

TEST REPORT

Applicant: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address: NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China
Equipment Type: Mobile Phone
Model Name: CPH2815
Brand Name: OPPO
FCC ID: R9C-OP25255
Test Standard: FCC 47 CFR Part 2.1093 (refer section 3.1)
Maximum SAR: Head (1 g@0mm): 1.17 W/kg
Body-worn (1 g@15mm): 0.47 W/kg
Hotspot (1 g@10mm): 0.97 W/kg
Specific (10 g@0mm): 2.76 W/kg
Sample Arrival Date: Aug. 24, 2025
Test Date: Sep. 27, 2025
Date of Issue: Oct. 20, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xiong Lining**Checked by:** Xu Rui**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Oct. 20, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

2.2 Manufacturer Information

Manufacturer	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	CPH2815
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	ColorOS 15.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	SC-SZ2580358: S08, S06
IMEI Number	SC-SZ2580358-S08: IMEI1: 866585080020038; IMEI2: 866585080020020
	SC-SZ2580358-S06: IMEI1: 866585080020053; IMEI2: 866585080020046
Note1: EUT ID is used to identify the test sample in the lab internally.	
Note2: It is performed to test SAR with the EUT S08, S06.	

2.4 Ancillary Equipment

Please refer the document “BL-SZ2580929-AW EUT external photo.pdf”.

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA Band 1/2/4/5/8/6/19 4G Network FDD LTE Band 1/2/3/4/5/7/8/13/18/19/26/28/66 TDD LTE Band 38/40/41 Bluetooth (BR+EDR+BLE) 802.11a, 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40/80) GNSS
Note: The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA and LTE, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.	

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, 2.4G WIFI, 5G WIFI, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850~1910 MHz	RX: 1930~1990 MHz
	WCDMA Band 4	TX: 1710~1755 MHz	RX: 2110~2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850~1910 MHz	RX: 1930~1990 MHz
	LTE Band 4	TX: 1710~1755 MHz	RX: 2110~2115 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 13	TX: 777-787 MHz	RX: 746~756 MHz
	LTE Band 18	TX: 815~830 MHz	RX: 860~875 MHz
	LTE Band 19	TX: 830~845 MHz	RX: 875~890 MHz
	LTE Band 26	TX: 814~849 MHz	RX: 859~894 MHz
	LTE Band 66	TX: 1710~1780 MHz	RX: 1710~1780 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2535 ~ 2655 MHz	RX: 2535 ~ 2655 MHz
	802.11b/g /n(HT20/HT40)/VH T20/40	2412 ~ 2462 MHz	
	802.11a/ /n(HT20/HT40) /ac(VHT20/VHT40 /VHT80)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN: IFA Antenna WIFI: IFA Antenna		

	Bluetooth: IFA Antenna	
DTM	N/A	
Hotspot Function	Support	
Power Reduction	Support	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type	☒ Production unit	☐ Identical prototype
Note: 1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for held-to-ear exposure conditions. 2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for near to body exposure conditions. 3. The reduction power details please refer section 8.1.		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
5	KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
8	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	KDB 865664 D02 v01r02	RF Exposure Reporting
10	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
11	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

Note:

Compared with the EUT of test report BL-SZ2580928-701, the changes of the EUT of this report as below:

1. Different Front Camera
2. Different power adapter designs
3. Different batteries
4. Different models
5. Different USB cable

Other hardware circuit and software are the same as EUT referred in test report BL-SZ2580928-701.

Therefore, only added the worst case spot check test data in section 10.24 - 10.31 and ANNEX A/B/C, others test data please refer to report BL-SZ2580928-701, by Shenzhen BALUN Technology Co., Ltd. on Sep, 30, 2025.

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

3.3.1 Highest SAR Values

Band	Maximum Scaled SAR (W/kg)				Maximum Report SAR (W/kg)			
	Head	Body-worn	Hotspot	Specific	Head	Body-worn	Hotspot	Specific
	(0mm)	(15mm)	(10mm)	(0mm)	(0mm)	(15mm)	(10mm)	(0mm)
	1g SAR			10g SAR	1g SAR			10g SAR
GSM 850	0.73	0.36	0.97	/	1.17	0.47	0.97	2.76
GSM 1900	0.84	0.47	0.86	/				
WCDMA Band 2	0.81	0.41	0.68	1.88				
WCDMA Band 4	0.76	0.30	0.46	2.76				
WCDMA Band 5	0.52	0.35	0.92	/				
LTE Band 2	0.70	0.36	0.88	2.33				
LTE Band 4	0.66	0.25	0.45	2.56				
LTE Band 5	0.58	0.34	0.96	/				
LTE Band 7	1.02	0.31	0.49	1.30				
LTE Band 13	0.43	0.16	0.48	/				
LTE Band 18	0.66	0.21	0.51	/				
LTE Band 19	0.63	0.32	0.71	/				
LTE Band 26	0.54	0.31	0.73	/				
LTE Band 66	0.64	0.19	0.35	2.67				
LTE Band 38	0.72	0.18	0.43	1.35				
LTE Band 41	0.46	0.16	0.36	1.12				
2.4G WIFI	0.84	0.23	0.49	/				
5.2G WIFI	/	/	0.14	/				
5.3G WIFI	0.74	0.08	/	0.38				
5.6G WIFI	0.85	0.24	/	0.45				
5.8G WIFI	1.17	0.32	0.56	/				
Bluetooth	0.28	0.08	0.11	/				
Limit (W/kg)	1.6			4	1.6			4
Verdict	PASS							

3.3.2 Highest Simultaneous Transmission SAR Values

Equipment Class	Maximum Report SAR			
	1g (W/kg)			10g (W/kg)
	Head	Body-worn	Hotspot	Specifc
	(Separation 0mm)	(Separation 15mm)	(Separation 10mm)	(Separation 0mm)
PCE	1.35	0.70	1.19	1.81
DTS	1.09	0.67	1.10	/
NII	1.35	0.70	1.19	1.81
DSS	0.89	0.55	0.97	/
Limit (W/Kg)	1.6	1.6	1.6	4
Verdict	Pass			
Note: The highest simultaneous SAR please refer section 11.2				

3.4 Test Uncertainty

According to KDB 865664 D01, When the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 10 g SAR for the EUT in this report is 2.76 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is 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). The equation description is as below:

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

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

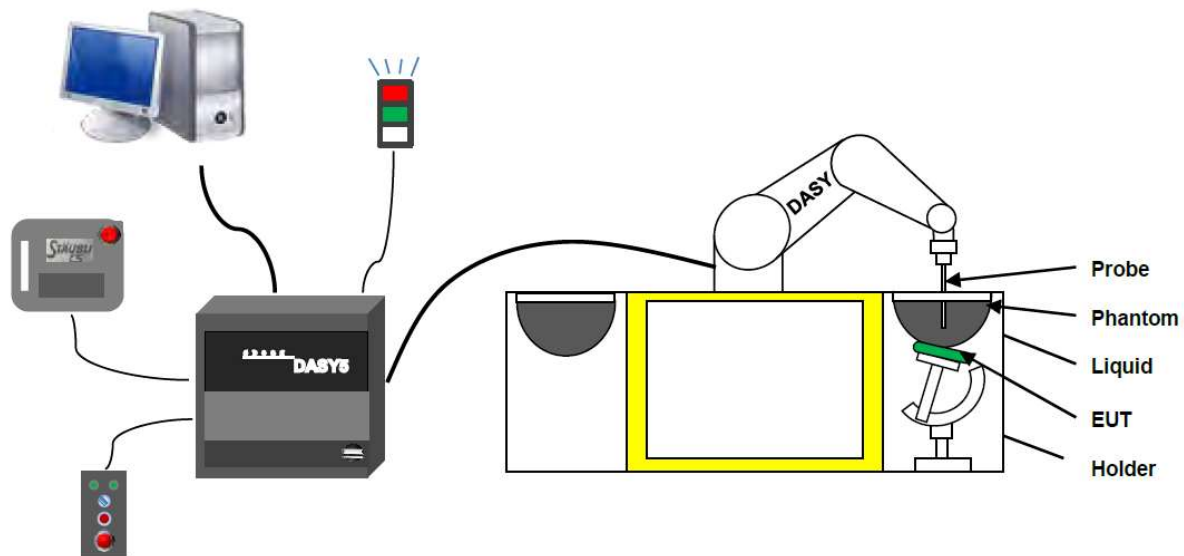
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision
(repeatability ± 0.02 mm)
- High reliability
(industrial design)
- Low maintenance costs
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1/2 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

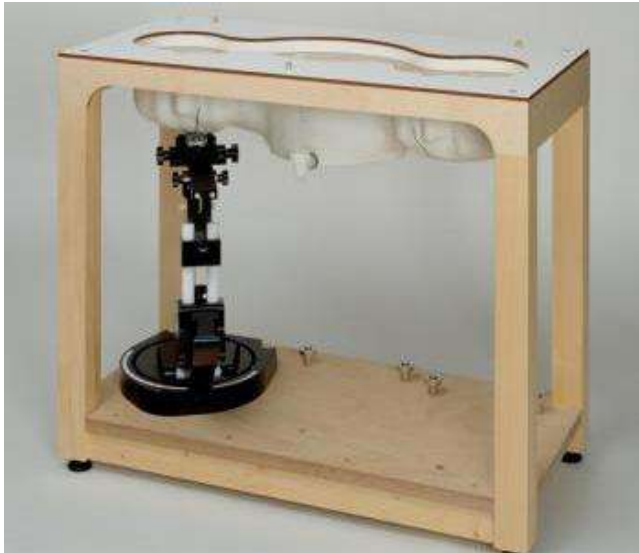
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200M Ω m
- The Inputs: Symmetrical and Floating
- Common Mode Rejection: Above 80dB

4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left head
- Right head
- Flat phantom



4.2.6 Device Holder

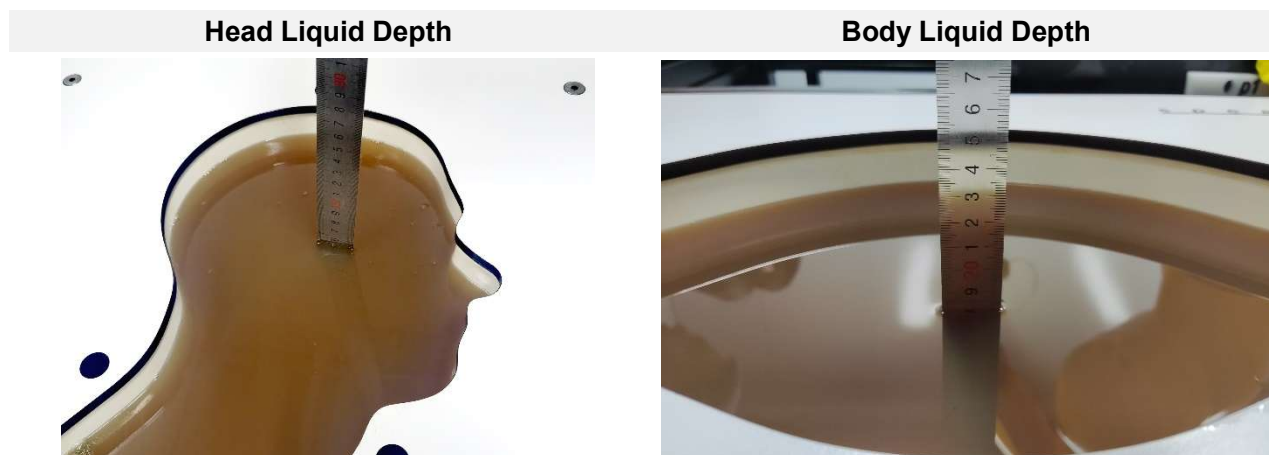
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA's only. If necessary an additional support of polystyrene material is used. Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.



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

4.2.7 Simulating Liquid

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 nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.



The following table gives the recipes for tissue simulating liquid.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethenediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

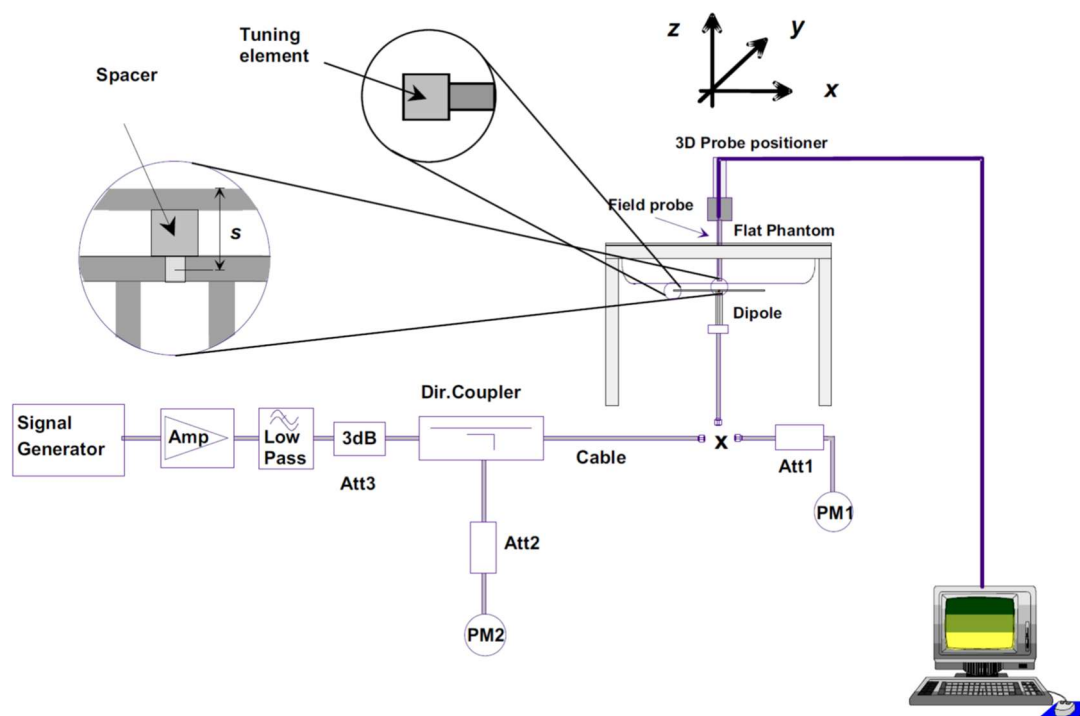
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 TEST POSITION CONFIGURATIONS

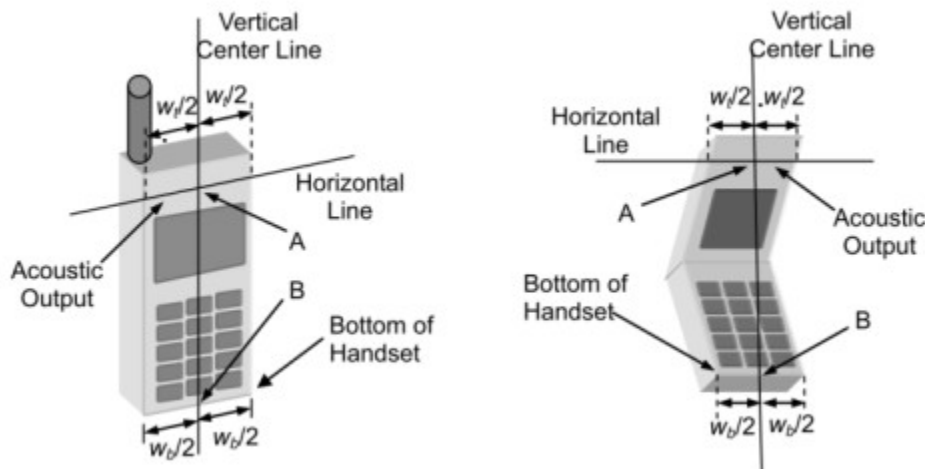
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

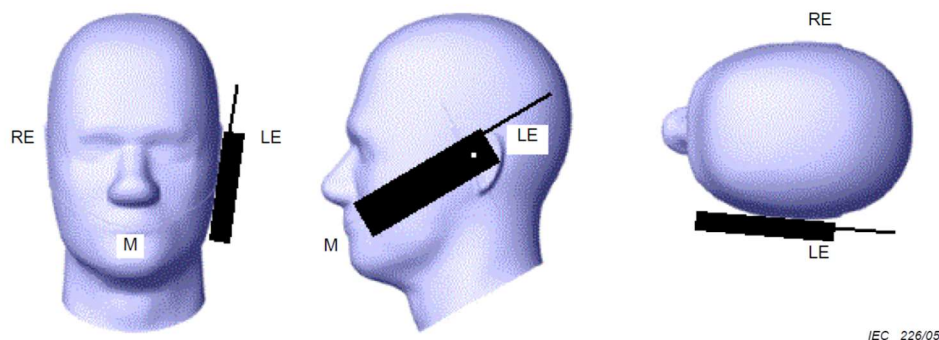
6.1.1 Two Imaginary Lines on the Handset

- The vertical center line passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



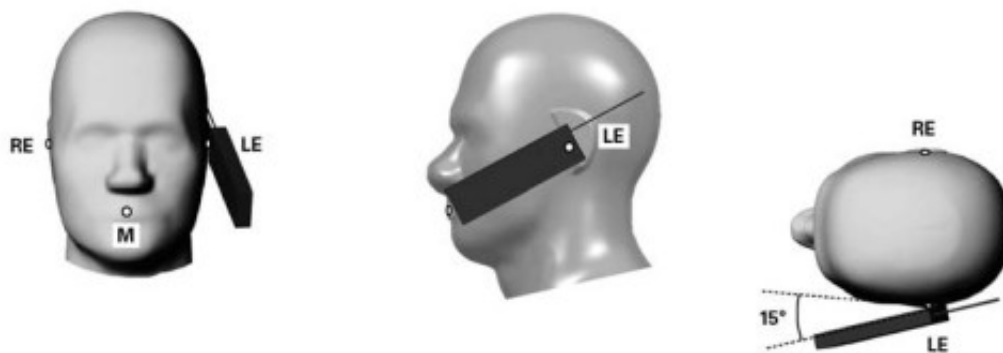
6.1.2 Cheek Position

- To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



6.1.3 Tilted Position

- (a) To position the device in the “cheek” position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

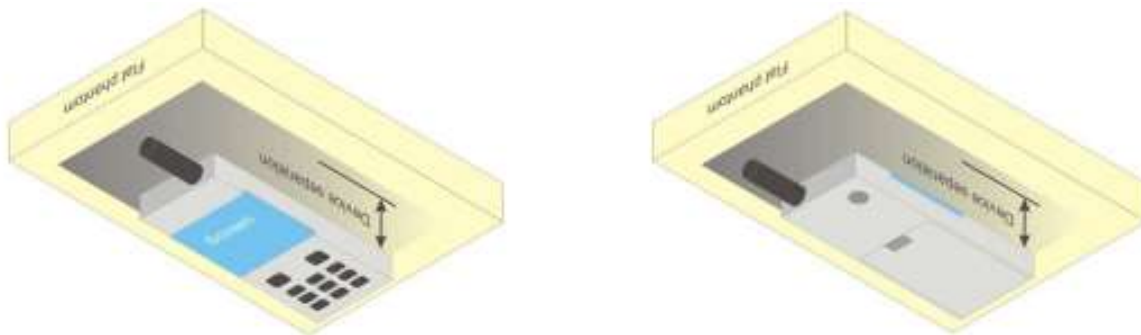


6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

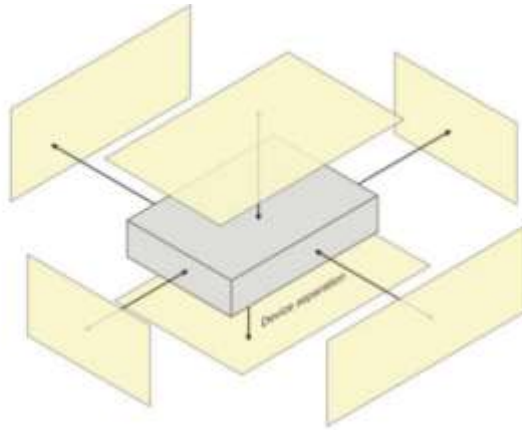
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 5 mm to support compliance.



6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



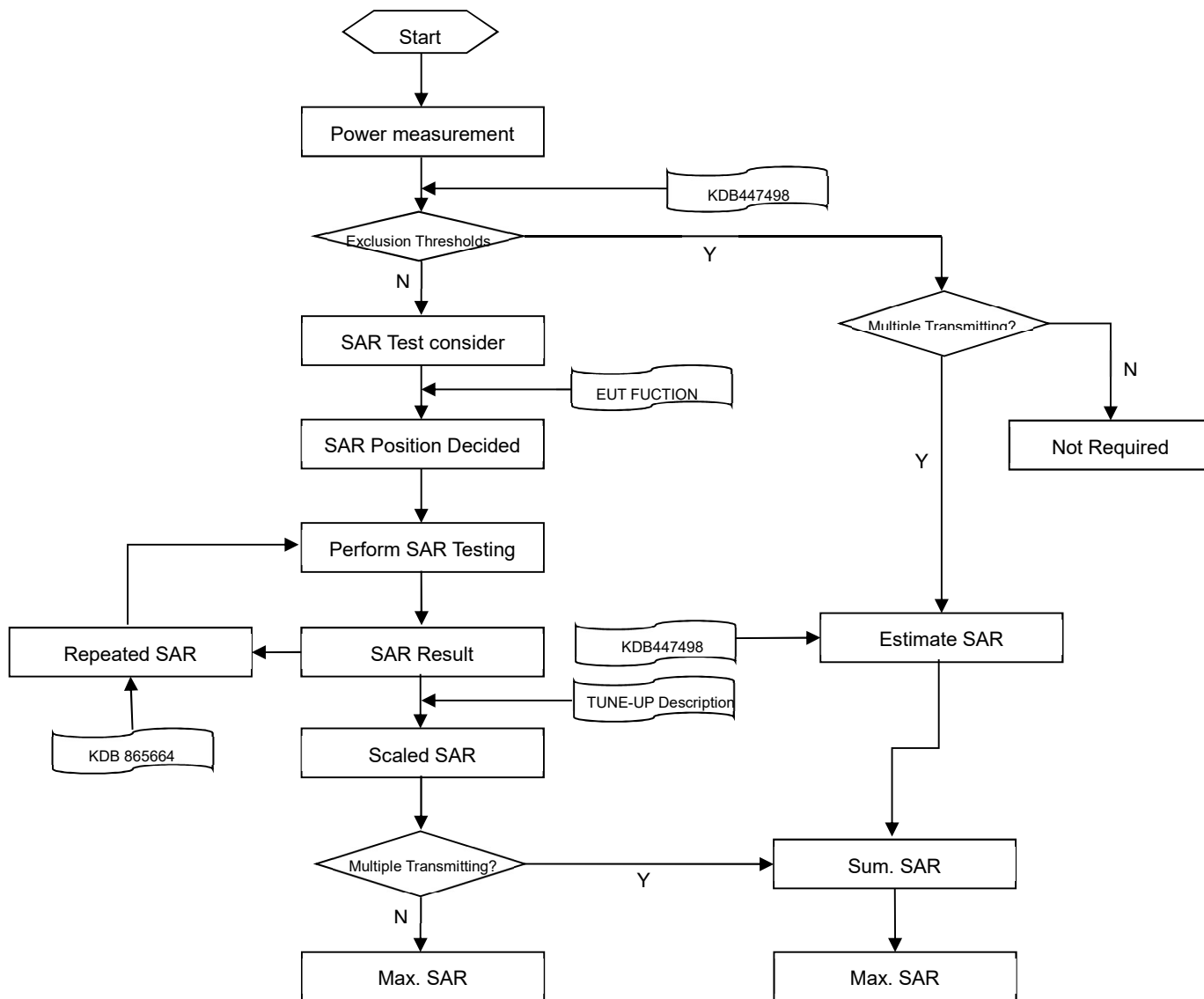
6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

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.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
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
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: 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 1st 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	≤ 1.5·Δz Zoom (n-1)		
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm

Note:

1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

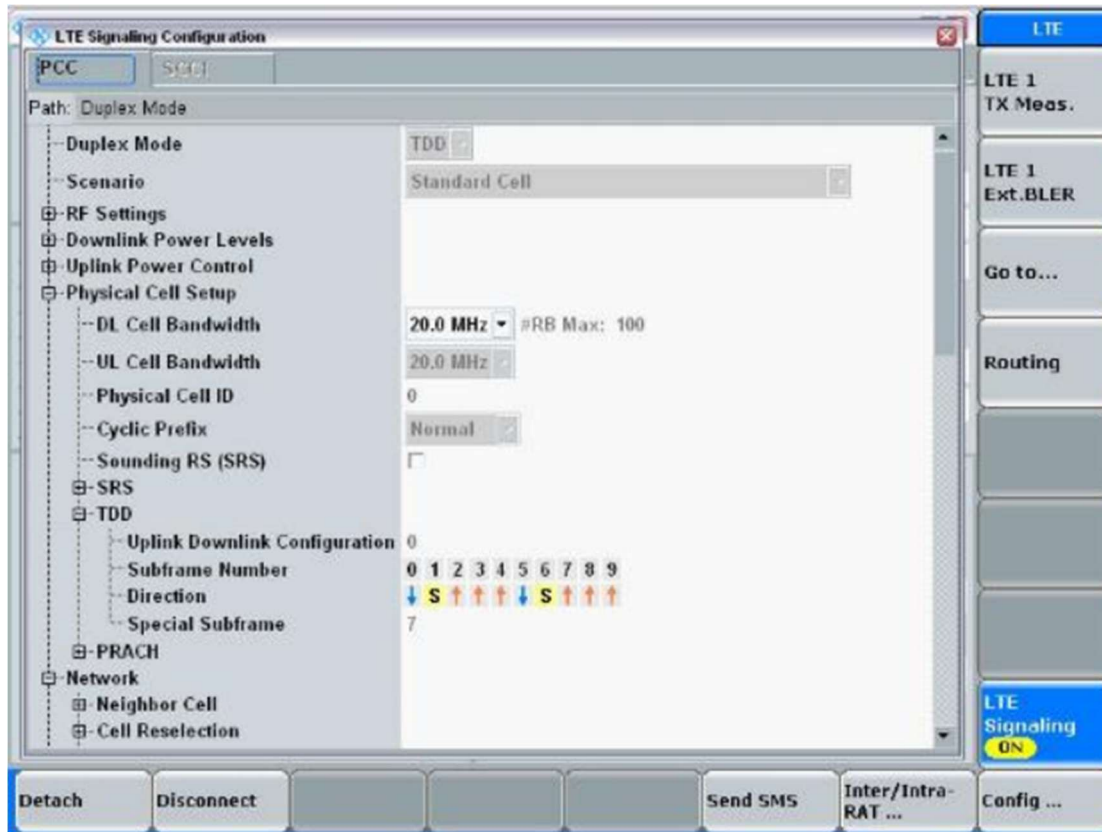
7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

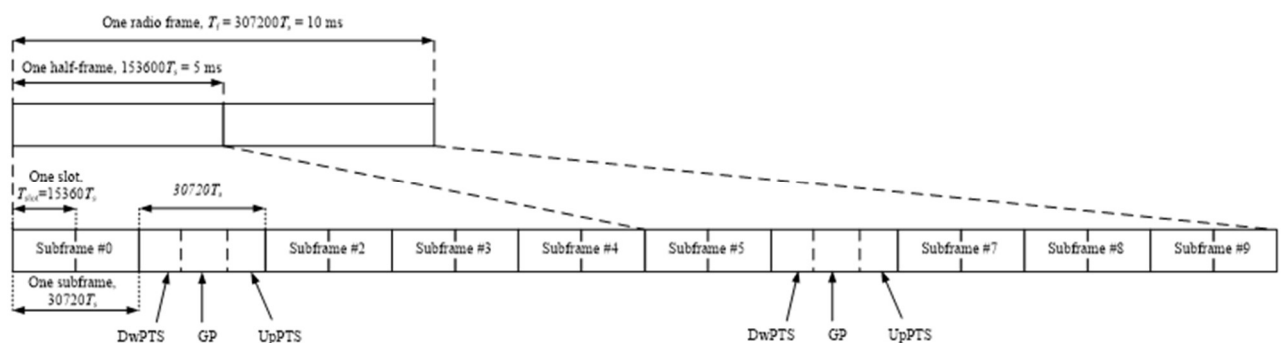
When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7.5 Area & Zoom Scan Procedure

During TDD-LTE SAR testing, the EUT was commanded to transmit on maximum output power and maximum transmitting bandwidth. The uplink and downlink slot configuration as below in one radio frame.



According to 3GPP Per 3GPP TS 36.211. Each radio frame of length ($T_f = 307200 \cdot T_s = 10\text{ms}$) of two half-frames of length ($153600 \cdot T_s = 5\text{ms}$). Each half-frame consists of five sub-frames of length ($30720 \cdot T_s = 1\text{ms}$)



And the special sub-frame with the three fields DwPTS, GP and UpPTS.

The length of DwPTS and UpPTS is given by below table subject to the total length of DwPTS, GP and UpPTS being equal to $30720 \cdot T_s = 1\text{ms}$.

Configuration of special sub-frame (lengths of DwPTS/GP/UpPTS)

Special sub-frame configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21592 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$2560 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21592 \cdot T_s$			$12800 \cdot T_s$	-	-
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-	-	-

For special sub-frame uplink time we used the largest cyclic prefix for duty cycle calculate;

Maximum uplink time of one special sub-frame=(largest cyclic prefix)/(one sub-frame of length)* time of one sub-frame= $5120 \cdot T_s / 30720 \cdot T_s \cdot 1\text{ms} = 0.167\text{ms}$

One radio frame with 6 uplink sub-frames and two special sub-frame,

there for the maximum Uplink time in one radio frame is: **$6 \cdot 1\text{ ms} + 2 \cdot 0.167\text{ ms} = 6.334\text{ms}$**

So, the duty cycle for TDD-LTE is: **$6.334\text{ms} / 10\text{ms} = 1: 1.58$**

8 CONDUCTED RF OUTPUT POWER

8.1 Power Reduction List

1. This mobile phone device supports the receiver detection mechanism .This device uses the receiver to indicate whether the user is making a call in head.
2. When device is making call in head, and the receiver will work, the power reduction will applied for SAR compliance.
3. When there is a voice call (including VOIP), the audio is actively routed through the headset or speaker, and the receiver will not work, which indicating the body exposure conditions will trigger the body exposure reduced the power.
4. When this device used data mode only, and the receiver will not work too, the reduced the power are same as body exposure.

WWAN Reduced Power Level Table

Reduced level	Receiver state	Position	Transmitting conditions
State2	On (head scenario)	Head	WWAN Use Only
State4	On (head scenario)	Head	WWAN+BT WWAN+WIFI2.4G WWAN+WIFI5G
State1	Off (body scenario)	Body	WWAN Use Only
State3	Off (body scenario)	Body	WWAN+BT WWAN+WIFI2.4G WWAN+WIFI5G

Mode	Antenna	WWAN Antenna				
		Full Power	Receiver on		Receiver off	
			Head		Body	
			Standalone	Simultaneous transmission	Standalone	Simultaneous transmission
		Full Power	State2	State4	State1	State3
GSM 850	Ant.1	33.50	32.00	31.50	33.50	33.50
GPRS850 1 Tx Slot	Ant.1	33.50	32.00	31.50	33.50	33.50
GPRS850 2 Tx Slots	Ant.1	31.00	29.50	29.00	31.00	31.00
GPRS850 3 Tx Slots	Ant.1	29.50	28.00	27.50	29.50	29.50
GPRS850 4 Tx Slots	Ant.1	28.00	26.50	26.00	28.00	28.00
EGPRS850 1 Tx Slot	Ant.1	27.80	26.30	25.80	27.80	27.80
EGPRS850 2 Tx Slots	Ant.1	25.00	23.50	23.00	25.00	25.00
EGPRS850 3 Tx Slots	Ant.1	23.50	22.00	21.50	23.50	23.50
EGPRS850 4 Tx Slots	Ant.1	22.00	20.50	20.00	22.00	22.00
GSM 850	Ant.0	32.90	32.90	32.90	32.90	32.90
GPRS850 1 Tx Slot	Ant.0	32.90	32.90	32.90	32.90	32.90
GPRS850 2 Tx Slots	Ant.0	30.40	30.40	30.40	30.40	30.40
GPRS850 3 Tx Slots	Ant.0	28.90	28.90	28.90	28.90	28.90
GPRS850 4 Tx Slots	Ant.0	27.40	27.40	27.40	27.40	27.40
EGPRS850 1 Tx Slot	Ant.0	27.20	27.20	27.20	27.20	27.20
EGPRS850 2 Tx Slots	Ant.0	24.40	24.40	24.40	24.40	24.40
EGPRS850 3 Tx Slots	Ant.0	22.90	22.90	22.90	22.90	22.90
EGPRS850 4 Tx Slots	Ant.0	21.40	21.40	21.40	21.40	21.40
GSM 1900	Ant.1	30.50	26.50	26.00	30.50	30.50
GPRS1900 1 Tx Slot	Ant.1	30.50	26.50	26.00	30.50	30.50
GPRS1900 2 Tx Slots	Ant.1	28.00	24.00	23.50	28.00	28.00
GPRS1900 3 Tx Slots	Ant.1	26.50	22.50	22.00	26.50	26.50
GPRS1900 4 Tx Slots	Ant.1	25.00	21.00	20.50	25.00	25.00
EGPRS1900 1 Tx Slot	Ant.1	26.50	22.50	22.00	26.50	26.50
EGPRS1900 2 Tx Slots	Ant.1	24.00	20.00	19.50	24.00	24.00
EGPRS1900 3 Tx Slots	Ant.1	22.50	18.50	18.00	22.50	22.50
EGPRS1900 4 Tx Slots	Ant.1	21.00	17.00	16.50	21.00	21.00
GSM 1900	Ant.2	30.10	30.10	30.10	29.10	27.60
GPRS1900 1 Tx Slot	Ant.2	30.10	30.10	30.10	29.10	27.60
GPRS1900 2 Tx Slots	Ant.2	27.60	27.60	27.60	26.60	25.10
GPRS1900 3 Tx Slots	Ant.2	26.10	26.10	26.10	25.10	23.60
GPRS1900 4 Tx Slots	Ant.2	24.60	24.60	24.60	23.60	22.10
EGPRS1900 1 Tx Slot	Ant.2	26.10	26.10	26.10	25.10	23.60
EGPRS1900 2 Tx Slots	Ant.2	23.60	23.60	23.60	22.60	21.10
EGPRS1900 3 Tx Slots	Ant.2	22.10	22.10	22.10	21.10	19.60

EGPRS1900 4 Tx Slots	Ant.2	20.60	20.60	20.60	19.60	18.10
WCDMA Band2 RMC	Ant.1	25.00	17.00	16.50	21.00	19.50
WCDMA Band2 AMR	Ant.1	25.00	17.00	16.50	21.00	19.50
HSDPA Subtest-1	Ant.1	24.00	16.00	15.50	20.00	18.50
HSDPA Subtest-2	Ant.1	24.00	16.00	15.50	20.00	18.50
HSDPA Subtest-3	Ant.1	23.50	15.50	15.00	19.50	18.00
HSDPA Subtest-4	Ant.1	23.50	15.50	15.00	19.50	18.00
DC-HSDPA Subtest-1	Ant.1	24.00	16.00	15.50	20.00	18.50
DC-HSDPA Subtest-2	Ant.1	24.00	16.00	15.50	20.00	18.50
DC-HSDPA Subtest-3	Ant.1	23.50	15.50	15.00	19.50	18.00
DC-HSDPA Subtest-4	Ant.1	23.50	15.50	15.00	19.50	18.00
HSUPA Subtest-1	Ant.1	24.00	16.00	15.50	20.00	18.50
HSUPA Subtest-2	Ant.1	22.00	14.00	13.50	18.00	16.50
HSUPA Subtest-3	Ant.1	23.00	15.00	14.50	19.00	17.50
HSUPA Subtest-4	Ant.1	22.00	14.00	13.50	18.00	16.50
HSUPA Subtest-5	Ant.1	24.00	16.00	15.50	20.00	18.50
WCDMA Band2 RMC	Ant.2	24.40	24.40	24.40	19.40	17.90
WCDMA Band2 AMR	Ant.2	24.40	24.40	24.40	19.40	17.90
HSDPA Subtest-1	Ant.2	23.40	23.40	23.40	18.40	16.90
HSDPA Subtest-2	Ant.2	23.40	23.40	23.40	18.40	16.90
HSDPA Subtest-3	Ant.2	22.90	22.90	22.90	17.90	16.40
HSDPA Subtest-4	Ant.2	22.90	22.90	22.90	17.90	16.40
DC-HSDPA Subtest-1	Ant.2	23.40	23.40	23.40	18.40	16.90
DC-HSDPA Subtest-2	Ant.2	23.40	23.40	23.40	18.40	16.90
DC-HSDPA Subtest-3	Ant.2	22.90	22.90	22.90	17.90	16.40
DC-HSDPA Subtest-4	Ant.2	22.90	22.90	22.90	17.90	16.40
HSUPA Subtest-1	Ant.2	23.40	23.40	23.40	18.40	16.90
HSUPA Subtest-2	Ant.2	21.40	21.40	21.40	16.40	14.90
HSUPA Subtest-3	Ant.2	22.40	22.40	22.40	17.40	15.90
HSUPA Subtest-4	Ant.2	21.40	21.40	21.40	16.40	14.90
HSUPA Subtest-5	Ant.2	23.40	23.40	23.40	18.40	16.90
WCDMA Band4 RMC	Ant.1	25.00	18.00	17.50	21.50	20.00
WCDMA Band4 AMR	Ant.1	25.00	18.00	17.50	21.50	20.00
HSDPA Subtest-1	Ant.1	24.00	17.00	16.50	20.50	19.00
HSDPA Subtest-2	Ant.1	24.00	17.00	16.50	20.50	19.00
HSDPA Subtest-3	Ant.1	23.50	16.50	16.00	20.00	18.50
HSDPA Subtest-4	Ant.1	23.50	16.50	16.00	20.00	18.50
DC-HSDPA Subtest-1	Ant.1	24.00	17.00	16.50	20.50	19.00
DC-HSDPA Subtest-2	Ant.1	24.00	17.00	16.50	20.50	19.00
DC-HSDPA Subtest-3	Ant.1	23.50	16.50	16.00	20.00	18.50
DC-HSDPA Subtest-4	Ant.1	23.50	16.50	16.00	20.00	18.50

HSUPA Subtest-1	Ant.1	24.00	17.00	16.50	20.50	19.00
HSUPA Subtest-2	Ant.1	22.00	15.00	14.50	18.50	17.00
HSUPA Subtest-3	Ant.1	23.00	16.00	15.50	19.50	18.00
HSUPA Subtest-4	Ant.1	22.00	15.00	14.50	18.50	17.00
HSUPA Subtest-5	Ant.1	24.00	17.00	16.50	20.50	19.00
WCDMA Band4 RMC	Ant.2	24.40	24.40	24.40	20.40	18.90
WCDMA Band4 AMR	Ant.2	24.40	24.40	24.40	20.40	18.90
HSDPA Subtest-1	Ant.2	23.40	23.40	23.40	19.40	17.90
HSDPA Subtest-2	Ant.2	23.40	23.40	23.40	19.40	17.90
HSDPA Subtest-3	Ant.2	22.90	22.90	22.90	18.90	17.40
HSDPA Subtest-4	Ant.2	22.90	22.90	22.90	18.90	17.40
DC-HSDPA Subtest-1	Ant.2	23.40	23.40	23.40	19.40	17.90
DC-HSDPA Subtest-2	Ant.2	23.40	23.40	23.40	19.40	17.90
DC-HSDPA Subtest-3	Ant.2	22.90	22.90	22.90	18.90	17.40
DC-HSDPA Subtest-4	Ant.2	22.90	22.90	22.90	18.90	17.40
HSUPA Subtest-1	Ant.2	23.40	23.40	23.40	19.40	17.90
HSUPA Subtest-2	Ant.2	21.40	21.40	21.40	17.40	15.90
HSUPA Subtest-3	Ant.2	22.40	22.40	22.40	18.40	16.90
HSUPA Subtest-4	Ant.2	21.40	21.40	21.40	17.40	15.90
HSUPA Subtest-5	Ant.2	23.40	23.40	23.40	19.40	17.90
WCDMA Band5 RMC	Ant.1	25.00	23.50	23.00	24.50	23.00
WCDMA Band5 AMR	Ant.1	25.00	23.50	23.00	24.50	23.00
HSDPA Subtest-1	Ant.1	24.00	22.50	22.00	23.50	22.00
HSDPA Subtest-2	Ant.1	24.00	22.50	22.00	23.50	22.00
HSDPA Subtest-3	Ant.1	23.50	22.00	21.50	23.00	21.50
HSDPA Subtest-4	Ant.1	23.50	22.00	21.50	23.00	21.50
DC-HSDPA Subtest-1	Ant.1	24.00	22.50	22.00	23.50	22.00
DC-HSDPA Subtest-2	Ant.1	24.00	22.50	22.00	23.50	22.00
DC-HSDPA Subtest-3	Ant.1	23.50	22.00	21.50	23.00	21.50
DC-HSDPA Subtest-4	Ant.1	23.50	22.00	21.50	23.00	21.50
HSUPA Subtest-1	Ant.1	24.00	22.50	22.00	23.50	22.00
HSUPA Subtest-2	Ant.1	22.00	20.50	20.00	21.50	20.00
HSUPA Subtest-3	Ant.1	23.00	21.50	21.00	22.50	21.00
HSUPA Subtest-4	Ant.1	22.00	20.50	20.00	21.50	20.00
HSUPA Subtest-5	Ant.1	24.00	22.50	22.00	23.50	22.00
WCDMA Band5 RMC	Ant.0	24.20	24.20	24.20	24.20	24.20
WCDMA Band5 AMR	Ant.0	24.20	24.20	24.20	24.20	24.20
HSDPA Subtest-1	Ant.0	23.20	23.20	23.20	23.20	23.20
HSDPA Subtest-2	Ant.0	23.20	23.20	23.20	23.20	23.20
HSDPA Subtest-3	Ant.0	22.70	22.70	22.70	22.70	22.70
HSDPA Subtest-4	Ant.0	22.70	22.70	22.70	22.70	22.70

DC-HSDPA Subtest-1	Ant.0	23.20	23.20	23.20	23.20	23.20
DC-HSDPA Subtest-2	Ant.0	23.20	23.20	23.20	23.20	23.20
DC-HSDPA Subtest-3	Ant.0	22.70	22.70	22.70	22.70	22.70
DC-HSDPA Subtest-4	Ant.0	22.70	22.70	22.70	22.70	22.70
HSUPA Subtest-1	Ant.0	23.20	23.20	23.20	23.20	23.20
HSUPA Subtest-2	Ant.0	21.20	21.20	21.20	21.20	21.20
HSUPA Subtest-3	Ant.0	22.20	22.20	22.20	22.20	22.20
HSUPA Subtest-4	Ant.0	21.20	21.20	21.20	21.20	21.20
HSUPA Subtest-5	Ant.0	23.20	23.20	23.20	23.20	23.20
LTE Band2	Ant.1	25.00	16.00	15.50	21.00	19.50
LTE Band2	Ant.2	24.60	24.60	24.60	20.60	19.10
LTE Band4	Ant.1	25.00	17.00	16.50	21.50	20.00
LTE Band4	Ant.2	24.60	24.60	24.60	20.10	18.60
LTE Band5	Ant.1	25.00	23.50	23.00	24.00	22.50
LTE Band5	Ant.0	24.40	24.40	24.40	24.40	24.40
LTE Band7	Ant.1	25.00	16.00	15.50	17.50	16.00
LTE Band7	Ant.2	24.60	24.60	24.60	22.10	20.60
LTE Band13	Ant.1	25.00	25.00	25.00	25.00	25.00
LTE Band13	Ant.0	24.40	24.40	24.40	23.90	22.40
LTE Band18	Ant.1	25.00	24.50	24.50	24.50	23.00
LTE Band18	Ant.0	24.40	24.40	24.40	24.40	24.40
LTE Band19	Ant.1	25.00	24.00	23.50	24.50	23.00
LTE Band19	Ant.0	24.40	24.40	24.40	24.40	24.40
LTE Band26	Ant.1	25.00	24.00	23.50	24.00	22.50
LTE Band26	Ant.0	24.40	24.40	24.40	24.40	24.40
LTE Band66	Ant.1	25.00	17.00	16.50	21.50	20.00
LTE Band66	Ant.2	24.60	24.60	24.60	20.10	18.60
LTE Band38	Ant.1	25.00	20.00	19.50	21.00	19.50
LTE Band38	Ant.2	24.60	24.60	24.60	24.60	24.60
LTE Band41	Ant.1	25.00	19.00	18.50	20.00	18.50
LTE Band41	Ant.2	24.60	24.60	24.60	24.10	22.60

WLAN Reduced Power Level Table

Reduced level	Receiver state	Position	Position
Level1	On (head scenario)	Head	WIFI 2.4G Use Only WIFI 5G Use Only
Level3	On (head scenario)	Head	WWAN+WIFI2.4G WWAN+WIFI5G
Level2	Off (body scenario)	Body	WIFI 2.4G Use Only WIFI 5G Use Only
Level4	Off (body scenario)	Body	WWAN+WIFI2.4G WWAN+WIFI5G

WLAN Reduced Power Table

Mode	WIFI&Bluetooth Antenna				
	Full Power	Receiver on		Receiver off	
		Head		Body	
		Standalone	Simultaneous transmission	Standalone	Simultaneous transmission
	Off	Level1	Level3	Level2	Level4
2.4G WIFI 802.11b	20.00	15.00	14.00	20.00	18.50
2.4G WIFI 802.11g	19.00	15.00	14.00	19.00	18.50
2.4G WIFI 802.11n20	19.00	15.00	14.00	19.00	18.50
2.4G WIFI 802.11n40	18.00	15.00	14.00	18.00	18.00
2.4G WIFI VHT20	19.00	15.00	14.00	19.00	18.50
2.4G WIFI VHT40	18.00	15.00	14.00	18.00	18.00
5.2G WIFI 802.11a	18.00	15.00	13.00	13.50	12.00
5.2G WIFI 802.11n20	18.00	15.00	13.00	13.50	12.00
5.2G WIFI 802.11n40	13.50	13.50	13.00	13.50	12.00
5.2G WIFI 802.11ac20	18.00	15.00	13.00	13.50	12.00
5.2G WIFI 802.11ac40	13.50	13.50	13.00	13.50	12.00
5.2G WIFI 802.11ac80	11.50	11.50	11.50	11.50	11.50
5.3G WIFI 802.11a	18.00	15.00	13.00	13.50	12.00
5.3G WIFI 802.11n20	18.00	15.00	13.00	13.50	12.00
5.3G WIFI 802.11n40	18.00	15.00	13.00	13.50	12.00
5.3G WIFI 802.11ac20	18.00	15.00	13.00	13.50	12.00
5.3G WIFI 802.11ac40	18.00	15.00	13.00	13.50	12.00
5.3G WIFI 802.11ac80	10.00	10.00	10.00	10.00	10.00
5.6G WIFI 802.11a	17.00	15.00	13.00	13.50	12.00
5.6G WIFI 802.11n20	17.00	15.00	13.00	13.50	12.00
5.6G WIFI 802.11n40	14.50	14.50	13.00	13.50	12.00
5.6G WIFI 802.11ac20	17.00	15.00	13.00	13.50	12.00
5.6G WIFI 802.11ac40	14.50	14.50	13.00	13.50	12.00
5.6G WIFI 802.11ac80	13.00	13.00	13.00	13.00	12.00
5.8G WIFI 802.11a	19.00	15.00	13.00	13.50	12.00
5.8G WIFI 802.11n20	19.00	15.00	13.00	13.50	12.00
5.8G WIFI 802.11n40	18.00	15.00	13.00	13.50	12.00
5.8G WIFI 802.11ac20	18.00	15.00	13.00	13.50	12.00
5.8G WIFI 802.11ac40	18.00	15.00	13.00	13.50	12.00
5.8G WIFI 802.11ac80	18.00	15.00	13.00	13.50	12.00
Bluetooth	13.00	13.00	13.00	13.00	13.00

8.2 GSM

Please refer the document "BL-SZ2580929-AP.pdf".

8.3 WCDMA

Please refer the document "BL-SZ2580929-AP.pdf".

8.4 LTE

Please refer the document "BL-SZ2580929-AP.pdf".

8.5 WIFI

Please refer the document "BL-SZ2580929-AP.pdf".

8.6 Bluetooth

Please refer the document "BL-SZ2580929-AP.pdf".

9 TEST EXCLUSION CONSIDERATION

For antenna location and support bands please refer the document “BL-SZ2580929-AI EUT internal photo.pdf”.

Antenna	Front Side(mm)	Back Side(mm)	Left Edge(mm)	Right Edge(mm)	Top Edge(mm)	Bottom Edge(mm)
Ant.0	<25	<25	<25	>25	>25	<25
Ant.1	<25	<25	<25	<25	<25	>25
Ant.2	<25	<25	<25	<25	>25	<25
Ant.7	<25	<25	>25	<25	<25	>25

Note: 1.Per KDB 941225 D06,When the overall length and width of a device is > 9 cm *5 cm, a test separation distance of 10 mm is required for hotspot mode SAR measurements and hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge.

10 TEST RESULT

10.1 GSM 850

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
GSM850	State 2	ANT1	GPRS 3Slot	Left Cheek	0	190	836.6	0.16	0.395	26.21	28.00	1.510	0.596	/
GSM850	State 2	ANT1	GPRS 3Slot	Left Tilt	0	190	836.6	-0.16	0.447	26.21	28.00	1.510	0.674	/
GSM850	State 2	ANT1	GPRS 3Slot	Right Cheek	0	190	836.6	-0.01	0.486	26.21	28.00	1.510	0.734	1
GSM850	State 2	ANT1	GPRS 3Slot	Right Tilt	0	190	836.6	-0.08	0.463	26.21	28.00	1.510	0.699	/
GSM850	State 4	ANT1	GPRS 3Slot	Left Cheek	0	190	836.6	-0.14	0.351	25.55	27.50	1.567	0.551	/
GSM850	State 4	ANT1	GPRS 3Slot	Left Tilt	0	190	836.6	0.08	0.398	25.55	27.50	1.567	0.623	/
GSM850	State 4	ANT1	GPRS 3Slot	Right Cheek	0	190	836.6	-0.17	0.433	25.55	27.50	1.567	0.679	/
GSM850	State 4	ANT1	GPRS 3Slot	Right Tilt	0	190	836.6	-0.06	0.413	25.55	27.50	1.567	0.646	/
GSM850	State 2&4	ANT0	GPRS 3Slot	Left Cheek	0	190	836.6	0.17	0.392	26.98	28.90	1.556	0.609	/
GSM850	State 2&4	ANT0	GPRS 3Slot	Left Tilt	0	190	836.6	-0.09	0.063	26.98	28.90	1.556	0.098	/
GSM850	State 2&4	ANT0	GPRS 3Slot	Right Cheek	0	190	836.6	0.01	0.186	26.98	28.90	1.556	0.289	/
GSM850	State 2&4	ANT0	GPRS 3Slot	Right Tilt	0	190	836.6	-0.15	0.055	26.98	28.90	1.556	0.086	/
Body-Worn														
GSM850	State 1&3	ANT1	GPRS 3Slot	Front Side	15	190	836.6	-0.07	0.102	27.55	29.50	1.567	0.160	/
GSM850	State 1&3	ANT1	GPRS 3Slot	Back Side	15	190	836.6	-0.08	0.190	27.55	29.50	1.567	0.298	/
GSM850	State 1&3	ANT0	GPRS 3Slot	Front Side	15	190	836.6	0.19	0.128	26.98	28.90	1.556	0.199	/
GSM850	State 1&3	ANT0	GPRS 3Slot	Back Side	15	190	836.6	0.01	0.231	26.98	28.90	1.556	0.359	2
Hotspot														

GSM850	State 3	ANT1	GPRS 3Slot	Front Side	10	190	836.6	-0.04	0.193	27.55	29.50	1.567	0.302	/
GSM850	State 3	ANT1	GPRS 3Slot	Back Side	10	190	836.6	0.05	0.378	27.55	29.50	1.567	0.592	/
GSM850	State 3	ANT1	GPRS 3Slot	Left Edge	10	190	836.6	0.15	0.075	27.55	29.50	1.567	0.118	/
GSM850	State 3	ANT1	GPRS 3Slot	Right Edge	10	190	836.6	0.11	0.081	27.55	29.50	1.567	0.127	/
GSM850	State 3	ANT1	GPRS 3Slot	Top Edge	10	190	836.6	0.02	0.298	27.55	29.50	1.567	0.467	/
GSM850	State 3	ANT0	GPRS 3Slot	Front Side	10	190	836.6	-0.11	0.204	26.98	28.90	1.556	0.317	/
GSM850	State 3	ANT0	GPRS 3Slot	Back Side	10	190	836.6	0.03	0.461	26.98	28.90	1.556	0.717	/
GSM850	State 3	ANT0	GPRS 3Slot	Left Edge	10	190	836.6	-0.11	0.620	26.98	28.90	1.556	0.965	3
GSM850	State 3	ANT0	GPRS 3Slot	Left Edge	10	190	836.6	0.02	0.605	26.98	28.90	1.556	0.941	/
GSM850	State 3	ANT0	GPRS 3Slot	Bottom Edge	10	190	836.6	0.18	0.016	26.98	28.90	1.556	0.025	/
GSM850	State 3	ANT0	GPRS 3Slot	Left Edge	10	128	824.2	-0.01	0.611	26.91	28.90	1.556	0.951	/
GSM850	State 3	ANT0	GPRS 3Slot	Left Edge	10	251	848.8	0.03	0.612	26.91	28.90	1.556	0.952	/

10.2 GSM 1900

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
GSM1900	State 2	ANT1	GPRS 3Slot	Left Cheek	0	661	1880	0.19	0.326	20.51	22.50	1.581	0.515	/
GSM1900	State 2	ANT1	GPRS 3Slot	Left Tilt	0	661	1880	0.02	0.395	20.51	22.50	1.581	0.625	/
GSM1900	State 2	ANT1	GPRS 3Slot	Right Cheek	0	661	1880	0.10	0.446	20.51	22.50	1.581	0.705	/
GSM1900	State 2	ANT1	GPRS 3Slot	Right Tilt	0	661	1880	-0.04	0.531	20.51	22.50	1.581	0.840	4
GSM1900	State 2	ANT1	GPRS 3Slot	Right Tilt	0	512	1850.2	0.07	0.522	20.51	22.50	1.581	0.825	/
GSM1900	State 2	ANT1	GPRS 3Slot	Right Tilt	0	810	1909.8	-0.06	0.489	20.51	22.50	1.581	0.773	/
GSM1900	State 4	ANT1	GPRS 3Slot	Left Cheek	0	661	1880	0.06	0.247	20.08	22.00	1.556	0.384	/
GSM1900	State 4	ANT1	GPRS 3Slot	Left Tilt	0	661	1880	0.07	0.272	20.08	22.00	1.556	0.424	/
GSM1900	State 4	ANT1	GPRS 3Slot	Right Cheek	0	661	1880	0.13	0.307	20.08	22.00	1.556	0.478	/
GSM1900	State 4	ANT1	GPRS 3Slot	Right Tilt	0	661	1880	0.04	0.344	20.08	22.00	1.556	0.535	/
GSM1900	State 2&4	ANT2	GPRS 3Slot	Left Cheek	0	661	1880	-0.12	0.025	25.07	26.10	1.268	0.032	/
GSM1900	State 2&4	ANT2	GPRS 3Slot	Left Tilt	0	661	1880	0.09	0.020	25.07	26.10	1.268	0.025	/
GSM1900	State 2&4	ANT2	GPRS 3Slot	Right Cheek	0	661	1880	-0.01	0.018	25.07	26.10	1.268	0.023	/
GSM1900	State 2&4	ANT2	GPRS 3Slot	Right Tilt	0	661	1880	-0.14	0.015	25.07	26.10	1.268	0.019	/
Body-Worn														
GSM1900	State 1&3	ANT1	GPRS 3Slot	Front Side	15	661	1880	-0.15	0.168	24.55	26.50	1.567	0.263	/
GSM1900	State 1&3	ANT1	GPRS 3Slot	Back Side	15	661	1880	0.04	0.300	24.55	26.50	1.567	0.470	5
GSM1900	State 1&3	ANT1	GPRS 3Slot	Back Side	15	661	1880	-0.03	0.293	24.55	26.50	1.567	0.459	Secondary supply
GSM1900	State 1	ANT2	GPRS 3Slot	Front Side	15	661	1880	-0.14	0.114	23.12	25.10	1.578	0.180	/

GSM1900	State 1	ANT2	GPRS 3Slot	Back Side	15	661	1880	0.17	0.228	23.12	25.10	1.578	0.360	/
GSM1900	State3	ANT2	GPRS 3Slot	Front Side	15	661	1880	-0.13	0.080	21.65	23.60	1.568	0.125	/
GSM1900	State3	ANT2	GPRS 3Slot	Back Side	15	661	1880	0.05	0.161	21.65	23.60	1.568	0.252	/
Hotspot														
GSM1900	State 3	ANT1	GPRS 3Slot	Front Side	10	661	1880	-0.01	0.293	24.55	26.50	1.567	0.459	/
GSM1900	State 3	ANT1	GPRS 3Slot	Back Side	10	661	1880	-0.01	0.457	24.55	26.50	1.567	0.716	/
GSM1900	State 3	ANT1	GPRS 3Slot	Left Edge	10	661	1880	0.12	0.095	24.55	26.50	1.567	0.149	/
GSM1900	State 3	ANT1	GPRS 3Slot	Right Edge	10	661	1880	-0.06	0.044	24.55	26.50	1.567	0.069	/
GSM1900	State 3	ANT1	GPRS 3Slot	Top Edge	10	661	1880	-0.16	0.550	24.55	26.50	1.567	0.862	6
GSM1900	State 3	ANT1	GPRS 3Slot	Top Edge	10	512	1850.2	-0.07	0.488	24.57	26.50	1.560	0.761	/
GSM1900	State 3	ANT1	GPRS 3Slot	Top Edge	10	810	1909.8	0.01	0.501	24.72	26.50	1.507	0.755	/
GSM1900	State 3	ANT2	GPRS 3Slot	Front Side	10	661	1880	-0.01	0.149	21.65	23.60	1.568	0.234	/
GSM1900	State 3	ANT2	GPRS 3Slot	Back Side	10	661	1880	0.12	0.333	21.65	23.60	1.568	0.522	/
GSM1900	State 3	ANT2	GPRS 3Slot	Left Edge	10	661	1880	-0.16	0.029	21.65	23.60	1.568	0.045	/
GSM1900	State 3	ANT2	GPRS 3Slot	Right Edge	10	661	1880	0.05	0.033	21.65	23.60	1.568	0.052	/
GSM1900	State 3	ANT2	GPRS 3Slot	Bottom Edge	10	661	1880	0.09	0.472	21.65	23.60	1.568	0.740	/

10.3WCDMA Band 2

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
WCDMAB2	State 2	ANT1	RMC	Left Cheek	0	9400	1880	0.06	0.398	16.75	17.00	1.059	0.422	/
WCDMAB2	State 2	ANT1	RMC	Left Tilt	0	9400	1880	-0.14	0.474	16.75	17.00	1.059	0.502	/
WCDMAB2	State 2	ANT1	RMC	Right Cheek	0	9400	1880	0.01	0.566	16.75	17.00	1.059	0.600	/
WCDMAB2	State 2	ANT1	RMC	Right Tilt	0	9400	1880	-0.02	0.768	16.75	17.00	1.059	0.814	7
WCDMAB2	State 2	ANT1	RMC	Right Tilt	0	9262	1852.4	0.17	0.610	16.72	17.00	1.067	0.651	/
WCDMAB2	State 2	ANT1	RMC	Right Tilt	0	9538	1907.6	-0.17	0.651	16.74	17.00	1.062	0.691	/
WCDMAB2	State 4	ANT1	RMC	Left Cheek	0	9400	1880	0.17	0.355	16.27	16.50	1.054	0.374	/
WCDMAB2	State 4	ANT1	RMC	Left Tilt	0	9400	1880	0.17	0.422	16.27	16.50	1.054	0.445	/
WCDMAB2	State 4	ANT1	RMC	Right Cheek	0	9400	1880	0.13	0.504	16.27	16.50	1.054	0.531	/
WCDMAB2	State 4	ANT1	RMC	Right Tilt	0	9400	1880	0.05	0.636	16.27	16.50	1.054	0.671	/
WCDMAB2	State 2&4	ANT2	RMC	Left Cheek	0	9400	1880	0.01	0.105	24.18	24.40	1.052	0.110	/
WCDMAB2	State 2&4	ANT2	RMC	Left Tilt	0	9400	1880	-0.06	0.086	24.18	24.40	1.052	0.090	/
WCDMAB2	State 2&4	ANT2	RMC	Right Cheek	0	9400	1880	-0.14	0.142	24.18	24.40	1.052	0.149	/
WCDMAB2	State 2&4	ANT2	RMC	Right Tilt	0	9400	1880	-0.16	0.093	24.18	24.40	1.052	0.098	/
Body-Worn														
WCDMAB2	State 1	ANT1	RMC	Front Side	15	9400	1880	-0.03	0.185	20.55	21.00	1.109	0.205	/
WCDMAB2	State 1	ANT1	RMC	Back Side	15	9400	1880	-0.01	0.365	20.55	21.00	1.109	0.405	8
WCDMAB2	State 3	ANT1	RMC	Front Side	15	9400	1880	-0.18	0.131	19.05	19.50	1.109	0.145	/
WCDMAB2	State 3	ANT1	RMC	Back Side	15	9400	1880	-0.16	0.197	19.05	19.50	1.109	0.219	/

WCDMAB2	State 1	ANT2	RMC	Front Side	15	9400	1880	-0.11	0.087	19.39	19.40	1.002	0.087	/
WCDMAB2	State 1	ANT2	RMC	Back Side	15	9400	1880	0.01	0.196	19.39	19.40	1.002	0.196	/
WCDMAB2	State 3	ANT2	RMC	Front Side	15	9400	1880	0.15	0.062	17.86	17.90	1.009	0.063	/
WCDMAB2	State 3	ANT2	RMC	Back Side	15	9400	1880	0.14	0.139	17.86	17.90	1.009	0.140	/
Hotspot														
WCDMAB2	State 3	ANT1	RMC	Front Side	10	9400	1880	-0.11	0.257	19.05	19.50	1.109	0.285	/
WCDMAB2	State 3	ANT1	RMC	Back Side	10	9400	1880	0.11	0.372	19.05	19.50	1.109	0.413	/
WCDMAB2	State 3	ANT1	RMC	Left Edge	10	9400	1880	-0.02	0.081	19.05	19.50	1.109	0.090	/
WCDMAB2	State 3	ANT1	RMC	Right Edge	10	9400	1880	0.09	0.042	19.05	19.50	1.109	0.047	/
WCDMAB2	State 3	ANT1	RMC	Top Edge	10	9400	1880	-0.03	0.609	19.05	19.50	1.109	0.675	9
WCDMAB2	State 3	ANT2	RMC	Front Side	10	9400	1880	-0.12	0.122	17.86	17.90	1.009	0.123	/
WCDMAB2	State 3	ANT2	RMC	Back Side	10	9400	1880	-0.02	0.278	17.86	17.90	1.009	0.281	/
WCDMAB2	State 3	ANT2	RMC	Left Edge	10	9400	1880	-0.08	0.030	17.86	17.90	1.009	0.030	/
WCDMAB2	State 3	ANT2	RMC	Right Edge	10	9400	1880	0.14	0.031	17.86	17.90	1.009	0.031	/
WCDMAB2	State 3	ANT2	RMC	Bottom Edge	10	9400	1880	0.09	0.378	17.86	17.90	1.009	0.381	/

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific														
WCDMAB2	State 1	ANT1	RMC	Front Side	0	9400	1880	0.18	1.160	20.55	21.00	1.109	1.287	/
WCDMAB2	State 1	ANT1	RMC	Back Side	0	9400	1880	-0.10	1.310	20.55	21.00	1.109	1.453	/
WCDMAB2	State 1	ANT1	RMC	Top Edge	0	9400	1880	0.07	1.690	20.55	21.00	1.109	1.875	10
WCDMAB2	State 3	ANT1	RMC	Front Side	0	9400	1880	0.08	0.823	19.05	19.50	1.109	0.913	/

WCDMAB2	State 3	ANT1	RMC	Back Side	0	9400	1880	-0.07	0.927	19.05	19.50	1.109	1.028	/
WCDMAB2	State 3	ANT1	RMC	Top Edge	0	9400	1880	-0.03	0.953	19.05	19.50	1.109	1.057	/
WCDMAB2	State 1	ANT2	RMC	Back Side	0	9400	1880	0.03	1.160	19.39	19.40	1.002	1.163	/
WCDMAB2	State 1	ANT2	RMC	Bottom Edge	0	9400	1880	-0.08	1.300	19.39	19.40	1.002	1.303	/
WCDMAB2	State 3	ANT2	RMC	Back Side	0	9400	1880	0.18	0.824	17.86	17.90	1.009	0.832	/
WCDMAB2	State 3	ANT2	RMC	Bottom Edge	0	9400	1880	-0.06	0.927	17.86	17.90	1.009	0.936	/

10.4WCDMA Band 4

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
WCDMAB4	State 2	ANT1	RMC	Left Cheek	0	1412	1732.4	-0.04	0.393	17.84	18.00	1.038	0.408	/
WCDMAB4	State 2	ANT1	RMC	Left Tilt	0	1412	1732.4	0.15	0.409	17.84	18.00	1.038	0.424	/
WCDMAB4	State 2	ANT1	RMC	Right Cheek	0	1412	1732.4	0.03	0.537	17.84	18.00	1.038	0.557	/
WCDMAB4	State 2	ANT1	RMC	Right Tilt	0	1412	1732.4	-0.08	0.729	17.84	18.00	1.038	0.756	11
WCDMAB4	State 4	ANT1	RMC	Left Cheek	0	1412	1732.4	0.02	0.350	17.38	17.50	1.028	0.360	/
WCDMAB4	State 4	ANT1	RMC	Left Tilt	0	1412	1732.4	0.03	0.365	17.38	17.50	1.028	0.375	/
WCDMAB4	State 4	ANT1	RMC	Right Cheek	0	1412	1732.4	-0.09	0.478	17.38	17.50	1.028	0.491	/
WCDMAB4	State 4	ANT1	RMC	Right Tilt	0	1412	1732.4	-0.11	0.532	17.38	17.50	1.028	0.547	/
WCDMAB4	State 2&4	ANT2	RMC	Left Cheek	0	1412	1732.4	-0.06	0.076	24.39	24.40	1.002	0.076	/
WCDMAB4	State 2&4	ANT2	RMC	Left Tilt	0	1412	1732.4	0.01	0.023	24.39	24.40	1.002	0.023	/
WCDMAB4	State 2&4	ANT2	RMC	Right Cheek	0	1412	1732.4	-0.16	0.081	24.39	24.40	1.002	0.081	/
WCDMAB4	State 2&4	ANT2	RMC	Right Tilt	0	1412	1732.4	0.17	0.035	24.39	24.40	1.002	0.035	/
Body-Worn														
WCDMAB4	State 1	ANT1	RMC	Front Side	15	1412	1732.4	-0.01	0.151	17.84	18.00	1.038	0.157	/
WCDMAB4	State 1	ANT1	RMC	Back Side	15	1412	1732.4	0.11	0.189	17.84	18.00	1.038	0.196	/
WCDMAB4	State3	ANT1	RMC	Front Side	15	1412	1732.4	-0.11	0.107	19.79	20.00	1.050	0.112	/
WCDMAB4	State3	ANT1	RMC	Back Side	15	1412	1732.4	-0.10	0.134	19.79	20.00	1.050	0.141	/
WCDMAB4	State 1	ANT2	RMC	Front Side	15	1412	1732.4	0.16	0.109	20.37	20.40	1.007	0.110	/
WCDMAB4	State 1	ANT2	RMC	Back Side	15	1412	1732.4	0.09	0.295	20.37	20.40	1.007	0.297	12
WCDMAB4	State3	ANT2	RMC	Front Side	15	1412	1732.4	-0.11	0.078	18.87	18.90	1.007	0.079	/
WCDMAB4	State3	ANT2	RMC	Back Side	15	1412	1732.4	0.17	0.156	18.87	18.90	1.007	0.157	/

Hotspot														
WCDMAB4	State 3	ANT1	RMC	Front Side	10	1412	1732.4	-0.10	0.218	19.79	20.00	1.050	0.229	/
WCDMAB4	State 3	ANT1	RMC	Back Side	10	1412	1732.4	-0.04	0.269	19.79	20.00	1.050	0.282	/
WCDMAB4	State 3	ANT1	RMC	Left Edge	10	1412	1732.4	-0.07	0.060	19.79	20.00	1.050	0.063	/
WCDMAB4	State 3	ANT1	RMC	Right Edge	10	1412	1732.4	-0.16	0.036	19.79	20.00	1.050	0.038	/
WCDMAB4	State 3	ANT1	RMC	Top Edge	10	1412	1732.4	0.18	0.351	19.79	20.00	1.050	0.368	/
WCDMAB4	State 3	ANT2	RMC	Front Side	10	1412	1732.4	-0.05	0.148	18.87	18.90	1.007	0.149	/
WCDMAB4	State 3	ANT2	RMC	Back Side	10	1412	1732.4	-0.06	0.327	18.87	18.90	1.007	0.329	/
WCDMAB4	State 3	ANT2	RMC	Left Edge	10	1412	1732.4	0.08	0.026	18.87	18.90	1.007	0.026	/
WCDMAB4	State 3	ANT2	RMC	Right Edge	10	1412	1732.4	-0.14	0.032	18.87	18.90	1.007	0.032	/
WCDMAB4	State 3	ANT2	RMC	Bottom Edge	10	1412	1732.4	-0.05	0.458	18.87	18.90	1.007	0.461	13

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific														
WCDMAB4	State 1	ANT1	RMC	Top Edge	0	1412	1732.4	0.06	1.870	17.84	18.00	1.038	1.940	/
WCDMAB4	State3	ANT1	RMC	Top Edge	0	1412	1732.4	-0.14	1.320	19.79	20.00	1.050	1.385	/
WCDMAB4	State 1	ANT2	RMC	Back Side	0	1412	1732.4	0.12	1.290	20.37	20.40	1.007	1.299	/
WCDMAB4	State 1	ANT2	RMC	Bottom Edge	0	1412	1732.4	0.03	2.740	20.37	20.40	1.007	2.759	14
WCDMAB4	State 1	ANT2	RMC	Bottom Edge	0	1412	1732.4	0.06	2.680	20.37	20.40	1.007	2.699	Secondary supply
WCDMAB4	State 1	ANT2	RMC	Bottom Edge	0	1312	1712.4	0.03	2.520	20.32	20.40	1.019	2.567	/
WCDMAB4	State 1	ANT2	RMC	Bottom Edge	0	1513	1752.6	-0.08	2.560	20.33	20.40	1.016	2.602	/
WCDMAB4	State3	ANT2	RMC	Back Side	0	1412	1732.4	-0.16	0.913	18.87	18.90	1.007	0.919	/

WCDMAB4	State3	ANT2	RMC	Bottom Edge	0	1412	1732.4	-0.14	1.460	18.87	18.90	1.007	1.470	/
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10.5WCDMA Band 5

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
WCDMAB5	State 2	ANT1	RMC	Left Cheek	0	4182	836.4	0.03	0.410	22.75	23.50	1.189	0.487	/
WCDMAB5	State 2	ANT1	RMC	Left Tilt	0	4182	836.4	0.01	0.379	22.75	23.50	1.189	0.450	/
WCDMAB5	State 2	ANT1	RMC	Right Cheek	0	4182	836.4	-0.08	0.440	22.75	23.50	1.189	0.523	15
WCDMAB5	State 2	ANT1	RMC	Right Tilt	0	4182	836.4	-0.02	0.437	22.75	23.50	1.189	0.520	/
WCDMAB5	State 4	ANT1	RMC	Left Cheek	0	4182	836.4	-0.06	0.365	22.32	23.00	1.169	0.427	/
WCDMAB5	State 4	ANT1	RMC	Left Tilt	0	4182	836.4	-0.17	0.392	22.32	23.00	1.169	0.458	/
WCDMAB5	State 4	ANT1	RMC	Right Cheek	0	4182	836.4	-0.03	0.390	22.32	23.00	1.169	0.456	/
WCDMAB5	State 4	ANT1	RMC	Right Tilt	0	4182	836.4	0.12	0.390	22.32	23.00	1.169	0.456	/
WCDMAB5	State 2&4	ANT0	RMC	Left Cheek	0	4182	836.4	-0.02	0.434	24.05	24.20	1.035	0.449	/
WCDMAB5	State 2&4	ANT0	RMC	Left Tilt	0	4182	836.4	0.03	0.104	24.05	24.20	1.035	0.108	/
WCDMAB5	State 2&4	ANT0	RMC	Right Cheek	0	4182	836.4	-0.08	0.361	24.05	24.20	1.035	0.374	/
WCDMAB5	State 2&4	ANT0	RMC	Right Tilt	0	4182	836.4	0.11	0.104	24.05	24.20	1.035	0.108	/
Body-Worn														
WCDMAB5	State 1	ANT1	RMC	Front Side	15	4182	836.4	0.09	0.065	23.78	24.50	1.180	0.077	/
WCDMAB5	State 1	ANT1	RMC	Back Side	15	4182	836.4	0.12	0.111	23.78	24.50	1.180	0.131	/
WCDMAB5	State3	ANT1	RMC	Front Side	15	4182	836.4	0.10	0.046	22.32	23.00	1.169	0.054	/
WCDMAB5	State3	ANT1	RMC	Back Side	15	4182	836.4	0.03	0.079	22.32	23.00	1.169	0.092	/
WCDMAB5	State 1&3	ANT0	RMC	Front Side	15	4182	836.4	-0.15	0.179	24.05	24.20	1.035	0.185	/
WCDMAB5	State 1&3	ANT0	RMC	Back Side	15	4182	836.4	-0.07	0.336	24.05	24.20	1.035	0.348	16

Hotspot														
WCDMAB5	State 3	ANT1	RMC	Front Side	10	4182	836.4	0.06	0.037	22.32	23.00	1.169	0.043	/
WCDMAB5	State 3	ANT1	RMC	Back Side	10	4182	836.4	-0.15	0.075	22.32	23.00	1.169	0.088	/
WCDMAB5	State 3	ANT1	RMC	Left Edge	10	4182	836.4	-0.02	0.015	22.32	23.00	1.169	0.018	/
WCDMAB5	State 3	ANT1	RMC	Right Edge	10	4182	836.4	-0.16	0.016	22.32	23.00	1.169	0.019	/
WCDMAB5	State 3	ANT1	RMC	Top Edge	10	4182	836.4	-0.05	0.060	22.32	23.00	1.169	0.070	/
WCDMAB5	State 3	ANT0	RMC	Front Side	10	4182	836.4	-0.09	0.291	24.05	24.20	1.035	0.301	/
WCDMAB5	State 3	ANT0	RMC	Back Side	10	4182	836.4	-0.14	0.583	24.05	24.20	1.035	0.603	/
WCDMAB5	State 3	ANT0	RMC	Left Edge	10	4182	836.4	-0.16	0.853	24.05	24.20	1.035	0.883	/
WCDMAB5	State 3	ANT0	RMC	Bottom Edge	10	4182	836.4	0.06	0.033	24.05	24.20	1.035	0.034	/
WCDMAB5	State 3	ANT0	RMC	Left Edge	10	4132	826.4	0.09	0.655	24.05	24.20	1.035	0.678	/
WCDMAB5	State 3	ANT0	RMC	Left Edge	10	4233	846.6	-0.10	0.888	24.05	24.20	1.035	0.919	17
WCDMAB5	State 3	ANT0	RMC	Left Edge	10	4233	846.6	0.03	0.861	24.05	24.20	1.035	0.891	Reperat

10.6LTE Band 2 (20MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB2	State 2	ANT1	QPSK	Left Cheek	0	18900	1880	20	1	LOW	0.13	0.210	15.69	16.00	1.074	0.226	/
LTEB2	State 2	ANT1	QPSK	Left Tilt	0	18900	1880	20	1	LOW	0.05	0.253	15.69	16.00	1.074	0.272	/
LTEB2	State 2	ANT1	QPSK	Right Cheek	0	18900	1880	20	1	LOW	0.19	0.310	15.69	16.00	1.074	0.333	/
LTEB2	State 2	ANT1	QPSK	Right Tilt	0	18900	1880	20	1	LOW	-0.16	0.648	15.69	16.00	1.074	0.696	18
LTEB2	State 2	ANT1	QPSK	Left Cheek	0	18900	1880	20	50	LOW	0.16	0.198	15.60	16.00	1.096	0.217	/
LTEB2	State 2	ANT1	QPSK	Left Tilt	0	18900	1880	20	50	LOW	-0.13	0.239	15.60	16.00	1.096	0.262	/
LTEB2	State 2	ANT1	QPSK	Right Cheek	0	18900	1880	20	50	LOW	0.03	0.293	15.60	16.00	1.096	0.321	/
LTEB2	State 2	ANT1	QPSK	Right Tilt	0	18900	1880	20	50	LOW	-0.11	0.338	15.60	16.00	1.096	0.371	/
LTEB2	State 4	ANT1	QPSK	Left Cheek	0	18900	1880	20	1	LOW	-0.05	0.187	15.46	15.50	1.009	0.189	/
LTEB2	State 4	ANT1	QPSK	Left Tilt	0	18900	1880	20	1	LOW	-0.18	0.225	15.46	15.50	1.009	0.227	/
LTEB2	State 4	ANT1	QPSK	Right Cheek	0	18900	1880	20	1	LOW	-0.05	0.276	15.46	15.50	1.009	0.279	/
LTEB2	State 4	ANT1	QPSK	Right Tilt	0	18900	1880	20	1	LOW	-0.09	0.551	15.46	15.50	1.009	0.556	/
LTEB2	State 4	ANT1	QPSK	Left Cheek	0	18900	1880	20	50	LOW	-0.16	0.312	15.17	15.50	1.079	0.337	/
LTEB2	State 4	ANT1	QPSK	Left Tilt	0	18900	1880	20	50	LOW	0.12	0.563	15.17	15.50	1.079	0.607	/
LTEB2	State 4	ANT1	QPSK	Right Cheek	0	18900	1880	20	50	LOW	-0.13	0.261	15.17	15.50	1.079	0.282	/
LTEB2	State 4	ANT1	QPSK	Right Tilt	0	18900	1880	20	50	LOW	-0.15	0.301	15.17	15.50	1.079	0.325	/
LTEB2	State 2&4	ANT2	QPSK	Left Cheek	0	18900	1880	20	1	LOW	0.13	0.070	24.00	24.60	1.148	0.080	/
LTEB2	State 2&4	ANT2	QPSK	Left Tilt	0	18900	1880	20	1	LOW	0.12	0.063	24.00	24.60	1.148	0.072	/
LTEB2	State 2&4	ANT2	QPSK	Right Cheek	0	18900	1880	20	1	LOW	-0.08	0.105	24.00	24.60	1.148	0.121	/
LTEB2	State 2&4	ANT2	QPSK	Right Tilt	0	18900	1880	20	1	LOW	0.17	0.067	24.00	24.60	1.148	0.077	/

LTEB2	State 2&4	ANT2	QPSK	Left Cheek	0	18900	1880	20	50	LOW	0.19	0.066	23.16	23.60	1.107	0.073	/
LTEB2	State 2&4	ANT2	QPSK	Left Tilt	0	18900	1880	20	50	LOW	-0.19	0.059	23.16	23.60	1.107	0.065	/
LTEB2	State 2&4	ANT2	QPSK	Right Cheek	0	18900	1880	20	50	LOW	-0.01	0.099	23.16	23.60	1.107	0.110	/
LTEB2	State 2&4	ANT2	QPSK	Right Tilt	0	18900	1880	20	50	LOW	-0.07	0.063	23.16	23.60	1.107	0.070	/
Body-Worn																	
LTEB2	State 1	ANT1	QPSK	Front Side	15	18900	1880	20	1	LOW	0.05	0.160	20.83	21.00	1.040	0.166	/
LTEB2	State 1	ANT1	QPSK	Back Side	15	18900	1880	20	1	LOW	0.03	0.347	20.83	21.00	1.040	0.361	19
LTEB2	State 1	ANT1	QPSK	Front Side	15	18900	1880	20	50	LOW	-0.08	0.151	20.79	21.00	1.050	0.158	/
LTEB2	State 1	ANT1	QPSK	Back Side	15	18900	1880	20	50	LOW	-0.03	0.220	20.79	21.00	1.050	0.231	/
LTEB2	State3	ANT1	QPSK	Front Side	15	18900	1880	20	1	LOW	-0.03	0.113	19.45	19.50	1.012	0.114	/
LTEB2	State3	ANT1	QPSK	Back Side	15	18900	1880	20	1	LOW	0.06	0.165	19.45	19.50	1.012	0.167	/
LTEB2	State3	ANT1	QPSK	Front Side	15	18900	1880	20	50	LOW	0.07	0.107	19.33	19.50	1.040	0.111	/
LTEB2	State3	ANT1	QPSK	Back Side	15	18900	1880	20	50	LOW	0.11	0.156	19.33	19.50	1.040	0.162	/
LTEB2	State 1	ANT2	QPSK	Front Side	15	18900	1880	20	1	LOW	0.06	0.102	20.47	20.60	1.030	0.105	/
LTEB2	State 1	ANT2	QPSK	Back Side	15	18900	1880	20	1	LOW	0.05	0.213	20.47	20.60	1.030	0.219	/
LTEB2	State 1	ANT2	QPSK	Front Side	15	18900	1880	20	50	LOW	-0.06	0.096	20.45	20.60	1.035	0.099	/
LTEB2	State 1	ANT2	QPSK	Back Side	15	18900	1880	20	50	LOW	0.15	0.201	20.45	20.60	1.035	0.208	/
LTEB2	State3	ANT2	QPSK	Front Side	15	18900	1880	20	1	LOW	0.16	0.072	19.05	19.10	1.012	0.073	/
LTEB2	State3	ANT2	QPSK	Back Side	15	18900	1880	20	1	LOW	-0.18	0.151	19.05	19.10	1.012	0.153	/
LTEB2	State3	ANT2	QPSK	Front Side	15	18900	1880	20	50	LOW	-0.03	0.068	19.04	19.10	1.014	0.069	/
LTEB2	State3	ANT2	QPSK	Back Side	15	18900	1880	20	50	LOW	-0.01	0.143	19.04	19.10	1.014	0.145	/
Hotspot																	

LTEB2	State 3	ANT1	QPSK	Front Side	10	18900	1880	20	1	LOW	-0.02	0.216	19.45	19.50	1.012	0.219	/
LTEB2	State 3	ANT1	QPSK	Back Side	10	18900	1880	20	1	LOW	0.12	0.324	19.45	19.50	1.012	0.328	/
LTEB2	State 3	ANT1	QPSK	Left Edge	10	18900	1880	20	1	LOW	-0.03	0.056	19.45	19.50	1.012	0.057	/
LTEB2	State 3	ANT1	QPSK	Right Edge	10	18900	1880	20	1	LOW	0.16	0.044	19.45	19.50	1.012	0.045	/
LTEB2	State 3	ANT1	QPSK	Top Edge	10	18900	1880	20	1	LOW	0.11	0.366	19.45	19.50	1.012	0.370	/
LTEB2	State 3	ANT1	QPSK	Front Side	10	18900	1880	20	50	LOW	0.18	0.204	19.33	19.50	1.040	0.212	/
LTEB2	State 3	ANT1	QPSK	Back Side	10	18900	1880	20	50	LOW	0.11	0.306	19.33	19.50	1.040	0.318	/
LTEB2	State 3	ANT1	QPSK	Left Edge	10	18900	1880	20	50	LOW	-0.11	0.053	19.33	19.50	1.040	0.055	/
LTEB2	State 3	ANT1	QPSK	Right Edge	10	18900	1880	20	50	LOW	-0.12	0.042	19.33	19.50	1.040	0.044	/
LTEB2	State 3	ANT1	QPSK	Top Edge	10	18900	1880	20	50	LOW	-0.14	0.346	19.33	19.50	1.040	0.360	/
LTEB2	State 3	ANT2	QPSK	Front Side	10	18900	1880	20	1	LOW	-0.09	0.129	19.05	19.10	1.012	0.130	/
LTEB2	State 3	ANT2	QPSK	Back Side	10	18900	1880	20	1	LOW	-0.12	0.282	19.05	19.10	1.012	0.285	/
LTEB2	State 3	ANT2	QPSK	Left Edge	10	18900	1880	20	1	LOW	-0.02	0.036	19.05	19.10	1.012	0.036	/
LTEB2	State 3	ANT2	QPSK	Right Edge	10	18900	1880	20	1	LOW	-0.14	0.034	19.05	19.10	1.012	0.034	/
LTEB2	State 3	ANT2	QPSK	Bottom Edge	10	18900	1880	20	1	LOW	0.02	0.865	19.05	19.10	1.012	0.875	20
LTEB2	State 3	ANT2	QPSK	Bottom Edge	10	18900	1880	20	1	LOW	0.08	0.817	19.05	19.10	1.012	0.826	Reperat
LTEB2	State 3	ANT2	QPSK	Bottom Edge	10	18700	1860	20	1	LOW	0.09	0.766	19.09	19.10	1.002	0.768	/
LTEB2	State 3	ANT2	QPSK	Bottom Edge	10	19100	1900	20	1	LOW	0.04	0.801	18.96	19.10	1.033	0.827	/
LTEB2	State 3	ANT2	QPSK	Front Side	10	18900	1880	20	50	LOW	0.09	0.122	19.04	19.10	1.014	0.124	/
LTEB2	State 3	ANT2	QPSK	Back Side	10	18900	1880	20	50	LOW	-0.06	0.266	19.04	19.10	1.014	0.270	/
LTEB2	State 3	ANT2	QPSK	Left Edge	10	18900	1880	20	50	LOW	0.14	0.034	19.04	19.10	1.014	0.034	/
LTEB2	State 3	ANT2	QPSK	Right Edge	10	18900	1880	20	50	LOW	-0.05	0.032	19.04	19.10	1.014	0.032	/

LTEB2	State 3	ANT2	QPSK	Bottom Edge	10	18900	1880	20	50	LOW	0.16	0.673	19.04	19.10	1.014	0.682	/
LTEB2	State 3	ANT2	QPSK	Bottom Edge	10	18900	1880	20	100	LOW	0.05	0.627	18.98	19.10	1.028	0.645	/

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																	
LTEB2	State 1	ANT1	QPSK	Back Side	0	18900	1880	20	1	LOW	-0.18	1.610	20.83	21.00	1.040	1.674	/
LTEB2	State 1	ANT1	QPSK	Top Edge	0	18900	1880	20	1	LOW	-0.17	1.020	20.83	21.00	1.040	1.061	/
LTEB2	State 3	ANT1	QPSK	Back Side	0	18900	1880	20	1	LOW	-0.15	1.140	19.45	19.50	1.012	1.153	/
LTEB2	State 3	ANT1	QPSK	Top Edge	0	18900	1880	20	1	LOW	0.03	0.724	19.45	19.50	1.012	0.732	/
LTEB2	State 1	ANT2	QPSK	Back Side	0	18900	1880	20	1	LOW	0.09	1.230	20.47	20.60	1.030	1.267	/
LTEB2	State 1	ANT2	QPSK	Bottom Edge	0	18900	1880	20	1	LOW	-0.13	2.260	20.47	20.60	1.030	2.329	21
LTEB2	State 1	ANT2	QPSK	Bottom Edge	0	18900	1880	20	1	LOW	0.05	2.210	20.47	20.60	1.030	2.277	Reperat
LTEB2	State 1	ANT2	QPSK	Bottom Edge	0	18700	1860	20	1	MID	-0.06	2.180	20.42	20.60	1.042	2.272	/
LTEB2	State 1	ANT2	QPSK	Bottom Edge	0	19100	1900	20	1	LOW	0.09	2.140	20.45	20.60	1.035	2.215	/
LTEB2	State 1	ANT2	QPSK	Bottom Edge	0	18900	1880	20	50	LOW	-0.13	2.100	20.45	20.60	1.035	2.174	/
LTEB2	State 1	ANT2	QPSK	Bottom Edge	0	18700	1860	20	50	HIGH	-0.10	2.030	20.37	20.60	1.054	2.140	/
LTEB2	State 1	ANT2	QPSK	Bottom Edge	0	19100	1900	20	50	LOW	0.03	2.080	20.41	20.60	1.045	2.173	/
LTEB2	State 1	ANT2	QPSK	Bottom Edge	0	18700	1860	20	100	LOW	0.05	2.030	20.59	20.60	1.002	2.035	/
LTEB2	State 3	ANT2	QPSK	Back Side	0	18900	1880	20	1	LOW	0.04	0.871	19.05	19.10	1.012	0.881	/
LTEB2	State 3	ANT2	QPSK	Bottom Edge	0	18900	1880	20	1	LOW	0.14	1.140	19.05	19.10	1.012	1.153	/

10.7LTE Band 4 (20MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB4	State 2	ANT1	QPSK	Left Cheek	0	20175	1732.5	20	1	LOW	-0.13	0.296	16.55	17.00	1.109	0.328	/
LTEB4	State 2	ANT1	QPSK	Left Tilt	0	20175	1732.5	20	1	LOW	-0.12	0.350	16.55	17.00	1.109	0.388	/
LTEB4	State 2	ANT1	QPSK	Right Cheek	0	20175	1732.5	20	1	LOW	0.09	0.390	16.55	17.00	1.109	0.433	/
LTEB4	State 2	ANT1	QPSK	Right Tilt	0	20175	1732.5	20	1	LOW	-0.01	0.597	16.55	17.00	1.109	0.662	22
LTEB4	State 2	ANT1	QPSK	Left Cheek	0	20175	1732.5	20	50	LOW	0.02	0.279	16.77	17.00	1.054	0.294	/
LTEB4	State 2	ANT1	QPSK	Left Tilt	0	20175	1732.5	20	50	LOW	-0.08	0.330	16.77	17.00	1.054	0.348	/
LTEB4	State 2	ANT1	QPSK	Right Cheek	0	20175	1732.5	20	50	LOW	0.10	0.368	16.77	17.00	1.054	0.388	/
LTEB4	State 2	ANT1	QPSK	Right Tilt	0	20175	1732.5	20	50	LOW	0.19	0.425	16.77	17.00	1.054	0.448	/
LTEB4	State 4	ANT1	QPSK	Left Cheek	0	20175	1732.5	20	1	LOW	0.16	0.264	16.45	16.50	1.012	0.267	/
LTEB4	State 4	ANT1	QPSK	Left Tilt	0	20175	1732.5	20	1	LOW	-0.14	0.312	16.45	16.50	1.012	0.316	/
LTEB4	State 4	ANT1	QPSK	Right Cheek	0	20175	1732.5	20	1	LOW	0.16	0.347	16.45	16.50	1.012	0.351	/
LTEB4	State 4	ANT1	QPSK	Right Tilt	0	20175	1732.5	20	1	LOW	-0.03	0.401	16.45	16.50	1.012	0.406	/
LTEB4	State 4	ANT1	QPSK	Left Cheek	0	20175	1732.5	20	50	LOW	-0.12	0.249	16.30	16.50	1.047	0.261	/
LTEB4	State 4	ANT1	QPSK	Left Tilt	0	20175	1732.5	20	50	LOW	0.10	0.295	16.30	16.50	1.047	0.309	/
LTEB4	State 4	ANT1	QPSK	Right Cheek	0	20175	1732.5	20	50	LOW	-0.12	0.328	16.30	16.50	1.047	0.343	/
LTEB4	State 4	ANT1	QPSK	Right Tilt	0	20175	1732.5	20	50	LOW	0.14	0.379	16.30	16.50	1.047	0.397	/
LTEB4	State 2&4	ANT2	QPSK	Left Cheek	0	20175	1732.5	20	1	LOW	-0.05	0.064	24.30	24.60	1.072	0.069	/
LTEB4	State 2&4	ANT2	QPSK	Left Tilt	0	20175	1732.5	20	1	LOW	-0.13	0.030	24.30	24.60	1.072	0.032	/
LTEB4	State 2&4	ANT2	QPSK	Right Cheek	0	20175	1732.5	20	1	LOW	-0.10	0.076	24.30	24.60	1.072	0.081	/
LTEB4	State 2&4	ANT2	QPSK	Right Tilt	0	20175	1732.5	20	1	LOW	-0.10	0.035	24.30	24.60	1.072	0.038	/

LTEB4	State 2&4	ANT2	QPSK	Left Cheek	0	20175	1732.5	20	50	LOW	0.01	0.060	24.31	24.60	1.069	0.064	/
LTEB4	State 2&4	ANT2	QPSK	Left Tilt	0	20175	1732.5	20	50	LOW	-0.07	0.028	24.31	24.60	1.069	0.030	/
LTEB4	State 2&4	ANT2	QPSK	Right Cheek	0	20175	1732.5	20	50	LOW	0.18	0.072	24.31	24.60	1.069	0.077	/
LTEB4	State 2&4	ANT2	QPSK	Right Tilt	0	20175	1732.5	20	50	LOW	-0.14	0.033	24.31	24.60	1.069	0.035	/
Body-Worn																	
LTEB4	State 1	ANT1	QPSK	Front Side	15	20175	1732.5	20	1	LOW	-0.06	0.142	21.25	21.50	1.059	0.150	/
LTEB4	State 1	ANT1	QPSK	Back Side	15	20175	1732.5	20	1	LOW	0.18	0.231	21.25	21.50	1.059	0.245	23
LTEB4	State 1	ANT1	QPSK	Front Side	15	20175	1732.5	20	50	LOW	-0.04	0.134	21.49	21.50	1.002	0.134	/
LTEB4	State 1	ANT1	QPSK	Back Side	15	20175	1732.5	20	50	LOW	0.09	0.160	21.49	21.50	1.002	0.160	/
LTEB4	State3	ANT1	QPSK	Front Side	15	20175	1732.5	20	1	LOW	-0.17	0.100	19.66	20.00	1.081	0.108	/
LTEB4	State3	ANT1	QPSK	Back Side	15	20175	1732.5	20	1	LOW	-0.07	0.120	19.66	20.00	1.081	0.130	/
LTEB4	State3	ANT1	QPSK	Front Side	15	20175	1732.5	20	50	LOW	0.08	0.094	19.92	20.00	1.019	0.096	/
LTEB4	State3	ANT1	QPSK	Back Side	15	20175	1732.5	20	50	LOW	-0.13	0.113	19.92	20.00	1.019	0.115	/
LTEB4	State 1	ANT2	QPSK	Front Side	15	20175	1732.5	20	1	LOW	0.10	0.099	20.02	20.10	1.019	0.101	/
LTEB4	State 1	ANT2	QPSK	Back Side	15	20175	1732.5	20	1	LOW	0.16	0.152	20.02	20.10	1.019	0.155	/
LTEB4	State 1	ANT2	QPSK	Front Side	15	20175	1732.5	20	50	LOW	-0.16	0.093	20.09	20.10	1.002	0.093	/
LTEB4	State 1	ANT2	QPSK	Back Side	15	20175	1732.5	20	50	LOW	0.04	0.143	20.09	20.10	1.002	0.143	/
LTEB4	State3	ANT2	QPSK	Front Side	15	20175	1732.5	20	1	LOW	0.10	0.070	18.54	18.60	1.014	0.071	/
LTEB4	State3	ANT2	QPSK	Back Side	15	20175	1732.5	20	1	LOW	0.13	0.107	18.54	18.60	1.014	0.108	/
LTEB4	State3	ANT2	QPSK	Front Side	15	20175	1732.5	20	50	LOW	0.04	0.066	18.51	18.60	1.021	0.067	/
LTEB4	State3	ANT2	QPSK	Back Side	15	20175	1732.5	20	50	LOW	0.18	0.101	18.51	18.60	1.021	0.103	/
Hotspot																	

LTEB4	State 3	ANT1	QPSK	Front Side	10	20175	1732.5	20	1	LOW	-0.08	0.186	19.66	20.00	1.081	0.201	/
LTEB4	State 3	ANT1	QPSK	Back Side	10	20175	1732.5	20	1	LOW	-0.15	0.230	19.66	20.00	1.081	0.249	/
LTEB4	State 3	ANT1	QPSK	Left Edge	10	20175	1732.5	20	1	LOW	0.02	0.054	19.66	20.00	1.081	0.058	/
LTEB4	State 3	ANT1	QPSK	Right Edge	10	20175	1732.5	20	1	LOW	0.03	0.033	19.66	20.00	1.081	0.036	/
LTEB4	State 3	ANT1	QPSK	Top Edge	10	20175	1732.5	20	1	LOW	-0.19	0.418	19.66	20.00	1.081	0.452	24
LTEB4	State 3	ANT1	QPSK	Front Side	10	20175	1732.5	20	50	LOW	0.10	0.176	19.92	20.00	1.019	0.179	/
LTEB4	State 3	ANT1	QPSK	Back Side	10	20175	1732.5	20	50	LOW	-0.17	0.217	19.92	20.00	1.019	0.221	/
LTEB4	State 3	ANT1	QPSK	Left Edge	10	20175	1732.5	20	50	LOW	0.08	0.051	19.92	20.00	1.019	0.052	/
LTEB4	State 3	ANT1	QPSK	Right Edge	10	20175	1732.5	20	50	LOW	0.13	0.031	19.92	20.00	1.019	0.032	/
LTEB4	State 3	ANT1	QPSK	Top Edge	10	20175	1732.5	20	50	LOW	0.08	0.323	19.92	20.00	1.019	0.329	/
LTEB4	State 3	ANT2	QPSK	Front Side	10	20175	1732.5	20	1	LOW	-0.05	0.115	18.54	18.60	1.014	0.117	/
LTEB4	State 3	ANT2	QPSK	Back Side	10	20175	1732.5	20	1	LOW	0.14	0.251	18.54	18.60	1.014	0.254	/
LTEB4	State 3	ANT2	QPSK	Left Edge	10	20175	1732.5	20	1	LOW	0.19	0.016	18.54	18.60	1.014	0.016	/
LTEB4	State 3	ANT2	QPSK	Right Edge	10	20175	1732.5	20	1	LOW	-0.16	0.024	18.54	18.60	1.014	0.024	/
LTEB4	State 3	ANT2	QPSK	Bottom Edge	10	20175	1732.5	20	1	LOW	-0.07	0.332	18.54	18.60	1.014	0.337	/
LTEB4	State 3	ANT2	QPSK	Front Side	10	20175	1732.5	20	50	LOW	0.02	0.109	18.51	18.60	1.021	0.111	/
LTEB4	State 3	ANT2	QPSK	Back Side	10	20175	1732.5	20	50	LOW	-0.11	0.237	18.51	18.60	1.021	0.242	/
LTEB4	State 3	ANT2	QPSK	Left Edge	10	20175	1732.5	20	50	LOW	-0.15	0.015	18.51	18.60	1.021	0.015	/
LTEB4	State 3	ANT2	QPSK	Right Edge	10	20175	1732.5	20	50	LOW	-0.08	0.023	18.51	18.60	1.021	0.023	/
LTEB4	State 3	ANT2	QPSK	Bottom Edge	10	20175	1732.5	20	50	LOW	0.12	0.313	18.51	18.60	1.021	0.320	/

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled	Meas. No.
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																SAR (W/kg)	
Specific																	
LTEB4	State 1	ANT1	QPSK	Top Edge	0	20175	1732.5	20	1	LOW	-0.15	1.430	21.25	21.50	1.059	1.515	/
LTEB4	State 3	ANT1	QPSK	Top Edge	0	20175	1732.5	20	1	LOW	-0.10	1.010	19.66	20.00	1.081	1.092	/
LTEB4	State 1	ANT2	QPSK	Back Side	0	20175	1732.5	20	1	LOW	0.02	1.240	20.02	20.10	1.019	1.263	/
LTEB4	State 1	ANT2	QPSK	Bottom Edge	0	20175	1732.5	20	1	LOW	0.19	2.510	20.02	20.10	1.019	2.557	25
LTEB4	State 1	ANT2	QPSK	Bottom Edge	0	20175	1732.5	20	1	LOW	0.05	2.430	20.02	20.10	1.019	2.475	Reperat
LTEB4	State 1	ANT2	QPSK	Bottom Edge	0	20050	1720	20	1	LOW	-0.06	2.390	20.01	20.10	1.021	2.440	/
LTEB4	State 1	ANT2	QPSK	Bottom Edge	0	20300	1745	20	1	LOW	0.03	2.400	20.01	20.10	1.021	2.450	/
LTEB4	State 1	ANT2	QPSK	Bottom Edge	0	20175	1732.5	20	50	LOW	0.02	2.330	20.09	20.10	1.002	2.335	/
LTEB4	State 1	ANT2	QPSK	Bottom Edge	0	20175	1732.5	20	50	HIGH	0.01	2.390	20.09	20.10	1.002	2.396	/
LTEB4	State 1	ANT2	QPSK	Bottom Edge	0	20300	1745	20	50	MID	-0.02	2.400	20.05	20.10	1.012	2.428	/
LTEB4	State 1	ANT2	QPSK	Bottom Edge	0	20175	1732.5	20	100	LOW	0.01	2.420	20.10	20.10	1.000	2.420	/
LTEB4	State 3	ANT2	QPSK	Back Side	0	20175	1732.5	20	1	LOW	0.07	0.882	18.54	18.60	1.014	0.894	/
LTEB4	State 3	ANT2	QPSK	Bottom Edge	0	20175	1732.5	20	1	LOW	-0.11	1.770	18.54	18.60	1.014	1.795	/

10.8LTE Band 5 (10MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB5	State 2	ANT1	QPSK	Left Cheek	0	20525	836.5	10	1	LOW	0.01	0.327	22.61	23.50	1.227	0.401	/
LTEB5	State 2	ANT1	QPSK	Left Tilt	0	20525	836.5	10	1	LOW	-0.07	0.366	22.61	23.50	1.227	0.449	/
LTEB5	State 2	ANT1	QPSK	Right Cheek	0	20525	836.5	10	1	LOW	0.12	0.450	22.61	23.50	1.227	0.552	/
LTEB5	State 2	ANT1	QPSK	Right Tilt	0	20525	836.5	10	1	LOW	-0.17	0.462	22.61	23.50	1.227	0.567	/
LTEB5	State 2	ANT1	QPSK	Left Cheek	0	20525	836.5	10	25	LOW	0.15	0.309	22.84	23.50	1.164	0.360	/
LTEB5	State 2	ANT1	QPSK	Left Tilt	0	20525	836.5	10	25	LOW	-0.04	0.346	22.84	23.50	1.164	0.403	/
LTEB5	State 2	ANT1	QPSK	Right Cheek	0	20525	836.5	10	25	LOW	0.18	0.425	22.84	23.50	1.164	0.495	/
LTEB5	State 2	ANT1	QPSK	Right Tilt	0	20525	836.5	10	25	LOW	-0.09	0.436	22.84	23.50	1.164	0.508	/
LTEB5	State 4	ANT1	QPSK	Left Cheek	0	20525	836.5	10	1	LOW	0.14	0.292	22.61	23.00	1.094	0.319	/
LTEB5	State 4	ANT1	QPSK	Left Tilt	0	20525	836.5	10	1	LOW	0.05	0.326	22.61	23.00	1.094	0.357	/
LTEB5	State 4	ANT1	QPSK	Right Cheek	0	20525	836.5	10	1	LOW	0.15	0.401	22.61	23.00	1.094	0.439	/
LTEB5	State 4	ANT1	QPSK	Right Tilt	0	20525	836.5	10	1	LOW	0.14	0.412	22.61	23.00	1.094	0.451	/
LTEB5	State 4	ANT1	QPSK	Left Cheek	0	20525	836.5	10	25	LOW	-0.02	0.276	22.84	23.00	1.038	0.286	/
LTEB5	State 4	ANT1	QPSK	Left Tilt	0	20525	836.5	10	25	LOW	0.17	0.308	22.84	23.00	1.038	0.320	/
LTEB5	State 4	ANT1	QPSK	Right Cheek	0	20525	836.5	10	25	LOW	-0.08	0.379	22.84	23.00	1.038	0.393	/
LTEB5	State 4	ANT1	QPSK	Right Tilt	0	20525	836.5	10	25	LOW	-0.13	0.389	22.84	23.00	1.038	0.404	/
LTEB5	State 2&4	ANT0	QPSK	Left Cheek	0	20525	836.5	10	1	LOW	-0.08	0.531	24.01	24.40	1.094	0.581	26
LTEB5	State 2&4	ANT0	QPSK	Left Tilt	0	20525	836.5	10	1	LOW	0.02	0.076	24.01	24.40	1.094	0.083	/
LTEB5	State 2&4	ANT0	QPSK	Right Cheek	0	20525	836.5	10	1	LOW	-0.10	0.276	24.01	24.40	1.094	0.302	/
LTEB5	State 2&4	ANT0	QPSK	Right Tilt	0	20525	836.5	10	1	LOW	-0.07	0.077	24.01	24.40	1.094	0.084	/

LTEB5	State 2&4	ANT0	QPSK	Left Cheek	0	20525	836.5	10	25	LOW	0.17	0.422	23.38	23.40	1.005	0.424	/
LTEB5	State 2&4	ANT0	QPSK	Left Tilt	0	20525	836.5	10	25	LOW	0.02	0.060	23.38	23.40	1.005	0.060	/
LTEB5	State 2&4	ANT0	QPSK	Right Cheek	0	20525	836.5	10	25	LOW	-0.15	0.219	23.38	23.40	1.005	0.220	/
LTEB5	State 2&4	ANT0	QPSK	Right Tilt	0	20525	836.5	10	25	LOW	-0.01	0.061	23.38	23.40	1.005	0.061	/
Body-Worn																	
LTEB5	State 1	ANT1	QPSK	Front Side	15	20525	836.5	10	1	LOW	-0.12	0.046	23.23	24.00	1.194	0.055	/
LTEB5	State 1	ANT1	QPSK	Back Side	15	20525	836.5	10	1	LOW	-0.14	0.083	23.23	24.00	1.194	0.099	/
LTEB5	State 1	ANT1	QPSK	Front Side	15	20525	836.5	10	25	LOW	0.16	0.043	23.36	24.00	1.159	0.050	/
LTEB5	State 1	ANT1	QPSK	Back Side	15	20525	836.5	10	25	LOW	-0.11	0.078	23.36	24.00	1.159	0.090	/
LTEB5	State3	ANT1	QPSK	Front Side	15	20525	836.5	10	1	LOW	0.01	0.033	22.61	23.00	1.094	0.036	/
LTEB5	State3	ANT1	QPSK	Back Side	15	20525	836.5	10	1	LOW	-0.02	0.058	22.61	23.00	1.094	0.063	/
LTEB5	State3	ANT1	QPSK	Front Side	15	20525	836.5	10	25	LOW	0.13	0.031	22.84	23.00	1.038	0.032	/
LTEB5	State3	ANT1	QPSK	Back Side	15	20525	836.5	10	25	LOW	0.04	0.055	22.84	23.00	1.038	0.057	/
LTEB5	State 1&3	ANT0	QPSK	Front Side	15	20525	836.5	10	1	LOW	-0.18	0.144	24.01	24.40	1.094	0.158	/
LTEB5	State 1&3	ANT0	QPSK	Back Side	15	20525	836.5	10	1	LOW	-0.03	0.309	24.01	24.40	1.094	0.338	27
LTEB5	State 1&3	ANT0	QPSK	Front Side	15	20525	836.5	10	25	LOW	0.15	0.136	23.38	23.40	1.005	0.137	/
LTEB5	State 1&3	ANT0	QPSK	Back Side	15	20525	836.5	10	25	LOW	-0.09	0.252	23.38	23.40	1.005	0.253	/
Hotspot																	
LTEB5	State 3	ANT1	QPSK	Front Side	10	20525	836.5	10	1	LOW	0.17	0.061	22.61	23.00	1.094	0.067	/
LTEB5	State 3	ANT1	QPSK	Back Side	10	20525	836.5	10	1	LOW	-0.19	0.124	22.61	23.00	1.094	0.136	/
LTEB5	State 3	ANT1	QPSK	Left Edge	10	20525	836.5	10	1	LOW	0.02	0.024	22.61	23.00	1.094	0.026	/
LTEB5	State 3	ANT1	QPSK	Right Edge	10	20525	836.5	10	1	LOW	0.10	0.026	22.61	23.00	1.094	0.028	/

LTEB5	State 3	ANT1	QPSK	Top Edge	10	20525	836.5	10	1	LOW	0.05	0.093	22.61	23.00	1.094	0.102	/
LTEB5	State 3	ANT1	QPSK	Front Side	10	20525	836.5	10	25	LOW	-0.08	0.058	22.84	23.00	1.038	0.060	/
LTEB5	State 3	ANT1	QPSK	Back Side	10	20525	836.5	10	25	LOW	-0.07	0.117	22.84	23.00	1.038	0.121	/
LTEB5	State 3	ANT1	QPSK	Left Edge	10	20525	836.5	10	25	LOW	-0.05	0.023	22.84	23.00	1.038	0.024	/
LTEB5	State 3	ANT1	QPSK	Right Edge	10	20525	836.5	10	25	LOW	-0.11	0.025	22.84	23.00	1.038	0.026	/
LTEB5	State 3	ANT1	QPSK	Top Edge	10	20525	836.5	10	25	LOW	0.08	0.088	22.84	23.00	1.038	0.091	/
LTEB5	State 3	ANT0	QPSK	Front Side	10	20525	844	10	1	LOW	-0.02	0.233	24.01	24.40	1.094	0.255	/
LTEB5	State 3	ANT0	QPSK	Back Side	10	20525	844	10	1	LOW	0.07	0.453	24.01	24.40	1.094	0.496	/
LTEB5	State 3	ANT0	QPSK	Left Edge	10	20525	844	10	1	LOW	0.09	0.782	24.01	24.40	1.094	0.855	/
LTEB5	State 3	ANT0	QPSK	Bottom Edge	10	20525	836.5	10	1	LOW	0.17	0.018	24.01	24.40	1.094	0.020	/
LTEB5	State 3	ANT0	QPSK	Left Edge	10	20450	829	10	1	LOW	0.03	0.745	23.90	23.83	0.984	0.733	/
LTEB5	State 3	ANT0	QPSK	Left Edge	10	20600	844	10	1	LOW	-0.04	0.841	23.83	24.40	1.140	0.959	28
LTEB5	State 3	ANT0	QPSK	Front Side	10	20525	836.5	10	25	LOW	-0.17	0.185	23.38	23.40	1.005	0.186	/
LTEB5	State 3	ANT0	QPSK	Back Side	10	20525	836.5	10	25	LOW	0.10	0.360	23.38	23.40	1.005	0.362	/
LTEB5	State 3	ANT0	QPSK	Left Edge	10	20525	836.5	10	25	LOW	0.09	0.542	23.38	23.40	1.005	0.545	/
LTEB5	State 3	ANT0	QPSK	Bottom Edge	10	20525	836.5	10	25	LOW	-0.06	0.014	23.38	23.40	1.005	0.014	/
LTEB5	State 3	ANT0	QPSK	Left Edge	10	20525	836.5	10	50	LOW	0.07	0.558	23.38	23.40	1.005	0.561	/

10.9LTE Band 7 (20MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB7	State 2	ANT1	QPSK	Left Cheek	0	21100	2535	20	1	LOW	-0.16	0.164	15.90	16.00	1.023	0.168	/
LTEB7	State 2	ANT1	QPSK	Left Tilt	0	21100	2535	20	1	LOW	-0.09	0.232	15.90	16.00	1.023	0.237	/
LTEB7	State 2	ANT1	QPSK	Right Cheek	0	21100	2535	20	1	LOW	-0.19	0.460	15.90	16.00	1.023	0.471	/
LTEB7	State 2	ANT1	QPSK	Right Tilt	0	21100	2535	20	1	LOW	-0.17	0.795	15.90	16.00	1.023	0.814	/
LTEB7	State 2	ANT1	QPSK	Right Tilt	0	20850	2510	20	1	LOW	0.13	0.994	15.90	16.00	1.023	1.017	29
LTEB7	State 2	ANT1	QPSK	Right Tilt	0	20850	2510	20	1	LOW	0.11	0.937	15.90	16.00	1.023	0.959	Repeat
LTEB7	State 2	ANT1	QPSK	Right Tilt	0	20850	2510	20	1	LOW	0.05	0.949	15.90	16.00	1.023	0.971	Secondary supply
LTEB7	State 2	ANT1	QPSK	Right Tilt	0	21350	2560	20	1	LOW	0.12	0.743	15.28	16.00	1.180	0.877	/
LTEB7	State 2	ANT1	QPSK	Left Cheek	0	21100	2535	20	50	LOW	-0.10	0.155	15.80	16.00	1.047	0.162	/
LTEB7	State 2	ANT1	QPSK	Left Tilt	0	21100	2535	20	50	LOW	0.15	0.219	15.80	16.00	1.047	0.229	/
LTEB7	State 2	ANT1	QPSK	Right Cheek	0	21100	2535	20	50	LOW	-0.01	0.434	15.80	16.00	1.047	0.454	/
LTEB7	State 2	ANT1	QPSK	Right Tilt	0	21100	2535	20	50	LOW	-0.09	0.575	15.80	16.00	1.047	0.602	/
LTEB7	State 2	ANT1	QPSK	Left Cheek	0	21350	2560	20	50	LOW	0.03	0.513	15.57	16.00	1.104	0.566	/
LTEB7	State 4	ANT1	QPSK	Left Cheek	0	21100	2535	20	1	LOW	0.17	0.146	15.18	15.50	1.076	0.157	/
LTEB7	State 4	ANT1	QPSK	Left Tilt	0	21100	2535	20	1	LOW	-0.19	0.206	15.18	15.50	1.076	0.222	/
LTEB7	State 4	ANT1	QPSK	Right Cheek	0	21100	2535	20	1	LOW	0.15	0.410	15.18	15.50	1.076	0.441	/
LTEB7	State 4	ANT1	QPSK	Right Tilt	0	21100	2535	20	1	LOW	-0.19	0.543	15.18	15.50	1.076	0.585	/
LTEB7	State 4	ANT1	QPSK	Left Cheek	0	21100	2535	20	50	LOW	0.08	0.138	15.13	15.50	1.089	0.150	/
LTEB7	State 4	ANT1	QPSK	Left Tilt	0	21100	2535	20	50	LOW	-0.14	0.194	15.13	15.50	1.089	0.211	/
LTEB7	State 4	ANT1	QPSK	Right Cheek	0	21100	2535	20	50	LOW	-0.19	0.387	15.13	15.50	1.089	0.421	/

LTEB7	State 4	ANT1	QPSK	Right Tilt	0	21100	2535	20	50	LOW	-0.13	0.513	15.13	15.50	1.089	0.559	/
LTEB7	State 2&4	ANT2	QPSK	Left Cheek	0	21100	2535	20	1	LOW	-0.09	0.184	24.60	24.60	1.000	0.184	/
LTEB7	State 2&4	ANT2	QPSK	Left Tilt	0	21100	2535	20	1	LOW	-0.05	0.098	24.60	24.60	1.000	0.098	/
LTEB7	State 2&4	ANT2	QPSK	Right Cheek	0	21100	2535	20	1	LOW	0.04	0.237	24.60	24.60	1.000	0.237	/
LTEB7	State 2&4	ANT2	QPSK	Right Tilt	0	21100	2535	20	1	LOW	0.10	0.162	24.60	24.60	1.000	0.162	/
LTEB7	State 2&4	ANT2	QPSK	Left Cheek	0	21100	2535	20	50	LOW	0.15	0.138	23.44	23.60	1.038	0.143	/
LTEB7	State 2&4	ANT2	QPSK	Left Tilt	0	21100	2535	20	50	LOW	-0.17	0.074	23.44	23.60	1.038	0.077	/
LTEB7	State 2&4	ANT2	QPSK	Right Cheek	0	21100	2535	20	50	LOW	0.15	0.178	23.44	23.60	1.038	0.185	/
LTEB7	State 2&4	ANT2	QPSK	Right Tilt	0	21100	2535	20	50	LOW	0.07	0.122	23.44	23.60	1.038	0.127	/
Body-Worn																	
LTEB7	State 1	ANT1	QPSK	Front Side	15	21100	2535	20	1	LOW	0.13	0.080	17.08	17.50	1.102	0.088	/
LTEB7	State 1	ANT1	QPSK	Back Side	15	21100	2535	20	1	LOW	-0.02	0.285	17.08	17.50	1.102	0.314	30
LTEB7	State 1	ANT1	QPSK	Front Side	15	21100	2535	20	50	LOW	0.09	0.076	17.23	17.50	1.064	0.081	/
LTEB7	State 1	ANT1	QPSK	Back Side	15	21100	2535	20	50	LOW	-0.12	0.281	17.23	17.50	1.064	0.299	/
LTEB7	State3	ANT1	QPSK	Front Side	15	21100	2535	20	1	LOW	-0.01	0.056	15.77	16.00	1.054	0.059	/
LTEB7	State3	ANT1	QPSK	Back Side	15	21100	2535	20	1	LOW	-0.19	0.136	15.77	16.00	1.054	0.143	/
LTEB7	State3	ANT1	QPSK	Front Side	15	21100	2535	20	50	LOW	0.06	0.053	15.58	16.00	1.102	0.058	/
LTEB7	State3	ANT1	QPSK	Back Side	15	21100	2535	20	50	LOW	0.08	0.128	15.58	16.00	1.102	0.141	/
LTEB7	State 1	ANT2	QPSK	Front Side	15	21100	2535	20	1	LOW	-0.11	0.126	21.84	22.10	1.062	0.134	/
LTEB7	State 1	ANT2	QPSK	Back Side	15	21100	2535	20	1	LOW	0.11	0.175	21.84	22.10	1.062	0.186	/
LTEB7	State 1	ANT2	QPSK	Front Side	15	21100	2535	20	50	LOW	0.01	0.119	22.02	22.10	1.019	0.121	/
LTEB7	State 1	ANT2	QPSK	Back Side	15	21100	2535	20	50	LOW	0.15	0.165	22.02	22.10	1.019	0.168	/

LTEB7	State3	ANT2	QPSK	Front Side	15	21100	2535	20	1	LOW	0.15	0.089	20.45	20.60	1.035	0.092	/
LTEB7	State3	ANT2	QPSK	Back Side	15	21100	2535	20	1	LOW	0.10	0.124	20.45	20.60	1.035	0.128	/
LTEB7	State3	ANT2	QPSK	Front Side	15	21100	2535	20	50	LOW	0.04	0.084	20.57	20.60	1.007	0.085	/
LTEB7	State3	ANT2	QPSK	Back Side	15	21100	2535	20	50	LOW	0.01	0.117	20.57	20.60	1.007	0.118	/
Hotspot																	
LTEB7	State 3	ANT1	QPSK	Front Side	10	21100	2535	20	1	LOW	0.13	0.117	15.77	16.00	1.054	0.123	/
LTEB7	State 3	ANT1	QPSK	Back Side	10	21100	2535	20	1	LOW	-0.01	0.287	15.77	16.00	1.054	0.303	/
LTEB7	State 3	ANT1	QPSK	Left Edge	10	21100	2535	20	1	LOW	-0.05	0.091	15.77	16.00	1.054	0.096	/
LTEB7	State 3	ANT1	QPSK	Right Edge	10	21100	2535	20	1	LOW	0.01	0.005	15.77	16.00	1.054	0.005	/
LTEB7	State 3	ANT1	QPSK	Top Edge	10	21100	2535	20	1	LOW	0.07	0.467	15.77	16.00	1.054	0.492	31
LTEB7	State 3	ANT1	QPSK	Front Side	10	21100	2535	20	50	LOW	0.18	0.110	15.58	16.00	1.102	0.121	/
LTEB7	State 3	ANT1	QPSK	Back Side	10	21100	2535	20	50	LOW	0.19	0.271	15.58	16.00	1.102	0.299	/
LTEB7	State 3	ANT1	QPSK	Left Edge	10	21100	2535	20	50	LOW	-0.02	0.086	15.58	16.00	1.102	0.095	/
LTEB7	State 3	ANT1	QPSK	Right Edge	10	21100	2535	20	50	LOW	-0.19	0.040	15.58	16.00	1.102	0.044	/
LTEB7	State 3	ANT1	QPSK	Top Edge	10	21100	2535	20	50	LOW	0.03	0.350	15.58	16.00	1.102	0.386	/
LTEB7	State 3	ANT2	QPSK	Front Side	10	21100	2535	20	1	LOW	-0.04	0.165	20.45	20.60	1.035	0.171	/
LTEB7	State 3	ANT2	QPSK	Back Side	10	21100	2535	20	1	LOW	-0.04	0.237	20.45	20.60	1.035	0.245	/
LTEB7	State 3	ANT2	QPSK	Left Edge	10	21100	2535	20	1	LOW	0.08	0.032	20.45	20.60	1.035	0.033	/
LTEB7	State 3	ANT2	QPSK	Right Edge	10	21100	2535	20	1	LOW	-0.15	0.040	20.45	20.60	1.035	0.041	/
LTEB7	State 3	ANT2	QPSK	Bottom Edge	10	21100	2535	20	1	LOW	0.08	0.148	20.45	20.60	1.035	0.153	/
LTEB7	State 3	ANT2	QPSK	Front Side	10	21100	2535	20	50	LOW	-0.08	0.156	20.57	20.60	1.007	0.157	/
LTEB7	State 3	ANT2	QPSK	Back Side	10	21100	2535	20	50	LOW	0.10	0.224	20.57	20.60	1.007	0.226	/

LTEB7	State 3	ANT2	QPSK	Left Edge	10	21100	2535	20	50	LOW	0.10	0.030	20.57	20.60	1.007	0.030	/
LTEB7	State 3	ANT2	QPSK	Right Edge	10	21100	2535	20	50	LOW	0.19	0.038	20.57	20.60	1.007	0.038	/
LTEB7	State 3	ANT2	QPSK	Bottom Edge	10	21100	2535	20	50	LOW	-0.02	0.140	20.57	20.60	1.007	0.141	/

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																	
LTEB7	State 1	ANT1	QPSK	Front Side	0	21100	2535	20	1	LOW	0.05	0.487	17.08	17.50	1.102	0.536	/
LTEB7	State 1	ANT1	QPSK	Back Side	0	21100	2535	20	1	LOW	-0.07	1.180	17.08	17.50	1.102	1.300	32
LTEB7	State 1	ANT1	QPSK	Top Edge	0	21100	2535	20	1	LOW	-0.18	0.578	17.08	17.50	1.102	0.637	/
LTEB7	State 3	ANT1	QPSK	Front Side	0	21100	2535	20	1	LOW	-0.04	0.345	15.77	16.00	1.054	0.364	/
LTEB7	State 3	ANT1	QPSK	Back Side	0	21100	2535	20	1	LOW	0.03	0.745	15.77	16.00	1.054	0.786	/
LTEB7	State 3	ANT1	QPSK	Top Edge	0	21100	2535	20	1	LOW	0.11	0.365	15.77	16.00	1.054	0.385	/

10.10 LTE Band 13 (10MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB13	State 2&4	ANT1	QPSK	Left Cheek	0	23230	782	10	1	LOW	-0.04	0.243	24.52	25.00	1.117	0.271	/
LTEB13	State 2&4	ANT1	QPSK	Left Tilt	0	23230	782	10	1	LOW	-0.19	0.270	24.52	25.00	1.117	0.302	/
LTEB13	State 2&4	ANT1	QPSK	Right Cheek	0	23230	782	10	1	LOW	-0.01	0.386	24.52	25.00	1.117	0.431	33
LTEB13	State 2&4	ANT1	QPSK	Right Tilt	0	23230	782	10	1	LOW	0.19	0.338	24.52	25.00	1.117	0.377	/
LTEB13	State 2&4	ANT1	QPSK	Left Cheek	0	23230	782	10	25	LOW	0.14	0.193	23.73	24.00	1.064	0.205	/
LTEB13	State 2&4	ANT1	QPSK	Left Tilt	0	23230	782	10	25	LOW	0.01	0.214	23.73	24.00	1.064	0.228	/
LTEB13	State 2&4	ANT1	QPSK	Right Cheek	0	23230	782	10	25	LOW	-0.02	0.307	23.73	24.00	1.064	0.327	/
LTEB13	State 2&4	ANT1	QPSK	Right Tilt	0	23230	782	10	25	LOW	-0.17	0.268	23.73	24.00	1.064	0.285	/
LTEB13	State 2&4	ANT0	QPSK	Left Cheek	0	23230	782	10	1	LOW	0.01	0.205	24.36	24.40	1.009	0.207	/
LTEB13	State 2&4	ANT0	QPSK	Left Tilt	0	23230	782	10	1	LOW	-0.18	0.025	24.36	24.40	1.009	0.025	/
LTEB13	State 2&4	ANT0	QPSK	Right Cheek	0	23230	782	10	1	LOW	-0.13	0.149	24.36	24.40	1.009	0.150	/
LTEB13	State 2&4	ANT0	QPSK	Right Tilt	0	23230	782	10	1	LOW	-0.07	0.020	24.36	24.40	1.009	0.020	/
LTEB13	State 2&4	ANT0	QPSK	Left Cheek	0	23230	782	10	25	LOW	0.16	0.163	23.22	23.40	1.042	0.170	/
LTEB13	State 2&4	ANT0	QPSK	Left Tilt	0	23230	782	10	25	LOW	0.17	0.020	23.22	23.40	1.042	0.021	/
LTEB13	State 2&4	ANT0	QPSK	Right Cheek	0	23230	782	10	25	LOW	0.04	0.118	23.22	23.40	1.042	0.123	/
LTEB13	State 2&4	ANT0	QPSK	Right Tilt	0	23230	782	10	25	LOW	0.05	0.016	23.22	23.40	1.042	0.017	/
Body-Worn																	
LTEB13	State 1&3	ANT1	QPSK	Front Side	15	23230	782	10	1	LOW	-0.17	0.047	24.52	25.00	1.117	0.052	/
LTEB13	State 1&3	ANT1	QPSK	Back Side	15	23230	782	10	1	LOW	-0.10	0.066	24.52	25.00	1.117	0.074	/

LTEB13	State 1&3	ANT1	QPSK	Front Side	15	23230	782	10	25	LOW	-0.02	0.037	23.73	24.00	1.064	0.039	/
LTEB13	State 1&3	ANT1	QPSK	Back Side	15	23230	782	10	25	LOW	-0.05	0.052	23.73	24.00	1.064	0.055	/
LTEB13	State 1	ANT0	QPSK	Front Side	15	23230	782	10	1	LOW	0.14	0.082	23.85	23.90	1.012	0.083	/
LTEB13	State 1	ANT0	QPSK	Back Side	15	23230	782	10	1	LOW	-0.01	0.158	23.85	23.90	1.012	0.160	34
LTEB13	State 1	ANT0	QPSK	Front Side	15	23230	782	10	25	LOW	-0.14	0.077	23.35	23.40	1.012	0.078	/
LTEB13	State 1	ANT0	QPSK	Back Side	15	23230	782	10	25	LOW	-0.11	0.127	23.35	23.40	1.012	0.128	/
LTEB13	State3	ANT0	QPSK	Front Side	15	23230	782	10	1	LOW	0.13	0.058	22.31	22.40	1.021	0.059	/
LTEB13	State3	ANT0	QPSK	Back Side	15	23230	782	10	1	LOW	-0.12	0.095	22.31	22.40	1.021	0.097	/
LTEB13	State3	ANT0	QPSK	Front Side	15	23230	782	10	25	MID	-0.05	0.055	22.30	22.40	1.023	0.056	/
LTEB13	State3	ANT0	QPSK	Back Side	15	23230	782	10	25	MID	-0.08	0.090	22.30	22.40	1.023	0.092	/
Hotspot																	
LTEB13	State 3	ANT1	QPSK	Front Side	10	23230	782	10	1	LOW	0.11	0.073	24.52	25.00	1.117	0.082	/
LTEB13	State 3	ANT1	QPSK	Back Side	10	23230	782	10	1	LOW	-0.04	0.134	24.52	25.00	1.117	0.150	/
LTEB13	State 3	ANT1	QPSK	Left Edge	10	23230	782	10	1	LOW	0.04	0.054	24.52	25.00	1.117	0.060	/
LTEB13	State 3	ANT1	QPSK	Right Edge	10	23230	782	10	1	LOW	-0.09	0.049	24.52	25.00	1.117	0.055	/
LTEB13	State 3	ANT1	QPSK	Top Edge	10	23230	782	10	1	LOW	0.03	0.100	24.52	25.00	1.117	0.112	/
LTEB13	State 3	ANT1	QPSK	Bottom Edge	10	23230	782	10	1	LOW	0.19	0.012	24.52	25.00	1.117	0.013	/
LTEB13	State 3	ANT1	QPSK	Front Side	10	23230	782	10	25	LOW	0.12	0.058	23.73	24.00	1.064	0.062	/
LTEB13	State 3	ANT1	QPSK	Back Side	10	23230	782	10	25	LOW	-0.11	0.106	23.73	24.00	1.064	0.113	/
LTEB13	State 3	ANT1	QPSK	Left Edge	10	23230	782	10	25	LOW	0.05	0.043	23.73	24.00	1.064	0.046	/
LTEB13	State 3	ANT1	QPSK	Right Edge	10	23230	782	10	25	LOW	0.12	0.039	23.73	24.00	1.064	0.042	/
LTEB13	State 3	ANT1	QPSK	Top Edge	10	23230	782	10	25	LOW	-0.02	0.079	23.73	24.00	1.064	0.084	/

LTEB13	State 3	ANT1	QPSK	Bottom Edge	10	23230	782	10	25	LOW	-0.18	0.010	23.73	24.00	1.064	0.011	/
LTEB13	State 3	ANT0	QPSK	Front Side	10	23230	782	10	1	LOW	0.01	0.144	22.31	22.40	1.021	0.147	/
LTEB13	State 3	ANT0	QPSK	Back Side	10	23230	782	10	1	LOW	-0.18	0.186	22.31	22.40	1.021	0.190	/
LTEB13	State 3	ANT0	QPSK	Left Edge	10	23230	782	10	1	LOW	-0.03	0.466	22.31	22.40	1.021	0.476	35
LTEB13	State 3	ANT0	QPSK	Right Edge	10	23230	782	10	1	LOW	0.07	0.009	22.31	22.40	1.021	0.009	/
LTEB13	State 3	ANT0	QPSK	Top Edge	10	23230	782	10	1	LOW	0.05	0.016	22.31	22.40	1.021	0.016	/
LTEB13	State 3	ANT0	QPSK	Bottom Edge	10	23230	782	10	1	LOW	-0.02	0.014	22.31	22.40	1.021	0.014	/
LTEB13	State 3	ANT0	QPSK	Front Side	10	23230	782	10	25	MID	0.16	0.171	22.30	22.40	1.023	0.175	/
LTEB13	State 3	ANT0	QPSK	Back Side	10	23230	782	10	25	MID	-0.12	0.221	22.30	22.40	1.023	0.226	/
LTEB13	State 3	ANT0	QPSK	Left Edge	10	23230	782	10	25	MID	0.09	0.369	22.30	22.40	1.023	0.378	/
LTEB13	State 3	ANT0	QPSK	Right Edge	10	23230	782	10	25	MID	0.06	0.010	22.30	22.40	1.023	0.010	/
LTEB13	State 3	ANT0	QPSK	Top Edge	10	23230	782	10	25	MID	0.07	0.019	22.30	22.40	1.023	0.019	/
LTEB13	State 3	ANT0	QPSK	Bottom Edge	10	23230	782	10	25	MID	-0.13	0.016	22.30	22.40	1.023	0.016	/

10.11 LTE Band 18 (15MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB18	State 2&4	ANT1	QPSK	Left Cheek	0	23925	822.5	15	1	LOW	-0.13	0.366	23.83	24.50	1.167	0.427	/
LTEB18	State 2&4	ANT1	QPSK	Left Tilt	0	23925	822.5	15	1	LOW	-0.02	0.404	23.83	24.50	1.167	0.471	/
LTEB18	State 2&4	ANT1	QPSK	Right Cheek	0	23925	822.5	15	1	LOW	-0.04	0.567	23.83	24.50	1.167	0.662	36
LTEB18	State 2&4	ANT1	QPSK	Right Tilt	0	23925	822.5	15	1	LOW	0.14	0.447	23.83	24.50	1.167	0.522	/
LTEB18	State 2&4	ANT1	QPSK	Left Cheek	0	23925	822.5	15	36	LOW	0.17	0.346	23.44	24.00	1.138	0.394	/
LTEB18	State 2&4	ANT1	QPSK	Left Tilt	0	23925	822.5	15	36	LOW	0.16	0.381	23.44	24.00	1.138	0.433	/
LTEB18	State 2&4	ANT1	QPSK	Right Cheek	0	23925	822.5	15	36	LOW	0.15	0.448	23.44	24.00	1.138	0.510	/
LTEB18	State 2&4	ANT1	QPSK	Right Tilt	0	23925	822.5	15	36	LOW	0.18	0.422	23.44	24.00	1.138	0.480	/
LTEB18	State 2&4	ANT0	QPSK	Left Cheek	0	23925	822.5	15	1	LOW	-0.09	0.354	24.08	24.40	1.076	0.381	/
LTEB18	State 2&4	ANT0	QPSK	Left Tilt	0	23925	822.5	15	1	LOW	-0.07	0.056	24.08	24.40	1.076	0.060	/
LTEB18	State 2&4	ANT0	QPSK	Right Cheek	0	23925	822.5	15	1	LOW	-0.13	0.227	24.08	24.40	1.076	0.244	/
LTEB18	State 2&4	ANT0	QPSK	Right Tilt	0	23925	822.5	15	1	LOW	-0.15	0.059	24.08	24.40	1.076	0.064	/
LTEB18	State 2&4	ANT0	QPSK	Left Cheek	0	23925	822.5	15	36	LOW	-0.10	0.281	23.10	23.40	1.072	0.301	/
LTEB18	State 2&4	ANT0	QPSK	Left Tilt	0	23925	822.5	15	36	LOW	-0.03	0.044	23.10	23.40	1.072	0.047	/
LTEB18	State 2&4	ANT0	QPSK	Right Cheek	0	23925	822.5	15	36	LOW	0.06	0.180	23.10	23.40	1.072	0.193	/
LTEB18	State 2&4	ANT0	QPSK	Right Tilt	0	23925	822.5	15	36	LOW	-0.17	0.047	23.10	23.40	1.072	0.050	/
Body-Worn																	
LTEB18	State 1	ANT1	QPSK	Front Side	15	23925	822.5	15	1	LOW	-0.04	0.052	22.26	23.00	1.186	0.062	/
LTEB18	State 1	ANT1	QPSK	Back Side	15	23925	822.5	15	1	LOW	-0.04	0.079	22.26	23.00	1.186	0.094	/

LTEB18	State 1	ANT1	QPSK	Front Side	15	23925	822.5	15	36	LOW	0.04	0.049	22.40	23.00	1.148	0.056	/
LTEB18	State 1	ANT1	QPSK	Back Side	15	23925	822.5	15	36	LOW	-0.09	0.075	22.40	23.00	1.148	0.086	/
LTEB18	State3	ANT1	QPSK	Front Side	15	23925	822.5	15	1	LOW	-0.04	0.037	23.83	24.50	1.167	0.043	/
LTEB18	State3	ANT1	QPSK	Back Side	15	23925	822.5	15	1	LOW	0.05	0.056	23.83	24.50	1.167	0.065	/
LTEB18	State3	ANT1	QPSK	Front Side	15	23925	822.5	15	36	LOW	0.15	0.035	23.44	24.00	1.138	0.040	/
LTEB18	State3	ANT1	QPSK	Back Side	15	23925	822.5	15	36	LOW	0.17	0.053	23.44	24.00	1.138	0.060	/
LTEB18	State 1&3	ANT0	QPSK	Front Side	15	23925	822.5	15	1	LOW	0.05	0.102	24.08	24.40	1.076	0.110	/
LTEB18	State 1&3	ANT0	QPSK	Back Side	15	23925	822.5	15	1	LOW	-0.03	0.197	24.08	24.40	1.076	0.212	37
LTEB18	State 1&3	ANT0	QPSK	Front Side	15	23925	822.5	15	36	LOW	-0.12	0.081	23.10	23.40	1.072	0.087	/
LTEB18	State 1&3	ANT0	QPSK	Back Side	15	23925	822.5	15	36	LOW	-0.06	0.144	23.10	23.40	1.072	0.154	/
Hotspot																	
LTEB18	State 3	ANT1	QPSK	Front Side	10	23925	822.5	15	1	LOW	0.02	0.100	23.83	24.50	1.167	0.117	/
LTEB18	State 3	ANT1	QPSK	Back Side	10	23925	822.5	15	1	LOW	-0.12	0.198	23.83	24.50	1.167	0.231	/
LTEB18	State 3	ANT1	QPSK	Left Edge	10	23925	822.5	15	1	LOW	-0.07	0.022	23.83	24.50	1.167	0.026	/
LTEB18	State 3	ANT1	QPSK	Right Edge	10	23925	822.5	15	1	LOW	0.02	0.053	23.83	24.50	1.167	0.062	/
LTEB18	State 3	ANT1	QPSK	Top Edge	10	23925	822.5	15	1	LOW	0.07	0.171	23.83	24.50	1.167	0.200	/
LTEB18	State 3	ANT1	QPSK	Front Side	10	23925	822.5	15	36	LOW	0.17	0.094	23.44	24.00	1.138	0.107	/
LTEB18	State 3	ANT1	QPSK	Back Side	10	23925	822.5	15	36	LOW	-0.09	0.187	23.44	24.00	1.138	0.213	/
LTEB18	State 3	ANT1	QPSK	Left Edge	10	23925	822.5	15	36	LOW	-0.14	0.021	23.44	24.00	1.138	0.024	/
LTEB18	State 3	ANT1	QPSK	Right Edge	10	23925	822.5	15	36	LOW	-0.15	0.050	23.44	24.00	1.138	0.057	/
LTEB18	State 3	ANT1	QPSK	Top Edge	10	23925	822.5	15	36	LOW	0.01	0.161	23.44	24.00	1.138	0.183	/
LTEB18	State 3	ANT0	QPSK	Front Side	10	23925	822.5	15	1	LOW	0.15	0.152	24.08	24.40	1.076	0.164	/

LTEB18	State 3	ANT0	QPSK	Back Side	10	23925	822.5	15	1	LOW	0.09	0.312	24.08	24.40	1.076	0.336	/
LTEB18	State 3	ANT0	QPSK	Left Edge	10	23925	822.5	15	1	LOW	-0.09	0.469	24.08	24.40	1.076	0.505	38
LTEB18	State 3	ANT0	QPSK	Bottom Edge	10	23925	822.5	15	1	LOW	0.06	0.018	24.08	24.40	1.076	0.019	/
LTEB18	State 3	ANT0	QPSK	Front Side	10	23925	822.5	15	36	LOW	0.08	0.121	23.10	23.40	1.072	0.130	/
LTEB18	State 3	ANT0	QPSK	Back Side	10	23925	822.5	15	36	LOW	0.17	0.248	23.10	23.40	1.072	0.266	/
LTEB18	State 3	ANT0	QPSK	Left Edge	10	23925	822.5	15	36	LOW	-0.12	0.373	23.10	23.40	1.072	0.400	/
LTEB18	State 3	ANT0	QPSK	Bottom Edge	10	23925	822.5	15	36	LOW	0.10	0.014	23.10	23.40	1.072	0.015	/

10.12 LTE Band 19 (15MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB19	State 2	ANT1	QPSK	Left Cheek	0	24075	837.5	15	1	LOW	0.19	0.361	23.17	24.00	1.211	0.437	/
LTEB19	State 2	ANT1	QPSK	Left Tilt	0	24075	837.5	15	1	LOW	0.13	0.396	23.17	24.00	1.211	0.479	/
LTEB19	State 2	ANT1	QPSK	Right Cheek	0	24075	837.5	15	1	LOW	0.17	0.471	23.17	24.00	1.211	0.570	/
LTEB19	State 2	ANT1	QPSK	Right Tilt	0	24075	837.5	15	1	LOW	-0.10	0.520	23.17	24.00	1.211	0.630	39
LTEB19	State 2	ANT1	QPSK	Left Cheek	0	24075	837.5	15	36	LOW	-0.01	0.341	23.25	24.00	1.189	0.405	/
LTEB19	State 2	ANT1	QPSK	Left Tilt	0	24075	837.5	15	36	LOW	0.02	0.374	23.25	24.00	1.189	0.444	/
LTEB19	State 2	ANT1	QPSK	Right Cheek	0	24075	837.5	15	36	LOW	-0.12	0.445	23.25	24.00	1.189	0.529	/
LTEB19	State 2	ANT1	QPSK	Right Tilt	0	24075	837.5	15	36	LOW	-0.19	0.455	23.25	24.00	1.189	0.541	/
LTEB19	State 4	ANT1	QPSK	Left Cheek	0	24075	837.5	15	1	LOW	0.10	0.322	23.42	23.50	1.019	0.328	/
LTEB19	State 4	ANT1	QPSK	Left Tilt	0	24075	837.5	15	1	LOW	0.03	0.353	23.42	23.50	1.019	0.360	/
LTEB19	State 4	ANT1	QPSK	Right Cheek	0	24075	837.5	15	1	LOW	0.14	0.420	23.42	23.50	1.019	0.428	/
LTEB19	State 4	ANT1	QPSK	Right Tilt	0	24075	837.5	15	1	LOW	-0.16	0.430	23.42	23.50	1.019	0.438	/
LTEB19	State 4	ANT1	QPSK	Left Cheek	0	24075	837.5	15	36	LOW	-0.14	0.304	23.32	23.50	1.042	0.317	/
LTEB19	State 4	ANT1	QPSK	Left Tilt	0	24075	837.5	15	36	LOW	0.08	0.333	23.32	23.50	1.042	0.347	/
LTEB19	State 4	ANT1	QPSK	Right Cheek	0	24075	837.5	15	36	LOW	0.10	0.397	23.32	23.50	1.042	0.414	/
LTEB19	State 4	ANT1	QPSK	Right Tilt	0	24075	837.5	15	36	LOW	0.06	0.406	23.32	23.50	1.042	0.423	/
LTEB19	State 2&4	ANT0	QPSK	Left Cheek	0	24075	837.5	15	1	LOW	-0.05	0.503	23.77	24.40	1.156	0.582	/
LTEB19	State 2&4	ANT0	QPSK	Left Tilt	0	24075	837.5	15	1	LOW	-0.17	0.080	23.77	24.40	1.156	0.092	/
LTEB19	State 2&4	ANT0	QPSK	Right Cheek	0	24075	837.5	15	1	LOW	0.18	0.283	23.77	24.40	1.156	0.327	/
LTEB19	State 2&4	ANT0	QPSK	Right Tilt	0	24075	837.5	15	1	LOW	-0.18	0.082	23.77	24.40	1.156	0.095	/

LTEB19	State 2&4	ANT0	QPSK	Left Cheek	0	24075	837.5	15	36	LOW	-0.16	0.400	23.09	23.40	1.074	0.430	/
LTEB19	State 2&4	ANT0	QPSK	Left Tilt	0	24075	837.5	15	36	LOW	0.06	0.064	23.09	23.40	1.074	0.069	/
LTEB19	State 2&4	ANT0	QPSK	Right Cheek	0	24075	837.5	15	36	LOW	-0.16	0.225	23.09	23.40	1.074	0.242	/
LTEB19	State 2&4	ANT0	QPSK	Right Tilt	0	24075	837.5	15	36	LOW	-0.02	0.065	23.09	23.40	1.074	0.070	/
Body-Worn																	
LTEB19	State 1	ANT1	QPSK	Front Side	15	24075	837.5	15	1	LOW	0.09	0.053	23.64	24.50	1.219	0.065	/
LTEB19	State 1	ANT1	QPSK	Back Side	15	24075	837.5	15	1	LOW	0.10	0.096	23.64	24.50	1.219	0.117	/
LTEB19	State 1	ANT1	QPSK	Front Side	15	24075	837.5	15	36	LOW	-0.05	0.050	23.31	24.00	1.172	0.059	/
LTEB19	State 1	ANT1	QPSK	Back Side	15	24075	837.5	15	36	LOW	0.13	0.091	23.31	24.00	1.172	0.107	/
LTEB19	State3	ANT1	QPSK	Front Side	15	24075	837.5	15	1	LOW	-0.19	0.037	22.67	23.00	1.079	0.040	/
LTEB19	State3	ANT1	QPSK	Back Side	15	24075	837.5	15	1	LOW	0.16	0.068	22.67	23.00	1.079	0.073	/
LTEB19	State3	ANT1	QPSK	Front Side	15	24075	837.5	15	36	LOW	-0.12	0.035	22.70	23.00	1.072	0.038	/
LTEB19	State3	ANT1	QPSK	Back Side	15	24075	837.5	15	36	LOW	0.13	0.064	22.70	23.00	1.072	0.069	/
LTEB19	State 1&3	ANT0	QPSK	Front Side	15	24075	837.5	15	1	LOW	0.11	0.147	23.77	24.40	1.156	0.170	/
LTEB19	State 1&3	ANT0	QPSK	Back Side	15	24075	837.5	15	1	LOW	0.04	0.275	23.77	24.40	1.156	0.318	40
LTEB19	State 1&3	ANT0	QPSK	Front Side	15	24075	837.5	15	36	LOW	-0.16	0.117	23.09	23.40	1.074	0.126	/
LTEB19	State 1&3	ANT0	QPSK	Back Side	15	24075	837.5	15	36	LOW	-0.03	0.218	23.09	23.40	1.074	0.234	/
Hotspot																	
LTEB19	State3	ANT1	QPSK	Front Side	10	24075	837.5	15	1	LOW	-0.03	0.073	22.67	23.00	1.079	0.079	/
LTEB19	State3	ANT1	QPSK	Back Side	10	24075	837.5	15	1	LOW	0.18	0.141	22.67	23.00	1.079	0.152	/
LTEB19	State3	ANT1	QPSK	Left Edge	10	24075	837.5	15	1	LOW	-0.19	0.011	22.67	23.00	1.079	0.012	/
LTEB19	State3	ANT1	QPSK	Right Edge	10	24075	837.5	15	1	LOW	-0.12	0.028	22.67	23.00	1.079	0.030	/

LTEB19	State3	ANT1	QPSK	Top Edge	10	24075	837.5	15	1	LOW	0.13	0.110	22.67	23.00	1.079	0.119	/
LTEB19	State3	ANT1	QPSK	Front Side	10	24075	837.5	15	36	LOW	-0.14	0.069	22.70	23.00	1.072	0.074	/
LTEB19	State3	ANT1	QPSK	Back Side	10	24075	837.5	15	36	LOW	-0.04	0.133	22.70	23.00	1.072	0.143	/
LTEB19	State3	ANT1	QPSK	Left Edge	10	24075	837.5	15	36	LOW	0.01	0.010	22.70	23.00	1.072	0.011	/
LTEB19	State3	ANT1	QPSK	Right Edge	10	24075	837.5	15	36	LOW	-0.01	0.026	22.70	23.00	1.072	0.028	/
LTEB19	State3	ANT1	QPSK	Top Edge	10	24075	837.5	15	36	LOW	0.05	0.104	22.70	23.00	1.072	0.111	/
LTEB19	State3	ANT0	QPSK	Front Side	10	24075	837.5	15	1	LOW	0.08	0.150	23.77	24.40	1.156	0.173	/
LTEB19	State3	ANT0	QPSK	Back Side	10	24075	837.5	15	1	LOW	-0.06	0.274	23.77	24.40	1.156	0.317	/
LTEB19	State3	ANT0	QPSK	Left Edge	10	24075	837.5	15	1	LOW	-0.06	0.611	23.77	24.40	1.156	0.706	41
LTEB19	State3	ANT0	QPSK	Bottom Edge	10	24075	837.5	15	1	LOW	0.09	0.015	23.77	24.40	1.156	0.017	/
LTEB19	State3	ANT0	QPSK	Front Side	10	24075	837.5	15	36	LOW	-0.05	0.119	23.09	23.40	1.074	0.128	/
LTEB19	State3	ANT0	QPSK	Back Side	10	24075	837.5	15	36	LOW	0.15	0.218	23.09	23.40	1.074	0.234	/
LTEB19	State3	ANT0	QPSK	Left Edge	10	24075	837.5	15	36	LOW	-0.03	0.322	23.09	23.40	1.074	0.346	/
LTEB19	State3	ANT0	QPSK	Bottom Edge	10	24075	837.5	15	36	LOW	-0.09	0.012	23.09	23.40	1.074	0.013	/

10.13 LTE Band 26 (15MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB26	State 2	ANT1	QPSK	Left Cheek	0	26865	831.5	15	1	LOW	0.01	0.342	23.36	24.00	1.159	0.396	/
LTEB26	State 2	ANT1	QPSK	Left Tilt	0	26865	831.5	15	1	LOW	0.08	0.396	23.36	24.00	1.159	0.459	/
LTEB26	State 2	ANT1	QPSK	Right Cheek	0	26865	831.5	15	1	LOW	0.06	0.455	23.36	24.00	1.159	0.527	/
LTEB26	State 2	ANT1	QPSK	Right Tilt	0	26865	831.5	15	1	LOW	-0.10	0.461	23.36	24.00	1.159	0.534	/
LTEB26	State 2	ANT1	QPSK	Left Cheek	0	26865	831.5	15	36	LOW	0.04	0.323	23.08	24.00	1.236	0.399	/
LTEB26	State 2	ANT1	QPSK	Left Tilt	0	26865	831.5	15	36	LOW	0.07	0.374	23.08	24.00	1.236	0.462	/
LTEB26	State 2	ANT1	QPSK	Right Cheek	0	26865	831.5	15	36	LOW	-0.07	0.430	23.08	24.00	1.236	0.531	/
LTEB26	State 2	ANT1	QPSK	Right Tilt	0	26865	831.5	15	36	LOW	-0.16	0.435	23.08	24.00	1.236	0.538	/
LTEB26	State 4	ANT1	QPSK	Left Cheek	0	26865	831.5	15	1	LOW	-0.06	0.305	22.47	23.50	1.268	0.387	/
LTEB26	State 4	ANT1	QPSK	Left Tilt	0	26865	831.5	15	1	LOW	0.14	0.353	22.47	23.50	1.268	0.447	/
LTEB26	State 4	ANT1	QPSK	Right Cheek	0	26865	831.5	15	1	LOW	-0.18	0.406	22.47	23.50	1.268	0.515	/
LTEB26	State 4	ANT1	QPSK	Right Tilt	0	26865	831.5	15	1	LOW	0.06	0.411	22.47	23.50	1.268	0.521	/
LTEB26	State 4	ANT1	QPSK	Left Cheek	0	26865	831.5	15	36	LOW	-0.10	0.288	22.54	23.50	1.247	0.359	/
LTEB26	State 4	ANT1	QPSK	Left Tilt	0	26865	831.5	15	36	LOW	0.12	0.333	22.54	23.50	1.247	0.415	/
LTEB26	State 4	ANT1	QPSK	Right Cheek	0	26865	831.5	15	36	LOW	-0.15	0.383	22.54	23.50	1.247	0.478	/
LTEB26	State 4	ANT1	QPSK	Right Tilt	0	26865	831.5	15	36	LOW	-0.18	0.388	22.54	23.50	1.247	0.484	/
LTEB26	State 2&4	ANT0	QPSK	Left Cheek	0	26865	831.5	15	1	LOW	-0.17	0.525	24.28	24.40	1.028	0.540	42
LTEB26	State 2&4	ANT0	QPSK	Left Tilt	0	26865	831.5	15	1	LOW	0.06	0.067	24.28	24.40	1.028	0.069	/
LTEB26	State 2&4	ANT0	QPSK	Right Cheek	0	26865	831.5	15	1	LOW	0.17	0.248	24.28	24.40	1.028	0.255	/
LTEB26	State 2&4	ANT0	QPSK	Right Tilt	0	26865	831.5	15	1	LOW	0.01	0.072	24.28	24.40	1.028	0.074	/

LTEB26	State 2&4	ANT0	QPSK	Left Cheek	0	26865	831.5	15	36	LOW	0.01	0.339	23.27	23.40	1.030	0.349	/
LTEB26	State 2&4	ANT0	QPSK	Left Tilt	0	26865	831.5	15	36	LOW	-0.07	0.053	23.27	23.40	1.030	0.055	/
LTEB26	State 2&4	ANT0	QPSK	Right Cheek	0	26865	831.5	15	36	LOW	-0.15	0.197	23.27	23.40	1.030	0.203	/
LTEB26	State 2&4	ANT0	QPSK	Right Tilt	0	26865	831.5	15	36	LOW	0.13	0.057	23.27	23.40	1.030	0.059	/
Body-Worn																	
LTEB26	State 1	ANT1	QPSK	Front Side	15	26865	831.5	15	1	LOW	0.15	0.044	23.36	24.00	1.159	0.051	/
LTEB26	State 1	ANT1	QPSK	Back Side	15	26865	831.5	15	1	LOW	0.15	0.077	23.36	24.00	1.159	0.089	/
LTEB26	State 1	ANT1	QPSK	Front Side	15	26865	831.5	15	36	LOW	0.15	0.042	23.08	24.00	1.236	0.052	/
LTEB26	State 1	ANT1	QPSK	Back Side	15	26865	831.5	15	36	LOW	0.09	0.073	23.08	24.00	1.236	0.090	/
LTEB26	State 3	ANT1	QPSK	Front Side	15	26865	831.5	15	1	LOW	-0.07	0.031	21.52	22.50	1.253	0.039	/
LTEB26	State 3	ANT1	QPSK	Back Side	15	26865	831.5	15	1	LOW	0.11	0.055	21.52	22.50	1.253	0.069	/
LTEB26	State 3	ANT1	QPSK	Front Side	15	26865	831.5	15	36	LOW	-0.06	0.029	21.68	22.50	1.208	0.035	/
LTEB26	State 3	ANT1	QPSK	Back Side	15	26865	831.5	15	36	LOW	0.02	0.052	21.68	22.50	1.208	0.063	/
LTEB26	State 1&3	ANT0	QPSK	Front Side	15	26865	831.5	15	1	LOW	-0.18	0.122	24.28	24.40	1.028	0.125	/
LTEB26	State 1&3	ANT0	QPSK	Back Side	15	26865	831.5	15	1	LOW	0.19	0.298	24.28	24.40	1.028	0.306	43
LTEB26	State 1&3	ANT0	QPSK	Front Side	15	26865	831.5	15	36	LOW	0.10	0.097	23.27	23.40	1.030	0.100	/
LTEB26	State 1&3	ANT0	QPSK	Back Side	15	26865	831.5	15	36	LOW	-0.06	0.178	23.27	23.40	1.030	0.183	/
Hotspot																	
LTEB26	State3	ANT1	QPSK	Front Side	10	26865	831.5	15	1	LOW	0.10	0.064	21.52	22.50	1.253	0.080	/
LTEB26	State3	ANT1	QPSK	Back Side	10	26865	831.5	15	1	LOW	0.18	0.127	21.52	22.50	1.253	0.159	/
LTEB26	State3	ANT1	QPSK	Left Edge	10	26865	831.5	15	1	LOW	-0.14	0.025	21.52	22.50	1.253	0.031	/
LTEB26	State3	ANT1	QPSK	Right Edge	10	26865	831.5	15	1	LOW	0.07	0.025	21.52	22.50	1.253	0.031	/

LTEB26	State3	ANT1	QPSK	Top Edge	10	26865	831.5	15	1	LOW	0.15	0.106	21.52	22.50	1.253	0.133	/
LTEB26	State3	ANT1	QPSK	Front Side	10	26865	831.5	15	36	LOW	-0.14	0.060	21.68	22.50	1.208	0.072	/
LTEB26	State3	ANT1	QPSK	Back Side	10	26865	831.5	15	36	LOW	0.04	0.120	21.68	22.50	1.208	0.145	/
LTEB26	State3	ANT1	QPSK	Left Edge	10	26865	831.5	15	36	LOW	0.07	0.024	21.68	22.50	1.208	0.029	/
LTEB26	State3	ANT1	QPSK	Right Edge	10	26865	831.5	15	36	LOW	-0.08	0.024	21.68	22.50	1.208	0.029	/
LTEB26	State3	ANT1	QPSK	Top Edge	10	26865	831.5	15	36	LOW	-0.13	0.100	21.68	22.50	1.208	0.121	/
LTEB26	State3	ANT0	QPSK	Front Side	10	26865	831.5	15	1	LOW	0.19	0.190	24.28	24.40	1.028	0.195	/
LTEB26	State3	ANT0	QPSK	Back Side	10	26865	831.5	15	1	LOW	-0.16	0.373	24.28	24.40	1.028	0.383	/
LTEB26	State3	ANT0	QPSK	Left Edge	10	26865	831.5	15	1	LOW	0.12	0.713	24.28	24.40	1.028	0.733	44
LTEB26	State3	ANT0	QPSK	Bottom Edge	10	26865	831.5	15	1	LOW	-0.08	0.020	24.28	24.40	1.028	0.021	/
LTEB26	State3	ANT0	QPSK	Front Side	10	26865	831.5	15	36	LOW	-0.14	0.151	23.27	23.40	1.030	0.156	/
LTEB26	State3	ANT0	QPSK	Back Side	10	26865	831.5	15	36	LOW	0.02	0.296	23.27	23.40	1.030	0.305	/
LTEB26	State3	ANT0	QPSK	Left Edge	10	26865	831.5	15	36	LOW	-0.12	0.465	23.27	23.40	1.030	0.479	/
LTEB26	State3	ANT0	QPSK	Bottom Edge	10	26865	831.5	15	36	LOW	-0.13	0.016	23.27	23.40	1.030	0.016	/

10.14 LTE Band 66 (20MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB66	State 2	ANT1	QPSK	Left Cheek	0	132322	1745	20	1	LOW	-0.17	0.292	16.82	17.00	1.042	0.304	/
LTEB66	State 2	ANT1	QPSK	Left Tilt	0	132322	1745	20	1	LOW	0.09	0.333	16.82	17.00	1.042	0.347	/
LTEB66	State 2	ANT1	QPSK	Right Cheek	0	132322	1745	20	1	LOW	-0.19	0.417	16.82	17.00	1.042	0.435	/
LTEB66	State 2	ANT1	QPSK	Right Tilt	0	132322	1745	20	1	LOW	-0.11	0.614	16.82	17.00	1.042	0.640	45
LTEB66	State 2	ANT1	QPSK	Left Cheek	0	132322	1745	20	50	LOW	-0.18	0.276	16.81	17.00	1.045	0.288	/
LTEB66	State 2	ANT1	QPSK	Left Tilt	0	132322	1745	20	50	LOW	-0.05	0.314	16.81	17.00	1.045	0.328	/
LTEB66	State 2	ANT1	QPSK	Right Cheek	0	132322	1745	20	50	LOW	-0.05	0.394	16.81	17.00	1.045	0.412	/
LTEB66	State 2	ANT1	QPSK	Right Tilt	0	132322	1745	20	50	LOW	-0.05	0.455	16.81	17.00	1.045	0.475	/
LTEB66	State 4	ANT1	QPSK	Left Cheek	0	132322	1745	20	1	LOW	-0.07	0.260	16.47	16.50	1.007	0.262	/
LTEB66	State 4	ANT1	QPSK	Left Tilt	0	132322	1745	20	1	LOW	-0.14	0.297	16.47	16.50	1.007	0.299	/
LTEB66	State 4	ANT1	QPSK	Right Cheek	0	132322	1745	20	1	LOW	0.10	0.371	16.47	16.50	1.007	0.374	/
LTEB66	State 4	ANT1	QPSK	Right Tilt	0	132322	1745	20	1	LOW	0.12	0.421	16.47	16.50	1.007	0.424	/
LTEB66	State 4	ANT1	QPSK	Left Cheek	0	132322	1745	20	50	LOW	-0.03	0.245	16.39	16.50	1.026	0.251	/
LTEB66	State 4	ANT1	QPSK	Left Tilt	0	132322	1745	20	50	LOW	-0.09	0.280	16.39	16.50	1.026	0.287	/
LTEB66	State 4	ANT1	QPSK	Right Cheek	0	132322	1745	20	50	LOW	0.07	0.350	16.39	16.50	1.026	0.359	/
LTEB66	State 4	ANT1	QPSK	Right Tilt	0	132322	1745	20	50	LOW	0.01	0.397	16.39	16.50	1.026	0.407	/
LTEB66	State 2&4	ANT2	QPSK	Left Cheek	0	132322	1745	20	1	LOW	0.01	0.076	24.53	24.60	1.016	0.077	/
LTEB66	State 2&4	ANT2	QPSK	Left Tilt	0	132322	1745	20	1	LOW	0.01	0.030	24.53	24.60	1.016	0.030	/
LTEB66	State 2&4	ANT2	QPSK	Right Cheek	0	132322	1745	20	1	LOW	-0.06	0.088	24.53	24.60	1.016	0.089	/
LTEB66	State 2&4	ANT2	QPSK	Right Tilt	0	132322	1745	20	1	LOW	-0.19	0.021	24.53	24.60	1.016	0.021	/

LTEB66	State 2&4	ANT2	QPSK	Left Cheek	0	132322	1745	20	50	LOW	-0.02	0.027	23.38	23.60	1.052	0.028	/
LTEB66	State 2&4	ANT2	QPSK	Left Tilt	0	132322	1745	20	50	LOW	-0.17	0.011	23.38	23.60	1.052	0.012	/
LTEB66	State 2&4	ANT2	QPSK	Right Cheek	0	132322	1745	20	50	LOW	0.18	0.031	23.38	23.60	1.052	0.033	/
LTEB66	State 2&4	ANT2	QPSK	Right Tilt	0	132322	1745	20	50	LOW	0.14	0.007	23.38	23.60	1.052	0.007	/
Body-Worn																	
LTEB66	State 1	ANT1	QPSK	Front Side	15	132322	1745	20	1	LOW	-0.01	0.160	21.43	21.50	1.016	0.163	/
LTEB66	State 1	ANT1	QPSK	Back Side	15	132322	1745	20	1	LOW	-0.02	0.180	21.43	21.50	1.016	0.183	/
LTEB66	State 1	ANT1	QPSK	Front Side	15	132322	1745	20	50	LOW	-0.19	0.151	21.46	21.50	1.009	0.152	/
LTEB66	State 1	ANT1	QPSK	Back Side	15	132322	1745	20	50	LOW	0.04	0.170	21.46	21.50	1.009	0.172	/
LTEB66	State 3	ANT1	QPSK	Front Side	15	132322	1745	20	1	LOW	-0.03	0.113	19.98	20.00	1.005	0.114	/
LTEB66	State 3	ANT1	QPSK	Back Side	15	132322	1745	20	1	LOW	-0.02	0.129	19.98	20.00	1.005	0.130	/
LTEB66	State 3	ANT1	QPSK	Front Side	15	132322	1745	20	50	LOW	-0.05	0.107	19.90	20.00	1.023	0.109	/
LTEB66	State 3	ANT1	QPSK	Back Side	15	132322	1745	20	50	LOW	0.05	0.122	19.90	20.00	1.023	0.125	/
LTEB66	State 1	ANT2	QPSK	Front Side	15	132322	1745	20	1	LOW	-0.05	0.103	19.93	20.10	1.040	0.107	/
LTEB66	State 1	ANT2	QPSK	Back Side	15	132322	1745	20	1	LOW	0.01	0.181	19.93	20.10	1.040	0.188	46
LTEB66	State 1	ANT2	QPSK	Front Side	15	132322	1745	20	50	LOW	0.14	0.097	19.91	20.10	1.045	0.101	/
LTEB66	State 1	ANT2	QPSK	Back Side	15	132322	1745	20	50	LOW	-0.17	0.171	19.91	20.10	1.045	0.179	/
LTEB66	State 3	ANT2	QPSK	Front Side	15	132322	1745	20	1	LOW	-0.17	0.073	18.49	18.60	1.026	0.075	/
LTEB66	State 3	ANT2	QPSK	Back Side	15	132322	1745	20	1	LOW	-0.03	0.145	18.49	18.60	1.026	0.149	/
LTEB66	State 3	ANT2	QPSK	Front Side	15	132322	1745	20	50	LOW	0.09	0.069	18.41	18.60	1.045	0.072	/
LTEB66	State 3	ANT2	QPSK	Back Side	15	132322	1745	20	50	LOW	0.16	0.137	18.41	18.60	1.045	0.143	/
Hotspot																	

LTEB66	State3	ANT1	QPSK	Front Side	10	132322	1745	20	1	LOW	-0.09	0.165	19.98	20.00	1.005	0.166	/
LTEB66	State3	ANT1	QPSK	Back Side	10	132322	1745	20	1	LOW	-0.02	0.205	19.98	20.00	1.005	0.206	/
LTEB66	State3	ANT1	QPSK	Left Edge	10	132322	1745	20	1	LOW	-0.14	0.047	19.98	20.00	1.005	0.047	/
LTEB66	State3	ANT1	QPSK	Right Edge	10	132322	1745	20	1	LOW	-0.15	0.026	19.98	20.00	1.005	0.026	/
LTEB66	State3	ANT1	QPSK	Top Edge	10	132322	1745	20	1	LOW	0.14	0.284	19.98	20.00	1.005	0.285	/
LTEB66	State3	ANT1	QPSK	Front Side	10	132322	1745	20	50	LOW	-0.11	0.147	19.90	20.00	1.023	0.151	/
LTEB66	State3	ANT1	QPSK	Back Side	10	132322	1745	20	50	LOW	0.07	0.183	19.90	20.00	1.023	0.187	/
LTEB66	State3	ANT1	QPSK	Left Edge	10	132322	1745	20	50	LOW	-0.05	0.042	19.90	20.00	1.023	0.043	/
LTEB66	State3	ANT1	QPSK	Right Edge	10	132322	1745	20	50	LOW	0.11	0.023	19.90	20.00	1.023	0.024	/
LTEB66	State3	ANT1	QPSK	Top Edge	10	132322	1745	20	50	LOW	0.06	0.253	19.90	20.00	1.023	0.259	/
LTEB66	State3	ANT2	QPSK	Front Side	10	132322	1745	20	1	LOW	0.14	0.118	18.49	18.60	1.026	0.121	/
LTEB66	State3	ANT2	QPSK	Back Side	10	132322	1745	20	1	LOW	0.16	0.227	18.49	18.60	1.026	0.233	/
LTEB66	State3	ANT2	QPSK	Left Edge	10	132322	1745	20	1	LOW	0.02	0.020	18.49	18.60	1.026	0.020	/
LTEB66	State3	ANT2	QPSK	Right Edge	10	132322	1745	20	1	LOW	0.19	0.025	18.49	18.60	1.026	0.025	/
LTEB66	State3	ANT2	QPSK	Bottom Edge	10	132322	1745	20	1	LOW	-0.08	0.338	18.49	18.60	1.026	0.347	47
LTEB66	State3	ANT2	QPSK	Front Side	10	132322	1745	20	50	LOW	-0.07	0.106	18.41	18.60	1.045	0.110	/
LTEB66	State3	ANT2	QPSK	Back Side	10	132322	1745	20	50	LOW	-0.08	0.203	18.41	18.60	1.045	0.212	/
LTEB66	State3	ANT2	QPSK	Left Edge	10	132322	1745	20	50	LOW	-0.06	0.017	18.41	18.60	1.045	0.018	/
LTEB66	State3	ANT2	QPSK	Right Edge	10	132322	1745	20	50	LOW	-0.19	0.022	18.41	18.60	1.045	0.023	/
LTEB66	State3	ANT2	QPSK	Bottom Edge	10	132322	1745	20	50	LOW	0.01	0.301	18.41	18.60	1.045	0.315	/

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																	
LTEB66	State 1	ANT1	QPSK	Top Edge	0	132322	1745	20	1	LOW	0.02	1.900	21.43	21.50	1.016	1.931	/
LTEB66	State 3	ANT1	QPSK	Top Edge	0	132322	1745	20	1	LOW	0.02	1.340	19.98	20.00	1.005	1.346	/
LTEB66	State 1	ANT2	QPSK	Back Side	0	132322	1745	20	1	LOW	-0.13	1.220	19.93	20.10	1.040	1.269	/
LTEB66	State 1	ANT2	QPSK	Bottom Edge	0	132322	1745	20	1	LOW	-0.04	2.570	19.93	20.10	1.040	2.673	48
LTEB66	State 1	ANT2	QPSK	Bottom Edge	0	132322	1745	20	1	LOW	-0.06	2.510	19.93	20.10	1.040	2.610	Repeat
LTEB66	State 1	ANT2	QPSK	Bottom Edge	0	132072	1720	20	1	MID	-0.06	2.390	19.93	20.10	1.040	2.485	/
LTEB66	State 1	ANT2	QPSK	Bottom Edge	0	132572	1770	20	1	LOW	0.03	2.450	19.90	20.10	1.047	2.565	/
LTEB66	State 1	ANT2	QPSK	Bottom Edge	0	132322	1745	20	50	LOW	-0.07	2.270	19.91	20.10	1.045	2.372	/
LTEB66	State 1	ANT2	QPSK	Bottom Edge	0	132072	1720	20	50	HIGH	0.02	2.350	19.88	20.10	1.052	2.472	/
LTEB66	State 1	ANT2	QPSK	Bottom Edge	0	132572	1770	20	50	MID	0.03	2.400	19.90	20.10	1.047	2.513	/
LTEB66	State 1	ANT2	QPSK	Bottom Edge	0	132072	1720	20	100	LOW	-0.09	2.380	20.02	20.10	1.019	2.424	/
LTEB66	State 3	ANT2	QPSK	Back Side	0	132322	1745	20	1	LOW	-0.18	0.869	18.49	18.60	1.026	0.891	/
LTEB66	State 3	ANT2	QPSK	Bottom Edge	0	132322	1745	20	1	LOW	-0.09	1.430	18.49	18.60	1.026	1.467	/

10.15 LTE Band 38 (20MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB38	State 2	ANT1	QPSK	Left Cheek	0	38000	2595	20	1	LOW	-0.13	0.129	19.16	20.00	1.213	0.156	/
LTEB38	State 2	ANT1	QPSK	Left Tilt	0	38000	2595	20	1	LOW	-0.03	0.174	19.16	20.00	1.213	0.211	/
LTEB38	State 2	ANT1	QPSK	Right Cheek	0	38000	2595	20	1	LOW	0.01	0.428	19.16	20.00	1.213	0.520	/
LTEB38	State 2	ANT1	QPSK	Right Tilt	0	38000	2595	20	1	LOW	-0.18	0.589	19.16	20.00	1.213	0.715	49
LTEB38	State 2	ANT1	QPSK	Left Cheek	0	38000	2595	20	50	LOW	-0.04	0.122	19.42	20.00	1.143	0.139	/
LTEB38	State 2	ANT1	QPSK	Left Tilt	0	38000	2595	20	50	LOW	-0.15	0.164	19.42	20.00	1.143	0.188	/
LTEB38	State 2	ANT1	QPSK	Right Cheek	0	38000	2595	20	50	LOW	-0.04	0.404	19.42	20.00	1.143	0.462	/
LTEB38	State 2	ANT1	QPSK	Right Tilt	0	38000	2595	20	50	LOW	0.05	0.482	19.42	20.00	1.143	0.551	/
LTEB38	State 4	ANT1	QPSK	Left Cheek	0	38000	2595	20	1	LOW	-0.09	0.115	18.44	19.50	1.276	0.146	/
LTEB38	State 4	ANT1	QPSK	Left Tilt	0	38000	2595	20	1	LOW	-0.06	0.155	18.44	19.50	1.276	0.197	/
LTEB38	State 4	ANT1	QPSK	Right Cheek	0	38000	2595	20	1	LOW	0.01	0.382	18.44	19.50	1.276	0.488	/
LTEB38	State 4	ANT1	QPSK	Right Tilt	0	38000	2595	20	1	LOW	0.1	0.455	18.44	19.50	1.276	0.581	/
LTEB38	State 4	ANT1	QPSK	Left Cheek	0	38000	2595	20	50	LOW	0.16	0.109	18.81	19.50	1.172	0.127	/
LTEB38	State 4	ANT1	QPSK	Left Tilt	0	38000	2595	20	50	LOW	0.12	0.146	18.81	19.50	1.172	0.171	/
LTEB38	State 4	ANT1	QPSK	Right Cheek	0	38000	2595	20	50	LOW	0.13	0.361	18.81	19.50	1.172	0.423	/
LTEB38	State 4	ANT1	QPSK	Right Tilt	0	38000	2595	20	50	LOW	0.01	0.429	18.81	19.50	1.172	0.503	/
LTEB38	State 2&4	ANT2	QPSK	Left Cheek	0	38000	2595	20	1	LOW	0.18	0.067	24.46	24.60	1.033	0.069	/
LTEB38	State 2&4	ANT2	QPSK	Left Tilt	0	38000	2595	20	1	LOW	-0.12	0.047	24.46	24.60	1.033	0.049	/
LTEB38	State 2&4	ANT2	QPSK	Right Cheek	0	38000	2595	20	1	LOW	0.05	0.126	24.46	24.60	1.033	0.130	/
LTEB38	State 2&4	ANT2	QPSK	Right Tilt	0	38000	2595	20	1	LOW	-0.09	0.077	24.46	24.60	1.033	0.080	/

LTEB38	State 2&4	ANT2	QPSK	Left Cheek	0	38000	2595	20	50	LOW	0.14	0.053	23.43	23.60	1.040	0.055	/
LTEB38	State 2&4	ANT2	QPSK	Left Tilt	0	38000	2595	20	50	LOW	-0.11	0.037	23.43	23.60	1.040	0.038	/
LTEB38	State 2&4	ANT2	QPSK	Right Cheek	0	38000	2595	20	50	LOW	-0.05	0.100	23.43	23.60	1.040	0.104	/
LTEB38	State 2&4	ANT2	QPSK	Right Tilt	0	38000	2595	20	50	LOW	-0.14	0.061	23.43	23.60	1.040	0.063	/
Body-Worn																	
LTEB38	State 1	ANT1	QPSK	Front Side	15	38000	2595	20	1	LOW	-0.19	0.071	20.22	21.00	1.197	0.085	/
LTEB38	State 1	ANT1	QPSK	Back Side	15	38000	2595	20	1	LOW	-0.12	0.151	20.22	21.00	1.197	0.181	50
LTEB38	State 1	ANT1	QPSK	Front Side	15	38000	2595	20	50	LOW	0.13	0.067	20.40	21.00	1.148	0.077	/
LTEB38	State 1	ANT1	QPSK	Back Side	15	38000	2595	20	50	LOW	0.03	0.142	20.40	21.00	1.148	0.163	/
LTEB38	State3	ANT1	QPSK	Front Side	15	38000	2595	20	1	LOW	-0.19	0.050	18.44	19.50	1.276	0.064	/
LTEB38	State3	ANT1	QPSK	Back Side	15	38000	2595	20	1	LOW	0.12	0.138	18.44	19.50	1.276	0.176	/
LTEB38	State3	ANT1	QPSK	Front Side	15	38000	2595	20	50	LOW	0.18	0.047	18.81	19.50	1.172	0.055	/
LTEB38	State3	ANT1	QPSK	Back Side	15	38000	2595	20	50	LOW	0.16	0.141	18.81	19.50	1.172	0.165	/
LTEB38	State 1&3	ANT2	QPSK	Front Side	15	38000	2595	20	1	LOW	-0.01	0.132	24.46	24.60	1.033	0.136	/
LTEB38	State 1&3	ANT2	QPSK	Back Side	15	38000	2595	20	1	LOW	0.05	0.150	24.46	24.60	1.033	0.155	/
LTEB38	State 1&3	ANT2	QPSK	Front Side	15	38000	2595	20	50	LOW	0.06	0.125	23.43	23.60	1.040	0.130	/
LTEB38	State 1&3	ANT2	QPSK	Back Side	15	38000	2595	20	50	LOW	0.15	0.141	23.43	23.60	1.040	0.147	/
Hotspot																	
LTEB38	State 3	ANT1	QPSK	Front Side	10	38000	2595	20	1	LOW	-0.11	0.099	18.44	19.50	1.276	0.126	/
LTEB38	State 3	ANT1	QPSK	Back Side	10	38000	2595	20	1	LOW	0.08	0.276	18.44	19.50	1.276	0.352	/
LTEB38	State 3	ANT1	QPSK	Left Edge	10	38000	2595	20	1	LOW	0.01	0.136	18.44	19.50	1.276	0.174	/
LTEB38	State 3	ANT1	QPSK	Right Edge	10	38000	2595	20	1	LOW	0.07	0.007	18.44	19.50	1.276	0.009	/

LTEB38	State 3	ANT1	QPSK	Top Edge	10	38000	2595	20	1	LOW	-0.08	0.340	18.44	19.50	1.276	0.434	51
LTEB38	State 3	ANT1	QPSK	Front Side	10	38000	2595	20	50	LOW	-0.12	0.093	18.81	19.50	1.172	0.109	/
LTEB38	State 3	ANT1	QPSK	Back Side	10	38000	2595	20	50	LOW	-0.05	0.260	18.81	19.50	1.172	0.305	/
LTEB38	State 3	ANT1	QPSK	Left Edge	10	38000	2595	20	50	LOW	0.06	0.128	18.81	19.50	1.172	0.150	/
LTEB38	State 3	ANT1	QPSK	Right Edge	10	38000	2595	20	50	LOW	-0.11	0.007	18.81	19.50	1.172	0.008	/
LTEB38	State 3	ANT1	QPSK	Top Edge	10	38000	2595	20	50	LOW	-0.12	0.335	18.81	19.50	1.172	0.393	/
LTEB38	State 3	ANT2	QPSK	Front Side	10	38000	2595	20	1	LOW	-0.17	0.223	24.46	24.60	1.033	0.230	/
LTEB38	State 3	ANT2	QPSK	Back Side	10	38000	2595	20	1	LOW	-0.02	0.327	24.46	24.60	1.033	0.338	/
LTEB38	State 3	ANT2	QPSK	Left Edge	10	38000	2595	20	1	LOW	-0.05	0.047	24.46	24.60	1.033	0.049	/
LTEB38	State 3	ANT2	QPSK	Right Edge	10	38000	2595	20	1	LOW	-0.11	0.051	24.46	24.60	1.033	0.053	/
LTEB38	State 3	ANT2	QPSK	Bottom Edge	10	38000	2595	20	1	LOW	-0.1	0.203	24.46	24.60	1.033	0.210	/
LTEB38	State 3	ANT2	QPSK	Front Side	10	38000	2595	20	50	LOW	0.06	0.210	23.43	23.60	1.040	0.218	/
LTEB38	State 3	ANT2	QPSK	Back Side	10	38000	2595	20	50	LOW	0.03	0.308	23.43	23.60	1.040	0.320	/
LTEB38	State 3	ANT2	QPSK	Left Edge	10	38000	2595	20	50	LOW	-0.02	0.044	23.43	23.60	1.040	0.046	/
LTEB38	State 3	ANT2	QPSK	Right Edge	10	38000	2595	20	50	LOW	0.12	0.048	23.43	23.60	1.040	0.050	/
LTEB38	State 3	ANT2	QPSK	Bottom Edge	10	38000	2595	20	50	LOW	-0.05	0.191	23.43	23.60	1.040	0.199	/

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																	
LTEB38	State 1	ANT1	QPSK	Back Side	0	38000	2595	20	1	LOW	-0.01	1.130	20.22	21.00	1.197	1.352	52
LTEB38	State 1	ANT1	QPSK	Top Edge	0	38000	2595	20	1	LOW	-0.18	0.657	20.22	21.00	1.197	0.786	/
LTEB38	State 3	ANT1	QPSK	Back Side	0	38000	2595	20	1	LOW	0.02	0.781	20.40	21.00	1.148	0.897	/
LTEB38	State 3	ANT1	QPSK	Top Edge	0	38000	2595	20	1	LOW	0.01	0.465	20.40	21.00	1.148	0.534	/

10.16 LTE Band 41 (20MHz Bandwidth)

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
LTEB41	State 2	ANT1	QPSK	Left Cheek	0	40640	2595	20	1	LOW	-0.03	0.117	18.34	19.00	1.164	0.136	/
LTEB41	State 2	ANT1	QPSK	Left Tilt	0	40640	2595	20	1	LOW	0.13	0.148	18.34	19.00	1.164	0.172	/
LTEB41	State 2	ANT1	QPSK	Right Cheek	0	40640	2595	20	1	LOW	-0.17	0.332	18.34	19.00	1.164	0.386	/
LTEB41	State 2	ANT1	QPSK	Right Tilt	0	40640	2595	20	1	LOW	0.07	0.398	18.34	19.00	1.164	0.463	53
LTEB41	State 2	ANT1	QPSK	Left Cheek	0	40640	2595	20	50	LOW	0.05	0.110	18.11	19.00	1.227	0.135	/
LTEB41	State 2	ANT1	QPSK	Left Tilt	0	40640	2595	20	50	LOW	-0.14	0.140	18.11	19.00	1.227	0.172	/
LTEB41	State 2	ANT1	QPSK	Right Cheek	0	40640	2595	20	50	LOW	-0.09	0.313	18.11	19.00	1.227	0.384	/
LTEB41	State 2	ANT1	QPSK	Right Tilt	0	40640	2595	20	50	LOW	-0.02	0.356	18.11	19.00	1.227	0.437	/
LTEB41	State 4	ANT1	QPSK	Left Cheek	0	40640	2595	20	1	LOW	-0.07	0.104	17.44	18.50	1.276	0.133	/
LTEB41	State 4	ANT1	QPSK	Left Tilt	0	40640	2595	20	1	LOW	-0.07	0.132	17.44	18.50	1.276	0.168	/
LTEB41	State 4	ANT1	QPSK	Right Cheek	0	40640	2595	20	1	LOW	0.05	0.296	17.44	18.50	1.276	0.378	/
LTEB41	State 4	ANT1	QPSK	Right Tilt	0	40640	2595	20	1	LOW	0.01	0.331	17.44	18.50	1.276	0.423	/
LTEB41	State 4	ANT1	QPSK	Left Cheek	0	40640	2595	20	50	LOW	0.06	0.098	17.52	18.50	1.253	0.123	/
LTEB41	State 4	ANT1	QPSK	Left Tilt	0	40640	2595	20	50	LOW	0.06	0.125	17.52	18.50	1.253	0.157	/
LTEB41	State 4	ANT1	QPSK	Right Cheek	0	40640	2595	20	50	LOW	-0.15	0.279	17.52	18.50	1.253	0.350	/
LTEB41	State 4	ANT1	QPSK	Right Tilt	0	40640	2595	20	50	LOW	-0.12	0.351	17.52	18.50	1.253	0.440	/
LTEB41	State 2&4	ANT2	QPSK	Left Cheek	0	40640	2595	20	1	LOW	0.01	0.084	24.33	24.60	1.064	0.089	/
LTEB41	State 2&4	ANT2	QPSK	Left Tilt	0	40640	2595	20	1	LOW	0.17	0.057	24.33	24.60	1.064	0.061	/
LTEB41	State 2&4	ANT2	QPSK	Right Cheek	0	40640	2595	20	1	LOW	0.14	0.165	24.33	24.60	1.064	0.176	/
LTEB41	State 2&4	ANT2	QPSK	Right Tilt	0	40640	2595	20	1	LOW	0.08	0.090	24.33	24.60	1.064	0.096	/

LTEB41	State 2&4	ANT2	QPSK	Left Cheek	0	40640	2595	20	50	LOW	-0.01	0.067	24.28	24.60	1.076	0.072	/
LTEB41	State 2&4	ANT2	QPSK	Left Tilt	0	40640	2595	20	50	LOW	0.18	0.045	24.28	24.60	1.076	0.048	/
LTEB41	State 2&4	ANT2	QPSK	Right Cheek	0	40640	2595	20	50	LOW	0.15	0.131	24.28	24.60	1.076	0.141	/
LTEB41	State 2&4	ANT2	QPSK	Right Tilt	0	40640	2595	20	50	LOW	0.13	0.071	24.28	24.60	1.076	0.076	/
Body-Worn																	
LTEB41	State 1	ANT1	QPSK	Front Side	15	40640	2595	20	1	LOW	-0.15	0.060	19.28	20.00	1.180	0.071	/
LTEB41	State 1	ANT1	QPSK	Back Side	15	40640	2595	20	1	LOW	0.18	0.132	19.28	20.00	1.180	0.156	54
LTEB41	State 1	ANT1	QPSK	Front Side	15	40640	2595	20	50	LOW	-0.09	0.057	19.16	20.00	1.213	0.069	/
LTEB41	State 1	ANT1	QPSK	Back Side	15	40640	2595	20	50	LOW	-0.11	0.121	19.16	20.00	1.213	0.147	/
LTEB41	State 3	ANT1	QPSK	Front Side	15	40640	2595	20	1	LOW	-0.05	0.042	17.44	18.50	1.276	0.054	/
LTEB41	State 3	ANT1	QPSK	Back Side	15	40640	2595	20	1	LOW	0.19	0.107	17.44	18.50	1.276	0.137	/
LTEB41	State 3	ANT1	QPSK	Front Side	15	40640	2595	20	50	LOW	0.02	0.040	17.52	18.50	1.253	0.050	/
LTEB41	State 3	ANT1	QPSK	Back Side	15	40640	2595	20	50	LOW	-0.13	0.101	17.52	18.50	1.253	0.127	/
LTEB41	State 1	ANT2	QPSK	Front Side	15	40640	2595	20	1	LOW	-0.04	0.125	23.62	24.10	1.117	0.140	/
LTEB41	State 1	ANT2	QPSK	Back Side	15	40640	2595	20	1	LOW	-0.09	0.118	23.62	24.10	1.117	0.132	/
LTEB41	State 1	ANT2	QPSK	Front Side	15	40640	2595	20	50	LOW	0.01	0.118	23.53	23.60	1.016	0.120	/
LTEB41	State 1	ANT2	QPSK	Back Side	15	40640	2595	20	50	LOW	0.12	0.114	23.53	23.60	1.016	0.116	/
LTEB41	State 3	ANT2	QPSK	Front Side	15	40640	2595	20	1	LOW	0.04	0.088	22.13	22.60	1.114	0.098	/
LTEB41	State 3	ANT2	QPSK	Back Side	15	40640	2595	20	1	LOW	0.03	0.106	22.13	22.60	1.114	0.118	/
LTEB41	State 3	ANT2	QPSK	Front Side	15	40640	2595	20	50	LOW	0.11	0.083	22.46	22.60	1.033	0.086	/
LTEB41	State 3	ANT2	QPSK	Back Side	15	40640	2595	20	50	LOW	0.14	0.100	22.46	22.60	1.033	0.103	/
Hotspot																	

LTEB41	State 3	ANT1	QPSK	Front Side	10	40640	2595	20	1	LOW	0.08	0.078	17.44	18.50	1.276	0.100	/
LTEB41	State 3	ANT1	QPSK	Back Side	10	40640	2595	20	1	LOW	-0.03	0.226	17.44	18.50	1.276	0.288	/
LTEB41	State 3	ANT1	QPSK	Left Edge	10	40640	2595	20	1	LOW	-0.12	0.089	17.44	18.50	1.276	0.114	/
LTEB41	State 3	ANT1	QPSK	Right Edge	10	40640	2595	20	1	LOW	-0.09	0.004	17.44	18.50	1.276	0.005	/
LTEB41	State 3	ANT1	QPSK	Top Edge	10	40640	2595	20	1	LOW	-0.14	0.285	17.44	18.50	1.276	0.364	55
LTEB41	State 3	ANT1	QPSK	Front Side	10	40640	2595	20	50	LOW	0.1	0.074	17.52	18.50	1.253	0.093	/
LTEB41	State 3	ANT1	QPSK	Back Side	10	40640	2595	20	50	LOW	0.03	0.213	17.52	18.50	1.253	0.267	/
LTEB41	State 3	ANT1	QPSK	Left Edge	10	40640	2595	20	50	LOW	0.17	0.084	17.52	18.50	1.253	0.105	/
LTEB41	State 3	ANT1	QPSK	Right Edge	10	40640	2595	20	50	LOW	0.06	0.004	17.52	18.50	1.253	0.005	/
LTEB41	State 3	ANT1	QPSK	Top Edge	10	40640	2595	20	50	LOW	-0.13	0.234	17.52	18.50	1.253	0.293	/
LTEB41	State 3	ANT2	QPSK	Front Side	10	40640	2595	20	1	LOW	-0.06	0.154	22.13	22.60	1.114	0.172	/
LTEB41	State 3	ANT2	QPSK	Back Side	10	40640	2595	20	1	LOW	0.09	0.199	22.13	22.60	1.114	0.222	/
LTEB41	State 3	ANT2	QPSK	Left Edge	10	40640	2595	20	1	LOW	0.16	0.035	22.13	22.60	1.114	0.039	/
LTEB41	State 3	ANT2	QPSK	Right Edge	10	40640	2595	20	1	LOW	0.04	0.030	22.13	22.60	1.114	0.033	/
LTEB41	State 3	ANT2	QPSK	Bottom Edge	10	40640	2595	20	1	LOW	-0.19	0.123	22.13	22.60	1.114	0.137	/
LTEB41	State 3	ANT2	QPSK	Front Side	10	40640	2595	20	50	LOW	0.17	0.145	22.46	22.60	1.033	0.150	/
LTEB41	State 3	ANT2	QPSK	Back Side	10	40640	2595	20	50	LOW	0.16	0.188	22.46	22.60	1.033	0.194	/
LTEB41	State 3	ANT2	QPSK	Left Edge	10	40640	2595	20	50	LOW	0.16	0.033	22.46	22.60	1.033	0.034	/
LTEB41	State 3	ANT2	QPSK	Right Edge	10	40640	2595	20	50	LOW	0.08	0.028	22.46	22.60	1.033	0.029	/
LTEB41	State 3	ANT2	QPSK	Bottom Edge	10	40640	2595	20	50	LOW	0.1	0.116	22.46	22.60	1.033	0.120	/

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Bandwidth	RB Num.	RB Start	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																	
LTEB41	State 1	ANT1	QPSK	Back Side	0	40640	2595	20	1	LOW	-0.01	1.000	23.62	24.10	1.117	1.117	56
LTEB41	State 3	ANT1	QPSK	Top Edge	0	40640	2595	20	1	LOW	0.04	0.708	22.13	22.60	1.114	0.789	/

10.17 WIFI 2.4GHz

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
2.4G WIFI	Level1	ANT7	802.11b	Left Cheek	0	6	2437	-0.01	0.597	15.08	16.50	1.387	98.33	1.017	0.842	57
2.4G WIFI	Level1	ANT7	802.11b	Left Tilt	0	6	2437	0.04	0.420	15.08	16.50	1.387	98.33	1.017	0.592	/
2.4G WIFI	Level1	ANT7	802.11b	Right Cheek	0	6	2437	0.02	0.175	15.08	16.50	1.387	98.33	1.017	0.247	/
2.4G WIFI	Level1	ANT7	802.11b	Right Tilt	0	6	2437	-0.07	0.208	15.08	16.50	1.387	98.33	1.017	0.293	/
2.4G WIFI	Level1	ANT7	802.11b	Left Cheek	0	1	2412	-0.01	0.439	14.88	16.50	1.452	98.33	1.017	0.648	/
2.4G WIFI	Level1	ANT7	802.11b	Left Cheek	0	11	2462	0.07	0.501	15.06	16.50	1.393	98.33	1.017	0.710	/
2.4G WIFI	Level3	ANT7	802.11b	Left Cheek	0	6	2437	-0.02	0.339	12.60	14.00	1.380	98.33	1.017	0.476	/
2.4G WIFI	Level3	ANT7	802.11b	Left Tilt	0	6	2437	0.05	0.231	12.60	14.00	1.380	98.33	1.017	0.324	/
2.4G WIFI	Level3	ANT7	802.11b	Right Cheek	0	6	2437	-0.09	0.096	12.60	14.00	1.380	98.33	1.017	0.135	/
2.4G WIFI	Level3	ANT7	802.11b	Right Tilt	0	6	2437	0.01	0.114	12.60	14.00	1.380	98.33	1.017	0.160	/
Body-Worn																
2.4G WIFI	Level2	ANT7	802.11b	Front Side	15	6	2437	-0.06	0.150	19.66	20.00	1.081	98.33	1.017	0.165	/
2.4G WIFI	Level2	ANT7	802.11b	Back Side	15	6	2437	0.06	0.210	19.66	20.00	1.081	98.33	1.017	0.231	58
2.4G WIFI	Level4	ANT7	802.11b	Front Side	15	6	2437	-0.09	0.119	17.62	18.50	1.225	98.33	1.017	0.148	/
2.4G WIFI	Level4	ANT7	802.11b	Back Side	15	6	2437	0.01	0.161	17.62	18.50	1.225	98.33	1.017	0.201	/
Hotspot																
2.4G WIFI	Level2	ANT7	802.11b	Front Side	10	6	2437	-0.04	0.266	19.66	20.00	1.081	98.33	1.017	0.293	/
2.4G WIFI	Level2	ANT7	802.11b	Back Side	10	6	2437	0.04	0.449	19.66	20.00	1.081	98.33	1.017	0.494	59
2.4G WIFI	Level2	ANT7	802.11b	Right Edge	10	6	2437	-0.02	0.211	19.66	20.00	1.081	98.33	1.017	0.232	/
2.4G WIFI	Level2	ANT7	802.11b	Top Edge	10	6	2437	-0.02	0.279	19.66	20.00	1.081	98.33	1.017	0.307	/

2.4G WIFI	Level4	ANT7	802.11b	Front Side	10	6	2437	0.06	0.182	17.62	18.50	1.225	98.33	1.017	0.227	/
2.4G WIFI	Level4	ANT7	802.11b	Back Side	10	6	2437	-0.10	0.311	17.62	18.50	1.225	98.33	1.017	0.387	/
2.4G WIFI	Level4	ANT7	802.11b	Right Edge	10	6	2437	-0.06	0.152	17.62	18.50	1.225	98.33	1.017	0.189	/
2.4G WIFI	Level4	ANT7	802.11b	Top Edge	10	6	2437	0.00	0.188	17.62	18.50	1.225	98.33	1.017	0.234	/

10.18 WIFI 5GHz

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
5.3G WIFI	Level1	ANT7	802.11n40	Left Cheek	0	54	5270	0.01	0.639	14.58	15.00	1.102	95.20	1.050	0.739	60
5.3G WIFI	Level1	ANT7	802.11n40	Left Tilt	0	54	5270	-0.02	0.559	14.58	15.00	1.102	95.20	1.050	0.647	/
5.3G WIFI	Level1	ANT7	802.11n40	Right Cheek	0	54	5270	0.09	0.163	14.58	15.00	1.102	95.20	1.050	0.189	/
5.3G WIFI	Level1	ANT7	802.11n40	Right Tilt	0	54	5270	-0.13	0.189	14.58	15.00	1.102	95.20	1.050	0.219	/
5.3G WIFI	Level3	ANT7	802.11n40	Left Cheek	0	54	5270	0.11	0.402	12.74	13.00	1.062	95.20	1.050	0.448	/
5.3G WIFI	Level3	ANT7	802.11n40	Left Tilt	0	54	5270	0.04	0.344	12.74	13.00	1.062	95.20	1.050	0.383	/
5.3G WIFI	Level3	ANT7	802.11n40	Right Cheek	0	54	5270	-0.12	0.099	12.74	13.00	1.062	95.20	1.050	0.110	/
5.3G WIFI	Level3	ANT7	802.11n40	Right Tilt	0	54	5270	-0.06	0.113	12.74	13.00	1.062	95.20	1.050	0.126	/
5.6G WIFI	Level1	ANT7	802.11a	Left Cheek	0	116	5580	0.01	0.610	13.65	15.00	1.365	98.36	1.017	0.847	61
5.6G WIFI	Level1	ANT7	802.11a	Left Tilt	0	116	5580	-0.12	0.533	13.65	15.00	1.365	98.36	1.017	0.740	/
5.6G WIFI	Level1	ANT7	802.11a	Right Cheek	0	116	5580	0.15	0.158	13.65	15.00	1.365	98.36	1.017	0.219	/
5.6G WIFI	Level1	ANT7	802.11a	Right Tilt	0	116	5580	0.10	0.198	13.65	15.00	1.365	98.36	1.017	0.275	/
5.6G WIFI	Level1	ANT7	802.11a	Left Cheek	0	100	5500	-0.08	0.511	13.51	15.00	1.409	98.36	1.017	0.732	/
5.6G WIFI	Level1	ANT7	802.11a	Left Cheek	0	140	5700	0.12	0.586	13.51	15.00	1.409	98.36	1.017	0.840	/
5.6G WIFI	Level3	ANT7	802.11ac80	Left Cheek	0	106	5530	0.12	0.382	11.60	13.00	1.380	91.40	1.094	0.577	/
5.6G WIFI	Level3	ANT7	802.11ac80	Left Tilt	0	106	5530	-0.05	0.335	11.60	13.00	1.380	91.40	1.094	0.506	/
5.6G WIFI	Level3	ANT7	802.11ac80	Right Cheek	0	106	5530	0.09	0.098	11.60	13.00	1.380	91.40	1.094	0.148	/
5.6G WIFI	Level3	ANT7	802.11ac80	Right Tilt	0	106	5530	-0.04	0.124	11.60	13.00	1.380	91.40	1.094	0.187	/

5.6G WIFI	Level3	ANT7	802.11ac80	Left Cheek	0	155	5775	-0.03	0.628	13.16	15.00	1.528	91.40	1.094	1.049	/
5.8G WIFI	Level1	ANT7	802.11ac80	Left Tilt	0	155	5775	0.06	0.697	13.16	15.00	1.528	91.40	1.094	1.165	62
5.8G WIFI	Level1	ANT7	802.11ac80	Left Tilt	0	155	5775	0.02	0.685	13.16	15.00	1.528	91.40	1.094	1.145	Secondary supply
5.8G WIFI	Level1	ANT7	802.11ac80	Right Cheek	0	155	5775	0.05	0.150	13.16	15.00	1.528	91.40	1.094	0.251	/
5.8G WIFI	Level1	ANT7	802.11ac80	Right Tilt	0	155	5775	0.11	0.193	13.16	15.00	1.528	91.40	1.094	0.323	/
5.8G WIFI	Level1	ANT7	802.11ac80	Left Cheek	0	155	5775	0.03	0.390	11.20	13.00	1.514	91.40	1.094	0.646	/
5.8G WIFI	Level3	ANT7	802.11ac80	Left Tilt	0	155	5775	-0.02	0.436	11.20	13.00	1.514	91.40	1.094	0.722	/
5.8G WIFI	Level3	ANT7	802.11ac80	Right Cheek	0	155	5775	0.01	0.093	11.20	13.00	1.514	91.40	1.094	0.154	/
5.8G WIFI	Level3	ANT7	802.11ac80	Right Tilt	0	155	5775	-0.03	0.119	11.20	13.00	1.514	91.40	1.094	0.197	/
Body-Worn																
5.3G WIFI	Level2	ANT7	802.11n40	Front Side	15	62	5310	0.13	0.034	13.12	13.50	1.091	95.20	1.050	0.039	/
5.3G WIFI	Level2	ANT7	802.11n40	Back Side	15	62	5310	-0.07	0.071	13.12	13.50	1.091	95.20	1.050	0.081	63
5.3G WIFI	Level4	ANT7	802.11n40	Front Side	15	62	5310	0.12	0.025	11.55	12.00	1.109	95.20	1.050	0.029	/
5.3G WIFI	Level4	ANT7	802.11n40	Back Side	15	62	5310	0.03	0.049	11.55	12.00	1.109	95.20	1.050	0.057	/
5.6G WIFI	Level2	ANT7	802.11n40	Front Side	15	134	5670	-0.15	0.047	12.23	13.50	1.340	95.20	1.050	0.066	/
5.6G WIFI	Level2	ANT7	802.11n40	Back Side	15	134	5670	0.06	0.168	12.23	13.50	1.340	95.20	1.050	0.236	64
5.6G WIFI	Level4	ANT7	802.11ac80	Front Side	15	106	5530	0.12	0.033	11.18	12.00	1.208	91.40	1.094	0.044	/
5.6G WIFI	Level4	ANT7	802.11ac80	Back Side	15	106	5530	-0.03	0.120	11.18	12.00	1.208	91.40	1.094	0.159	/
5.8G WIFI	Level2	ANT7	802.11ac80	Front Side	15	155	5775	0.03	0.052	11.68	13.50	1.521	91.40	1.094	0.087	/
5.8G WIFI	Level2	ANT7	802.11ac80	Back Side	15	155	5775	0.09	0.193	11.68	13.50	1.521	91.40	1.094	0.321	65
5.8G WIFI	Level4	ANT7	802.11ac80	Front Side	15	155	5775	0.08	0.038	10.15	12.00	1.531	91.40	1.094	0.064	/
5.8G WIFI	Level4	ANT7	802.11ac80	Back Side	15	155	5775	0.10	0.139	10.15	12.00	1.531	91.40	1.094	0.233	/

Hotspot																
5.2G WIFI	Level2	ANT7	802.11n40	Front Side	10	46	5230	-0.14	0.060	12.76	13.50	1.186	95.20	1.050	0.075	/
5.2G WIFI	Level2	ANT7	802.11n40	Back Side	10	46	5230	0.08	0.100	12.76	13.50	1.186	95.20	1.050	0.125	/
5.2G WIFI	Level2	ANT7	802.11n40	Right Edge	10	46	5230	0.11	0.087	12.76	13.50	1.186	95.20	1.050	0.108	/
5.2G WIFI	Level2	ANT7	802.11n40	Top Edge	10	46	5230	0.07	0.114	12.76	13.50	1.186	95.20	1.050	0.142	66
5.2G WIFI	Level4	ANT7	802.11n40	Front Side	10	46	5230	-0.14	0.046	11.27	12.00	1.183	95.20	1.050	0.057	/
5.2G WIFI	Level4	ANT7	802.11n40	Back Side	10	46	5230	-0.14	0.059	11.27	12.00	1.183	95.20	1.050	0.073	/
5.2G WIFI	Level4	ANT7	802.11n40	Right Edge	10	46	5230	0.01	0.053	11.27	12.00	1.183	95.20	1.050	0.066	/
5.2G WIFI	Level4	ANT7	802.11n40	Top Edge	10	46	5230	-0.12	0.076	11.27	12.00	1.183	95.20	1.050	0.094	/
5.8G WIFI	Level2	ANT7	802.11ac80	Front Side	10	155	5775	0.01	0.090	12.11	13.50	1.377	91.40	1.094	0.136	/
5.8G WIFI	Level2	ANT7	802.11ac80	Back Side	10	155	5775	-0.08	0.372	12.11	13.50	1.377	91.40	1.094	0.560	67
5.8G WIFI	Level2	ANT7	802.11ac80	Right Edge	10	155	5775	-0.05	0.254	10.93	12.00	1.279	91.40	1.094	0.356	/
5.8G WIFI	Level2	ANT7	802.11ac80	Top Edge	10	155	5775	0.04	0.281	10.93	12.00	1.279	91.40	1.094	0.393	/
5.8G WIFI	Level4	ANT7	802.11ac80	Front Side	10	155	5775	0.10	0.062	11.68	13.50	1.521	91.40	1.094	0.103	/
5.8G WIFI	Level4	ANT7	802.11ac80	Back Side	10	155	5775	-0.09	0.261	11.68	13.50	1.521	91.40	1.094	0.434	/
5.8G WIFI	Level4	ANT7	802.11ac80	Right Edge	10	155	5775	0.03	0.178	10.15	12.00	1.531	91.40	1.094	0.298	/
5.8G WIFI	Level4	ANT7	802.11ac80	Top Edge	10	155	5775	0.06	0.195	10.15	12.00	1.531	91.40	1.094	0.327	/
Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific																
5.3G WIFI	Level2	ANT7	802.11n40	Front Side	0	62	5310	-0.05	0.239	13.12	13.50	1.091	95.20	1.050	0.274	/
5.3G WIFI	Level2	ANT7	802.11n40	Back Side	0	62	5310	0.09	0.327	13.12	13.50	1.091	95.20	1.050	0.375	68
5.3G WIFI	Level2	ANT7	802.11n40	Left Edge	0	62	5310	-0.14	0.004	13.12	13.50	1.091	95.20	1.050	0.005	/

5.3G WIFI	Level2	ANT7	802.11n40	Right Edge	0	62	5310	-0.02	0.293	13.12	13.50	1.091	95.20	1.050	0.336	/
5.3G WIFI	Level2	ANT7	802.11n40	Top Edge	0	62	5310	-0.06	0.271	13.12	13.50	1.091	95.20	1.050	0.311	/
5.3G WIFI	Level2	ANT7	802.11n40	Bottom Edge	0	62	5310	-0.01	0.016	13.12	13.50	1.091	95.20	1.050	0.018	/
5.3G WIFI	Level4	ANT7	802.11n40	Front Side	0	62	5310	0.14	0.166	11.55	12.00	1.109	95.20	1.050	0.193	/
5.3G WIFI	Level4	ANT7	802.11n40	Back Side	0	62	5310	0.02	0.221	11.55	12.00	1.109	95.20	1.050	0.257	/
5.3G WIFI	Level4	ANT7	802.11n40	Left Edge	0	62	5310	0.08	0.011	11.55	12.00	1.109	95.20	1.050	0.013	/
5.3G WIFI	Level4	ANT7	802.11n40	Right Edge	0	62	5310	-0.14	0.214	11.55	12.00	1.109	95.20	1.050	0.249	/
5.3G WIFI	Level4	ANT7	802.11n40	Top Edge	0	62	5310	0.12	0.188	11.55	12.00	1.109	95.20	1.050	0.219	/
5.3G WIFI	Level4	ANT7	802.11n40	Bottom Edge	0	62	5310	-0.09	0.009	11.55	12.00	1.109	95.20	1.050	0.010	/
5.6G WIFI	Level2	ANT7	802.11n40	Front Side	0	134	5670	0.09	0.209	12.23	13.50	1.340	95.20	1.050	0.294	/
5.6G WIFI	Level2	ANT7	802.11n40	Back Side	0	134	5670	-0.09	0.318	12.23	13.50	1.340	95.20	1.050	0.447	69
5.6G WIFI	Level2	ANT7	802.11n40	Left Edge	0	134	5670	-0.05	0.015	12.23	13.50	1.340	95.20	1.050	0.021	/
5.6G WIFI	Level2	ANT7	802.11n40	Right Edge	0	134	5670	-0.07	0.261	12.23	13.50	1.340	95.20	1.050	0.367	/
5.6G WIFI	Level2	ANT7	802.11n40	Top Edge	0	134	5670	-0.13	0.284	12.23	13.50	1.340	95.20	1.050	0.399	/
5.6G WIFI	Level2	ANT7	802.11n40	Bottom Edge	0	134	5670	-0.13	0.008	12.23	13.50	1.340	95.20	1.050	0.011	/
5.6G WIFI	Level4	ANT7	802.11ac80	Front Side	0	106	5530	0.08	0.147	11.18	12.00	1.208	91.40	1.094	0.194	/
5.6G WIFI	Level4	ANT7	802.11ac80	Back Side	0	106	5530	0.01	0.227	11.18	12.00	1.208	91.40	1.094	0.300	/
5.6G WIFI	Level4	ANT7	802.11ac80	Left Edge	0	106	5530	0.03	0.006	11.18	12.00	1.208	91.40	1.094	0.008	/
5.6G WIFI	Level4	ANT7	802.11ac80	Right Edge	0	106	5530	-0.05	0.177	11.18	12.00	1.208	91.40	1.094	0.234	/
5.6G WIFI	Level4	ANT7	802.11ac80	Top Edge	0	106	5530	-0.06	0.190	11.18	12.00	1.208	91.40	1.094	0.251	/
5.6G WIFI	Level4	ANT7	802.11ac80	Bottom Edge	0	106	5530	0.11	0.002	11.18	12.00	1.208	91.40	1.094	0.003	/

10.19 Bluetooth

Band	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune- up power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Bluetooth	ANT7	DH5	Left Cheek	0	0	2402	0.01	0.193	11.48	13.00	1.419	76.61	1.013	0.277	70
Bluetooth	ANT7	DH5	Left Tilt	0	0	2402	0.10	0.147	11.48	13.00	1.419	76.61	1.013	0.211	/
Bluetooth	ANT7	DH5	Right Cheek	0	0	2402	-0.15	0.082	11.48	13.00	1.419	76.61	1.013	0.118	/
Bluetooth	ANT7	DH5	Right Tilt	0	0	2402	0.09	0.086	11.48	13.00	1.419	76.61	1.013	0.124	/
Bluetooth	ANT7	DH5	Front Side	15	0	2402	-0.13	0.025	11.48	13.00	1.419	76.61	1.013	0.036	/
Bluetooth	ANT7	DH5	Back Side	15	0	2402	0.04	0.053	11.48	13.00	1.419	76.61	1.013	0.076	71
Bluetooth	ANT7	DH5	Front Side	10	0	2402	-0.14	0.031	11.48	13.00	1.419	76.61	1.013	0.045	/
Bluetooth	ANT7	DH5	Back Side	10	0	2402	0.04	0.074	11.48	13.00	1.419	76.61	1.013	0.107	72
Bluetooth	ANT7	DH5	Right Edge	10	0	2402	-0.15	0.009	11.48	13.00	1.419	76.61	1.013	0.013	/
Bluetooth	ANT7	DH5	Top Edge	10	0	2402	-0.14	0.016	11.48	13.00	1.419	76.61	1.013	0.023	/

10.20 Worst Case for DUT S06 of WIFI 5GHz

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
5.8G WIFI	Level1	ANT7	802.11ac80	Left Tilt	0	155	5775	0.02	0.618	13.16	15.00	1.528	91.40	1.094	1.033	73

10.21 Worst Case for DUT S06 of GSM 1900

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body-Worn														
GSM1900	State 1&3	ANT1	GPRS 3Slots	Back Side	15	661	1880	0.15	0.278	24.55	26.50	1.567	0.436	74

10.22 Worst Case for DUT S06 of GSM 850

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot														
GSM850	State 3	ANT0	GPRS 3Slots	Left Edge	10	190	836.6	0.09	0.604	26.98	28.90	1.556	0.940	75

10.23 Worst Case for DUT S06 of WCDMA Band 4

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift(dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific														
WCDMA B4	State 1	ANT2	RMC	Bottom Edge	0	1412	1732.4	-0.02	2.470	20.37	20.40	1.007	2.487	76

10.24 Worst Case for DUT S08 of WIFI 5GHz

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
5.8G WIFI	Level1	ANT7	802.11ac80	Left Tilt	0	155	5775	0.08	0.669	13.16	15.00	1.528	91.40	1.094	1.118	77

10.25 Worst Case for DUT S08 of GSM 1900

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body-Worn														
GSM1900	State 1&3	ANT1	GPRS 3Slots	Back Side	15	661	1880	-0.11	0.253	24.55	26.50	1.567	0.396	78

10.26 Worst Case for DUT S08 of GSM 850

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Hotspot														
GSM850	State 3	ANT0	GPRS 3Slots	Left Edge	10	190	836.6	-0.01	0.559	26.98	28.90	1.556	0.870	79

10.27 Worst Case for DUT S08 of WCDMA Band 4

Band	DSI State	Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Specific														
WCDMAB4	State 1	ANT2	RMC	Bottom Edge	0	1412	1732.4	0.12	2.610	20.37	20.40	1.007	2.628	80

11 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated ^{1st} Measured SAR (W/kg)	Largest to Smallest SAR Ratio
1732.4	WCDMA band 4	Specific	Bottom Edge	2.740	Yes	2.680	1.02
846.6	WCDMA band 5	Hotspot	Left Edge	0.888	Yes	0.861	1.03
1880	LTE band 2	Hotspot	Bottom Edge	0.865	Yes	0.817	1.06
1880	LTE band 2	Specific	Bottom Edge	2.260	Yes	2.210	1.02
1732.5	LTE band 4	Specific	Bottom Edge	2.510	Yes	2.430	1.03
2510	LTE band 7	Head	Right Tilt	0.994	Yes	0.937	1.06
1745	LTE band 66	Specific	Bottom Edge	2.570	Yes	2.510	1.02
Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , the second repeated measurement. is not required.							

12 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot
1	WWAN + BT	Yes	Yes	Yes
2	WWAN + 2.4G WIFI	Yes	Yes	Yes
3	WWAN + 5G WIFI	Yes	Yes	Yes

Note:

1. WiFi 2.4G and Bluetooth share the same antenna, and can't transmit simultaneously.
2. The maximum SAR summation is calculated based on the same configuration and test position.
3. When stand-alone SAR is not required for a side of antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.

12.2 Sum SAR of Simultaneous Transmission

Please refer the document “BL-SZ2580929-AST.pdf”.

13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.8.8.1222	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	SN: 1208	2024/08/19	2027/08/18
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2024/05/08	2027/05/07
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2024/05/08	2027/05/07
1950MHz Validation Dipole	Speag	D1950V3	SN: 1240	2024/08/22	2027/08/21
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2024/05/08	2027/05/07
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2024/05/09	2027/05/08
Data Acquisition Electronics	Speag	DAE4	SN: 1423	2025/06/05	2026/06/04
E-Field Probe	Speag	EX3DV4	SN: 3974	2025/06/05	2026/06/04
Data Acquisition Electronics	Speag	DAE4	SN: 878	2025/03/05	2026/03/04
E-Field Probe	Speag	EX3DV4	SN: 7664	2025/06/30	2026/06/29
Signal Generator	Keysight	N5173B	MY62150163	2025/07/15	2026/07/14
Power Meter	R&S	NRVD-B2	835843/014	2025/07/15	2026/07/14
Power Sensor	R&S	NRV-Z4	100381	2025/07/15	2026/07/14
Power Sensor	R&S	NRV-Z2	100211	2025/07/15	2026/07/14
Wireless Communication Test Set	Anritsu	MT8820C	6201144551	2025/04/30	2026/04/29
Wireless Communication Test Set	R&S	CMW500	104946	2025/05/21	2026/05/20
Network Analyzer	Agilent	E5071C	MY46103472	2025/08/13	2026/08/12
Thermometer	Elitech	RC-4HC	EF7216002985	2024/10/31	2025/10/30
Thermometer	Elitech	RC-4HC	EF720B004811	2024/10/31	2025/10/30
Power Amplifier	Mini-Circuits	ZVA-183W-S+	932502132	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	SAM	SN: 1473	N/A	N/A
Phantom	Speag	SAM	SN: 1576	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an DAK3.5 Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity (σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2025.9.1	Head	750	21.6	0.87	42.78	0.89	41.94	-2.25	2.00
2025.9.3	Head	835	21.6	0.87	43.50	0.90	41.50	-3.33	4.82
2025.9.4	Head	835	21.1	0.88	43.14	0.90	41.50	-2.22	3.95
2025.9.5	Head	835	21.6	0.93	41.35	0.90	41.50	3.33	-0.36
2025.9.6	Head	835	21.2	0.90	42.32	0.90	41.50	0.00	1.98
2025.9.8	Head	835	21.7	0.90	42.62	0.90	41.50	0.00	2.70
2025.9.9	Head	835	21.4	0.90	40.97	0.90	41.50	0.00	-1.28
2025.9.10	Head	835	21.4	0.94	41.30	0.90	41.50	4.44	-0.48
2025.9.5	Head	1750	21.6	1.37	40.35	1.37	40.08	0.00	0.67
2025.9.11	Head	1750	21.7	1.35	40.79	1.37	40.08	-1.46	1.77
2025.9.12	Head	1750	21.1	1.38	39.97	1.37	40.08	0.73	-0.27
2025.9.13	Head	1950	21.6	1.42	40.17	1.40	40.00	1.43	0.43
2025.9.14	Head	1950	21.1	1.42	38.19	1.40	40.00	1.43	-4.53
2025.9.15	Head	1950	21.7	1.39	40.34	1.40	40.00	-0.71	0.85
2025.9.25	Head	2450	21.3	1.81	39.33	1.80	39.20	0.56	0.33
2025.9.17	Head	2600	21.1	1.96	39.12	1.96	39.01	0.00	0.28
2025.9.13	Head	2600	21.6	2.00	39.19	1.96	39.01	2.04	0.46
2025.9.18	Head	2600	21.6	1.96	37.93	1.96	39.01	0.00	-2.77
2025.9.19	Head	2600	21.0	1.99	39.03	1.96	39.01	1.53	0.05
2025.9.20	Head	2600	21.5	1.98	38.33	1.96	39.01	1.02	-1.74
2025.9.21	Head	5250	21.7	4.64	35.09	4.71	35.93	-1.49	-2.34
2025.9.22	Head	5250	21.4	4.72	34.89	4.71	35.93	0.21	-2.89
2025.9.23	Head	5600	21.9	5.03	34.30	5.07	35.53	-0.79	-3.46
2025.9.24	Head	5750	21.9	5.23	33.90	5.22	35.36	0.19	-4.13
2025.9.24	Head	835	21.9	0.93	42.22	0.90	41.50	3.33	1.73
2025.9.24	Head	1750	21.9	1.33	41.42	1.37	40.08	-2.92	3.34
2025.9.24	Head	2600	21.9	1.91	39.75	1.96	39.01	-2.55	1.90
2025.09.27	Head	835	21.2	0.90	41.90	0.90	41.50	0.00	0.96
2025.09.27	Head	1750	21.2	1.37	39.96	1.37	40.08	0.00	-0.30
2025.09.27	Head	1950	21.2	1.42	39.31	1.40	40.00	1.43	-1.73
2025.09.27	Head	5750	21.2	5.18	35.53	5.22	35.36	-0.77	0.48

Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 % (for 1 g).

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.9.1	Head	750	100	0.855	8.55	8.46	1.06
2025.9.3	Head	835	100	0.915	9.15	9.74	-6.06
2025.9.4	Head	835	100	0.987	9.87	9.74	1.33
2025.9.5	Head	835	100	1.010	10.10	9.74	3.70
2025.9.6	Head	835	100	0.957	9.57	9.74	-1.75
2025.9.8	Head	835	100	0.981	9.81	9.74	0.72
2025.9.9	Head	835	100	0.901	9.01	9.74	-7.49
2025.9.10	Head	835	100	0.959	9.59	9.74	-1.54
2025.9.5	Head	1750	100	3.580	35.80	37.00	-3.24
2025.9.11	Head	1750	100	3.560	35.60	37.00	-3.78
2025.9.12	Head	1750	100	3.680	36.80	37.00	-0.54
2025.9.13	Head	1950	100	3.920	39.20	41.70	-6.00
2025.9.14	Head	1950	100	4.260	42.60	41.70	2.16
2025.9.15	Head	1950	100	3.870	38.70	41.70	-7.19
2025.9.25	Head	2450	100	5.500	55.00	52.60	4.56
2025.9.17	Head	2600	100	5.730	57.30	55.90	2.50
2025.9.13	Head	2600	100	5.310	53.10	55.90	-5.01
2025.9.18	Head	2600	100	5.490	54.90	55.90	-1.79
2025.9.19	Head	2600	100	5.790	57.90	55.90	3.58
2025.9.20	Head	2600	100	5.950	59.50	55.90	6.44
2025.9.21	Head	5250	100	7.850	78.50	77.70	1.03
2025.9.22	Head	5250	100	7.890	78.90	77.70	1.54
2025.9.23	Head	5600	100	8.490	84.90	81.30	4.43
2025.9.24	Head	5750	100	8.080	80.80	77.60	4.12
2025.9.24	Head	835	100	1.020	10.20	9.74	4.72
2025.9.24	Head	1750	100	3.870	38.70	37.00	4.59
2025.9.24	Head	2600	100	5.200	52.00	55.90	-6.98
2025.9.27	Head	835	100	0.962	9.62	9.74	-1.23
2025.9.27	Head	1750	100	3.750	37.50	37.00	1.35
2025.9.27	Head	1950	100	4.110	41.10	41.70	-1.44
2025.9.27	Head	5750	100	7.880	78.80	77.60	1.55
Note: The tolerance limit of System validation $\pm 10\%$.							

Head liquid 10g

Date	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2025.9.5	1750	100	2.020	20.20	19.70	2.54
2025.9.11	1750	100	1.870	18.70	19.70	-5.08
2025.9.12	1750	100	1.940	19.40	19.70	-1.52
2025.9.13	1950	100	2.150	21.50	21.70	-0.92
2025.9.14	1950	100	2.190	21.90	21.70	0.92
2025.9.15	1950	100	1.990	19.90	21.70	-8.29
2025.9.17	2600	100	2.720	27.20	25.40	7.09
2025.9.19	2600	100	2.580	25.80	25.40	1.57
2025.9.20	2600	100	2.690	26.90	25.40	5.91
2025.9.22	5250	100	2.230	22.30	22.00	1.36
2025.9.23	5600	100	2.370	23.70	23.10	2.60
2025.9.24	1750	100	2.040	20.40	19.70	3.55
2025.9.27	1750	100	1.920	19.20	19.70	-2.54
Note: The tolerance limit of System validation $\pm 10\%$.						

Please refer the document “BL-SZ2580929-ASC.pdf”.

ANNEX C TEST DATA

Please refer the document “BL-SZ2580929-ATD.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2580929-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “BL-SZ2580929-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “BL-SZ2580929-AC.pdf”.

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