	0.047	0.058	0.083	
	Top		0.276	0.043	0.056	0.035	0.319	0.332	0.311	0.367	
	Bottom		0.009	0.002	0.002	0.001	0.011	0.011	0.010	0.012	
	Front	50%RB	0.106	0.038	0.026	0.045	0.144	0.132	0.151	0.177	
	Back		0.172	0.050	0.029	0.048	0.222	0.201	0.220	0.249	
	Left		0.058	0.015	0.007	0.009	0.073	0.065	0.067	0.074	
	Right		0.016	0.023	0.025	0.036	0.039	0.041	0.052	0.077	
	Top		0.207	0.043	0.056	0.035	0.250	0.263	0.242	0.298	
	Bottom		0.006	0.002	0.002	0.001	0.008	0.008	0.007	0.009	
LTE Band 41	Front	1RB	0.075	0.038	0.026	0.045	0.113	0.101	0.120	0.146	
	Back		0.130	0.050	0.029	0.048	0.180	0.159	0.178	0.207	
	Left		0.042	0.015	0.007	0.009	0.057	0.049	0.051	0.058	
	Right		0.012	0.023	0.025	0.036	0.035	0.037	0.048	0.073	
	Top		0.151	0.043	0.056	0.035	0.194	0.207	0.186	0.242	
	Bottom		0.004	0.002	0.002	0.001	0.006	0.006	0.005	0.007	
	Front	50%RB	0.057	0.038	0.026	0.045	0.095	0.083	0.102	0.128	
	Back		0.097	0.050	0.029	0.048	0.147	0.126	0.145	0.174	
	Left		0.031	0.015	0.007	0.009	0.046	0.038	0.040	0.047	
	Right		0.008	0.023	0.025	0.036	0.031	0.033	0.044	0.069	
	Top		0.113	0.043	0.056	0.035	0.156	0.169	0.148	0.204	
	Bottom		0.003	0.002	0.002	0.001	0.005	0.005	0.004	0.006	
LTE Band 66	Front	1RB	0.080	0.038	0.026	0.045	0.118	0.106	0.125	0.151	
	Back		0.097	0.050	0.029	0.048	0.147	0.126	0.145	0.174	
	Left		0.025	0.015	0.007	0.009	0.040	0.032	0.034	0.041	
	Right		0.006	0.023	0.025	0.036	0.029	0.031	0.042	0.067	
	Top		0.089	0.043	0.056	0.035	0.132	0.145	0.124	0.180	
	Bottom		0.003	0.002	0.002	0.001	0.005	0.005	0.004	0.006	
	Front	50%RB	0.059	0.038	0.026	0.045	0.097	0.085	0.104	0.130	
	Back		0.072	0.050	0.029	0.048	0.122	0.101	0.120	0.149	
	Left		0.019	0.015	0.007	0.009	0.034	0.026	0.028	0.035	
	Right		0.004	0.023	0.025	0.036	0.027	0.029	0.040	0.065	
	Top		0.066	0.043	0.056	0.035	0.109	0.122	0.101	0.157	
	Bottom		0.002	0.002	0.002	0.001	0.004	0.004	0.003	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	7951	2025-09-10	2026-09-09
☒	SPEAG	Validation Kits	D750V3	1151	2024-08-19	2027-08-18
☒	SPEAG	Validation Kits	D835V2	4d203	2024-08-20	2027-08-19
☒	SPEAG	Validation Kits	D1750V2	1143	2024-08-20	2027-08-19
☒	SPEAG	Validation Kits	D1900V2	5d211	2024-08-19	2027-08-18
☒	SPEAG	Validation Kits	D2450V2	1099	2026-03-05	2029-03-04
☒	SPEAG	Validation Sources	D2550V2	1015	2024-08-16	2027-08-15
☒	SPEAG	Validation Kits	D2600V2	1094	2026-03-04	2029-03-03
☐	SPEAG	Validation Sources	D3500V2	1164	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D3700V2	1139	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D3900V2	1106	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D4600V2	1097	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D4900V2	1093	2024-10-08	2027-10-07
☒	SPEAG	Validation Sources	D5GHzV2	1412	2024-10-17	2027-10-16
☐	SPEAG	Validation Sources	D6.5GHzV2	1116	2024-10-14	2027-10-13
☒	SPEAG	DAE	DAE4ip	1921	2025-09-04	2026-09-03
☒	R & S	Universal Radio Communication Tester	CMU 200	119733	2025-11-27	2026-11-26
☒	R & S	Universal Radio Communication Tester	CMW500	144459	2025-11-27	2026-11-26
☒	R & S	UXM5G Wireless Test Platform	E7515B	MY60192341	2025-11-27	2026-11-26
☒	HP	Network Analyser	8753D	3410A08889	2025-11-27	2026-11-26
☒	HP	Signal Generator	E4421B	GB39340770	2025-11-27	2026-11-26
☒	Keithley	Multimeter	Keithley 2000	4014539	2025-11-27	2026-11-26
☒	SATIMO	Amplifier	Power Amplifier	MODU-023-A-0004	2025-11-27	2026-11-26
☒	Agilent	Power Meter	E4418B	GB43312909	2025-11-27	2026-11-26
☒	Agilent	Power Meter Sensor	E4412A	MY41500046	2025-11-27	2026-11-26

Annex A:System Check

(Please See the SAR Measurement Plots of annex A.)

Annex B:Measurement Results

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

Annex C:Calibration Reports

(Please See the Calibration reports of annex C.)

Annex D: Test Photographs

(Please see SAR test setup photos.)