

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: KO5

Test Engineer: Jiang Xuling *Jiang Xuling*

Report Number: WSCT-ANAB-R&E260200022A-SAR

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FCC ID: 2ADYY-KO5

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Modified History

REV.	Modification Description	Issued Date	Remark
REV.1.0	Initial Test Report Release	31 March 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: 2026-01-29
Start of test: 2026-01-30
End of test: 2026-03-31

1.3 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for KO5 is as below:

Band	Position Test Points	MAX Reported SAR _{1g} (W/kg)
GSM850	Head	0.598
GSM1900	Head	0.598
UMTS Band 2	Head	0.524
UMTS Band 4	Head	1.139
UMTS Band 5	Head	0.413
LTE Band 2	Head	0.053
LTE Band 2(ANT2)	Head	0.586
LTE Band 4	Head	0.066
LTE Band 4(ANT2)	Head	0.555
LTE Band 5	Head	0.143
LTE Band 5(ANT2)	Head	0.962
LTE Band 7	Head	0.122
LTE Band 7(ANT2)	Head	0.911
LTE Band 12	Head	0.072
LTE Band 12(ANT2)	Head	0.355
LTE Band 17	Head	0.072
LTE Band 17(ANT2)	Head	0.330
LTE Band 38	Head	0.040
LTE Band 38(ANT2)	Head	0.452
LTE Band 41	Head	0.060
LTE Band 41(ANT2)	Head	0.533
LTE Band 66	Head	0.092
LTE Band 66(ANT2)	Head	0.599
BT	Head	0.267
Wi-Fi 2.4G	Head	0.126
WIFI5G Band1	Head	0.118
WIFI5G Band2	Head	0.115
WIFI5G Band3	Head	0.311
WIFI5G Band4	Head	0.308

Band	Position Test Points	MAX Reported SAR _{1g} (W/kg)
GSM850	Body & Hotspot 10mm	0.212
GSM850(ANT0)	Body & Hotspot 10mm	0.336
GSM1900	Body & Hotspot 10mm	0.671
GSM1900(ANT0)	Body & Hotspot 10mm	0.181
UMTS Band 2	Body & Hotspot 10mm	0.102
UMTS Band 2(ANT0)	Body & Hotspot 10mm	0.348
UMTS Band 4	Body & Hotspot 10mm	0.295
UMTS Band 4(ANT0)	Body & Hotspot 10mm	0.819
UMTS Band 5	Body & Hotspot 10mm	0.200
UMTS Band 5(ANT0)	Body & Hotspot 10mm	0.384
LTE Band 2	Body & Hotspot 10mm	0.362
LTE Band 2(ANT2)	Body & Hotspot 10mm	0.128
LTE Band 4	Body & Hotspot 10mm	0.768
LTE Band 4(ANT2)	Body & Hotspot 10mm	0.237
LTE Band 5	Body & Hotspot 10mm	0.430
LTE Band 5(ANT2)	Body & Hotspot 10mm	0.185
LTE Band 7	Body & Hotspot 10mm	0.781
LTE Band 7(ANT2)	Body & Hotspot 10mm	0.471
LTE Band 12	Body & Hotspot 10mm	0.380
LTE Band 12(ANT2)	Body & Hotspot 10mm	0.056
LTE Band 17	Body & Hotspot 10mm	0.168
LTE Band 17(ANT2)	Body & Hotspot 10mm	0.055
LTE Band 38	Body & Hotspot 10mm	0.262
LTE Band 38(ANT2)	Body & Hotspot 10mm	0.127
LTE Band 41	Body & Hotspot 10mm	0.286
LTE Band 41(ANT2)	Body & Hotspot 10mm	0.148
LTE Band 66	Body & Hotspot 10mm	0.551
LTE Band 66(ANT2)	Body & Hotspot 10mm	0.243
BT	Body & Hotspot 10mm	0.210
Wi-Fi 2.4G	Body & Hotspot 10mm	0.035
WIFI5G Band1	Body & Hotspot 10mm	0.028
WIFI5G Band2	Body & Hotspot 10mm	0.024
WIFI5G Band3	Body & Hotspot 10mm	0.370
WIFI5G Band4	Body & Hotspot 10mm	0.486
Maximum Max. SAR Level(s) Measured: (Limit: 1.6W/Kg):	UMTS Band 4	1.139 W/kg1gHeadTissue
	WIFI5G Band3	0.311 W/kg1gHeadTissue
	UMTS Band 4(ANT0)	0.819 W/kg1gBodyTissue
	WIFI5G Band4	0.486 W/kg1gBodyTissue
The Head highest simultaneous SAR :		1.450 W/kg1gHeadTissue
The Body highest simultaneous SAR :		1.305 W/kg1gBodyTissue

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

1.4 EUT Information

Device Information:				
Product Type:		Mobile Phone		
Model:		KO5		
Trade Name:		TECNO		
Software number:		KO5-SQ375		
Hardware number:		V1.2		
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		
Modulation:		GSM/GPRS: GMSK,EGPRS: 8PSK,WCDMA: QPSK HSDPA/HSUPA: QPSK /16QAM,LTE: QPSK/16QAM		
Device Class :		Class B, No DTM Mode		
Operating Frequency Range(s)		Band	TX(MHz)	RX(MHz)
		GSM850	824~849	869~894
		GSM1900	1850~1910	1930~1990
		UMTS Band 2	1850~1910	1930~1990
		UMTS Band 4	1710~1755	2110~2155
		UMTS Band 5	824~849	869~894
		LTE Band 2	1850~1910	1930~1990
		LTE Band 4	1710~1755	2110~2155
		LTE Band 5	824~849	869~894
		LTE Band 7	2500~2570	2620~2690
		LTE Band 12	699~716	729~746
		LTE Band 17	704~716	734~746
		LTE Band 38	2570~2620	2570~2620
		LTE Band 41	2535~2655	2535~2655
		LTE Band 42	3450~3550	3450~3550
		LTE Band 66	1710~1780	2110~2200
		Wi-Fi (2.4G)	2412~2462	
		Wi-Fi (5G)	5180~5240	5180~5240
			5260~5320	5260~5320
			5500~5700	5500~5700
5745~5825	5745~5825			
BT	2402~2480			

Antenna gain:	GSM 850/WCDMA B5/LTE B5: -5.61dbi PCS 1900/WCDMA B2/LTE B2: -2.17dbi WCDMA B4/LTE B4/B66: -0.93dbi LTE B7/B38/ B41: 1.28dbi LTE B12/B17: -6.9dbi
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:	Rechargeable Li-ion Polymer Battery Model: BL-54DT Rated Voltage: 3.92V Rated Capacity: 5430mAh/21.29Wh Typical Capacity: 5600mAh/21.96Wh Limited Charge Voltage: 4.53V

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)

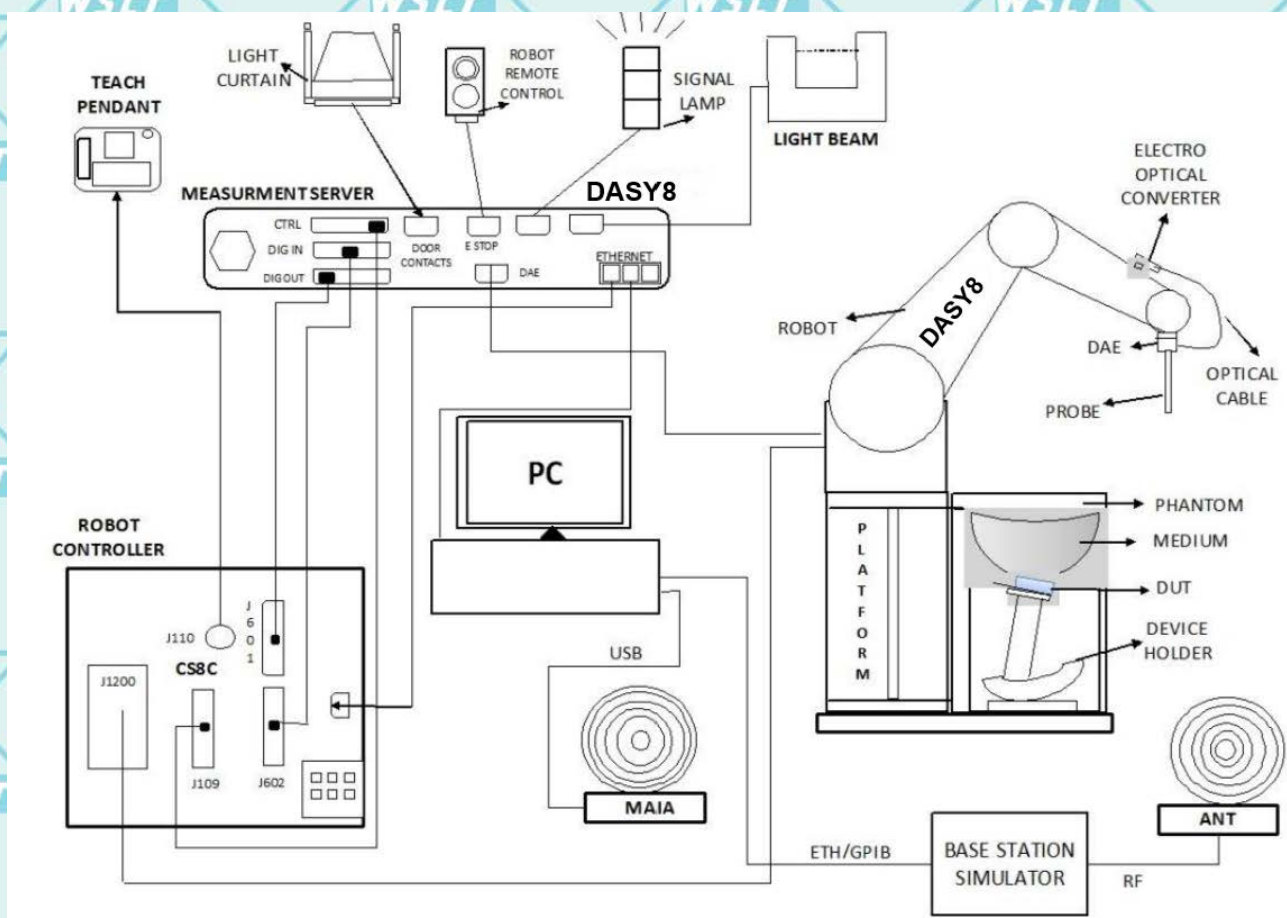
ρ = mass density of the tissue (kg/m³)

E = rms electric field strength (V/m)

7 SAR Measurement System

7.1 The Measurement System

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



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

7.2 Robot

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

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



7.3 Probe

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

For the measurements the Specific Dosimetric E-Field Probe EX3DV4-SN:7895&7391 with following specifications is used



Frequency: 4MHz – 10GHz ;

Linearity: $\pm 0.2\text{dB}$ (30MHz – 10GHz)

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

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

Directivity (typical): $\pm 0.1\text{ dB}$ in TSL (rotation around probe axis)
 $\pm 0.3\text{ dB}$ in TSL (rotation normal to probe axis)

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

7.4 DAE

DAE4ip– Data Acquisition Electronics 4 with Integrated Power

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

Performance:

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



7.5 Phantom

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



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

7.6 Device Holder

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

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



Device holder

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

7.7 SAR Scan General Requirement

According to kdb865664 D01 v01r04:

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

		≤ 3 GHz	>3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 mm $\pm$ 1 mm	$\frac{1}{2}\delta\ln(2)$ mm $\pm$ 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan 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
Maximum zoom scan spatial resolution: Δx Zoom, Δy Zoom		≤ 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 Δz Zoom (1): between 1 st two points closest to phantom surface	≤ 4 mm	3-4 GHz: ≤ 3 mm 4-5 GHz: ≤ 2.5 mm 5-6 GHz: ≤ 2 mm
	Δz Zoom (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z$ Zoom (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:

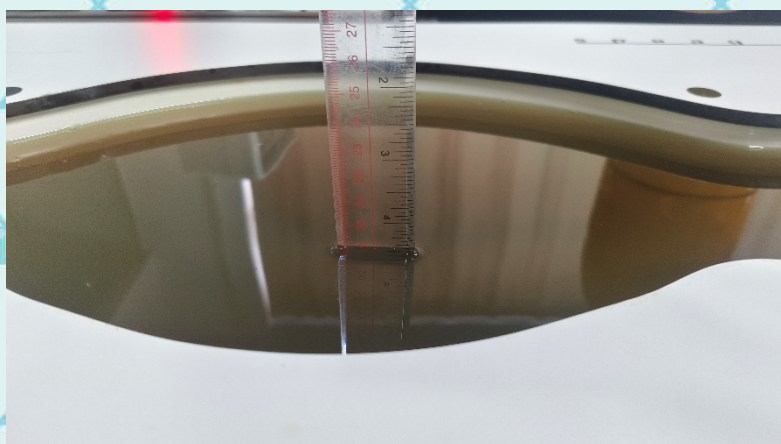
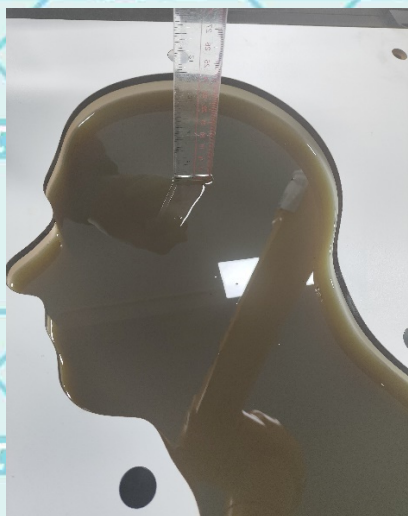
All antennas and radiating structures that may contribute to the measured SAR or influence the SAR distribution must be included in the area scan. The areas of the transmitter(s), antenna(s) and host device, when projected onto the phantom, must be within the area scan measurement region. The area scan 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 boundaries; otherwise, the measurement must be repeated by shifting or expanding the zoom scan volume. The similar requirements also apply to 10-g SAR measurements.

7.9 Tissue simulating liquids: dielectric properties

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



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

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

7.10 Tissue simulating liquids: parameters

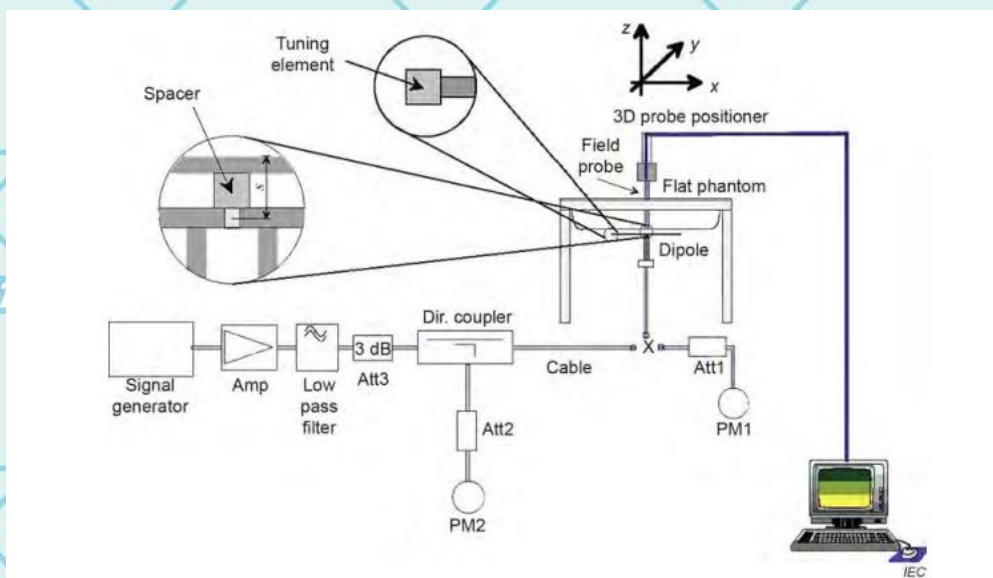
Used Target Frequency	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
	ϵ_r (+/-5%)	σ (S/m) (+/-5%)	ϵ_r	σ (S/m)		
750MHz Head	41.90 (39.805~43.995)	0.89 (0.85~0.93)	43.90	0.885	21.6°C	2026-03-02
835MHz Head	41.50 (39.425~43.575)	0.90 (0.86~0.95)	41.60	0.914	21.6°C	2026-03-05
1750MHz Head	40.10 (38.10~42.10)	1.37 (1.31~1.43)	41.90	1.34	21.6°C	2026-03-09
1900MHz Head	40.00 (38.00~42.00)	1.40 (1.33~1.47)	41.70	1.44	21.6°C	2026-03-12
2450MHz Head	39.20 (37.24~41.16)	1.80 (1.71~1.89)	41.00	1.82	21.6°C	2026-03-16
2550MHz Head	39.10 (37.15~41.05)	1.91 (1.82~2.01)	40.80	1.90	21.6°C	2026-03-19
2600MHz Head	39.00 (37.05~40.95)	1.96 (1.86~2.05)	40.70	1.94	21.6°C	2026-03-23
5200MHz Head	36.00 (34.20~37.80)	4.66 (4.43~4.89)	36.30	4.54	21.6°C	2026-03-28
5500MHz Head	35.60 (33.82~37.38)	4.96 (4.71~5.20)	35.80	4.88	21.6°C	2026-03-29
5800MHz Head	35.30 (33.54~37.06)	5.27 (5.01~5.53)	35.30	5.23	21.6°C	2026-03-30
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	2026-03-02
D835V2 Body	9.68 (8.72~10.64)	6.44 (5.80~7.08)	9.94	6.55	21.6°C	2026-03-05
D1750V2 Body	36.40 (32.76~40.04)	19.60 (17.64~21.56)	36.20	19.50	21.6°C	2026-03-09
D1900V2 Body	39.70 (35.73~43.67)	21.00 (18.90~23.10)	40.40	21.10	21.6°C	2026-03-12
D2450V2 Body	52.70 (47.16~57.64)	24.00 (21.60~26.40)	53.60	25.20	21.6°C	2026-03-16
D2550V2 Body	54.10 (48.69~59.51)	24.70 (22.23~27.17)	55.80	25.60	21.6°C	2026-03-19
D2600V2 Body	55.90 (49.77~60.83)	24.60 (22.14~27.06)	55.90	25.60	21.6°C	2026-03-23
D5200V2 Body	76.00 (68.40~83.60)	22.00 (19.80~24.20)	71.70	20.70	21.6°C	2026-03-28
D5300V2 Body	80.60 (72.54~88.66)	23.30 (20.97~25.63)	80.80	23.10	21.6°C	2026-03-28
D5500V2 Body	85.60 (77.04~94.16)	24.50 (22.05~26.95)	79.00	22.50	21.6°C	2026-03-29
D5600V2 Body	83.30 (74.97~91.63)	24.10 (21.69~26.51)	78.70	22.40	21.6°C	2026-03-29
D5800V2 Body	79.00 (71.10~86.90)	22.70 (20.43~24.97)	77.60	22.00	21.6°C	2026-03-30

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

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

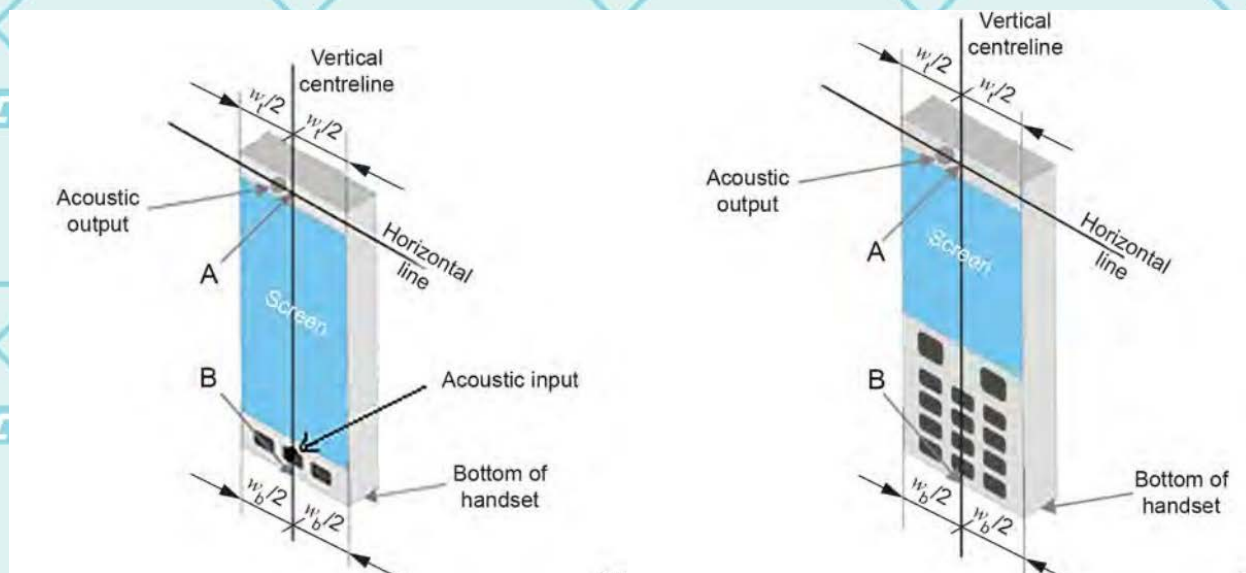
9 Test Position Configurations

9.1 Head Exposure Conditions

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

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

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



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

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

w_b Width of the bottom of the DUT

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

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

Cheek position:

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



Tilt position:

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

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

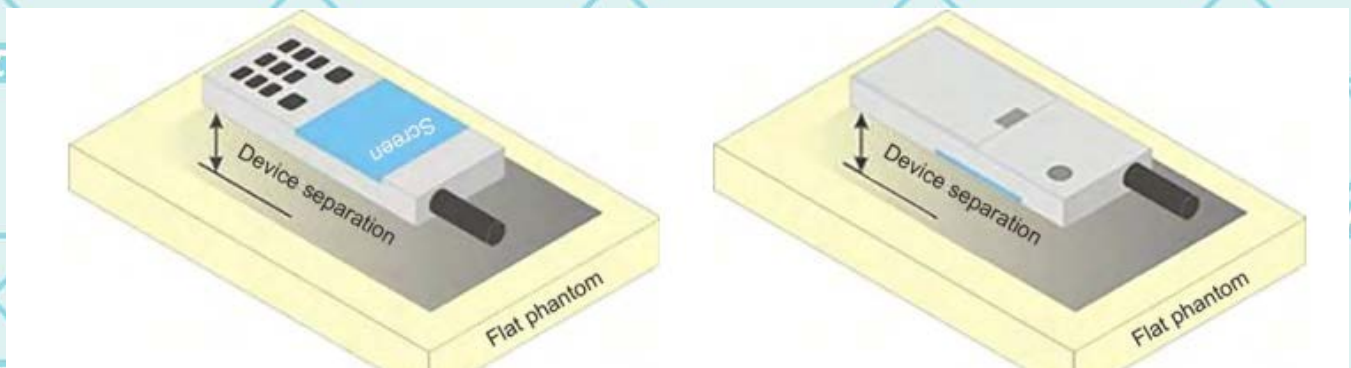


9.2 Body Exposure Condition

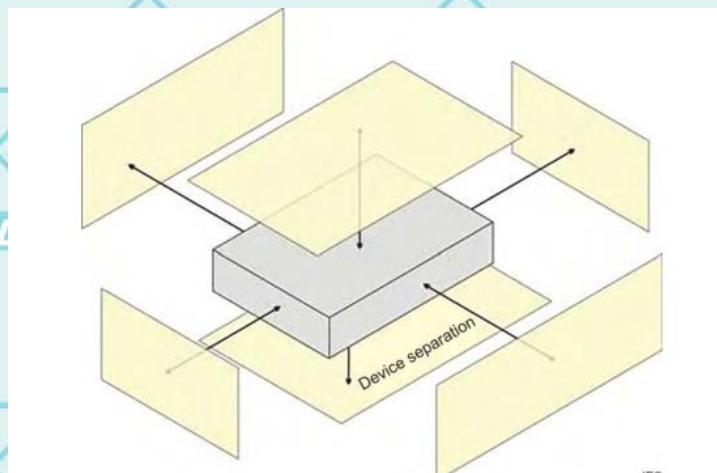
According to 447498 D04

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

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



Test positions for body-worn devices



Possible test positions for a generic device

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

10 SAR Test Configuration

10.1 GSM Test Configurations

SAR tests for GSM850 and GSM1900, a communication link is set up with a base station by air link. Using CMU200 the power level is set to “5” and “0” in SAR of GSM850 and GSM1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5.

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

10.2 UMTS Test Configuration

1) Output Power Verification

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

2) WCDMA

a. Head SAR Measurements

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

b. Body SAR Measurements

SAR for body-worn accessory configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1”s. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the Headset with 12.2 kbps RMC as the primary mode

3) HSDPA

SAR for body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in

the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

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

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

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

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

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

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

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

4)HSUPA

SAR for body exposure configurations is measured according to the “Body SAR Measurements” procedures of 3G device. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

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

10.3 LTE Test Configuration

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

1) Spectrum Plots for RB configurations

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

2) MPR

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

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

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

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
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 $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

B) Other channel bandwidth standalone SAR test requirements

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

5) TDD LTE test configuration

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

10.4 Wi-Fi Test Configuration

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

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

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

Notes:

√ = "default test channels"

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

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

802.11 Test Channels per FCC Requirements

10.5 WiFi 2.4G SAR Test Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions.

A) 802.11b DSSS SAR Test Requirements

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

- 1) When the reported SAR of the highest measured maximum output power channel (section 3.1 of of KDB 248227D01v02) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

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

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3 of of KDB 248227D01v02r01). SAR is not required for the following 2.4 GHz OFDM conditions.

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

C) SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.

11 Detailed Test Results

11.1 Conducted Power measurements

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

11.1.1 Conducted Power of GSM

Mode: GSM850		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH128	CH190	CH251		CH128	CH190	CH251
			824.2MHz	836.6MHz	848.8MHz		824.2MHz	836.6MHz	848.8MHz
GSM(CS)		36.00	35.19	35.71	35.96	-9.03	26.16	26.68	26.93
GPRS (GMSK)	1Tx slot	36.00	35.26	35.75	35.99	-9.03	26.23	26.72	26.96
	2Tx slots	35.50	34.22	34.77	35.03	-6.02	28.20	28.75	29.01
	3Tx slots	33.00	32.07	32.62	32.85	-4.26	27.81	28.36	28.59
	4Tx slots	32.00	30.72	31.35	31.56	-3.01	27.71	28.34	28.55
EGPRS (8PSK)	1Tx slot	34.50	34.14	34.12	34.11	-9.03	25.11	25.09	25.08
	2Tx slots	34.50	34.06	33.95	33.94	-6.02	28.04	27.93	27.92
	3Tx slots	34.00	33.89	33.78	33.76	-4.26	29.63	29.52	29.50
	4Tx slots	34.00	33.85	33.55	33.42	-3.01	30.84	30.54	30.41
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)		33.00	32.44	32.69	32.81	-9.03	23.41	23.66	23.78
GPRS (GMSK)	1Tx slot	33.00	32.41	32.67	32.80	-9.03	23.38	23.64	23.77
	2Tx slots	32.00	31.41	31.68	31.86	-6.02	25.39	25.66	25.84
	3Tx slots	30.00	29.16	29.48	29.73	-4.26	24.90	25.22	25.47
	4Tx slots	28.50	27.9	28.17	28.42	-3.01	24.89	25.16	25.41
EGPRS (8PSK)	1Tx slot	29.50	28.84	29.30	29.21	-9.03	19.81	20.27	20.18
	2Tx slots	29.00	28.65	28.66	28.79	-6.02	22.63	22.64	22.77
	3Tx slots	28.50	27.88	28.10	27.97	-4.26	23.62	23.84	23.71
	4Tx slots	27.50	27.36	27.36	27.32	-3.01	24.35	24.35	24.31

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		25.00	24.64	24.75	24.55
HSDPA	Subtest-1	25.00	24.65	23.34	21.97
	Subtest-2	25.00	21.51	24.80	23.38
	Subtest-3	25.00	21.83	21.82	24.59
	Subtest-4	23.50	23.23	21.73	21.38
HSUPA	Subtest-1	23.50	23.13	22.77	22.52
	Subtest-2	23.00	22.63	22.77	22.52
	Subtest-3	24.00	23.63	23.76	23.53
	Subtest-4	22.50	22.17	22.29	22.07
	Subtest-5	24.00	23.59	23.73	23.50
Mode		Maximum Tune-up(dBm)	WCDMA Band 4		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
			1712.4	1732.6	1752.6
RMC 12.2K		25.00	24.81	24.94	24.60
HSDPA	Subtest-1	25.00	24.90	23.39	22.17
	Subtest-2	25.50	21.56	25.02	23.64
	Subtest-3	25.00	22.06	21.83	24.68
	Subtest-4	23.50	23.18	21.92	21.56
HSUPA	Subtest-1	23.00	22.88	23.00	22.68
	Subtest-2	23.00	22.86	22.96	22.67
	Subtest-3	24.00	23.89	24.00	23.66
	Subtest-4	23.00	22.42	22.53	22.18
	Subtest-5	24.00	23.85	23.97	23.62
Mode		Maximum Tune-up(dBm)	WCDMA Band 5		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
			826.4	836.6	846.6
RMC 12.2K		25.50	25.27	25.15	25.08
HSDPA	Subtest-1	25.50	25.35	23.93	22.76
	Subtest-2	25.50	22.32	25.24	23.51
	Subtest-3	25.50	22.61	22.04	25.11
	Subtest-4	24.00	24.00	22.13	21.80
HSUPA	Subtest-1	23.50	23.30	23.20	23.11
	Subtest-2	23.50	23.33	23.20	23.10
	Subtest-3	24.50	24.35	24.22	24.12
	Subtest-4	23.00	22.85	22.75	22.62
	Subtest-5	24.50	24.34	24.22	24.14
Per KDB 941225 D01, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/2$ dB higher than the primary mode (RMC12.2kbps) or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.					

11.1.3 Conducted Power of LTE Band 2

LTE-FDD Band 2				Maximum Tune- up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		18607	18900	19193	
					1850.7MHz	1880.0MHz	1909.3MHz	
1.4MHz	QPSK	1	0	21.00	20.77	20.63	20.59	
			2	21.00	20.93	20.65	20.74	
			5	21.00	20.79	20.59	20.55	
		3	0	21.00	20.90	20.82	20.66	
			2	21.00	20.87	20.83	20.66	
			3	21.00	20.92	20.84	20.71	
	16QAM	6	0	20.00	19.90	19.95	19.84	
			0	20.00	19.88	19.94	19.97	
			2	20.50	19.91	20.03	20.02	
		3	5	20.00	19.91	19.95	19.98	
			0	20.50	20.22	20.12	20.04	
			2	20.50	20.22	20.07	20.01	
6	3	20.50	20.22	20.10	19.99			
	0	19.50	19.23	19.15	19.06			
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	18615	18900	19185
1851.5MHz						1880.0MHz	1908.5MHz	
3MHz	QPSK	1	0	21.00	20.80	20.80	20.67	
			7	21.00	20.68	20.75	20.61	
			14	21.00	20.72	20.74	20.74	
		8	0	20.00	20.00	19.94	19.88	
			4	20.50	20.07	20.03	19.95	
			7	20.50	20.03	19.99	19.84	
	16QAM	15	0	20.00	19.98	19.96	19.89	
			0	20.50	20.39	20.16	19.60	
			7	20.50	20.35	20.03	19.57	
		1	14	20.50	20.39	20.04	19.62	
			0	19.50	19.02	18.94	18.81	
			8	4	19.50	19.04	19.05	18.87
7	19.00	19.00	18.92	18.83				
	15	0	19.00	18.98	18.91	18.87		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	18625	18900	19175
1852.5MHz						1880.0MHz	1907.5MHz	
5MHz	QPSK	1	0	21.50	21.19	21.09	20.96	
			13	21.00	20.98	20.92	20.86	
			24	21.50	21.17	21.10	20.93	
		12	0	20.50	20.09	20.08	19.98	
			6	20.50	20.17	20.08	20.01	
			13	20.50	20.14	20.08	19.92	
	16QAM	25	0	20.50	20.08	20.04	19.96	
			0	21.00	20.95	20.61	20.47	
			13	21.00	20.84	20.45	20.29	
		1	24	21.00	20.93	20.63	20.46	
			12	0	19.50	19.09	19.00	18.98
				6	19.50	19.14	19.01	19.00
13	19.50	19.12		18.97	18.88			
25	0	19.50	19.03	19.10	18.89			

LTE-FDD Band 2				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18650 1855.0MHz	18900 1880.0MHz	19150 1905.0MHz
10MHz	QPSK	1	0	21.50	21.20	21.25	21.11
			25	21.50	21.10	21.12	21.04
			49	21.50	21.13	21.11	21.04
		25	0	20.50	20.07	20.07	19.94
			13	20.50	20.19	20.10	20.01
			25	20.50	20.12	20.06	19.91
	16QAM	50	0	20.50	20.11	20.05	19.92
			0	21.00	20.76	20.49	20.03
			25	21.00	20.69	20.42	19.96
		1	49	21.00	20.72	20.42	19.96
			0	19.50	19.07	19.01	18.94
			13	19.50	19.16	19.10	18.98
		25	25	19.50	19.11	19.07	18.87
			0	19.50	19.08	19.09	18.90
			0	19.50	19.08	19.09	18.90
15MHz	QPSK	1	0	21.50	21.18	21.24	21.07
			38	21.50	21.16	21.19	21.07
			74	21.50	21.13	21.17	21.05
		36	0	20.50	20.16	20.14	20.04
			18	20.50	20.15	20.16	20.05
			39	20.50	20.15	20.13	20.01
	16QAM	75	0	20.50	20.16	20.17	20.03
			0	21.00	20.73	20.47	20.23
			38	21.00	20.71	20.41	20.17
		1	74	21.00	20.69	20.38	20.12
			0	19.50	19.16	19.19	18.96
			18	19.50	19.16	19.19	19.01
		36	39	19.50	19.14	19.17	18.93
			0	19.50	19.12	19.14	19.05
			0	19.50	19.12	19.14	19.05
20MHz	QPSK	1	0	21.50	21.12	21.22	21.14
			50	21.50	21.11	21.22	21.13
			99	21.50	21.05	21.14	21.05
		50	0	20.50	20.11	20.07	20.05
			25	20.50	20.14	20.16	20.05
			50	20.50	20.18	20.14	19.93
	16QAM	100	0	20.50	20.11	20.05	20.01
			0	21.00	20.61	20.52	20.54
			50	21.00	20.58	20.55	20.48
		1	99	21.00	20.55	20.44	20.38
			0	19.50	19.10	19.07	19.05
			25	19.50	19.15	19.15	19.09
		50	50	19.50	19.17	19.12	18.96
			0	19.50	19.10	19.08	18.98
			0	19.50	19.10	19.08	18.98

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	21.00	20.90	20.75	20.84
			2	21.50	21.02	20.73	21.02
			5	21.00	20.92	20.74	20.78
		3	0	21.50	21.05	20.98	20.96
			2	21.50	21.04	20.96	20.94
			3	21.50	21.05	21.00	20.97
	16QAM	6	0	20.50	20.12	20.14	20.16
			0	20.50	19.98	20.04	20.22
			2	20.50	19.98	20.14	20.26
		3	5	20.50	20.03	20.02	20.26
			0	20.50	20.31	20.24	20.32
			2	20.50	20.31	20.19	20.28
3MHz	QPSK	1	3	20.50	20.33	20.23	20.31
			0	19.50	19.37	19.25	19.31
			8	0	21.00	20.88	20.92
		7		21.00	20.81	20.85	20.94
		14		21.00	20.86	20.86	21.00
		16QAM	15	0	20.50	20.18	20.14
	4			20.50	20.28	20.19	20.27
	7			20.50	20.21	20.17	20.19
	1		0	20.50	20.16	20.09	20.19
			0	20.50	20.46	20.27	19.87
			7	20.50	20.38	20.15	19.88
	5MHz	QPSK	1	14	21.00	20.52	20.16
0				19.50	19.18	19.10	19.14
4				19.50	19.20	19.20	19.20
12			7	19.50	19.15	19.05	19.15
			0	19.50	19.09	19.06	19.19
			16QAM	25	0	19.50	19.975
0		21.50			21.31	21.27	21.22
13		21.50			21.09	21.04	21.07
1		24		21.50	21.32	21.25	21.13
		0		20.50	20.26	20.23	20.23
		6		20.50	20.32	20.28	20.32
10MHz		QPSK	12	13	20.50	20.26	20.23
	0			20.50	20.23	20.13	20.27
	0			21.00	20.99	20.78	20.67
	25		13	21.00	20.94	20.59	20.56
			24	21.00	20.97	20.71	20.76
			16QAM	12	0	19.50	19.14
	6	19.50			19.26	19.15	19.31
	13	19.50			19.21	19.12	19.23
	25	0		19.50	19.15	19.20	19.17

LTE-FDD Band 4				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20000 1715.0MHz	20175 1732.5MHz	20350 1750.0MHz
10MHz	QPSK	1	0	21.50	21.37	21.19	21.47
			25	21.50	21.35	21.16	21.36
			49	21.50	21.39	21.17	21.37
		25	0	20.50	20.29	20.17	20.33
			13	20.50	20.33	20.30	20.34
			25	20.50	20.36	20.07	20.31
	16QAM	50	0	20.50	20.26	20.18	20.29
			0	21.00	20.72	20.66	20.30
			25	21.00	20.80	20.55	20.23
		1	49	21.00	20.72	20.58	20.29
			0	19.50	19.21	19.12	19.33
			13	19.50	19.19	19.15	19.36
15MHz	QPSK	25	25	19.50	19.31	19.18	19.29
			0	19.50	19.13	19.18	19.23
			0	19.50	19.13	19.18	19.23
	16QAM	50	0	19.50	19.13	19.18	19.23
			0	21.00	20.72	20.66	20.30
			25	21.00	20.80	20.55	20.23
20MHz	QPSK	1	49	21.00	20.72	20.58	20.29
			0	19.50	19.21	19.12	19.33
			13	19.50	19.19	19.15	19.36
	16QAM	25	25	19.50	19.31	19.18	19.29
			0	19.50	19.13	19.18	19.23
			0	19.50	19.13	19.18	19.23
25MHz	QPSK	1	0	21.50	21.31	21.32	21.32
			38	21.50	21.35	21.27	21.33
			74	21.50	21.28	21.24	21.32
	16QAM	36	0	20.50	20.40	20.34	20.42
			18	20.50	20.45	20.43	20.47
			39	20.50	20.43	20.40	20.40
30MHz	QPSK	75	0	20.50	20.46	20.37	20.47
			0	21.00	20.87	20.67	20.42
			38	21.00	20.92	20.59	20.46
	16QAM	74	74	21.00	20.87	20.52	20.43
			0	19.50	19.41	19.34	19.36
			18	19.50	19.44	19.42	19.36
35MHz	QPSK	39	39	19.50	19.42	19.39	19.28
			0	19.50	19.38	19.34	19.41
			0	19.50	19.38	19.34	19.41
	16QAM	75	0	19.50	19.38	19.34	19.41
			0	21.00	20.87	20.67	20.42
			38	21.00	20.92	20.59	20.46
40MHz	QPSK	1	38	21.00	20.92	20.59	20.46
			74	21.00	20.87	20.52	20.43
			0	19.50	19.41	19.34	19.36
	16QAM	36	18	19.50	19.44	19.42	19.36
			39	19.50	19.42	19.39	19.28
			0	19.50	19.38	19.34	19.41
45MHz	QPSK	1	0	21.50	21.26	21.36	21.31
			50	21.50	21.29	21.37	21.36
			99	21.50	21.22	21.27	21.25
	16QAM	50	0	20.50	20.30	20.22	20.30
			25	20.50	20.38	20.35	20.41
			50	20.50	20.39	20.32	20.33
50MHz	QPSK	100	0	20.50	20.34	20.19	20.26
			0	21.00	20.76	20.68	20.71
			50	21.00	20.81	20.71	20.74
	16QAM	1	99	21.00	20.76	20.52	20.65
			0	19.50	19.30	19.15	19.32
			25	19.50	19.33	19.31	19.41
60MHz	QPSK	50	50	19.50	19.40	19.28	19.35
			0	19.50	19.29	19.22	19.27
			0	19.50	19.29	19.22	19.27
	16QAM	100	0	19.50	19.29	19.22	19.27
			0	21.00	20.76	20.68	20.71
			50	21.00	20.81	20.71	20.74

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	22.50	22.33	22.44	22.40	
			2	23.00	22.44	22.47	22.52	
			5	22.50	22.29	22.39	22.39	
		3	0	23.00	22.40	22.55	22.47	
			2	23.00	22.35	22.59	22.44	
			3	23.00	22.34	22.57	22.44	
	16QAM	6	0	22.00	21.43	21.74	21.50	
			1	0	22.00	21.34	21.64	21.48
				2	22.00	21.37	21.70	21.46
		5		22.00	21.38	21.61	21.48	
			3	0	22.00	21.69	21.85	21.80
				2	22.00	21.68	21.81	21.82
3	22.00	21.70		21.85	21.80			
6	0	21.00	20.66	20.88	20.79			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	20415	20525	20635	
					825.5MHz	836.5MHz	847.5MHz	
3MHz	QPSK	1	0	22.50	22.29	22.48	22.46	
			7	22.50	22.17	22.39	22.22	
			14	23.00	22.39	22.52	22.36	
		8	0	22.00	21.47	21.74	21.63	
			4	22.00	21.58	21.85	21.69	
			7	22.00	21.54	21.82	21.60	
	16QAM	15	0	22.00	21.51	21.77	21.60	
			0	22.50	21.26	22.08	21.72	
			1	7	22.00	21.11	21.94	21.54
		14		22.50	21.28	22.07	21.63	
		8		0	21.00	20.41	20.77	20.59
			4	21.00	20.52	20.79	20.70	
7	21.00		20.50	20.79	20.52			
15	0	21.00	20.51	20.80	20.54			

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	23.00	22.67	22.88	22.73
			13	23.00	22.45	22.62	22.49
			24	23.00	22.76	22.93	22.64
		12	0	22.00	21.52	21.86	21.71
			6	22.00	21.62	21.92	21.78
			13	22.00	21.71	21.90	21.64
	16QAM	25	0	22.00	21.53	21.85	21.70
		1	0	22.50	22.35	22.34	22.17
			13	22.50	22.18	22.08	21.92
			24	22.50	22.39	22.32	22.10
		12	0	21.00	20.46	20.74	20.72
			6	21.00	20.62	20.85	20.78
13	21.00		20.66	20.81	20.64		
25	0	21.00	20.50	20.91	20.66		
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	22.63	22.83	22.99
			25	23.00	22.72	22.93	22.91
			49	23.00	22.84	22.91	22.83
		25	0	22.00	21.49	21.83	21.83
			13	22.00	21.70	21.91	21.84
			25	22.00	21.72	21.91	21.72
	16QAM	50	0	22.00	21.64	21.90	21.76
		1	0	22.50	22.17	22.13	21.81
			25	22.50	22.22	22.14	21.69
			49	22.50	22.45	22.09	21.65
		25	0	21.00	20.52	20.83	20.79
			13	21.00	20.70	20.87	20.85
			25	21.00	20.71	20.88	20.72
		50	0	21.00	20.56	20.88	20.72

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 2502.5MHz	21100 2535.0MHz	21425 2567.5MHz
5MHz	QPSK	1	0	22.50	22.00	21.81	21.48
			13	22.00	21.70	21.51	21.37
			24	22.00	21.86	21.76	21.42
		12	0	21.00	20.78	20.65	20.28
			6	21.00	20.79	20.62	20.35
			13	21.00	20.74	20.62	20.24
	16QAM	25	0	21.00	20.71	20.55	20.20
			0	21.50	21.38	21.31	20.74
			13	21.50	20.99	21.11	20.47
		12	24	21.50	21.25	21.29	20.78
			0	20.00	19.80	19.59	19.19
			6	20.00	19.79	19.57	19.20
10MHz	QPSK	1	13	20.00	19.72	19.60	19.17
			25	20.00	19.63	19.45	19.22
		25	0	20.00	20.800	21100	21400
			0	22.00	21.59	21.23	21.27
			25	21.50	21.38	21.22	21.36
		50	49	21.50	21.30	21.19	21.46
			0	20.50	20.29	20.13	20.25
			13	20.50	20.28	20.13	20.25
	16QAM	25	25	20.50	20.29	20.11	20.20
			0	20.50	20.26	20.14	20.20
		1	0	21.00	20.93	20.57	20.17
			25	21.00	20.82	20.52	20.25
			49	21.00	20.78	20.47	20.33
		25	0	19.50	19.26	19.13	19.24
			13	19.50	19.27	19.19	19.26
			25	19.50	19.28	19.14	19.18
		50	0	19.50	19.18	19.14	19.13

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20825	21100	21375
					2057.5MHz	2535.0MHz	2562.5MHz
15MHz	QPSK	1	0	21.50	21.46	21.17	21.11
			38	21.50	21.29	21.08	21.12
			74	21.50	21.25	21.10	21.27
		36	0	20.50	20.34	20.20	20.23
			18	20.50	20.36	20.20	20.23
			39	20.50	20.34	20.17	20.19
	16QAM	75	0	20.50	20.42	20.18	20.19
			0	21.00	20.63	20.64	20.37
			38	21.00	20.45	20.58	20.42
		36	74	21.00	20.46	20.59	20.59
			0	19.50	19.25	19.19	19.22
			18	19.50	19.27	19.20	19.28
20MHz	QPSK	39	0	19.50	19.23	19.15	19.26
			75	19.50	19.30	19.12	19.11
		75	0	19.50	19.30	19.12	19.11
	16QAM	1	0	22.00	21.39	21.30	21.55
			50	22.00	21.36	21.34	21.70
			99	22.00	21.21	21.21	21.76
	16QAM	50	0	21.00	20.10	20.18	20.65
			25	21.00	20.21	20.17	20.73
			50	21.00	20.20	20.14	20.53
	16QAM	100	0	21.00	20.14	20.09	20.59
			0	21.00	20.78	20.39	20.77
			50	21.00	20.74	20.44	20.87
	16QAM	1	99	21.00	20.58	20.39	20.65
			0	19.50	19.07	19.10	19.29
			25	19.50	19.19	19.17	19.34
	16QAM	50	50	19.50	19.19	19.11	19.13
			0	19.50	19.07	19.05	19.02
			0	19.50	19.07	19.05	19.02

11.1.7 Conducted Power of LTE Band 12

LTE-FDD Band 12				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23017 699.7MHz	23095 707.5MHz	23173 715.5MHz
1.4MHz	QPSK	1	0	21.50	21.18	21.26	21.05
			2	21.50	21.36	21.37	21.22
			5	21.50	21.17	21.24	21.04
		3	0	21.50	21.23	21.31	21.08
			2	21.50	21.24	21.26	21.09
			3	21.50	21.31	21.30	21.14
	16QAM	6	0	20.50	20.36	20.27	20.19
		1	0	20.50	20.47	20.27	20.37
			2	21.00	20.55	20.30	20.45
			5	21.00	20.52	20.35	20.39
		3	0	21.00	20.60	20.63	20.54
			2	21.00	20.58	20.63	20.52
3MHz	QPSK	1	3	21.00	20.60	20.62	20.47
			6	20.00	19.56	19.55	19.48
		8	0	21.50	21.24	21.26	21.21
			7	21.50	21.19	21.17	20.98
			14	21.50	21.29	21.22	21.12
		15	0	20.50	20.45	20.43	20.34
			4	21.00	20.54	20.51	20.37
			7	21.00	20.54	20.51	20.34
	16QAM	1	0	20.50	20.48	20.43	20.26
			0	21.00	20.81	20.86	20.52
			7	21.00	20.74	20.70	20.31
		8	14	21.00	20.87	20.74	20.39
			0	19.50	19.48	19.49	19.31
			4	20.00	19.53	19.48	19.38
		15	7	19.50	19.49	19.44	19.29
			0	20.00	19.52	19.43	19.26

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155	
					701.5MHz	707.5MHz	713.5MHz	
5MHz	QPSK	1	0	22.00	21.62	21.65	21.57	
			13	21.50	21.42	21.43	21.31	
			24	22.00	21.65	21.58	21.55	
		12	0	21.00	20.65	20.50	20.45	
			6	21.00	20.61	20.58	20.50	
			13	21.00	20.65	20.52	20.39	
	16QAM	25	0	21.00	20.59	20.50	20.39	
			1	0	21.50	21.08	21.12	21.25
				13	21.50	20.90	20.90	21.07
		24		21.50	21.09	21.04	21.20	
		12	0	20.00	19.55	19.54	19.47	
			6	20.00	19.56	19.60	19.51	
	13		20.00	19.57	19.50	19.41		
	25		0	20.00	19.65	19.43	19.36	
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	22.50	23095	23130
704.0MHz						707.5MHz	711.0MHz	
10MHz	QPSK	1	0	22.00	21.73	21.74	21.67	
			25	22.00	21.70	21.74	21.55	
			49	22.00	21.61	21.62	21.50	
		25	0	21.00	20.57	20.62	20.56	
			13	21.00	20.68	20.64	20.65	
			25	21.00	20.68	20.49	20.44	
	16QAM	50	0	21.00	20.62	20.55	20.49	
			1	0	21.50	20.84	20.62	21.20
				25	21.50	20.89	20.56	21.05
		49		21.00	20.81	20.47	21.00	
		25	0	20.00	19.51	19.59	19.58	
			13	20.00	19.65	19.61	19.66	
	25		20.00	19.70	19.50	19.50		
	50	0	20.00	19.59	19.47	19.53		

11.1.8 Conducted Power of LTE Band 17

LTE-FDD Band 17				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23755 706.5MHz	23790 710.0MHz	23825 713.5MHz
5MHz	QPSK	1	0	22.00	21.82	21.78	21.64
			13	22.00	21.60	21.43	21.45
			24	22.00	21.78	21.67	21.55
		12	0	21.00	20.69	20.64	20.57
			6	21.00	20.74	20.62	20.60
			13	21.00	20.73	20.56	20.47
	16QAM	25	0	21.00	20.68	20.59	20.53
			0	21.50	21.48	21.21	21.06
			13	21.50	21.32	20.90	20.82
		1	24	21.50	21.42	21.07	21.00
			0	20.00	19.67	19.59	19.58
			6	20.00	19.72	19.54	19.59
10MHz	QPSK	12	13	20.00	19.71	19.51	19.46
			0	20.00	19.63	19.63	19.47
			25	20.00	19.63	19.63	19.47
	16QAM	25	0	20.00	19.63	19.63	19.47
			0	20.00	19.63	19.63	19.47
			25	20.00	19.63	19.63	19.47
	QPSK	1	0	22.00	21.75	21.87	21.80
			25	22.00	21.65	21.67	21.70
			49	22.00	21.62	21.65	21.63
		25	0	21.00	20.61	20.60	20.67
			13	21.00	20.68	20.68	20.65
			25	21.00	20.63	20.59	20.58
10MHz	QPSK	50	0	21.00	20.60	20.58	20.63
			0	21.50	21.31	21.03	20.70
			25	21.50	21.20	20.90	20.60
	16QAM	1	49	21.50	21.17	20.84	20.52
			0	20.00	19.64	19.63	19.62
			13	20.00	19.74	19.67	19.69
10MHz	QPSK	25	25	20.00	19.61	19.55	19.54
			0	20.00	19.60	19.63	19.56
			0	20.00	19.60	19.63	19.56
	16QAM	50	0	20.00	19.60	19.63	19.56
			0	20.00	19.60	19.63	19.56
			0	20.00	19.60	19.63	19.56

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	21.00	20.70	20.77	20.66	
			13	21.00	20.59	20.60	20.49	
			24	21.00	20.73	20.79	20.61	
		12	0	20.00	19.63	19.66	19.60	
			6	20.00	19.67	19.70	19.65	
			13	20.00	19.66	19.69	19.60	
	16QAM	25	0	20.00	19.57	19.67	19.58	
			1	0	20.50	20.44	20.15	20.11
				13	20.50	20.39	20.00	19.93
		24		20.50	20.50	20.17	20.11	
		12	0	19.00	18.60	18.64	18.61	
			6	19.00	18.64	18.64	18.65	
13	19.00		18.68	18.61	18.59			
25	0	19.00	18.55	18.66	18.56			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	37800	38000	38200	
					2575.0MHz	2595.0MHz	2615.0MHz	
10MHz	QPSK	1	0	21.00	20.71	20.84	20.78	
			25	21.00	20.76	20.82	20.77	
			49	21.00	20.77	20.82	20.71	
		25	0	20.00	19.66	19.73	19.70	
			13	20.00	19.74	19.75	19.72	
			25	20.00	19.75	19.75	19.65	
	16QAM	50	0	20.00	19.69	19.76	19.65	
			1	0	20.50	20.32	19.98	19.78
				25	20.50	20.37	20.03	19.75
		25		49	20.50	20.37	20.04	19.76
			0	19.00	18.69	18.75	18.68	
			13	19.00	18.78	18.76	18.69	
25	19.00	18.78	18.76	18.67				
50	0	19.00	18.68	18.77	18.63			

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	37825	38000	38175
					2577.5MHz	2595.0MHz	2612.5MHz
15MHz	QPSK	1	0	21.00	20.68	20.77	20.74
			38	21.00	20.75	20.76	20.69
			74	21.00	20.72	20.76	20.67
		36	0	20.00	19.70	19.75	19.73
			18	20.00	19.78	19.82	19.71
			39	20.00	19.76	19.75	19.66
	16QAM	75	0	20.00	19.70	19.73	19.69
			0	20.50	20.25	19.96	20.00
			38	20.50	20.32	19.99	19.97
		36	74	20.50	20.28	19.94	19.97
			0	19.00	18.71	18.83	18.68
			18	19.00	18.78	18.84	18.70
20MHz	QPSK	39	19.00	18.75	18.82	18.82	18.62
			0	19.00	18.64	18.68	18.67
		75	0	19.00	18.64	18.68	18.67
			0	21.00	20.61	20.70	20.73
		50	50	21.00	20.73	20.81	20.79
			99	21.00	20.70	20.73	20.65
	16QAM	50	0	20.00	19.69	19.70	19.74
			25	20.00	19.78	19.81	19.74
			50	20.00	19.74	19.75	19.65
		100	0	20.00	19.66	19.68	19.68
			0	20.00	19.66	19.68	19.68
			0	20.00	19.66	19.68	19.68
20MHz	QPSK	1	50	20.50	20.14	20.08	20.02
			99	20.50	20.08	20.02	19.91
			0	19.00	18.69	18.67	18.76
	16QAM	50	25	19.00	18.84	18.78	18.79
			50	19.00	18.79	18.69	18.68
			0	19.00	18.65	18.65	18.62

11.1.10 Conducted Power of LTE Band 41

LTE-TDD Band 41					Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	40065	40265	40640	41015	41215
					2537.5MHz	2557.5MHz	2595.0MHz	2632.5 MHz	2652.5MHz
5MHz	QPSK	1	0	21.00	20.41	19.95	20.49	20.06	20.63
			13	21.00	20.34	19.86	20.37	19.95	20.53
			24	21.00	20.43	19.96	20.49	20.06	20.63
		12	0	20.00	19.26	18.85	19.43	18.99	19.55
			6	20.00	19.29	18.87	19.45	19.01	19.56
			13	20.00	19.27	18.87	19.46	18.99	19.51
		25	0	20.00	19.23	18.84	19.44	18.98	19.51
			0	20.50	19.69	19.28	19.86	19.56	20.25
	16QAM	1	13	20.50	19.60	19.16	19.72	19.48	20.23
			24	20.50	19.67	19.27	19.86	19.56	20.26
			0	19.00	18.19	17.84	18.48	18.01	18.53
		12	6	19.00	18.22	17.85	18.48	18.01	18.54
			13	19.00	18.20	17.84	18.48	18.01	18.54
			0	18.50	18.26	17.84	18.41	17.95	18.48
		25	0	18.50	18.26	17.84	18.41	17.95	18.48
			0	18.50	18.26	17.84	18.41	17.95	18.48
10MHz	QPSK	1	0	21.00	20.36	19.98	20.60	20.11	20.62
			25	21.00	20.37	19.99	20.60	20.12	20.64
			49	21.00	20.34	19.96	20.57	20.11	20.65
		25	0	20.00	19.27	18.89	19.51	19.03	19.55
			13	20.00	19.31	18.94	19.56	19.06	19.56
			25	20.00	19.36	18.94	19.52	19.03	19.54
		50	0	20.00	19.26	18.89	19.52	19.03	19.53
			0	20.00	19.89	19.29	19.69	19.21	19.72
	16QAM	1	25	20.00	19.89	19.29	19.69	19.22	19.75
			49	20.00	19.85	19.27	19.68	19.22	19.76
			0	19.00	18.29	17.91	18.52	18.04	18.55
		25	13	19.00	18.34	17.94	18.54	18.07	18.60
			25	19.00	18.37	17.94	18.51	18.03	18.55
			0	19.00	18.28	17.92	18.56	18.05	18.54
		50	0	19.00	18.28	17.92	18.56	18.05	18.54
			0	19.00	18.28	17.92	18.56	18.05	18.54

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	21.00	20.27	19.89	20.50	20.05	20.59
			38	21.00	20.25	19.87	20.49	20.07	20.65
			74	21.00	20.28	19.90	20.51	20.07	20.63
		36	0	20.00	19.25	18.86	19.46	19.01	19.55
			18	20.00	19.30	18.91	19.51	19.05	19.59
			39	20.00	19.31	18.89	19.46	19.01	19.56
		75	0	20.00	19.23	18.83	19.43	19.00	19.56
			38	20.00	19.85	19.24	19.63	19.20	19.76
			74	20.00	19.81	19.22	19.62	19.23	19.84
	16QAM	1	0	18.50	18.26	17.88	18.50	18.00	18.49
			18	19.00	18.32	17.96	18.59	18.07	18.55
			39	19.00	18.30	17.92	18.54	18.03	18.52
		36	0	19.00	18.24	17.83	18.42	17.99	18.56
			18	19.00	18.24	17.83	18.42	17.99	18.56
			39	19.00	18.24	17.83	18.42	17.99	18.56
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	21.00	20.30	19.88	20.46	20.01	20.55
			50	21.00	20.35	19.95	20.55	20.11	20.67
			99	21.00	20.33	19.90	20.46	20.03	20.60
		50	0	20.00	19.19	18.83	19.46	19.02	19.57
			25	20.00	19.31	18.93	19.55	19.07	19.58
			50	19.50	19.37	18.91	19.44	18.97	19.49
		100	0	19.50	19.23	18.83	19.42	18.96	19.50
			0	20.00	19.54	19.11	19.67	19.21	19.74
			50	20.00	19.59	19.17	19.74	19.29	19.84
	16QAM	1	99	20.00	19.58	19.13	19.67	19.23	19.79
			0	19.00	18.15	17.80	18.44	18.01	18.57
			25	19.00	18.31	17.93	18.54	18.05	18.55
		50	50	18.50	18.34	17.89	18.44	17.97	18.50
			100	0	18.50	18.23	17.82	18.40	17.95
			0	18.50	18.23	17.82	18.40	17.95	18.50

11.1.12 Conducted 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	21.00	20.81	20.83	20.73	
			2	21.00	20.86	20.94	20.75	
			5	21.00	20.72	20.83	20.75	
		3	0	21.00	20.82	20.98	20.88	
			2	21.00	20.82	20.93	20.88	
			3	21.00	20.85	20.93	20.92	
	16QAM	6	0	20.50	20.05	20.03	20.08	
			0	20.50	20.04	19.91	19.95	
			2	20.50	20.11	19.89	19.99	
		3	5	20.50	20.09	19.93	19.93	
			0	20.50	20.16	20.22	20.14	
			2	20.50	20.13	20.25	20.08	
6	3	20.50	20.10	20.25	20.15			
	0	19.50	19.19	19.22	19.23			
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	131987	132322	132657
1711.5MHz						1755.0MHz	1778.5MHz	
3MHz	QPSK	1	0	21.00	20.80	20.88	20.93	
			7	21.00	20.69	20.77	20.84	
			14	21.00	20.74	20.83	20.98	
		8	0	20.50	20.07	20.07	20.15	
			4	20.50	20.16	20.16	20.16	
			7	20.50	20.08	20.11	19.96	
	16QAM	15	0	20.50	20.03	20.07	19.81	
			0	20.50	20.39	20.22	19.69	
			7	20.50	20.30	20.10	19.43	
		1	14	20.50	20.37	20.16	19.38	
			0	19.50	19.06	19.07	18.83	
			8	4	19.50	19.09	19.16	18.85
7	19.50	19.03	19.02	18.88				
	15	0	19.50	19.00	19.01	19.08		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune- up(dBm)	131997	132322	132647
1712.5MHz						1755.0MHz	1775.0MHz	
5MHz	QPSK	1	0	21.50	21.22	21.08	21.27	
			13	21.50	20.99	20.93	21.08	
			24	21.50	21.16	21.07	21.29	
		12	0	20.50	20.12	20.14	20.05	
			6	20.50	20.11	20.11	19.97	
			13	20.50	20.05	20.20	19.98	
	16QAM	25	0	20.00	19.77	19.95	19.87	
			0	21.00	20.70	20.54	20.73	
			13	21.00	20.48	20.35	20.53	
		1	24	21.00	20.81	20.58	20.51	
			12	0	19.00	18.90	18.91	18.76
				6	19.50	18.80	19.06	18.90
13	19.00	18.87		19.00	18.00			
25	0	19.50	18.83	19.09	18.00			

LTE-FDD Band 66				Maximum Tune- up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		132022 1715.0MHz	132322 1755.0MHz	132622 1775.0MHz
10MHz	QPSK	1	0	21.50	21.27	21.17	21.22
			25	21.50	21.29	21.07	21.01
			49	21.50	21.28	21.24	21.25
		25	0	20.50	20.20	20.14	19.98
			13	20.50	20.27	20.30	20.05
			25	20.50	20.26	20.09	19.80
	16QAM	50	0	20.50	20.17	20.21	19.88
			0	21.00	20.17	20.83	20.08
			25	21.00	20.17	20.81	19.96
		1	49	21.00	20.16	20.80	20.19
			0	19.50	19.07	19.20	18.83
			13	19.50	19.13	19.25	18.73
15MHz	QPSK	25	25	19.50	19.09	19.16	18.74
			0	19.50	18.93	19.22	18.72
			0	19.50	18.93	19.22	18.72
	16QAM	50	0	19.50	18.93	19.22	18.72
			0	19.50	18.93	19.22	18.72
			0	19.50	18.93	19.22	18.72
20MHz	QPSK	1	0	21.50	21.26	20.89	20.79
			38	21.50	21.05	20.76	20.86
			74	21.50	21.04	20.85	20.75
		36	0	20.00	19.89	19.97	19.78
			18	20.00	19.83	19.95	19.81
			39	20.00	19.82	19.89	19.81
	16QAM	75	0	20.00	19.84	19.84	19.78
			0	20.50	20.35	20.10	19.82
			38	20.50	20.36	20.17	19.90
		36	74	20.50	20.29	20.06	19.85
			0	19.50	18.80	19.04	18.64
			18	19.50	18.79	19.05	18.74
20MHz	QPSK	36	39	19.00	18.82	18.91	18.67
			0	19.50	18.75	19.04	18.76
			0	19.50	18.75	19.04	18.76
	16QAM	75	0	19.50	18.75	19.04	18.76
			0	19.50	18.75	19.04	18.76
			0	19.50	18.75	19.04	18.76
20MHz	QPSK	1	0	21.50	21.16	21.21	21.19
			50	21.50	21.25	21.20	21.03
			99	21.50	21.15	21.05	21.07
		50	0	20.50	20.18	20.22	19.75
			25	20.50	20.26	20.26	19.82
			50	20.50	20.22	20.12	19.72
	16QAM	100	0	20.50	20.23	20.12	19.70
			0	21.00	20.58	20.46	20.06
			50	21.00	20.63	20.61	20.12
		50	99	21.00	20.55	20.39	20.05
			0	19.50	19.11	19.09	18.66
			25	19.50	19.17	19.19	18.77
20MHz	QPSK	50	50	19.50	19.16	19.15	18.60
			0	19.50	19.15	18.98	18.64
			0	19.50	19.15	18.98	18.64
	16QAM	100	0	19.50	19.15	18.98	18.64
			0	19.50	19.15	18.98	18.64
			0	19.50	19.15	18.98	18.64

11.1.25 Conducted Power of Wi-Fi 2.4G

Mode	802.11b		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	17.01	17.95	15.89
Mode	802.11g		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	20.74	19.34	19.25
Mode	802.11n(HT20)		
Channel/Frequency(MHz)	1(2412)	6(2437)	11(2462)
Average Power(dBm)	21.44	22.02	20.25
Mode	802.11n(HT40)		
Channel/Frequency(MHz)	1(2422)	6(2437)	11(2452)
Average Power(dBm)	19.79	19.95	19.44

11.1.26 Conducted Power of Wi-Fi 5G

Ant 1						
Band	Mode	Channel	Frequency(MHz)	Tune-up	Average Power(dBm)	SAR Test(Yes/No)
U-NII-1 (5150-5250)	802.11a	36	5180	18.00	17.73	No
		48	5240	17.50	17.37	No
	802.11n-HT20	36	5180	18.00	17.69	No
		48	5240	18.00	17.54	No
	802.11n-HT40	38	5190	17.00	16.66	No
		46	5230	17.00	16.68	No
	802.11ac-VHT20	36	5180	19.00	18.69	Yes
		48	5240	19.00	18.53	No
	802.11ac-VHT40	38	5190	17.00	16.64	No
		46	5230	17.00	16.66	No
	802.11ac-VHT80	42	5210	16.00	15.54	No
		36	5180	18.00	17.86	No
	802.11ax-HT20	48	5240	17.50	17.49	No
		38	5190	16.50	16.33	No
U-NII-1 (5150-5250)	802.11a	36	5180	18.50	18.25	Yes
		48	5240	18.50	18.09	No
	802.11n-HT20	36	5180	14.50	14.10	No
		48	5240	18.00	17.85	No
	802.11n-HT40	38	5190	16.50	16.05	No
		46	5230	17.50	17.12	No
	802.11ac-VHT20	36	5180	15.50	15.08	No
		48	5240	15.00	14.81	No
	802.11ac-VHT40	38	5190	17.00	16.52	No
		46	5230	17.00	16.92	No
	802.11ac-VHT80	42	5210	16.50	16.10	No
		36	5180	18.00	17.98	No
	802.11ax-HT20	48	5240	14.50	14.12	No
		38	5190	16.50	16.41	No
U-NII-1 (5150-5250)	802.11a	36	5180	19.50	19.27	No
		48	5240	21.00	20.71	No
	802.11n-HT20	38	5190	19.50	19.38	No
		46	5230	20.00	19.92	No
	802.11n-HT40	36	5180	20.50	20.26	No
		48	5240	20.50	20.07	No
	802.11ac-VHT20	38	5190	20.00	19.59	No
		46	5230	20.00	19.80	No
	802.11ac-VHT40	42	5210	19.00	18.84	No
		36	5180	21.00	20.93	Yes
	802.11ac-VHT80	48	5240	19.50	19.13	No
		38	5190	19.50	19.38	No
	802.11ax-HT20	46	5230	20.00	19.79	No
		42	5210	19.00	18.74	No
U-NII-1 (5150-5250)	802.11a	36	5180	17.50	17.29	No
		48	5240	17.50	17.29	No
	802.11n-HT20	36	5180	19.50	19.27	No
		48	5240	21.00	20.71	No
	802.11n-HT40	38	5190	19.50	19.38	No
		46	5230	20.00	19.92	No
	802.11ac-VHT20	36	5180	20.50	20.26	No
		48	5240	20.50	20.07	No
	802.11ac-VHT40	38	5190	20.00	19.59	No
		46	5230	20.00	19.80	No
	802.11ac-VHT80	42	5210	19.00	18.84	No
		36	5180	21.00	20.93	Yes
	802.11ax-HT20	48	5240	19.50	19.13	No
		38	5190	19.50	19.38	No
U-NII-1 (5150-5250)	802.11a	36	5180	17.50	17.29	No
		48	5240	17.50	17.29	No
	802.11n-HT20	36	5180	19.50	19.27	No
		48	5240	21.00	20.71	No
	802.11n-HT40	38	5190	19.50	19.38	No
		46	5230	20.00	19.92	No
	802.11ac-VHT20	36	5180	20.50	20.26	No
		48	5240	20.50	20.07	No
	802.11ac-VHT40	38	5190	20.00	19.59	No
		46	5230	20.00	19.80	No
	802.11ac-VHT80	42	5210	19.00	18.84	No
		36	5180	21.00	20.93	Yes
	802.11ax-HT20	48	5240	19.50	19.13	No
		38	5190	19.50	19.38	No

Ant 1						
Band	Mode	Channel	Frequency (MHz)	Tune-up	Average Power(dBm)	SAR Test(Yes/No)
U-NII-2a (5250-5350)	802.11a	52	5260	18.00	17.72	No
		64	5320	17.00	16.52	No
	802.11n-HT20	52	5260	18.00	17.57	No
		64	5320	16.50	16.43	No
	802.11n-HT40	54	5270	16.50	16.33	No
		62	5310	15.50	15.42	No
	802.11ac-VHT20	52	5260	18.50	18.43	Yes
		64	5320	17.50	17.40	No
	802.11ac-VHT40	54	5270	16.50	16.29	No
		62	5310	15.50	15.40	No
	802.11ac-VHT80	58	5290	15.00	14.88	No
		52	5260	18.00	17.54	No
802.11ax-HT20	64	5320	16.50	16.46	No	
	54	5270	16.50	16.28	No	
	62	5310	15.50	15.39	No	
	58	5290	15.50	15.23	No	
Ant 2						
Band	Mode	Channel	Frequency (MHz)	Tune-up	Average Power(dBm)	SAR Test(Yes/No)
U-NII-2a (5250-5350)	802.11a	52	5260	18.50	18.17	Yes
		64	5320	17.00	16.90	No
	802.11n-HT20	52	5260	18.00	17.83	No
		64	5320	17.00	16.59	No
	802.11n-HT40	54	5270	17.00	16.59	No
		62	5310	16.00	15.59	No
	802.11ac-VHT20	52	5260	15.00	14.92	No
		64	5320	14.00	13.80	No
	802.11ac-VHT40	54	5270	17.00	16.53	No
		62	5310	16.00	15.52	No
	802.11ac-VHT80	58	5290	15.50	15.07	No
		52	5260	13.50	13.34	No
802.11ax-HT20	64	5320	17.00	16.55	No	
	54	5270	16.50	16.48	No	
	62	5310	16.00	15.79	No	
	58	5290	15.00	14.98	No	
MIMO						
Band	Mode	Channel	Frequency (MHz)	Tune-up	Average Power(dBm)	SAR Test(Yes/No)
U-NII-2a (5250-5350)	802.11n-HT20	52	5260	21.00	20.71	Yes
		64	5320	20.00	19.52	No
	802.11n-HT40	54	5270	19.50	19.47	No
		62	5310	19.00	18.52	No
	802.11ac-VHT20	52	5260	20.50	20.03	No
		64	5320	19.00	18.97	No
	802.11ac-VHT40	54	5270	19.50	19.42	No
		62	5310	18.50	18.47	No
	802.11ac-VHT80	58	5290	18.00	17.99	No
		52	5260	19.00	18.94	No
	802.11ax-HT20	64	5320	20.00	19.52	No
		54	5270	19.50	19.39	No
802.11ax-HT40	62	5310	19.00	18.60	No	
	58	5290	18.50	18.12	No	

Ant 1						
Band	Mode	Channel	Frequency (MHz)	Tune-up	Average Power(dBm)	SAR Test(Yes/No)
U-NII-2c (5470-5725)	802.11a	100	5500	17.50	17.28	No
		140	5700	18.50	18.01	No
	802.11n-HT20	100	5500	17.50	17.45	No
		140	5700	18.00	17.64	No
	802.11n-HT40	102	5510	16.50	16.02	No
		134	5670	16.50	16.50	No
	802.11ac-VHT20	100	5500	18.50	18.35	No
		140	5700	19.00	18.73	Yes
	802.11ac-VHT40	102	5510	16.00	15.94	No
		134	5670	17.00	16.71	No
	802.11ac-VHT80	106	5530	15.50	15.16	No
		122	5610	16.00	15.53	No
	802.11ax-HT20	100	5500	17.50	17.28	No
		140	5700	18.00	17.90	No
	802.11ax-HT40	102	5510	16.50	16.22	No
		134	5670	17.00	16.91	No
	802.11ax-HT80	106	5530	15.50	15.20	No
		122	5610	16.00	15.66	No
	802.11ax- HT160	114	5570	15.50	15.03	No
Ant 2						
Band	Mode	Channel	Frequency (MHz)	Tune-up	Average Power(dBm)	SAR Test(Yes/No)
U-NII-2c (5470-5725)	802.11a	100	5500	18.00	17.59	No
		140	5700	18.50	18.27	Yes
	802.11n-HT20	100	5500	14.00	13.86	No
		140	5700	18.50	18.07	No
	802.11n-HT40	102	5510	16.50	16.09	No
		134	5670	17.00	16.83	No
	802.11ac-VHT20	100	5500	15.00	14.92	No
		140	5700	15.50	15.16	No
	802.11ac-VHT40	102	5510	16.50	16.11	No
		134	5670	17.00	16.84	No
	802.11ac-VHT80	106	5530	15.50	15.16	No
		122	5610	16.00	15.79	No
	802.11ax-HT20	100	5500	18.00	17.57	No
		140	5700	13.50	13.33	No
	802.11ax-HT40	102	5510	16.50	16.32	No
		134	5670	17.00	16.74	No
	802.11ax-HT80	106	5530	16.00	15.58	No
		122	5610	16.00	15.97	No
	802.11ax- HT160	114	5570	15.00	14.87	No
MIMO						
Band	Mode	Channel	Frequency (MHz)	Tune-up	AveragePower(dBm)	SAR Test(Yes/No)
U-NII-2c (5470-5725)	802.11n-HT20	100	5500	19.50	19.03	No
		140	5700	21.00	20.87	Yes
	802.11n-HT40	102	5510	19.50	19.07	No
		134	5670	20.00	19.68	No
	802.11ac-VHT20	100	5500	20.00	19.98	No
		140	5700	20.50	20.31	No
	802.11ac-VHT40	102	5510	19.50	19.04	No
		134	5670	20.00	19.79	No
	802.11ac-VHT80	106	5530	18.50	18.17	No
		122	5610	19.00	18.67	No
	802.11ax-HT20	100	5500	20.50	20.44	No
		140	5700	19.50	19.20	No
	802.11ax-HT40	102	5510	19.50	19.28	No
		134	5670	20.00	19.84	No
	802.11ax-HT80	106	5530	18.50	18.40	No
		122	5610	19.00	18.83	No
	802.11ax- HT160	114	5570	18.00	17.96	No

Ant 1						
Band	Mode	Channel	Frequency (MHz)	Tune-up	Average Powe(dBm)	SAR Test(Yes/No)
U-NII-3 (5725-5825)	802.11a	149	5745	18.00	17.53	No
		165	5825	17.50	17.47	No
	802.11n-HT20	149	5745	17.50	17.44	No
		165	5825	18.00	17.51	No
	802.11n-HT40	151	5755	16.50	16.48	No
		159	5795	16.50	16.44	No
	802.11ac-VHT20	149	5745	18.50	18.44	Yes
		165	5825	18.50	18.40	No
	802.11ac-VHT40	151	5755	17.00	16.63	No
		159	5795	17.00	16.81	No
	802.11ac-VHT80	155	5775	16.00	15.93	No
		802.11ax-HT20	149	5745	18.00	17.73
	165		5825	18.00	17.57	No
	802.11ax-HT40	151	5755	16.50	16.50	No
159		5795	17.00	16.92	No	
802.11ax-HT80	155	5775	16.50	16.12	No	
Ant 2						
Band	Mode	Channel	Frequency (MHz)	Tune-up	Average Powe(dBm)	SAR Test(Yes/No)
U-NII-3 (5725-5825)	802.11a	149	5745	18.50	18.01	No
		165	5825	18.00	17.91	No
	802.11n-HT20	149	5745	18.00	17.54	No
		165	5825	18.00	17.94	No
	802.11n-HT40	151	5755	17.00	16.94	No
		159	5795	17.00	16.83	No
	802.11ac-VHT20	149	5745	19.00	18.63	Yes
		165	5825	19.00	18.59	No
	802.11ac-VHT40	151	5755	17.00	16.73	No
		159	5795	17.00	16.95	No
	802.11ac-VHT80	155	5775	16.50	16.20	No
		802.11ax-HT20	149	5745	18.00	17.63
	165		5825	18.00	17.63	No
	802.11ax-HT40	151	5755	17.00	16.74	No
159		5795	17.00	16.87	No	
802.11ax-HT80	155	5775	16.50	16.12	No	
MIMO						
Band	Mode	Channel	Frequency (MHz)	Tune-up	Average Powe(dBm)	SAR Test(Yes/No)
U-NII-3 (5725-5825)	802.11n-HT20	149	5745	20.50	20.50	No
		165	5825	21.00	20.74	No
	802.11n-HT40	151	5755	20.00	19.73	No
		159	5795	20.00	19.65	No
	802.11ac-VHT20	149	5745	22.00	21.55	Yes
		165	5825	22.00	21.51	No
	802.11ac-VHT40	151	5755	20.00	19.69	No
		159	5795	20.00	19.89	No
	802.11ac-VHT80	155	5775	19.50	19.08	No
		802.11ax-HT20	149	5745	21.00	20.69
	165		5825	21.00	20.61	No
	802.11ax-HT40	151	5755	20.00	19.63	No
		159	5795	20.00	19.91	No
	802.11ax-HT80	155	5775	19.50	19.13	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 the highest maximum output power. When the reported SAR of initial test configuration is $> 0.8 \text{ W/kg}$, SAR is required for the subsequent highest measured output power channel until the reported SAR result is $\leq 1.2 \text{ W/kg}$ 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 $\leq 1.2 \text{ W/kg}$.

11.1.27 Conducted Power of BT

EDR	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	11.00	9.81	10.58	8.98
	$\pi/4$ QPSK	10.00	9.29	9.57	8.01
	8DPSK	10.00	9.07	9.72	8.09
BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	19	39
			2402MHz	2440MHz	2480MHz
	1Mbps	6.50	6.15	6.21	4.98
	2Mbps	6.00	5.51	5.96	5.26

Note

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

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

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

where

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

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

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

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

11.1.28 Tune-up power tolerance

Band	Tune-up power tolerance(dBm)		
GSM850	GSM/GPRS (GMSK)	GSM	Max Tune-up power =36.00dBm
		1TXslots	Max Tune-up power =36.00dBm
		2TXslots	Max Tune-up power =35.50dBm
		3TXslots	Max Tune-up power =33.00dBm
	EGPRS (8-PSK)	4TXslots	Max Tune-up power =32.00dBm
		1TXslots	Max Tune-up power =34.50dBm
		2TXslots	Max Tune-up power =34.50dBm
		3TXslots	Max Tune-up power =34.00dBm
GSM1900	GSM/GPRS (GMSK)	4TXslots	Max Tune-up power =34.00dBm
		GSM	Max Tune-up power =33.00dBm
		1TXslots	Max Tune-up power =33.00dBm
		2TXslots	Max Tune-up power =32.00dBm
	EGPRS (8-PSK)	3TXslots	Max Tune-up power =30.00dBm
		4TXslots	Max Tune-up power =28.50dBm
		1TXslots	Max Tune-up power =29.50dBm
		2TXslots	Max Tune-up power =29.00dBm
WCDMA 2		3TXslots	Max Tune-up power =28.50dBm
		4TXslots	Max Tune-up power =27.50dBm
WCDMA 4			Max Tune-up power =25.00dBm
WCDMA 5			Max Tune-up power =25.50dBm
LTE B2			Max Tune-up power =25.50dBm
LTE B4			Max Tune-up power =21.50dBm
LTE B5			Max Tune-up power =21.50dBm
LTE B7			Max Tune-up power =23.00dBm
LTE B12			Max Tune-up power =22.00dBm
LTE B17			Max Tune-up power =22.00dBm
LTE B38			Max Tune-up power =22.00dBm
LTE B41			Max Tune-up power =21.00dBm
LTE B66			Max Tune-up power =21.00dBm
			Max Tune-up power =21.50dBm

Band		Tune-up power tolerance(dBm)		
WIFI	2.4G		802.11b	Max Tune-up power =18.00dBm
			802.11g	Max Tune-up power =21.00dBm
			802.11n (HT20)	Max Tune-up power =22.50dBm
			802.11n (HT40)	Max Tune-up power =20.0dBm
	U-NII-1(5150-5250)	ANT1	802.11ac-VHT20	Max Tune-up power =19.00dBm
		ANT2	802.11ac-VHT20	Max Tune-up power =18.50dBm
		MIMO	802.11ac-VHT20	Max Tune-up power =21.00dBm
	U-NII-2a(5250-5350)	ANT1	802.11ac-VHT20	Max Tune-up power =18.50dBm
		ANT2	802.11ac-VHT20	Max Tune-up power =18.50dBm
		MIMO	802.11ac-VHT20	Max Tune-up power =21.00dBm
	U-NII-2c(5470-5725)	ANT1	802.11ac-VHT20	Max Tune-up power =19.00dBm
		ANT2	802.11ac-VHT20	Max Tune-up power =18.50dBm
		MIMO	802.11ac-VHT20	Max Tune-up power =21.00dBm
	U-NII-3(5725-5825)	ANT1	802.11ac-VHT20	Max Tune-up power =18.5dBm
		ANT2	802.11ac-VHT20	Max Tune-up power =19.0dBm
		MIMO	802.11ac-VHT20	Max Tune-up power =22.00dBm
BT	GFSK mode			Max Tune-up power =11.00dBm
	Pi/4DQPSK mode			Max Tune-up power =10.00dBm
	8DPSK mode			Max Tune-up power =10.00dBm
BLE	1Mbps Power			Max Tune-up power =6.50dBm
	2Mbps Power			Max Tune-up power =6.00dBm

11.2 SAR test results

Notes:

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

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

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

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

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

9) Per KDB 941225 D01, 3G SAR Measurement Procedures, The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

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

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

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

(2) QPSK with 100% RB allocation

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

tested.

(3) Higher order modulations

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

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is $> 1/2$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

11.3 Test Result

11.3.1 Results overview of GSM

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GSM 850 (voice)	Left Cheek	251	848.8	0.010	0.226	100	1.00	35.99	36.00	1.002	0.227
	Left Tilt	251	848.8	0.170	0.405	100	1.00	35.99	36.00	1.002	0.406
	Right Cheek	251	848.8	0.080	0.471	100	1.00	35.99	36.00	1.002	0.472
	Right Tilt	251	848.8	-0.100	0.597	100	1.00	35.99	36.00	1.002	0.598
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GPRS 850+4slots	Front	251	848.8	-0.110	0.144	100	1.00	35.99	36.00	1.002	0.144
	Back	251	848.8	0.010	0.212	100	1.00	35.99	36.00	1.002	0.212
	Left	251	848.8	0.030	0.079	100	1.00	35.99	36.00	1.002	0.079
	right	251	848.8	-0.060	0.004	100	1.00	35.99	36.00	1.002	0.004
	Top	251	848.8	0.030	0.125	100	1.00	35.99	36.00	1.002	0.125
	Bottom	251	848.8	0.010	0.002	100	1.00	35.99	36.00	1.002	0.002

ANTO:

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GPRS 850+4slots	Front	251	848.8	0.020	0.235	100	1.00	35.99	36.00	1.002	0.236
	Back	251	848.8	-0.030	0.307	100	1.00	35.99	36.00	1.002	0.308
	Left	251	848.8	0.140	0.030	100	1.00	35.99	36.00	1.002	0.030
	right	251	848.8	0.020	0.133	100	1.00	35.99	36.00	1.002	0.133
	Top	251	848.8	0.010	0.335	100	1.00	35.99	36.00	1.002	0.336
	Bottom	251	848.8	0.060	0.002	100	1.00	35.99	36.00	1.002	0.002

Note: The antenna is located at the bottom of the prototype, so there is no need to test the head SAR value.

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GSM 1900 (voice)	Left Cheek	810	1909.8	0.090	0.162	100	1.00	32.81	33.00	1.045	0.169
	Left Tilt	810	1909.8	-0.010	0.254	100	1.00	32.81	33.00	1.045	0.265
	Right Cheek	810	1909.8	0.140	0.292	100	1.00	32.81	33.00	1.045	0.305
	Right Tilt	810	1909.8	-0.050	0.572	100	1.00	32.81	33.00	1.045	0.598
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GPRS 1900+4slots	Front	810	1909.8	0.000	0.427	100	1.00	32.81	33.00	1.045	0.446
	Back	810	1909.8	0.000	0.642	100	1.00	32.81	33.00	1.045	0.671
	Left	810	1909.8	0.030	0.237	100	1.00	32.81	33.00	1.045	0.248
	right	810	1909.8	-0.020	0.015	100	1.00	32.81	33.00	1.045	0.016
	Top	810	1909.8	-0.040	0.526	100	1.00	32.81	33.00	1.045	0.550
	Bottom	810	1909.8	0.010	0.002	100	1.00	32.81	33.00	1.045	0.002

ANTO:

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
GPRS 1900+4slots	Front	810	1909.8	0.050	0.110	100	1.00	32.81	33.00	1.045	0.115
	Back	810	1909.8	-0.040	0.137	100	1.00	32.81	33.00	1.045	0.143
	Left	810	1909.8	-0.060	0.091	100	1.00	32.81	33.00	1.045	0.095
	right	810	1909.8	0.140	0.025	100	1.00	32.81	33.00	1.045	0.026
	Top	810	1909.8	0.080	0.002	100	1.00	32.81	33.00	1.045	0.002
	Bottom	810	1909.8	-0.040	0.173	100	1.00	32.81	33.00	1.045	0.181

Note: The antenna is located at the bottom of the prototype, so there is no need to test the head SAR value.

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	9400	1880	0.070	0.168	100	1.00	24.80	25.00	1.047	0.176
	Left Tilt	9400	1880	-0.120	0.212	100	1.00	24.80	25.00	1.047	0.222
	Right Cheek	9400	1880	0.070	0.351	100	1.00	24.80	25.00	1.047	0.368
	Right Tilt	9400	1880	0.010	0.500	100	1.00	24.80	25.00	1.047	0.524
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	9400	1880	0.090	0.063	100	1.00	24.80	25.00	1.047	0.066
	Back	9400	1880	-0.170	0.097	100	1.00	24.80	25.00	1.047	0.102
	Left	9400	1880	0.140	0.049	100	1.00	24.80	25.00	1.047	0.051
	right	9400	1880	0.000	0.003	100	1.00	24.80	25.00	1.047	0.003
	Top	9400	1880	0.020	0.084	100	1.00	24.80	25.00	1.047	0.088
	Bottom	9400	1880	0.130	0.006	100	1.00	24.80	25.00	1.047	0.006

ANTO:

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	9400	1880	0.110	0.212	100	1.00	24.80	25.00	1.047	0.222
	Back	9400	1880	-0.030	0.259	100	1.00	24.80	25.00	1.047	0.271
	Left	9400	1880	0.030	0.112	100	1.00	24.80	25.00	1.047	0.117
	right	9400	1880	-0.070	0.043	100	1.00	24.80	25.00	1.047	0.045
	Top	9400	1880	0.120	0.002	100	1.00	24.80	25.00	1.047	0.002
	Bottom	9400	1880	-0.020	0.332	100	1.00	24.80	25.00	1.047	0.348

Note: The antenna is located at the bottom of the prototype, so there is no need to test the head SAR value.

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	1413	1732.6	0.140	0.191	100	1.00	25.02	25.50	1.117	0.213
	Left Tilt	1413	1732.6	-0.080	0.344	100	1.00	25.02	25.50	1.117	0.384
	Right Cheek	1413	1732.6	0.040	0.452	100	1.00	25.02	25.50	1.117	0.505
	Right Tilt	1413	1732.6	-0.060	1.020	100	1.00	25.02	25.50	1.117	1.139
	Right Tilt	1413	1732.6	0.080	1.003	100	1.00	25.02	25.50	1.117	1.120
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	1413	1732.6	-0.060	0.172	100	1.00	25.02	25.50	1.117	0.192
	Back	1413	1732.6	-0.090	0.264	100	1.00	25.02	25.50	1.117	0.295
	Left	1413	1732.6	0.030	0.149	100	1.00	25.02	25.50	1.117	0.166
	right	1413	1732.6	0.070	0.014	100	1.00	25.02	25.50	1.117	0.016
	Top	1413	1732.6	-0.110	0.231	100	1.00	25.02	25.50	1.117	0.258
	Bottom	1413	1732.6	0.030	0.002	100	1.00	25.02	25.50	1.117	0.002

Band	Ch.	EUT Position	Measure SAR(W/kg)		
			Original	Repeated	SAR ratio
WCDMA Band 4	1413	Right Tilt	1.020	1.003	1.02

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

ANT0:

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	1413	1732.6	0.060	0.372	100	1.00	25.02	25.50	1.117	0.415
	Back	1413	1732.6	-0.010	0.476	100	1.00	25.02	25.50	1.117	0.532
	Left	1413	1732.6	-0.030	0.265	100	1.00	25.02	25.50	1.117	0.296
	right	1413	1732.6	0.170	0.104	100	1.00	25.02	25.50	1.117	0.116
	Top	1413	1732.6	0.010	0.006	100	1.00	25.02	25.50	1.117	0.007
	Bottom	1413	1732.6	0.030	0.733	100	1.00	25.02	25.50	1.117	0.819

Note: The antenna is located at the bottom of the prototype, so there is no need to test the head SAR value.

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 5 (RMC*)	Left Cheek	4132	826.4	0.110	0.092	100	1.00	25.35	26.00	1.161	0.107
	Left Tilt	4132	826.4	-0.050	0.210	100	1.00	25.35	26.00	1.161	0.244
	Right Cheek	4132	826.4	-0.020	0.269	100	1.00	25.35	26.00	1.161	0.312
	Right Tilt	4132	826.4	0.000	0.356	100	1.00	25.35	26.00	1.161	0.413
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 5 (RMC*)	Front	4132	826.4	-0.020	0.118	100	1.00	25.35	26.00	1.161	0.137
	Back	4132	826.4	0.070	0.172	100	1.00	25.35	26.00	1.161	0.200
	Left	4132	826.4	0.030	0.087	100	1.00	25.35	26.00	1.161	0.101
	right	4132	826.4	-0.040	0.007	100	1.00	25.35	26.00	1.161	0.008
	Top	4132	826.4	0.000	0.106	100	1.00	25.35	26.00	1.161	0.123
	Bottom	4132	826.4	0.000	0.002	100	1.00	25.35	26.00	1.161	0.002

ANT0:

Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
WCDMA Band 5 (RMC*)	Front	4132	826.4	0.030	0.225	100	1.00	25.35	26.00	1.161	0.261
	Back	4132	826.4	-0.040	0.301	100	1.00	25.35	26.00	1.161	0.350
	Left	4132	826.4	0.140	0.060	100	1.00	25.35	26.00	1.161	0.070
	right	4132	826.4	-0.010	0.139	100	1.00	25.35	26.00	1.161	0.161
	Top	4132	826.4	0.000	0.002	100	1.00	25.35	26.00	1.161	0.002
	Bottom	4132	826.4	-0.010	0.331	100	1.00	25.35	26.00	1.161	0.384

Note: The antenna is located at the bottom of the prototype, so there is no need to test the head SAR value.

11.3.3 Results overview of LTE

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 2 (BW: 20MHz)	1RB	Left Cheek	18900	1880.0	0.090	0.034	100	1.00	21.25	21.50	1.059	0.036
		Left Tilt	18900	1880.0	0.190	0.048	100	1.00	21.25	21.50	1.059	0.051
		Right Cheek	18900	1880.0	-0.040	0.020	100	1.00	21.25	21.50	1.059	0.021
		Right Tilt	18900	1880.0	0.040	0.036	100	1.00	21.25	21.50	1.059	0.038
	50%RB	Left Cheek	18900	1880.0	0.030	0.031	100	1.00	21.25	21.50	1.059	0.033
		Left Tilt	18900	1880.0	0.010	0.050	100	1.00	21.25	21.50	1.059	0.053
		Right Cheek	18900	1880.0	-0.060	0.022	100	1.00	21.25	21.50	1.059	0.023
		Right Tilt	18900	1880.0	0.140	0.033	100	1.00	21.25	21.50	1.059	0.035
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 2 (BW: 20MHz)	1RB	Front	18900	1880.0	-0.110	0.169	100	1.00	21.25	21.50	1.059	0.179
		Back	18900	1880.0	-0.190	0.224	100	1.00	21.25	21.50	1.059	0.237
		Left	18900	1880.0	-0.080	0.240	100	1.00	21.25	21.50	1.059	0.254
		right	18900	1880.0	8.000	0.191	100	1.00	21.25	21.50	1.059	0.202
		Top	18900	1880.0	0.020	0.019	100	1.00	21.25	21.50	1.059	0.020
		Bottom	18900	1880.0	-0.050	0.342	100	1.00	21.25	21.50	1.059	0.362
	50%RB	Front	18900	1880.0	0.160	0.176	100	1.00	21.25	21.50	1.059	0.186
		Back	18900	1880.0	0.190	0.221	100	1.00	21.25	21.50	1.059	0.234
		Left	18900	1880.0	-0.080	0.235	100	1.00	21.25	21.50	1.059	0.249
		right	18900	1880.0	-0.020	0.202	100	1.00	21.25	21.50	1.059	0.214
		Top	18900	1880.0	0.170	0.016	100	1.00	21.25	21.50	1.059	0.017
		Bottom	18900	1880.0	0.060	0.335	100	1.00	21.25	21.50	1.059	0.355

ANT2:

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 2 (BW: 20MHz)	1RB	Left Cheek	18900	1880.0	0.180	0.093	100	1.00	21.25	21.50	1.059	0.099
		Left Tilt	18900	1880.0	0.020	0.204	100	1.00	21.25	21.50	1.059	0.216
		Right Cheek	18900	1880.0	-0.040	0.221	100	1.00	21.25	21.50	1.059	0.234
		Right Tilt	18900	1880.0	-0.100	0.553	100	1.00	21.25	21.50	1.059	0.586
	50%RB	Left Cheek	18900	1880.0	0.120	0.095	100	1.00	21.25	21.50	1.059	0.101
		Left Tilt	18900	1880.0	0.020	0.203	100	1.00	21.25	21.50	1.059	0.215
		Right Cheek	18900	1880.0	-0.070	0.218	100	1.00	21.25	21.50	1.059	0.231
		Right Tilt	18900	1880.0	0.150	0.551	100	1.00	21.25	21.50	1.059	0.584
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 2 (BW: 20MHz)	1RB	Front	18900	1880.0	0.040	0.103	100	1.00	21.25	21.50	1.059	0.109
		Back	18900	1880.0	-0.170	0.121	100	1.00	21.25	21.50	1.059	0.128
		Left	18900	1880.0	0.040	0.051	100	1.00	21.25	21.50	1.059	0.054
		right	18900	1880.0	-0.100	0.019	100	1.00	21.25	21.50	1.059	0.020
		Top	18900	1880.0	0.070	0.065	100	1.00	21.25	21.50	1.059	0.069
		Bottom	18900	1880.0	0.120	0.002	100	1.00	21.25	21.50	1.059	0.002
	50%RB	Front	18900	1880.0	0.070	0.102	100	1.00	21.25	21.50	1.059	0.108
		Back	18900	1880.0	0.120	0.118	100	1.00	21.25	21.50	1.059	0.125
		Left	18900	1880.0	-0.030	0.050	100	1.00	21.25	21.50	1.059	0.053
		right	18900	1880.0	0.140	0.021	100	1.00	21.25	21.50	1.059	0.022
		Top	18900	1880.0	0.040	0.066	100	1.00	21.25	21.50	1.059	0.070
		Bottom	18900	1880.0	-0.060	0.002	100	1.00	21.25	21.50	1.059	0.002

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 4 (BW: 20MHz)	1RB	Left Cheek	20350	1750.0	-0.110	0.052	100	1.00	21.47	21.50	1.007	0.052
		Left Tilt	20350	1750.0	0.160	0.046	100	1.00	21.47	21.50	1.007	0.046
		Right Cheek	20350	1750.0	0.050	0.064	100	1.00	21.47	21.50	1.007	0.064
		Right Tilt	20350	1750.0	-0.090	0.059	100	1.00	21.47	21.50	1.007	0.059
	50%RB	Left Cheek	20350	1750.0	0.030	0.050	100	1.00	21.47	21.50	1.007	0.050
		Left Tilt	20350	1750.0	-0.140	0.044	100	1.00	21.47	21.50	1.007	0.044
		Right Cheek	20350	1750.0	0.060	0.066	100	1.00	21.47	21.50	1.007	0.066
		Right Tilt	20350	1750.0	0.080	0.055	100	1.00	21.47	21.50	1.007	0.055
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 4 (BW: 20MHz)	1RB	Front	20350	1750.0	-0.030	0.343	100	1.00	21.47	21.50	1.007	0.345
		Back	20350	1750.0	-0.180	0.407	100	1.00	21.47	21.50	1.007	0.410
		Left	20350	1750.0	0.150	0.482	100	1.00	21.47	21.50	1.007	0.485
		right	20350	1750.0	0.060	0.401	100	1.00	21.47	21.50	1.007	0.404
		Top	20350	1750.0	-0.090	0.025	100	1.00	21.47	21.50	1.007	0.025
		Bottom	20350	1750.0	-0.020	0.763	100	1.00	21.47	21.50	1.007	0.768
	50%RB	Front	20350	1750.0	0.020	0.331	100	1.00	21.47	21.50	1.007	0.333
		Back	20350	1750.0	-0.010	0.403	100	1.00	21.47	21.50	1.007	0.406
		Left	20350	1750.0	0.080	0.485	100	1.00	21.47	21.50	1.007	0.488
		right	20350	1750.0	0.020	0.410	100	1.00	21.47	21.50	1.007	0.413
		Top	20350	1750.0	-0.030	0.022	100	1.00	21.47	21.50	1.007	0.022
		Bottom	20350	1750.0	-0.140	0.741	100	1.00	21.47	21.50	1.007	0.746

ANT2:

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 4 (BW: 20MHz)	1RB	Left Cheek	20350	1750.0	-0.190	0.089	100	1.00	21.47	21.50	1.007	0.090
		Left Tilt	20350	1750.0	0.010	0.268	100	1.00	21.47	21.50	1.007	0.270
		Right Cheek	20350	1750.0	0.160	0.293	100	1.00	21.47	21.50	1.007	0.295
		Right Tilt	20350	1750.0	-0.050	0.551	100	1.00	21.47	21.50	1.007	0.555
	50%RB	Left Cheek	20350	1750.0	0.020	0.090	100	1.00	21.47	21.50	1.007	0.091
		Left Tilt	20350	1750.0	-0.170	0.266	100	1.00	21.47	21.50	1.007	0.268
		Right Cheek	20350	1750.0	0.080	0.294	100	1.00	21.47	21.50	1.007	0.296
		Right Tilt	20350	1750.0	0.060	0.549	100	1.00	21.47	21.50	1.007	0.553
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 4 (BW: 20MHz)	1RB	Front	20350	1750.0	0.010	0.182	100	1.00	21.47	21.50	1.007	0.183
		Back	20350	1750.0	-0.030	0.234	100	1.00	21.47	21.50	1.007	0.236
		Left	20350	1750.0	0.140	0.175	100	1.00	21.47	21.50	1.007	0.176
		right	20350	1750.0	-0.090	0.074	100	1.00	21.47	21.50	1.007	0.075
		Top	20350	1750.0	0.010	0.209	100	1.00	21.47	21.50	1.007	0.210
		Bottom	20350	1750.0	0.100	0.002	100	1.00	21.47	21.50	1.007	0.002
	50%RB	Front	20350	1750.0	0.050	0.179	100	1.00	21.47	21.50	1.007	0.180
		Back	20350	1750.0	-0.090	0.235	100	1.00	21.47	21.50	1.007	0.237
		Left	20350	1750.0	0.130	0.173	100	1.00	21.47	21.50	1.007	0.174
		right	20350	1750.0	0.180	0.076	100	1.00	21.47	21.50	1.007	0.077
		Top	20350	1750.0	-0.010	0.206	100	1.00	21.47	21.50	1.007	0.207
		Bottom	20350	1750.0	0.020	0.002	100	1.00	21.47	21.50	1.007	0.002

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 5 (BW: 10MHz)	1RB	Left Cheek	20600	844.0	-0.030	0.138	100	1.00	22.99	23.00	1.002	0.138
		Left Tilt	20600	844.0	0.110	0.068	100	1.00	22.99	23.00	1.002	0.068
		Right Cheek	20600	844.0	0.060	0.143	100	1.00	22.99	23.00	1.002	0.143
		Right Tilt	20600	844.0	-0.060	0.071	100	1.00	22.99	23.00	1.002	0.071
	50%RB	Left Cheek	20600	844.0	0.050	0.130	100	1.00	22.99	23.00	1.002	0.130
		Left Tilt	20600	844.0	-0.120	0.064	100	1.00	22.99	23.00	1.002	0.064
		Right Cheek	20600	844.0	0.090	0.139	100	1.00	22.99	23.00	1.002	0.139
		Right Tilt	20600	844.0	0.130	0.068	100	1.00	22.99	23.00	1.002	0.068
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 5 (BW: 10MHz)	1RB	Front	20600	844.0	-0.020	0.388	100	1.00	22.99	23.00	1.002	0.389
		Back	20600	844.0	-0.130	0.428	100	1.00	22.99	23.00	1.002	0.429
		Left	20600	844.0	0.060	0.416	100	1.00	22.99	23.00	1.002	0.417
		Right	20600	844.0	0.030	0.360	100	1.00	22.99	23.00	1.002	0.361
		Top	20600	844.0	0.110	0.015	100	1.00	22.99	23.00	1.002	0.015
		Bottom	20600	844.0	0.000	0.357	100	1.00	22.99	23.00	1.002	0.358
	50%RB	Front	20600	844.0	0.060	0.375	100	1.00	22.99	23.00	1.002	0.376
		Back	20600	844.0	0.010	0.429	100	1.00	22.99	23.00	1.002	0.430
		Left	20600	844.0	-0.080	0.414	100	1.00	22.99	23.00	1.002	0.415
		Right	20600	844.0	0.060	0.382	100	1.00	22.99	23.00	1.002	0.383
		Top	20600	844.0	0.180	0.018	100	1.00	22.99	23.00	1.002	0.018
		Bottom	20600	844.0	0.050	0.352	100	1.00	22.99	23.00	1.002	0.353

ANT2:

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 5 (BW: 10MHz)	1RB	Left Cheek	20600	844.0	0.000	0.102	100	1.00	22.99	23.00	1.002	0.102
		Left Tilt	20600	844.0	0.170	0.417	100	1.00	22.99	23.00	1.002	0.418
		Right Cheek	20600	844.0	-0.020	0.527	100	1.00	22.99	23.00	1.002	0.528
		Right Tilt	20600	844.0	-0.070	0.748	100	1.00	22.99	23.00	1.002	0.750
	50%RB	Left Cheek	20600	844.0	0.070	0.113	100	1.00	22.99	23.00	1.002	0.113
		Left Tilt	20600	844.0	-0.120	0.442	100	1.00	22.99	23.00	1.002	0.443
		Right Cheek	20600	844.0	0.030	0.566	100	1.00	22.99	23.00	1.002	0.567
		Right Tilt	20600	844.0	0.110	0.960	100	1.00	22.99	23.00	1.002	0.962
Band 5 (BW: 10MHz)	1RB	Right Tilt	20600	844.0	-0.070	0.951	100	1.00	22.99	23.00	1.002	0.953
		Front	20600	844.0	0.060	0.133	100	1.00	22.99	23.00	1.002	0.133
		Back	20600	844.0	-0.050	0.185	100	1.00	22.99	23.00	1.002	0.185
		Left	20600	844.0	0.100	0.027	100	1.00	22.99	23.00	1.002	0.027
		Right	20600	844.0	-0.030	0.008	100	1.00	22.99	23.00	1.002	0.008
		Top	20600	844.0	-0.180	0.032	100	1.00	22.99	23.00	1.002	0.032
	50%RB	Bottom	20600	844.0	0.140	0.002	100	1.00	22.99	23.00	1.002	0.002
		Front	20600	844.0	-0.110	0.130	100	1.00	22.99	23.00	1.002	0.130
		Back	20600	844.0	0.170	0.182	100	1.00	22.99	23.00	1.002	0.182
		Left	20600	844.0	0.020	0.026	100	1.00	22.99	23.00	1.002	0.026
		Right	20600	844.0	0.100	0.010	100	1.00	22.99	23.00	1.002	0.010
		Top	20600	844.0	0.020	0.035	100	1.00	22.99	23.00	1.002	0.035
Band 5 (BW: 10MHz)	1RB	Bottom	20600	844.0	-0.120	0.002	100	1.00	22.99	23.00	1.002	0.002
		Front	20600	844.0	-0.110	0.130	100	1.00	22.99	23.00	1.002	0.130
		Back	20600	844.0	0.170	0.182	100	1.00	22.99	23.00	1.002	0.182
		Left	20600	844.0	0.020	0.026	100	1.00	22.99	23.00	1.002	0.026
		Right	20600	844.0	0.100	0.010	100	1.00	22.99	23.00	1.002	0.010
		Top	20600	844.0	0.020	0.035	100	1.00	22.99	23.00	1.002	0.035
	50%RB	Bottom	20600	844.0	-0.120	0.002	100	1.00	22.99	23.00	1.002	0.002
		Front	20600	844.0	-0.110	0.130	100	1.00	22.99	23.00	1.002	0.130
		Back	20600	844.0	0.170	0.182	100	1.00	22.99	23.00	1.002	0.182
		Left	20600	844.0	0.020	0.026	100	1.00	22.99	23.00	1.002	0.026
		Right	20600	844.0	0.100	0.010	100	1.00	22.99	23.00	1.002	0.010
		Top	20600	844.0	0.020	0.035	100	1.00	22.99	23.00	1.002	0.035

Band	Ch.	EUT Position	Measure SAR(W/kg)		
			Original	Repeated	SAR ratio
LTE Band 5	20600	Right Tilt	0.960	0.951	1.01

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

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 7 (BW: 20MHz)	1RB	Left Cheek	20775	2502.5	0.080	0.038	100	1.00	22.00	22.50	1.122	0.043
		Left Tilt	20775	2502.5	0.010	0.107	100	1.00	22.00	22.50	1.122	0.120
		Right Cheek	20775	2502.5	-0.070	0.041	100	1.00	22.00	22.50	1.122	0.046
		Right Tilt	20775	2502.5	-0.060	0.109	100	1.00	22.00	22.50	1.122	0.122
	50%RB	Left Cheek	20775	2502.5	0.010	0.036	100	1.00	22.00	22.50	1.122	0.040
		Left Tilt	20775	2502.5	-0.080	0.105	100	1.00	22.00	22.50	1.122	0.118
		Right Cheek	20775	2502.5	0.110	0.042	100	1.00	22.00	22.50	1.122	0.047
		Right Tilt	20775	2502.5	0.030	0.108	100	1.00	22.00	22.50	1.122	0.121
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 7 (BW: 20MHz)	1RB	Front	20775	2502.5	-0.070	0.331	100	1.00	22.00	22.50	1.122	0.371
		Back	20775	2502.5	0.000	0.566	100	1.00	22.00	22.50	1.122	0.635
		Left	20775	2502.5	0.030	0.519	100	1.00	22.00	22.50	1.122	0.582
		Right	20775	2502.5	0.130	0.437	100	1.00	22.00	22.50	1.122	0.490
		Top	20775	2502.5	0.050	0.035	100	1.00	22.00	22.50	1.122	0.039
		Bottom	20775	2502.5	0.030	0.696	100	1.00	22.00	22.50	1.122	0.781
	50%RB	Front	20775	2502.5	0.010	0.322	100	1.00	22.00	22.50	1.122	0.361
		Back	20775	2502.5	-0.110	0.561	100	1.00	22.00	22.50	1.122	0.629
		Left	20775	2502.5	0.040	0.522	100	1.00	22.00	22.50	1.122	0.586
		Right	20775	2502.5	0.020	0.430	100	1.00	22.00	22.50	1.122	0.482
		Top	20775	2502.5	0.060	0.033	100	1.00	22.00	22.50	1.122	0.037
		Bottom	20775	2502.5	0.070	0.684	100	1.00	22.00	22.50	1.122	0.767

ANT2:

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 7 (BW: 20MHz)	1RB	Left Cheek	20775	2502.5	-0.020	0.266	100	1.00	22.00	22.50	1.122	0.298
		Left Tilt	20775	2502.5	0.000	0.510	100	1.00	22.00	22.50	1.122	0.572
		Right Cheek	20775	2502.5	-0.080	0.472	100	1.00	22.00	22.50	1.122	0.530
		Right Tilt	20775	2502.5	0.000	0.812	100	1.00	22.00	22.50	1.122	0.911
		Right Tilt	20775	2502.5	-0.110	0.805	100	1.00	22.00	22.50	1.122	0.903
	50%RB	Left Cheek	20775	2502.5	-0.070	0.264	100	1.00	22.00	22.50	1.122	0.296
		Left Tilt	20775	2502.5	0.180	0.511	100	1.00	22.00	22.50	1.122	0.573
		Right Cheek	20775	2502.5	0.030	0.469	100	1.00	22.00	22.50	1.122	0.526
		Right Tilt	20775	2502.5	0.140	0.806	100	1.00	22.00	22.50	1.122	0.904
		Right Tilt	20775	2502.5	-0.030	0.792	100	1.00	22.00	22.50	1.122	0.889
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 7 (BW: 20MHz)	1RB	Front	20775	2502.5	0.000	0.338	100	1.00	22.00	22.50	1.122	0.379
		Back	20775	2502.5	-0.030	0.420	100	1.00	22.00	22.50	1.122	0.471
		Left	20775	2502.5	-0.010	0.161	100	1.00	22.00	22.50	1.122	0.181
		Right	20775	2502.5	0.110	0.063	100	1.00	22.00	22.50	1.122	0.071
		Top	20775	2502.5	-0.010	0.214	100	1.00	22.00	22.50	1.122	0.240
		Bottom	20775	2502.5	0.080	0.002	100	1.00	22.00	22.50	1.122	0.002
	50%RB	Front	20775	2502.5	-0.040	0.341	100	1.00	22.00	22.50	1.122	0.383
		Back	20775	2502.5	0.110	0.417	100	1.00	22.00	22.50	1.122	0.468
		Left	20775	2502.5	0.050	0.163	100	1.00	22.00	22.50	1.122	0.183
		Right	20775	2502.5	0.110	0.061	100	1.00	22.00	22.50	1.122	0.068
		Top	20775	2502.5	0.010	0.211	100	1.00	22.00	22.50	1.122	0.237
		Bottom	20775	2502.5	-0.040	0.004	100	1.00	22.00	22.50	1.122	0.004

Band	Ch.	EUT Position	Measure SAR(W/kg)		
			Original	Repeated	SAR ratio
LTE Band 7	20775	Right Tilt	0.812	0.805	1.01
		Right Tilt	0.806	0.792	1.02

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

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 12 (BW: 10MHz)	1RB	Left Cheek	23095	707.5	-0.050	0.019	100	1.00	21.74	22.00	1.062	0.020
		Left Tilt	23095	707.5	0.020	0.014	100	1.00	21.74	22.00	1.062	0.015
		Right Cheek	23095	707.5	0.060	0.068	100	1.00	21.74	22.00	1.062	0.072
		Right Tilt	23095	707.5	-0.040	0.036	100	1.00	21.74	22.00	1.062	0.038
	50%RB	Left Cheek	23095	707.5	0.080	0.022	100	1.00	21.74	22.00	1.062	0.023
		Left Tilt	23095	707.5	-0.040	0.013	100	1.00	21.74	22.00	1.062	0.014
		Right Cheek	23095	707.5	0.190	0.064	100	1.00	21.74	22.00	1.062	0.068
		Right Tilt	23095	707.5	0.020	0.039	100	1.00	21.74	22.00	1.062	0.041
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 12 (BW: 10MHz)	1RB	Front	23095	707.5	0.060	0.271	100	1.00	21.74	22.00	1.062	0.288
		Back	23095	707.5	-0.060	0.358	100	1.00	21.74	22.00	1.062	0.380
		Left	23095	707.5	0.140	0.296	100	1.00	21.74	22.00	1.062	0.314
		Right	23095	707.5	-0.050	0.242	100	1.00	21.74	22.00	1.062	0.257
		Top	23095	707.5	0.060	0.041	100	1.00	21.74	22.00	1.062	0.044
		Bottom	23095	707.5	-0.030	0.152	100	1.00	21.74	22.00	1.062	0.161
	50%RB	Front	23095	707.5	0.080	0.279	100	1.00	21.74	22.00	1.062	0.296
		Back	23095	707.5	-0.070	0.355	100	1.00	21.74	22.00	1.062	0.377
		Left	23095	707.5	0.040	0.290	100	1.00	21.74	22.00	1.062	0.308
		Right	23095	707.5	0.090	0.235	100	1.00	21.74	22.00	1.062	0.249
		Top	23095	707.5	0.020	0.036	100	1.00	21.74	22.00	1.062	0.038
		Bottom	23095	707.5	0.150	0.148	100	1.00	21.74	22.00	1.062	0.157

ANT2:

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 12 (BW: 10MHz)	1RB	Left Cheek	23095	707.5	-0.010	0.046	100	1.00	21.74	22.00	1.062	0.049
		Left Tilt	23095	707.5	-0.190	0.071	100	1.00	21.74	22.00	1.062	0.075
		Right Cheek	23095	707.5	0.110	0.264	100	1.00	21.74	22.00	1.062	0.280
		Right Tilt	23095	707.5	-0.040	0.334	100	1.00	21.74	22.00	1.062	0.355
	50%RB	Left Cheek	23095	707.5	0.090	0.044	100	1.00	21.74	22.00	1.062	0.047
		Left Tilt	23095	707.5	0.110	0.065	100	1.00	21.74	22.00	1.062	0.069
		Right Cheek	23095	707.5	-0.030	0.257	100	1.00	21.74	22.00	1.062	0.273
		Right Tilt	23095	707.5	0.010	0.326	100	1.00	21.74	22.00	1.062	0.346
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 12 (BW: 10MHz)	1RB	Front	23095	707.5	0.140	0.037	100	1.00	21.74	22.00	1.062	0.039
		Back	23095	707.5	-0.110	0.053	100	1.00	21.74	22.00	1.062	0.056
		Left	23095	707.5	-0.060	0.007	100	1.00	21.74	22.00	1.062	0.007
		Right	23095	707.5	0.140	0.003	100	1.00	21.74	22.00	1.062	0.003
		Top	23095	707.5	0.120	0.011	100	1.00	21.74	22.00	1.062	0.012
		Bottom	23095	707.5	0.000	0.002	100	1.00	21.74	22.00	1.062	0.002
	50%RB	Front	23095	707.5	-0.040	0.034	100	1.00	21.74	22.00	1.062	0.036
		Back	23095	707.5	0.120	0.048	100	1.00	21.74	22.00	1.062	0.051
		Left	23095	707.5	0.190	0.009	100	1.00	21.74	22.00	1.062	0.010
		Right	23095	707.5	0.000	0.004	100	1.00	21.74	22.00	1.062	0.004
		Top	23095	707.5	-0.010	0.013	100	1.00	21.74	22.00	1.062	0.014
		Bottom	23095	707.5	0.050	0.002	100	1.00	21.74	22.00	1.062	0.002

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Left Cheek	23790	710.0	-0.060	0.020	100	1.00	21.87	22.00	1.030	0.021
		Left Tilt	23790	710.0	0.020	0.012	100	1.00	21.87	22.00	1.030	0.012
		Right Cheek	23790	710.0	0.030	0.070	100	1.00	21.87	22.00	1.030	0.072
		Right Tilt	23790	710.0	-0.040	0.038	100	1.00	21.87	22.00	1.030	0.039
	50%RB	Left Cheek	23790	710.0	-0.010	0.024	100	1.00	21.87	22.00	1.030	0.025
		Left Tilt	23790	710.0	-0.090	0.014	100	1.00	21.87	22.00	1.030	0.014
		Right Cheek	23790	710.0	0.070	0.068	100	1.00	21.87	22.00	1.030	0.070
		Right Tilt	23790	710.0	0.030	0.035	100	1.00	21.87	22.00	1.030	0.036
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Front	23790	710.0	0.150	0.089	100	1.00	21.87	22.00	1.030	0.092
		Back	23790	710.0	-0.090	0.112	100	1.00	21.87	22.00	1.030	0.115
		Left	23790	710.0	0.090	0.078	100	1.00	21.87	22.00	1.030	0.080
		Right	23790	710.0	-0.060	0.065	100	1.00	21.87	22.00	1.030	0.067
		Top	23790	710.0	0.140	0.015	100	1.00	21.87	22.00	1.030	0.015
		Bottom	23790	710.0	-0.090	0.163	100	1.00	21.87	22.00	1.030	0.168
	50%RB	Front	23790	710.0	0.030	0.084	100	1.00	21.87	22.00	1.030	0.087
		Back	23790	710.0	-0.060	0.106	100	1.00	21.87	22.00	1.030	0.109
		Left	23790	710.0	-0.150	0.082	100	1.00	21.87	22.00	1.030	0.084
		Right	23790	710.0	0.010	0.066	100	1.00	21.87	22.00	1.030	0.068
		Top	23790	710.0	0.012	0.014	100	1.00	21.87	22.00	1.030	0.014
		Bottom	23790	710.0	0.030	0.160	100	1.00	21.87	22.00	1.030	0.165

ANT2:

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Left Cheek	23790	710.0	-0.040	0.043	100	1.00	21.87	22.00	1.030	0.044
		Left Tilt	23790	710.0	-0.050	0.069	100	1.00	21.87	22.00	1.030	0.071
		Right Cheek	23790	710.0	0.130	0.181	100	1.00	21.87	22.00	1.030	0.186
		Right Tilt	23790	710.0	0.100	0.320	100	1.00	21.87	22.00	1.030	0.330
	50%RB	Left Cheek	23790	710.0	0.070	0.044	100	1.00	21.87	22.00	1.030	0.045
		Left Tilt	23790	710.0	0.010	0.066	100	1.00	21.87	22.00	1.030	0.068
		Right Cheek	23790	710.0	-0.120	0.179	100	1.00	21.87	22.00	1.030	0.184
		Right Tilt	23790	710.0	0.050	0.313	100	1.00	21.87	22.00	1.030	0.323
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 17 (BW: 10MHz)	1RB	Front	23790	710.0	0.010	0.040	100	1.00	21.87	22.00	1.030	0.041
		Back	23790	710.0	-0.060	0.050	100	1.00	21.87	22.00	1.030	0.052
		Left	23790	710.0	-0.080	0.007	100	1.00	21.87	22.00	1.030	0.007
		Right	23790	710.0	0.110	0.004	100	1.00	21.87	22.00	1.030	0.004
		Top	23790	710.0	-0.060	0.013	100	1.00	21.87	22.00	1.030	0.013
		Bottom	23790	710.0	0.190	0.002	100	1.00	21.87	22.00	1.030	0.002
	50%RB	Front	23790	710.0	0.110	0.037	100	1.00	21.87	22.00	1.030	0.038
		Back	23790	710.0	0.060	0.053	100	1.00	21.87	22.00	1.030	0.055
		Left	23790	710.0	-0.010	0.007	100	1.00	21.87	22.00	1.030	0.007
		Right	23790	710.0	0.020	0.005	100	1.00	21.87	22.00	1.030	0.005
		Top	23790	710.0	0.070	0.016	100	1.00	21.87	22.00	1.030	0.016
		Bottom	23790	710.0	0.010	0.002	100	1.00	21.87	22.00	1.030	0.002

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Left Cheek	38000	2595.0	0.070	0.007	100	1.00	20.84	21.00	1.038	0.007
		Left Tilt	38000	2595.0	-0.150	0.019	100	1.00	20.84	21.00	1.038	0.020
		Right Cheek	38000	2595.0	-0.090	0.011	100	1.00	20.84	21.00	1.038	0.011
		Right Tilt	38000	2595.0	0.010	0.039	100	1.00	20.84	21.00	1.038	0.040
	50%RB	Left Cheek	38000	2595.0	0.060	0.008	100	1.00	20.84	21.00	1.038	0.008
		Left Tilt	38000	2595.0	-0.170	0.021	100	1.00	20.84	21.00	1.038	0.022
		Right Cheek	38000	2595.0	0.080	0.010	100	1.00	20.84	21.00	1.038	0.010
		Right Tilt	38000	2595.0	-0.010	0.036	100	1.00	20.84	21.00	1.038	0.037
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Front	38000	2595.0	-0.130	0.168	100	1.00	20.84	21.00	1.038	0.174
		Back	38000	2595.0	-0.050	0.201	100	1.00	20.84	21.00	1.038	0.209
		Left	38000	2595.0	0.030	0.179	100	1.00	20.84	21.00	1.038	0.186
		Right	38000	2595.0	0.110	0.145	100	1.00	20.84	21.00	1.038	0.150
		Top	38000	2595.0	-0.040	0.023	100	1.00	20.84	21.00	1.038	0.024
		Bottom	38000	2595.0	0.090	0.253	100	1.00	20.84	21.00	1.038	0.262
	50%RB	Front	38000	2595.0	0.020	0.164	100	1.00	20.84	21.00	1.038	0.170
		Back	38000	2595.0	0.040	0.195	100	1.00	20.84	21.00	1.038	0.202
		Left	38000	2595.0	-0.060	0.175	100	1.00	20.84	21.00	1.038	0.182
		Right	38000	2595.0	0.140	0.140	100	1.00	20.84	21.00	1.038	0.145
		Top	38000	2595.0	0.020	0.019	100	1.00	20.84	21.00	1.038	0.020
		Bottom	38000	2595.0	0.030	0.248	100	1.00	20.84	21.00	1.038	0.257

ANT2:

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Left Cheek	38000	2595.0	-0.050	0.108	100	1.00	20.84	21.00	1.038	0.112
		Left Tilt	38000	2595.0	0.040	0.225	100	1.00	20.84	21.00	1.038	0.233
		Right Cheek	38000	2595.0	-0.120	0.185	100	1.00	20.84	21.00	1.038	0.192
		Right Tilt	38000	2595.0	0.040	0.436	100	1.00	20.84	21.00	1.038	0.452
	50%RB	Left Cheek	38000	2595.0	0.070	0.105	100	1.00	20.84	21.00	1.038	0.109
		Left Tilt	38000	2595.0	0.120	0.218	100	1.00	20.84	21.00	1.038	0.226
		Right Cheek	38000	2595.0	0.020	0.182	100	1.00	20.84	21.00	1.038	0.189
		Right Tilt	38000	2595.0	-0.050	0.429	100	1.00	20.84	21.00	1.038	0.445
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 38 (BW: 20MHz)	1RB	Front	38000	2595.0	0.180	0.097	100	1.00	20.84	21.00	1.038	0.101
		Back	38000	2595.0	-0.020	0.122	100	1.00	20.84	21.00	1.038	0.127
		Left	38000	2595.0	-0.060	0.118	100	1.00	20.84	21.00	1.038	0.122
		Right	38000	2595.0	0.020	0.045	100	1.00	20.84	21.00	1.038	0.047
		Top	38000	2595.0	0.120	0.060	100	1.00	20.84	21.00	1.038	0.062
		Bottom	38000	2595.0	-0.040	0.002	100	1.00	20.84	21.00	1.038	0.002
	50%RB	Front	38000	2595.0	-0.090	0.094	100	1.00	20.84	21.00	1.038	0.098
		Back	38000	2595.0	0.140	0.118	100	1.00	20.84	21.00	1.038	0.122
		Left	38000	2595.0	0.050	0.117	100	1.00	20.84	21.00	1.038	0.121
		Right	38000	2595.0	-0.010	0.046	100	1.00	20.84	21.00	1.038	0.048
		Top	38000	2595.0	0.090	0.063	100	1.00	20.84	21.00	1.038	0.065
		Bottom	38000	2595.0	-0.110	0.003	100	1.00	20.84	21.00	1.038	0.003

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	1RB	Left Cheek	40620	2593.0	0.010	0.006	100	1.00	20.67	21.00	1.079	0.006
		Left Tilt	40620	2593.0	-0.160	0.019	100	1.00	20.67	21.00	1.079	0.020
		Right Cheek	40620	2593.0	-0.070	0.013	100	1.00	20.67	21.00	1.079	0.014
		Right Tilt	40620	2593.0	-0.100	0.040	100	1.00	20.67	21.00	1.079	0.043
		Right Tilt	39750	2506.0	0.120	0.051	100	1.00	20.67	21.00	1.079	0.055
		Right Tilt	40185	2549.5	-0.110	0.054	100	1.00	20.67	21.00	1.079	0.058
		Right Tilt	41055	2636.5	-0.080	0.033	100	1.00	20.67	21.00	1.079	0.036
		Right Tilt	41490	2680.0	0.100	0.032	100	1.00	20.67	21.00	1.079	0.035
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	1RB	Front	40620	2593.0	-0.170	0.171	100	1.00	20.67	21.00	1.079	0.184
		Back	40620	2593.0	0.040	0.202	100	1.00	20.67	21.00	1.079	0.218
		Left	40620	2593.0	0.000	0.193	100	1.00	20.67	21.00	1.079	0.208
		Right	40620	2593.0	0.060	0.169	100	1.00	20.67	21.00	1.079	0.182
		Top	40620	2593.0	-0.130	0.014	100	1.00	20.67	21.00	1.079	0.015
		Bottom	40620	2593.0	0.030	0.256	100	1.00	20.67	21.00	1.079	0.276
		Bottom	39750	2506.0	0.120	0.231	100	1.00	20.67	21.00	1.079	0.249
		Bottom	40185	2549.5	0.090	0.239	100	1.00	20.67	21.00	1.079	0.258
		Bottom	41055	2636.5	0.070	0.262	100	1.00	20.67	21.00	1.079	0.283
		Bottom	41490	2680.0	0.060	0.265	100	1.00	20.67	21.00	1.079	0.286

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	50%RB	Left Cheek	40620	2593.0	-0.030	0.005	100	1.00	20.67	21.00	1.079	0.005
		Left Tilt	40620	2593.0	0.140	0.020	100	1.00	20.67	21.00	1.079	0.022
		Right Cheek	40620	2593.0	0.050	0.012	100	1.00	20.67	21.00	1.079	0.013
		Right Tilt	40620	2593.0	-0.030	0.041	100	1.00	20.67	21.00	1.079	0.044
		Right Tilt	39750	2506.0	0.170	0.050	100	1.00	20.67	21.00	1.079	0.054
		Right Tilt	40185	2549.5	0.050	0.056	100	1.00	20.67	21.00	1.079	0.060
		Right Tilt	41055	2636.5	-0.080	0.036	100	1.00	20.67	21.00	1.079	0.039
		Right Tilt	41490	2680.0	-0.060	0.034	100	1.00	20.67	21.00	1.079	0.037
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	50%RB	Front	40620	2593.0	0.010	0.175	100	1.00	20.67	21.00	1.079	0.189
		Back	40620	2593.0	0.050	0.209	100	1.00	20.67	21.00	1.079	0.225
		Left	40620	2593.0	-0.110	0.190	100	1.00	20.67	21.00	1.079	0.205
		Right	40620	2593.0	0.040	0.165	100	1.00	20.67	21.00	1.079	0.178
		Top	40620	2593.0	0.030	0.016	100	1.00	20.67	21.00	1.079	0.017
		Bottom	40620	2593.0	0.090	0.255	100	1.00	20.67	21.00	1.079	0.275
		Bottom	39750	2506.0	-0.060	0.227	100	1.00	20.67	21.00	1.079	0.245
		Bottom	40185	2549.5	0.050	0.236	100	1.00	20.67	21.00	1.079	0.255
		Bottom	41055	2636.5	0.000	0.260	100	1.00	20.67	21.00	1.079	0.281
		Bottom	41490	2680.0	0.030	0.264	100	1.00	20.67	21.00	1.079	0.285

ANT2:

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	1RB	Left Cheek	40620	2593.0	-0.070	0.109	100	1.00	20.67	21.00	1.079	0.118
		Left Tilt	40620	2593.0	0.150	0.161	100	1.00	20.67	21.00	1.079	0.174
		Right Cheek	40620	2593.0	-0.030	0.284	100	1.00	20.67	21.00	1.079	0.306
		Right Tilt	40620	2593.0	0.010	0.448	100	1.00	20.67	21.00	1.079	0.483
		Right Tilt	39750	2506.0	0.040	0.409	100	1.00	20.67	21.00	1.079	0.441
		Right Tilt	40185	2549.5	0.040	0.412	100	1.00	20.67	21.00	1.079	0.445
		Right Tilt	41055	2636.5	0.000	0.486	100	1.00	20.67	21.00	1.079	0.524
		Right Tilt	41490	2680.0	-0.040	0.494	100	1.00	20.67	21.00	1.079	0.533
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	1RB	Front	40620	2593.0	0.010	0.099	100	1.00	20.67	21.00	1.079	0.107
		Back	40620	2593.0	-0.050	0.120	100	1.00	20.67	21.00	1.079	0.129
		Left	40620	2593.0	0.010	0.118	100	1.00	20.67	21.00	1.079	0.127
		Right	40620	2593.0	-0.020	0.041	100	1.00	20.67	21.00	1.079	0.044
		Top	40620	2593.0	-0.060	0.078	100	1.00	20.67	21.00	1.079	0.084
		Bottom	40620	2593.0	0.140	0.002	100	1.00	20.67	21.00	1.079	0.002
		Back	39750	2506.0	0.020	0.136	100	1.00	20.67	21.00	1.079	0.147
		Back	40185	2549.5	-0.080	0.137	100	1.00	20.67	21.00	1.079	0.148
		Back	41055	2636.5	-0.100	0.119	100	1.00	20.67	21.00	1.079	0.128
		Back	41490	2680.0	0.000	0.120	100	1.00	20.67	21.00	1.079	0.129

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	50%RB	Left Cheek	40620	2593.0	0.030	0.104	100	1.00	20.67	21.00	1.079	0.112
		Left Tilt	40620	2593.0	-0.020	0.153	100	1.00	20.67	21.00	1.079	0.165
		Right Cheek	40620	2593.0	0.180	0.276	100	1.00	20.67	21.00	1.079	0.298
		Right Tilt	40620	2593.0	-0.060	0.445	100	1.00	20.67	21.00	1.079	0.480
		Right Tilt	39750	2506.0	0.120	0.406	100	1.00	20.67	21.00	1.079	0.438
		Right Tilt	40185	2549.5	0.000	0.408	100	1.00	20.67	21.00	1.079	0.440
		Right Tilt	41055	2636.5	0.050	0.482	100	1.00	20.67	21.00	1.079	0.520
		Right Tilt	41490	2680.0	0.070	0.490	100	1.00	20.67	21.00	1.079	0.529
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 41 (BW: 20MHz)	50%RB	Front	40620	2593.0	0.070	0.100	100	1.00	20.67	21.00	1.079	0.108
		Back	40620	2593.0	0.150	0.116	100	1.00	20.67	21.00	1.079	0.125
		Left	40620	2593.0	-0.030	0.114	100	1.00	20.67	21.00	1.079	0.123
		Right	40620	2593.0	-0.140	0.043	100	1.00	20.67	21.00	1.079	0.046
		Top	40620	2593.0	0.010	0.076	100	1.00	20.67	21.00	1.079	0.082
		Bottom	40620	2593.0	0.000	0.002	100	1.00	20.67	21.00	1.079	0.002
		Back	39750	2506.0	0.010	0.131	100	1.00	20.67	21.00	1.079	0.141
		Back	40185	2549.5	-0.110	0.135	100	1.00	20.67	21.00	1.079	0.146
		Back	41055	2636.5	-0.060	0.121	100	1.00	20.67	21.00	1.079	0.131
		Back	41490	2680.0	0.080	0.120	100	1.00	20.67	21.00	1.079	0.129

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 66 (BW: 20MHz)	1RB	Left Cheek	132022	1715.0	-0.010	0.088	100	1.00	21.29	21.50	1.050	0.092
		Left Tilt	132022	1715.0	0.040	0.042	100	1.00	21.29	21.50	1.050	0.044
		Right Cheek	132022	1715.0	0.010	0.065	100	1.00	21.29	21.50	1.050	0.068
		Right Tilt	132022	1715.0	-0.060	0.031	100	1.00	21.29	21.50	1.050	0.033
	50%RB	Left Cheek	132022	1715.0	0.110	0.087	100	1.00	21.29	21.50	1.050	0.091
		Left Tilt	132022	1715.0	-0.050	0.040	100	1.00	21.29	21.50	1.050	0.042
		Right Cheek	132022	1715.0	0.010	0.063	100	1.00	21.29	21.50	1.050	0.066
		Right Tilt	132022	1715.0	0.060	0.033	100	1.00	21.29	21.50	1.050	0.035
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 66 (BW: 20MHz)	1RB	Front	132022	1715.0	0.030	0.322	100	1.00	21.29	21.50	1.050	0.338
		Back	132022	1715.0	-0.140	0.380	100	1.00	21.29	21.50	1.050	0.399
		Left	132022	1715.0	0.060	0.271	100	1.00	21.29	21.50	1.050	0.284
		Right	132022	1715.0	0.110	0.240	100	1.00	21.29	21.50	1.050	0.252
		Top	132022	1715.0	0.010	0.056	100	1.00	21.29	21.50	1.050	0.059
		Bottom	132022	1715.0	-0.020	0.525	100	1.00	21.29	21.50	1.050	0.551
	50%RB	Front	132022	1715.0	0.160	0.316	100	1.00	21.29	21.50	1.050	0.332
		Back	132022	1715.0	-0.050	0.372	100	1.00	21.29	21.50	1.050	0.390
		Left	132022	1715.0	0.010	0.264	100	1.00	21.29	21.50	1.050	0.277
		Right	132022	1715.0	0.000	0.225	100	1.00	21.29	21.50	1.050	0.236
		Top	132022	1715.0	0.050	0.053	100	1.00	21.29	21.50	1.050	0.056
		Bottom	132022	1715.0	0.010	0.522	100	1.00	21.29	21.50	1.050	0.548

ANT2:

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 66 (BW: 20MHz)	1RB	Left Cheek	132022	1715.0	0.050	0.092	100	1.00	21.29	21.50	1.050	0.097
		Left Tilt	132022	1715.0	-0.150	0.211	100	1.00	21.29	21.50	1.050	0.221
		Right Cheek	132022	1715.0	0.090	0.285	100	1.00	21.29	21.50	1.050	0.299
		Right Tilt	132022	1715.0	0.000	0.571	100	1.00	21.29	21.50	1.050	0.599
	50%RB	Left Cheek	132022	1715.0	0.120	0.095	100	1.00	21.29	21.50	1.050	0.100
		Left Tilt	132022	1715.0	0.140	0.208	100	1.00	21.29	21.50	1.050	0.218
		Right Cheek	132022	1715.0	0.060	0.286	100	1.00	21.29	21.50	1.050	0.300
		Right Tilt	132022	1715.0	-0.080	0.568	100	1.00	21.29	21.50	1.050	0.596
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Band 66 (BW: 20MHz)	1RB	Front	132022	1715.0	0.010	0.176	100	1.00	21.29	21.50	1.050	0.185
		Back	132022	1715.0	-0.030	0.232	100	1.00	21.29	21.50	1.050	0.243
		Left	132022	1715.0	0.050	0.087	100	1.00	21.29	21.50	1.050	0.091
		Right	132022	1715.0	0.170	0.023	100	1.00	21.29	21.50	1.050	0.024
		Top	132022	1715.0	0.080	0.211	100	1.00	21.29	21.50	1.050	0.221
		Bottom	132022	1715.0	-0.060	0.002	100	1.00	21.29	21.50	1.050	0.002
	50%RB	Front	132022	1715.0	0.140	0.172	100	1.00	21.29	21.50	1.050	0.181
		Back	132022	1715.0	0.000	0.224	100	1.00	21.29	21.50	1.050	0.235
		Left	132022	1715.0	-0.030	0.083	100	1.00	21.29	21.50	1.050	0.087
		Right	132022	1715.0	0.170	0.022	100	1.00	21.29	21.50	1.050	0.023
		Top	132022	1715.0	-0.060	0.207	100	1.00	21.29	21.50	1.050	0.217
		Bottom	132022	1715.0	0.140	0.002	100	1.00	21.29	21.50	1.050	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)
2.4g (2.4~2.4835) 802.11ax20	Left Cheek	6	2437	0.070	0.102	100	1.00	22.02	22.50	1.117	0.114
	Left Tilt	6	2437	-0.180	0.113	100	1.00	22.02	22.50	1.117	0.126
	Right Cheek	6	2437	0.010	0.042	100	1.00	22.02	22.50	1.117	0.047
	Right Tilt	6	2437	-0.020	0.047	100	1.00	22.02	22.50	1.117	0.052
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
2.4g (2.4~2.4835) 802.11ax20	Front	6	2437	0.150	0.027	100	1.00	22.02	22.50	1.117	0.030
	Back	6	2437	-0.170	0.031	100	1.00	22.02	22.50	1.117	0.035
	Left	6	2437	0.010	0.010	100	1.00	22.02	22.50	1.117	0.011
	Right	6	2437	-0.130	0.021	100	1.00	22.02	22.50	1.117	0.023
	Top	6	2437	0.080	0.008	100	1.00	22.02	22.50	1.117	0.009
	Bottom	6	2437	0.170	0.002	100	1.00	22.02	22.50	1.117	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 5180-5240	Left Cheek	36	5180	0.030	0.056	100	1.00	20.93	21.00	1.016	0.057
	Left Tilt	36	5180	0.170	0.116	100	1.00	20.93	21.00	1.016	0.118
	Right Cheek	36	5180	0.140	0.032	100	1.00	20.93	21.00	1.016	0.033
	Right Tilt	36	5180	-0.080	0.074	100	1.00	20.93	21.00	1.016	0.075
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 5180-5240	Front	36	5180	0.070	0.023	100	1.00	20.93	21.00	1.016	0.023
	Back	36	5180	-0.190	0.028	100	1.00	20.93	21.00	1.016	0.028
	Left	36	5180	0.110	0.003	100	1.00	20.93	21.00	1.016	0.003
	Right	36	5180	0.000	0.002	100	1.00	20.93	21.00	1.016	0.002
	Top	36	5180	0.120	0.024	100	1.00	20.93	21.00	1.016	0.024
	Bottom	36	5180	-0.010	0.002	100	1.00	20.93	21.00	1.016	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 Band2 5260-5320	Left Cheek	52	5260	0.030	0.052	100	1.00	20.71	21.00	1.069	0.056
	Left Tilt	52	5260	-0.110	0.108	100	1.00	20.71	21.00	1.069	0.115
	Right Cheek	52	5260	0.160	0.040	100	1.00	20.71	21.00	1.069	0.043
	Right Tilt	52	5260	0.050	0.059	100	1.00	20.71	21.00	1.069	0.063
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 5260-5320	Front	52	5260	-0.090	0.004	100	1.00	20.71	21.00	1.069	0.004
	Back	52	5260	0.190	0.022	100	1.00	20.71	21.00	1.069	0.024
	Left	52	5260	0.070	0.003	100	1.00	20.71	21.00	1.069	0.003
	Right	52	5260	-0.080	0.002	100	1.00	20.71	21.00	1.069	0.002
	Top	52	5260	0.050	0.016	100	1.00	20.71	21.00	1.069	0.017
	Bottom	52	5260	0.120	0.002	100	1.00	20.71	21.00	1.069	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 5500-5700	Left Cheek	140	5700	-0.010	0.132	100	1.00	20.87	21.00	1.030	0.136
	Left Tilt	140	5700	-0.110	0.302	100	1.00	20.87	21.00	1.030	0.311
	Right Cheek	140	5700	0.130	0.088	100	1.00	20.87	21.00	1.030	0.091
	Right Tilt	140	5700	0.010	0.179	100	1.00	20.87	21.00	1.030	0.184
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 5500-5700	Front	140	5700	-0.060	0.171	100	1.00	20.87	21.00	1.030	0.176
	Back	140	5700	-0.010	0.359	100	1.00	20.87	21.00	1.030	0.370
	Left	140	5700	-0.010	0.071	100	1.00	20.87	21.00	1.030	0.073
	Right	140	5700	0.050	0.038	100	1.00	20.87	21.00	1.030	0.039
	Top	140	5700	-0.080	0.242	100	1.00	20.87	21.00	1.030	0.249
	Bottom	140	5700	0.120	0.010	100	1.00	20.87	21.00	1.030	0.010

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 5745-5825	Left Cheek	149	5745	0.020	0.118	100	1.00	21.55	22.00	1.109	0.131
	Left Tilt	149	5745	-0.190	0.278	100	1.00	21.55	22.00	1.109	0.308
	Right Cheek	149	5745	-0.020	0.092	100	1.00	21.55	22.00	1.109	0.102
	Right Tilt	149	5745	0.110	0.133	100	1.00	21.55	22.00	1.109	0.148
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 5745-5825	Front	149	5745	-0.030	0.171	100	1.00	21.55	22.00	1.109	0.190
	Back	149	5745	-0.090	0.438	100	1.00	21.55	22.00	1.109	0.486
	Left	149	5745	-0.020	0.118	100	1.00	21.55	22.00	1.109	0.131
	Right	149	5745	-0.050	0.045	100	1.00	21.55	22.00	1.109	0.050
	Top	149	5745	-0.040	0.266	100	1.00	21.55	22.00	1.109	0.295
	Bottom	149	5745	0.100	0.013	100	1.00	21.55	22.00	1.109	0.014

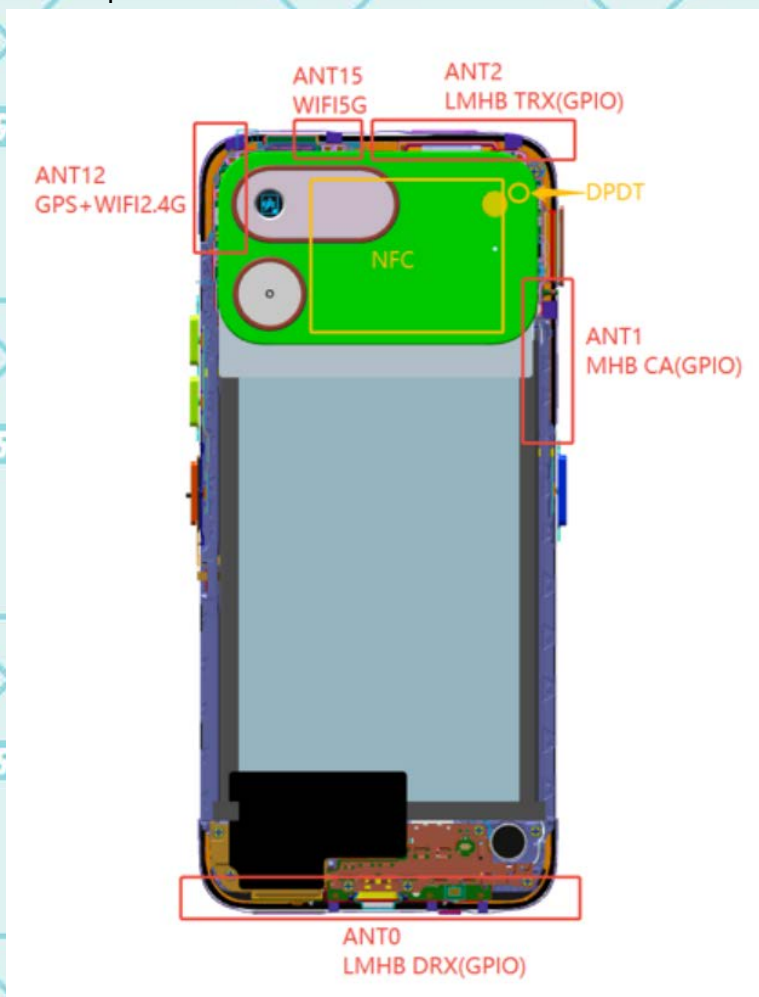
Mode	Position	Ch.	Freq. (MHz)	Power Drift (db)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)
Bluetooth	Left Cheek	39	2441	0.110	0.133	100	1.00	10.58	11.00	1.102	0.147
	Left Tilt	39	2441	-0.030	0.242	100	1.00	10.58	11.00	1.102	0.267
	Right Cheek	39	2441	-0.180	0.048	100	1.00	10.58	11.00	1.102	0.053
	Right Tilt	39	2441	0.050	0.078	100	1.00	10.58	11.00	1.102	0.086
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	-0.150	0.041	100	1.00	10.58	11.00	1.102	0.045
	Back	39	2441	-0.080	0.191	100	1.00	10.58	11.00	1.102	0.210
	Left	39	2441	-0.010	0.151	100	1.00	10.58	11.00	1.102	0.166
	Right	39	2441	0.080	0.133	100	1.00	10.58	11.00	1.102	0.147
	Top	39	2441	-0.120	0.179	100	1.00	10.58	11.00	1.102	0.197
	Bottom	39	2441	0.050	0.006	100	1.00	10.58	11.00	1.102	0.007

Note:

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

12 Multiple Transmitter Information

The SAR measurement positions of each side are as below:



< Rear Side >

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

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

12.1 Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities are as below:

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

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

12.1.1 SAR Summation Scenario

Head

Band	Test Position	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	Llimit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
GSM850 (voice)	Left Cheek	0.227	0.114	0.147	0.341	0.374	1.6
	Left Tilt	0.406	0.126	0.267	0.532	0.673	
	Right Cheek	0.472	0.047	0.053	0.519	0.525	
	Right Tilt	0.598	0.052	0.086	0.650	0.684	
	Left Cheek	0.169	0.114	0.147	0.283	0.316	
GSM1900 (voice)	Left Tilt	0.265	0.126	0.267	0.391	0.532	
	Right Cheek	0.305	0.047	0.053	0.352	0.358	
	Right Tilt	0.598	0.052	0.086	0.650	0.684	
	Left Cheek	0.176	0.114	0.147	0.290	0.323	
	Left Tilt	0.222	0.126	0.267	0.348	0.489	
WCDMA Band 2	Right Cheek	0.368	0.047	0.053	0.415	0.421	
	Right Tilt	0.524	0.052	0.086	0.576	0.610	
	Left Cheek	0.213	0.114	0.147	0.327	0.360	
WCDMA Band 4	Left Tilt	0.384	0.126	0.267	0.510	0.651	
	Right Cheek	0.505	0.047	0.053	0.552	0.558	
	Right Tilt	1.139	0.052	0.086	1.191	1.225	
	Right Tilt	1.120	0.052	0.086	1.172	1.206	
	Left Cheek	0.107	0.114	0.147	0.221	0.254	
WCDMA Band 5	Left Tilt	0.244	0.126	0.267	0.370	0.511	
	Right Cheek	0.312	0.047	0.053	0.359	0.365	
	Right Tilt	0.413	0.052	0.086	0.465	0.499	

Band	Test Position	Scaled SAR				WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN +BT Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 2 QPSK (20MHz)	Left Cheek	1RB	0.036	0.114	0.147	0.150	0.183	1.6
	Left Tilt		0.051	0.126	0.267	0.177	0.318	
	Right Cheek		0.021	0.047	0.053	0.068	0.074	
	Right Tilt		0.038	0.052	0.086	0.090	0.124	
	Left Cheek	50%RB	0.033	0.114	0.147	0.147	0.180	
	Left Tilt		0.053	0.126	0.267	0.179	0.320	
	Right Cheek		0.023	0.047	0.053	0.070	0.076	
	Right Tilt		0.035	0.052	0.086	0.087	0.121	
LTE Band 2 (ANT2) QPSK (20MHz)	Left Cheek	1RB	0.099	0.114	0.147	0.213	0.246	
	Left Tilt		0.216	0.126	0.267	0.342	0.483	
	Right Cheek		0.234	0.047	0.053	0.281	0.287	
	Right Tilt		0.586	0.052	0.086	0.638	0.672	
	Left Cheek	50%RB	0.101	0.114	0.147	0.215	0.248	
	Left Tilt		0.215	0.126	0.267	0.341	0.482	
	Right Cheek		0.231	0.047	0.053	0.278	0.284	
	Right Tilt		0.584	0.052	0.086	0.636	0.670	
LTE Band 4 QPSK (20MHz)	Left Cheek	1RB	0.052	0.114	0.147	0.166	0.199	
	Left Tilt		0.046	0.126	0.267	0.172	0.313	
	Right Cheek		0.064	0.047	0.053	0.111	0.117	
	Right Tilt		0.059	0.052	0.086	0.111	0.145	
	Left Cheek	50%RB	0.050	0.114	0.147	0.164	0.197	
	Left Tilt		0.044	0.126	0.267	0.170	0.311	
	Right Cheek		0.066	0.047	0.053	0.113	0.119	
	Right Tilt		0.055	0.052	0.086	0.107	0.141	
LTE Band 4 (ANT2) QPSK (20MHz)	Left Cheek	1RB	0.090	0.114	0.147	0.204	0.237	
	Left Tilt		0.270	0.126	0.267	0.396	0.537	
	Right Cheek		0.295	0.047	0.053	0.342	0.348	
	Right Tilt		0.555	0.052	0.086	0.607	0.641	
	Left Cheek	50%RB	0.091	0.114	0.147	0.205	0.238	
	Left Tilt		0.268	0.126	0.267	0.394	0.535	
	Right Cheek		0.296	0.047	0.053	0.343	0.349	
	Right Tilt		0.553	0.052	0.086	0.605	0.639	
LTE Band 5 QPSK (10MHz)	Left Cheek	1RB	0.138	0.114	0.147	0.252	0.285	
	Left Tilt		0.068	0.126	0.267	0.194	0.335	
	Right Cheek		0.143	0.047	0.053	0.190	0.196	
	Right Tilt		0.071	0.052	0.086	0.123	0.157	
	Left Cheek	50%RB	0.130	0.114	0.147	0.244	0.277	
	Left Tilt		0.064	0.126	0.267	0.190	0.331	
	Right Cheek		0.139	0.047	0.053	0.186	0.192	
	Right Tilt		0.068	0.052	0.086	0.120	0.154	
LTE Band 5 (ANT2) QPSK (10MHz)	Left Cheek	1RB	0.102	0.114	0.147	0.216	0.249	
	Left Tilt		0.418	0.126	0.267	0.544	0.685	
	Right Cheek		0.528	0.047	0.053	0.575	0.581	
	Right Tilt		0.750	0.052	0.086	0.802	0.836	
	Left Cheek	50%RB	0.113	0.114	0.147	0.227	0.260	
	Left Tilt		0.443	0.126	0.267	0.569	0.710	
	Right Cheek		0.567	0.047	0.053	0.614	0.620	
	Right Tilt		0.962	0.052	0.086	1.014	1.048	
LTE Band 7 QPSK (10MHz)	Left Cheek	1RB	0.953	0.052	0.086	1.005	1.039	
	Left Tilt		0.043	0.114	0.147	0.157	0.190	
	Right Cheek		0.120	0.126	0.267	0.246	0.387	
	Right Tilt		0.046	0.047	0.053	0.093	0.099	
	Left Cheek	50%RB	0.122	0.052	0.086	0.174	0.208	
	Left Tilt		0.040	0.114	0.147	0.154	0.187	
	Right Cheek		0.118	0.126	0.267	0.244	0.385	
	Right Tilt		0.047	0.047	0.053	0.094	0.100	
			0.121	0.052	0.086	0.173	0.207	

Band	Test Position	Scaled SAR				WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN +BT Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 7 (ANT2) QPSK (10MHz)	Left Cheek	1RB	0.298	0.114	0.147	0.412	0.445	1.6
	Left Tilt		0.572	0.126	0.267	0.698	0.839	
	Right Cheek		0.530	0.047	0.053	0.577	0.583	
	Right Tilt		0.911	0.052	0.086	0.963	0.997	
	Left Cheek	50%RB	0.296	0.114	0.147	0.410	0.443	
	Left Tilt		0.573	0.126	0.267	0.699	0.840	
	Right Cheek		0.526	0.047	0.053	0.573	0.579	
	Right Tilt		0.904	0.052	0.086	0.956	0.990	
LTE Band 12 QPSK (10MHz)	Left Cheek	1RB	0.889	0.052	0.086	0.941	0.975	
	Left Tilt		0.020	0.114	0.147	0.134	0.167	
	Right Cheek		0.015	0.126	0.267	0.141	0.282	
	Right Tilt		0.072	0.047	0.053	0.119	0.125	
	Left Cheek	50%RB	0.038	0.052	0.086	0.090	0.124	
	Left Tilt		0.023	0.114	0.147	0.137	0.170	
	Right Cheek		0.014	0.126	0.267	0.140	0.281	
	Right Tilt		0.068	0.047	0.053	0.115	0.121	
LTE Band 12 (ANT2) QPSK (10MHz)	Left Cheek	1RB	0.041	0.052	0.086	0.093	0.127	
	Left Tilt		0.049	0.114	0.147	0.163	0.196	
	Right Cheek		0.075	0.126	0.267	0.201	0.342	
	Right Tilt		0.280	0.047	0.053	0.327	0.333	
	Left Cheek	50%RB	0.355	0.052	0.086	0.407	0.441	
	Left Tilt		0.047	0.114	0.147	0.161	0.194	
	Right Cheek		0.069	0.126	0.267	0.195	0.336	
	Right Tilt		0.273	0.047	0.053	0.320	0.326	
LTE Band 17 QPSK (10MHz)	Left Cheek	1RB	0.346	0.052	0.086	0.398	0.432	
	Left Tilt		0.021	0.114	0.147	0.135	0.168	
	Right Cheek		0.012	0.126	0.267	0.138	0.279	
	Right Tilt		0.072	0.047	0.053	0.119	0.125	
	Left Cheek	50%RB	0.039	0.052	0.086	0.091	0.125	
	Left Tilt		0.025	0.114	0.147	0.139	0.172	
	Right Cheek		0.014	0.126	0.267	0.140	0.281	
	Right Tilt		0.070	0.047	0.053	0.117	0.123	
LTE Band 17 (ANT2) QPSK (10MHz)	Left Cheek	1RB	0.036	0.052	0.086	0.088	0.122	
	Left Tilt		0.044	0.114	0.147	0.158	0.191	
	Right Cheek		0.071	0.126	0.267	0.197	0.338	
	Right Tilt		0.186	0.047	0.053	0.233	0.239	
	Left Cheek	50%RB	0.330	0.052	0.086	0.382	0.416	
	Left Tilt		0.045	0.114	0.147	0.159	0.192	
	Right Cheek		0.068	0.126	0.267	0.194	0.335	
	Right Tilt		0.184	0.047	0.053	0.231	0.237	
LTE Band 38 QPSK (20MHz)	Left Cheek	1RB	0.323	0.052	0.086	0.375	0.409	
	Left Tilt		0.007	0.114	0.147	0.121	0.154	
	Right Cheek		0.020	0.126	0.267	0.146	0.287	
	Right Tilt		0.011	0.047	0.053	0.058	0.064	
	Left Cheek	50%RB	0.040	0.052	0.086	0.092	0.126	
	Left Tilt		0.008	0.114	0.147	0.122	0.155	
	Right Cheek		0.022	0.126	0.267	0.148	0.289	
	Right Tilt		0.010	0.047	0.053	0.057	0.063	
LTE Band 38 (ANT2) QPSK (20MHz)	Left Cheek	1RB	0.037	0.052	0.086	0.089	0.123	
	Left Tilt		0.112	0.114	0.147	0.226	0.259	
	Right Cheek		0.233	0.126	0.267	0.359	0.500	
	Right Tilt		0.192	0.047	0.053	0.239	0.245	
	Left Cheek	50%RB	0.452	0.052	0.086	0.504	0.538	
	Left Tilt		0.109	0.114	0.147	0.223	0.256	
	Right Cheek		0.226	0.126	0.267	0.352	0.493	
	Right Tilt		0.189	0.047	0.053	0.236	0.242	
LTE Band 38 (ANT2) QPSK (20MHz)	Left Cheek	1RB	0.445	0.052	0.086	0.497	0.531	
	Left Tilt							
	Right Cheek							
	Right Tilt							
	Left Cheek	50%RB						
	Left Tilt							
	Right Cheek							
	Right Tilt							

Band	Test Position	Scaled SAR				WWAN+ WIFI2.4G Σ SAR (W/kg)	WWA N+BT Σ SAR (W/kg)	Llimit (W/kg)
		RB allocation	WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 41 QPSK (20MHz)	Left Cheek	1RB	0.006	0.114	0.147	0.120	0.153	1.6
	Left Tilt		0.020	0.126	0.267	0.146	0.287	
	Right Cheek		0.014	0.047	0.053	0.061	0.067	
	Right Tilt		0.043	0.052	0.086	0.095	0.129	
	Left Cheek	50%RB	0.005	0.114	0.147	0.119	0.152	
	Left Tilt		0.022	0.126	0.267	0.148	0.289	
	Right Cheek		0.013	0.047	0.053	0.060	0.066	
	Right Tilt		0.044	0.052	0.086	0.096	0.130	
LTE Band 41 (ANT2) QPSK (20MHz)	Left Cheek	1RB	0.118	0.114	0.147	0.232	0.265	
	Left Tilt		0.174	0.126	0.267	0.300	0.441	
	Right Cheek		0.306	0.047	0.053	0.353	0.359	
	Right Tilt		0.483	0.052	0.086	0.535	0.569	
	Left Cheek	50%RB	0.112	0.114	0.147	0.226	0.259	
	Left Tilt		0.165	0.126	0.267	0.291	0.432	
	Right Cheek		0.298	0.047	0.053	0.345	0.351	
	Right Tilt		0.480	0.052	0.086	0.532	0.566	
LTE Band 66 QPSK (20MHz)	Left Cheek	1RB	0.092	0.114	0.147	0.206	0.239	
	Left Tilt		0.044	0.126	0.267	0.170	0.311	
	Right Cheek		0.068	0.047	0.053	0.115	0.121	
	Right Tilt		0.033	0.052	0.086	0.085	0.119	
	Left Cheek	50%RB	0.091	0.114	0.147	0.205	0.238	
	Left Tilt		0.042	0.126	0.267	0.168	0.309	
	Right Cheek		0.066	0.047	0.053	0.113	0.119	
	Right Tilt		0.035	0.052	0.086	0.087	0.121	
LTE Band 66 (ANT2) QPSK (20MHz)	Left Cheek	1RB	0.097	0.114	0.147	0.211	0.244	
	Left Tilt		0.221	0.126	0.267	0.347	0.488	
	Right Cheek		0.299	0.047	0.053	0.346	0.352	
	Right Tilt		0.599	0.052	0.086	0.651	0.685	
	Left Cheek	50%RB	0.100	0.114	0.147	0.214	0.247	
	Left Tilt		0.218	0.126	0.267	0.344	0.485	
	Right Cheek		0.300	0.047	0.053	0.347	0.353	
	Right Tilt		0.596	0.052	0.086	0.648	0.682	

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SAR Evaluation Report

Hotspot(body-worn10mm)

Band	Test Position	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	Llimit (W/kg)
		WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
GSM850 (GPRS 4slots)	Front	0.144	0.030	0.045	0.174	0.189	1.6
	Back	0.212	0.035	0.210	0.247	0.422	
	Left	0.079	0.011	0.166	0.090	0.245	
	Right	0.004	0.023	0.147	0.027	0.151	
	Top	0.125	0.009	0.197	0.134	0.322	
	Bottom	0.002	0.002	0.007	0.004	0.009	
GSM850 (ANT0) (GPRS 4slots)	Front	0.236	0.030	0.045	0.266	0.281	
	Back	0.308	0.035	0.210	0.343	0.518	
	Left	0.030	0.011	0.166	0.041	0.196	
	Right	0.133	0.023	0.147	0.156	0.280	
	Top	0.336	0.009	0.197	0.345	0.533	
	Bottom	0.002	0.002	0.007	0.004	0.009	
GSM1900 (GPRS 4slots)	Front	0.446	0.030	0.045	0.476	0.491	
	Back	0.671	0.035	0.210	0.706	0.881	
	Left	0.248	0.011	0.166	0.259	0.414	
	Right	0.016	0.023	0.147	0.039	0.163	
	Top	0.550	0.009	0.197	0.559	0.747	
	Bottom	0.002	0.002	0.007	0.004	0.009	
GSM1900 (ANT0) (GPRS 4slots)	Front	0.115	0.030	0.045	0.145	0.160	
	Back	0.143	0.035	0.210	0.178	0.353	
	Left	0.095	0.011	0.166	0.106	0.261	
	Right	0.026	0.023	0.147	0.049	0.173	
	Top	0.002	0.009	0.197	0.011	0.199	
	Bottom	0.181	0.002	0.007	0.183	0.188	
WCDMA Band 2	Front	0.066	0.030	0.045	0.096	0.111	
	Back	0.102	0.035	0.210	0.137	0.312	
	Left	0.051	0.011	0.166	0.062	0.217	
	Right	0.003	0.023	0.147	0.026	0.150	
	Top	0.088	0.009	0.197	0.097	0.285	
	Bottom	0.006	0.002	0.007	0.008	0.013	
WCDMA Band 2 (ANT0)	Front	0.222	0.030	0.045	0.252	0.267	
	Back	0.271	0.035	0.210	0.306	0.481	
	Left	0.117	0.011	0.166	0.128	0.283	
	Right	0.045	0.023	0.147	0.068	0.192	
	Top	0.002	0.009	0.197	0.011	0.199	
	Bottom	0.348	0.002	0.007	0.350	0.355	
WCDMA Band 4	Front	0.192	0.030	0.045	0.222	0.237	
	Back	0.295	0.035	0.210	0.330	0.505	
	Left	0.166	0.011	0.166	0.177	0.332	
	Right	0.016	0.023	0.147	0.039	0.163	
	Top	0.258	0.009	0.197	0.267	0.455	
	Bottom	0.002	0.002	0.007	0.004	0.009	
WCDMA Band 4 (ANT0)	Front	0.415	0.030	0.045	0.445	0.460	
	Back	0.532	0.035	0.210	0.567	0.742	
	Left	0.296	0.011	0.166	0.307	0.462	
	Right	0.116	0.023	0.147	0.139	0.263	
	Top	0.007	0.009	0.197	0.016	0.204	
	Bottom	0.819	0.002	0.007	0.821	0.826	
WCDMA Band 5	Front	0.137	0.030	0.045	0.167	0.182	
	Back	0.200	0.035	0.210	0.235	0.410	
	Left	0.101	0.011	0.166	0.112	0.267	
	Right	0.008	0.023	0.147	0.031	0.155	
	Top	0.123	0.009	0.197	0.132	0.320	
	Bottom	0.002	0.002	0.007	0.004	0.009	
WCDMA Band 5 (ANT0)	Front	0.261	0.030	0.045	0.291	0.306	
	Back	0.350	0.035	0.210	0.385	0.560	
	Left	0.070	0.011	0.166	0.081	0.236	
	Right	0.161	0.023	0.147	0.184	0.308	
	Top	0.002	0.009	0.197	0.011	0.199	
	Bottom	0.384	0.002	0.007	0.386	0.391	

Band	Test Position	RB allocation	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 2	Front	1RB	0.179	0.030	0.045	0.209	0.224	1.6
	Back		0.237	0.035	0.210	0.272	0.447	
	Left		0.254	0.011	0.166	0.265	0.420	
	Right		0.202	0.023	0.147	0.225	0.349	
	Top		0.020	0.009	0.197	0.029	0.217	
	Bottom		0.362	0.002	0.007	0.364	0.369	
	Front	50%RB	0.186	0.030	0.045	0.216	0.231	
	Back		0.234	0.035	0.210	0.269	0.444	
	Left		0.249	0.011	0.166	0.260	0.415	
	Right		0.214	0.023	0.147	0.237	0.361	
	Top		0.017	0.009	0.197	0.026	0.214	
	Bottom		0.355	0.002	0.007	0.357	0.362	
LTE Band 2 (ANT2)	Front	1RB	0.109	0.030	0.045	0.139	0.154	
	Back		0.128	0.035	0.210	0.163	0.338	
	Left		0.054	0.011	0.166	0.065	0.220	
	Right		0.020	0.023	0.147	0.043	0.167	
	Top		0.069	0.009	0.197	0.078	0.266	
	Bottom		0.002	0.002	0.007	0.004	0.009	
	Front	50%RB	0.108	0.030	0.045	0.138	0.153	
	Back		0.125	0.035	0.210	0.160	0.335	
	Left		0.053	0.011	0.166	0.064	0.219	
	Right		0.022	0.023	0.147	0.045	0.169	
	Top		0.070	0.009	0.197	0.079	0.267	
	Bottom		0.002	0.002	0.007	0.004	0.009	
LTE Band 4	Front	1RB	0.345	0.030	0.045	0.375	0.390	
	Back		0.410	0.035	0.210	0.445	0.620	
	Left		0.485	0.011	0.166	0.496	0.651	
	Right		0.404	0.023	0.147	0.427	0.551	
	Top		0.025	0.009	0.197	0.034	0.222	
	Bottom		0.768	0.002	0.007	0.770	0.775	
	Front	50%RB	0.333	0.030	0.045	0.363	0.378	
	Back		0.406	0.035	0.210	0.441	0.616	
	Left		0.488	0.011	0.166	0.499	0.654	
	Right		0.413	0.023	0.147	0.436	0.560	
	Top		0.022	0.009	0.197	0.031	0.219	
	Bottom		0.746	0.002	0.007	0.748	0.753	
LTE Band 4 (ANT2)	Front	1RB	0.183	0.030	0.045	0.213	0.228	
	Back		0.236	0.035	0.210	0.271	0.446	
	Left		0.176	0.011	0.166	0.187	0.342	
	Right		0.075	0.023	0.147	0.098	0.222	
	Top		0.210	0.009	0.197	0.219	0.407	
	Bottom		0.002	0.002	0.007	0.004	0.009	
	Front	50%RB	0.180	0.030	0.045	0.210	0.225	
	Back		0.237	0.035	0.210	0.272	0.447	
	Left		0.174	0.011	0.166	0.185	0.340	
	Right		0.077	0.023	0.147	0.100	0.224	
	Top		0.207	0.009	0.197	0.216	0.404	
	Bottom		0.002	0.002	0.007	0.004	0.009	
LTE Band 5	Front	1RB	0.389	0.030	0.045	0.419	0.434	
	Back		0.429	0.035	0.210	0.464	0.639	
	Left		0.417	0.011	0.166	0.428	0.583	
	Right		0.361	0.023	0.147	0.384	0.508	
	Top		0.015	0.009	0.197	0.024	0.212	
	Bottom		0.358	0.002	0.007	0.360	0.365	
	Front	50%RB	0.376	0.030	0.045	0.406	0.421	
	Back		0.430	0.035	0.210	0.465	0.640	
	Left		0.415	0.011	0.166	0.426	0.581	
	Right		0.383	0.023	0.147	0.406	0.530	
	Top		0.018	0.009	0.197	0.027	0.215	
	Bottom		0.353	0.002	0.007	0.355	0.360	

Band	Test Position	RB allocation	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 5 (ANT2)	Front	1RB	0.133	0.030	0.045	0.163	0.178	1.6
	Back		0.185	0.035	0.210	0.220	0.395	
	Left		0.027	0.011	0.166	0.038	0.193	
	Right		0.008	0.023	0.147	0.031	0.155	
	Top		0.032	0.009	0.197	0.041	0.229	
	Bottom		0.002	0.002	0.007	0.004	0.009	
	Front	50%RB	0.130	0.030	0.045	0.160	0.175	
	Back		0.182	0.035	0.210	0.217	0.392	
	Left		0.026	0.011	0.166	0.037	0.192	
	Right		0.010	0.023	0.147	0.033	0.157	
	Top		0.035	0.009	0.197	0.044	0.232	
	Bottom		0.002	0.002	0.007	0.004	0.009	
LTE Band 7	Front	1RB	0.371	0.030	0.045	0.401	0.416	
	Back		0.635	0.035	0.210	0.670	0.845	
	Left		0.582	0.011	0.166	0.593	0.748	
	Right		0.490	0.023	0.147	0.513	0.637	
	Top		0.039	0.009	0.197	0.048	0.236	
	Bottom		0.781	0.002	0.007	0.783	0.788	
	Front	50%RB	0.361	0.030	0.045	0.391	0.406	
	Back		0.629	0.035	0.210	0.664	0.839	
	Left		0.586	0.011	0.166	0.597	0.752	
	Right		0.482	0.023	0.147	0.505	0.629	
	Top		0.037	0.009	0.197	0.046	0.234	
	Bottom		0.767	0.002	0.007	0.769	0.774	
LTE Band 7 (ANT2)	Front	1RB	0.379	0.030	0.045	0.409	0.424	
	Back		0.471	0.035	0.210	0.506	0.681	
	Left		0.181	0.011	0.166	0.192	0.347	
	Right		0.071	0.023	0.147	0.094	0.218	
	Top		0.240	0.009	0.197	0.249	0.437	
	Bottom		0.002	0.002	0.007	0.004	0.009	
	Front	50%RB	0.383	0.030	0.045	0.413	0.428	
	Back		0.468	0.035	0.210	0.503	0.678	
	Left		0.183	0.011	0.166	0.194	0.349	
	Right		0.068	0.023	0.147	0.091	0.215	
	Top		0.237	0.009	0.197	0.246	0.434	
	Bottom		0.004	0.002	0.007	0.006	0.011	
LTE Band 12	Front	1RB	0.288	0.030	0.045	0.318	0.333	
	Back		0.380	0.035	0.210	0.415	0.590	
	Left		0.314	0.011	0.166	0.325	0.480	
	Right		0.257	0.023	0.147	0.280	0.404	
	Top		0.044	0.009	0.197	0.053	0.241	
	Bottom		0.161	0.002	0.007	0.163	0.168	
	Front	50%RB	0.296	0.030	0.045	0.326	0.341	
	Back		0.377	0.035	0.210	0.412	0.587	
	Left		0.308	0.011	0.166	0.319	0.474	
	Right		0.249	0.023	0.147	0.272	0.396	
	Top		0.038	0.009	0.197	0.047	0.235	
	Bottom		0.157	0.002	0.007	0.159	0.164	
LTE Band 12 (ANT2)	Front	1RB	0.039	0.030	0.045	0.069	0.084	
	Back		0.056	0.035	0.210	0.091	0.266	
	Left		0.007	0.011	0.166	0.018	0.173	
	Right		0.003	0.023	0.147	0.026	0.150	
	Top		0.012	0.009	0.197	0.021	0.209	
	Bottom		0.002	0.002	0.007	0.004	0.009	
	Front	50%RB	0.036	0.030	0.045	0.066	0.081	
	Back		0.051	0.035	0.210	0.086	0.261	
	Left		0.010	0.011	0.166	0.021	0.176	
	Right		0.004	0.023	0.147	0.027	0.151	
	Top		0.014	0.009	0.197	0.023	0.211	
	Bottom		0.002	0.002	0.007	0.004	0.009	

Band	Test Position	RB allocation	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 17	Front	1RB	0.092	0.030	0.045	0.122	0.137	1.6
	Back		0.115	0.035	0.210	0.150	0.325	
	Left		0.080	0.011	0.166	0.091	0.246	
	Right		0.067	0.023	0.147	0.090	0.214	
	Top		0.015	0.009	0.197	0.024	0.212	
	Bottom		0.168	0.002	0.007	0.170	0.175	
	Front	50%RB	0.087	0.030	0.045	0.117	0.132	
	Back		0.109	0.035	0.210	0.144	0.319	
	Left		0.084	0.011	0.166	0.095	0.250	
	Right		0.068	0.023	0.147	0.091	0.215	
	Top		0.014	0.009	0.197	0.023	0.211	
LTE Band 17 (ANT2)	Bottom		0.165	0.002	0.007	0.167	0.172	
	Front	1RB	0.041	0.030	0.045	0.071	0.086	
	Back		0.052	0.035	0.210	0.087	0.262	
	Left		0.007	0.011	0.166	0.018	0.173	
	Right		0.004	0.023	0.147	0.027	0.151	
	Top		0.013	0.009	0.197	0.022	0.210	
	Bottom		0.002	0.002	0.007	0.004	0.009	
	Front	50%RB	0.038	0.030	0.045	0.068	0.083	
	Back		0.055	0.035	0.210	0.090	0.265	
	Left		0.007	0.011	0.166	0.018	0.173	
	Right		0.005	0.023	0.147	0.028	0.152	
LTE Band 38	Top		0.016	0.009	0.197	0.025	0.213	
	Bottom		0.002	0.002	0.007	0.004	0.009	
	Front	1RB	0.174	0.030	0.045	0.204	0.219	
	Back		0.209	0.035	0.210	0.244	0.419	
	Left		0.186	0.011	0.166	0.197	0.352	
	Right		0.150	0.023	0.147	0.173	0.297	
	Top		0.024	0.009	0.197	0.033	0.221	
	Bottom		0.262	0.002	0.007	0.264	0.269	
	Front	50%RB	0.170	0.030	0.045	0.200	0.215	
	Back		0.202	0.035	0.210	0.237	0.412	
LTE Band 38 (ANT2)	Left		0.182	0.011	0.166	0.193	0.348	
	Right		0.145	0.023	0.147	0.168	0.292	
	Top		0.020	0.009	0.197	0.029	0.217	
	Bottom		0.257	0.002	0.007	0.259	0.264	
	Front	1RB	0.101	0.030	0.045	0.131	0.146	
	Back		0.127	0.035	0.210	0.162	0.337	
	Left		0.122	0.011	0.166	0.133	0.288	
	Right		0.047	0.023	0.147	0.070	0.194	
	Top		0.062	0.009	0.197	0.071	0.259	
LTE Band 38 (ANT2)	Bottom		0.002	0.002	0.007	0.004	0.009	
	Front	50%RB	0.098	0.030	0.045	0.128	0.143	
	Back		0.122	0.035	0.210	0.157	0.332	
	Left		0.121	0.011	0.166	0.132	0.287	
	Right		0.048	0.023	0.147	0.071	0.195	
	Top		0.065	0.009	0.197	0.074	0.262	
	Bottom		0.003	0.002	0.007	0.005	0.010	
LTE Band 41	Front	1RB	0.184	0.030	0.045	0.214	0.229	
	Back		0.218	0.035	0.210	0.253	0.428	
	Left		0.208	0.011	0.166	0.219	0.374	
	Right		0.182	0.023	0.147	0.205	0.329	
	Top		0.015	0.009	0.197	0.024	0.212	
	Bottom		0.276	0.002	0.007	0.278	0.283	
	Front	50%RB	0.189	0.030	0.045	0.219	0.234	
	Back		0.225	0.035	0.210	0.260	0.435	
	Left		0.205	0.011	0.166	0.216	0.371	
	Right		0.178	0.023	0.147	0.201	0.325	
LTE Band 41	Top		0.017	0.009	0.197	0.026	0.214	
	Bottom		0.275	0.002	0.007	0.277	0.282	

Band	Test Position	RB allocation	Scaled SAR			WWAN+ WIFI2.4G Σ SAR (W/kg)	WWAN+ BT Σ SAR (W/kg)	Llimit (W/kg)
			WWAN SAR 1g(W/kg)	WIFI2.4G SAR 1g(W/kg)	BT SAR 1g(W/kg)			
LTE Band 41 (ANT2)	Front	1RB	0.107	0.030	0.045	0.137	0.152	1.6
	Back		0.129	0.035	0.210	0.164	0.339	
	Left		0.127	0.011	0.166	0.138	0.293	
	Right		0.044	0.023	0.147	0.067	0.191	
	Top		0.084	0.009	0.197	0.093	0.281	
	Bottom		0.002	0.002	0.007	0.004	0.009	
	Front	50%RB	0.108	0.030	0.045	0.138	0.153	
	Back		0.125	0.035	0.210	0.160	0.335	
	Left		0.123	0.011	0.166	0.134	0.289	
	Right		0.046	0.023	0.147	0.069	0.193	
	Top		0.082	0.009	0.197	0.091	0.279	
	Bottom		0.002	0.002	0.007	0.004	0.009	
LTE Band 66	Front	1RB	0.338	0.030	0.045	0.368	0.383	
	Back		0.399	0.035	0.210	0.434	0.609	
	Left		0.284	0.011	0.166	0.295	0.450	
	Right		0.252	0.023	0.147	0.275	0.399	
	Top		0.059	0.009	0.197	0.068	0.256	
	Bottom		0.551	0.002	0.007	0.553	0.558	
	Front	50%RB	0.332	0.030	0.045	0.362	0.377	
	Back		0.390	0.035	0.210	0.425	0.600	
	Left		0.277	0.011	0.166	0.288	0.443	
	Right		0.236	0.023	0.147	0.259	0.383	
	Top		0.056	0.009	0.197	0.065	0.253	
	Bottom		0.548	0.002	0.007	0.550	0.555	
LTE Band 66 (ANT2)	Front	1RB	0.185	0.030	0.045	0.215	0.230	
	Back		0.243	0.035	0.210	0.278	0.453	
	Left		0.091	0.011	0.166	0.102	0.257	
	Right		0.024	0.023	0.147	0.047	0.171	
	Top		0.221	0.009	0.197	0.230	0.418	
	Bottom		0.002	0.002	0.007	0.004	0.009	
	Front	50%RB	0.181	0.030	0.045	0.211	0.226	
	Back		0.235	0.035	0.210	0.270	0.445	
	Left		0.087	0.011	0.166	0.098	0.253	
	Right		0.023	0.023	0.147	0.046	0.170	
	Top		0.217	0.009	0.197	0.226	0.414	
	Bottom		0.002	0.002	0.007	0.004	0.009	

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

14 Test equipment and ancillaries used for tests

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

	Manufacturer	Device Type	Type(Model)	Serial number	calibration	
					Last Cal.	Due Date
☒	SPEAG	E-Field PROBE	EX3DV4	7951	2025-09-10	2026-09-09
☒	SPEAG	Validation Kits	D750V3	1151	2024-08-19	2027-08-18
☒	SPEAG	Validation Kits	D835V2	4d203	2024-08-20	2027-08-19
☒	SPEAG	Validation Kits	D1750V2	1143	2024-08-20	2027-08-19
☒	SPEAG	Validation Kits	D1900V2	5d211	2024-08-19	2027-08-18
☒	SPEAG	Validation 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	E9340A	US39400100	2025-03-06	2026-03-05
☒	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: Photographs

(Please see SAR test setup photos.)