

Report No.: KSCR220500087701

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FCC SAR TEST REPORT

Application No.: KSCR2205000877AT(FYCR2204000134AT) **Applicant:** Hytera Communications Corporation Limited

Address of Applicant: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road,

Nanshan District, Shenzhen, P.R.C., P 518057

Manufacturer: Hytera Communications Corporation Limited

Address of Manufacturer: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road,

Nanshan District, Shenzhen, P.R.C., P 518057

Product Name: 5G XSecure Rugged Device Model No.(EUT): PNC560/ PNC560 SCAN

Trade mark: Hytera

FCC ID: YAMPNC560

Standard(s): FCC 47CFR §2.1093

Date of Receipt: 2022-05-27

Date of Test: 2022-06-13 to 2022-07-21

Date of Issue: 2022-07-27

Test Result: Pass*

Erin fri

Eric Lin
EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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REVISION HISTORY

Revision Record			
Version	Description	Date	Remark
00	Original	2022-07-27	/

Authorized for issue by:			
	Richard. Kong		
	Richard.Kong/ Project Engineer	-	
	Essa fri		
	Eric.Lin/Reviewer	-	



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TEST SUMMARY

	I LOT SOMMANT			
Frequency Band	Maximum Reported SAR(W/kg)			
, ,	Head	Body	Extremity	
GSM850	0.28	1.15	2.68	
GSM1900	0.23	0.23	0.57	
WCDMA Band II	0.41	0.25	0.70	
WCDMA Band IV	0.33	0.25	0.50	
WCDMA Band V	0.22	0.33	1.03	
LTE Band 2	0.44	0.16	0.44	
LTE Band 4	0.36	0.19	0.45	
LTE Band 5	0.27	0.28	0.79	
LTE Band 7	0.48	0.13	0.30	
LTE Band 12	0.12	0.21	0.54	
LTE Band 13	0.18	0.26	0.94	
LTE Band 17	0.09	0.17	0.55	
LTE Band 26	0.28	0.32	0.96	
LTE Band 38	1.12	0.44	0.79	
LTE Band 40 a	0.41	0.22	0.44	
LTE Band 40 b	0.46	0.25	0.55	
LTE Band 41	0.32	0.60	1.31	
LTE Band 42	0.48	0.30	0.54	
LTE Band 48	1.16	0.35	0.62	
FR1 N2	0.54	0.34	0.83	
FR1 N5	0.27	0.31	1.16	
FR1 N41	1.13	0.31	1.13	
FR1 N66	0.58	0.23	0.60	
FR1 N71	0.18	0.26	0.98	
WI-FI (2.4GHz)	0.32	0.07	0.25	
WI-FI (5GHz)	0.83	0.22	0.51	
Bluetooth	0.23	0.08	0.25	
SAR Limited(W/kg)	1.6	1.6	4.0	
		Transmission SAR (W/kg)		
Scenario	Head	Body	Extremity	
Sum SAR	1.59	1.37	3.88	
SPLSR	/	/	/	
SPLSR Limited	0.04	0.04	0.1	



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1 General Information

1.1 General Description of EUT

Product Phase:	Production unit			
Device Type:	Portable device			
Exposure Category:	Uncontrolled environment / general population			
SN:	D16N209D1455591	9 11		
Hardware Version:	1FU010_V1.02			
Software Version:	V1.0.04.000.03			
	BT/2.4G/5G WIFI ant	enna gain: -0.5dBi		
	GSM850: -2dBi; PCS1900: -1dBi			
	WCDMA:			
	B2: -1dBi, B4: -1dBi,	B5· -2dBi		
Antenna Gain:	LTE:	DO. 20DI		
		, -2dBi; 7, 1dBi; 12, -2.5dB	i. 12 2 EdDi: 17 2 EdDi:	
		, -2061, 7, 1061, 12, -2.506 0, -0.5dBi; 41, 1dBi; 42, 1dl		
	NR:	o, o.oabi, 41, 1abi, 42, 1ai	51, 40, 1051	
		I 14Di: 66 14Di: 71 0.54	D;	
Antonno Typo:		I, 1dBi; 66, -1dBi; 71, -2.5d	DI	
Antenna Type: PIFA Antenna				
Device Operating Configurations :	WCDMA: QPSK, BPS	SK.		
	LTE: QPSK,16QAM;			
Modulation Mode:	5G NR (FDD 15SCS, TDD 30SCS)			
	WIFI: CCK, DSSS, OFDM;			
	BT: GFSK, π/4DQPSK, 8DPSK; BLE: GFSK			
HSDPA UE Category:	14	HSUPA UE Category	6	
DC-HSDPA UE Category:	24			
	4, tested with power level 5(GSM850)			
Power Class:	1, tested with power level 0(GSM1900)			
i ower diass.	3, tested with power control "all 1" (WCDMA Band)			
	3, tested with power control Max Power (LTE Band)			
	Band	Tx (MHz)	Rx (MHz)	
	GSM850	824~849	869~894	
	GSM1900	1850~1910	1930~1990	
	WCDMA Band II	1850-1910	1930-1990	
Frequency Bands:	WCDMA Band IV	1710-1755	2110- 2155	
	WCDMA Band V	824-849	869-894	
	LTE Band 2	1850-1910	1930-1990	
	LTE Band 4	1710-1755	2110- 2155	
	LTE Band 5	824-849	869-894	



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	LTE Band 7	2500-2570	2620- 2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 17	704-716	734-746
	LTE Band 26	814-849	859-894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 40	2305-2315 MHz 2345-2355 MHz	2305-2315 MHz 2345-2355 MHz
	LTE Band 41	2496-2690	2496-2690
	LTE Band 42	3450-3550	3450-3550
	LTE Band 48	3550-3700	3550-3700
	N2	1850-1910	1930-1990
	N5	1710-1785	1805-1880
	N41	2496-2690	2496-2690
	N66	1710-1780	2110-2200
	N71	663-698	617-652
	WIFI2.4G	2412-2462	2412-2462
	U-NII-1	5150-5250	5150-5250
	U-NII-3	5725~5850	5725~5850
	BT	2402-2480	2402-2480
	Model:	BP4901	
	Normal Voltage:	DC3.85V	
Battery Information:	Rated capacity:	4900mAh	
	Battery Type:	Rechargeable Li-ion Batte	ery
	Manufacturer:	Hytera Communication Co	orporation Limited



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1.1.1 DUT Antenna Locations

Please see the Appendix D



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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radio frequency Radiation Exposure Evaluation: Portable Devices
IEEE Std C95.1 – 1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 447498 D04v01	Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies
KDB 865664 D01 v01r04	SAR Measurement Requirements for 100 MHz to 6 GHz
KDB 865664 D02 v01r02	RF Exposure Compliance Reporting and Documentation Considerations
KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS
KDB 616217 D04 v01r02	SAR EVALUATION CONSIDERATIONS FOR LAPTOP, NOTEBOOK, NETBOOK AND TABLET COMPUTERS
KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
KDB 941225 D01 v03r01	3G SAR Measurement Procedures
KDB 941225 D05 v02r05	SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES



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1.3 RF exposure limits

Human Evnacura	Uncontrolled Environment	Controlled Environment	
Human Exposure	General Population	Occupational	
Spatial Peak SAR*	1.60 \\//kg	9 00 W/kg	
(Brain*Trunk)	1.60 W/kg	8.00 W/kg	
Spatial Average SAR**	0.08 \\//ka	0.40 W/kg	
(Whole Body)	0.08 W/kg		
Spatial Peak SAR***	4.00 \\\\\\\	20.00 W/kg	
(Hands/Feet/Ankle/Wrist)	4.00 W/kg		

Notes:

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

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



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

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

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



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1.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequen cy, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applica ble).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on re sults of the data provided by applicant. (if applicable).

1.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

FCC (Designation Number: CN1172)

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C	
Relative humidity	Min. = 30%, Max. = 70%	
Ground system resistance	< 0.5 Ω	
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.		



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

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

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

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.

A data acquisition electronics (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.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



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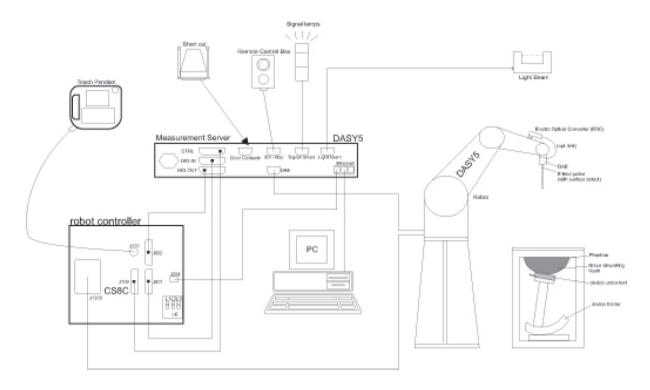
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F-1. SAR Measurement System Configuration

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validat the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4



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	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 <u>calibration service</u> available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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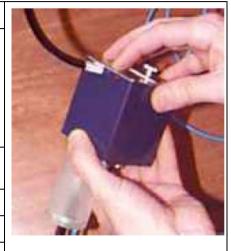


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3.3 Data Acquisition Electronics (DAE)

Model	DAE4
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5µV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Wooden Support	SPEAG standard phantom table



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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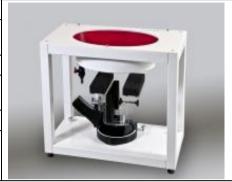


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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2.0 ± 0.2 mm (bottom plate)
Dimensions	Major axis: 600 mm Minor axis: 400 mm
Filling Volume	approx. 30 liters
Wooden Support	SPEAG standard phantom table



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε =3 and loss tangent δ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 30mm*30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points (≤2GHz) and 7x7x7 points (≥2GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements 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.



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		≤ 3 GHz	> 3 GHz	
	_	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$	
Maximum probe angle from probe axis to phantom surface normal at the measurement location			20° ± 1°	
		≤2 GHz: ≤15 mm 2 – 3 GHz: ≤12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			on, is smaller than the above, must be ≤ the corresponding evice with at least one	
patial reso	lution: Δx _{Zoom} , Δy _{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
uniform g	grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
graded	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
grid $\Delta z_{Z_{00m}}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	
	patial resolution graded grid	patial resolution: Δx_{Area} , Δy_{Area} patial resolution: Δx_{Zoom} , Δy_{Zoom} uniform grid: $\Delta z_{Zoom}(n)$ $\frac{\Delta z_{Zoom}(1): \text{ between } 1^{st} \text{ two points closest to phantom surface}}{\Delta z_{Zoom}(n>1): \text{ between subsequent points}}$	m closest measurement point obe sensors) to phantom surface from probe axis to phantom seasurement location	

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. \pm 5 %



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When zoom scan is required and the <u>reported</u> 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 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE3". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

Conversion factor ConvFiDiode compression point Dcpi

Device parameters: - Frequency f

- Crest factor cf

Media parameters: - Conductivity ε

- Density ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With Vi = compensated signal of channel i (i = x, y, z)

Ui = input signal of channel i (i = x, y, z)



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cf = crest factor of exciting field (DASY parameter) dcp i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$

With Vi = compensated signal of channel i

(i = x, y, z)

Normi = sensor sensitivity of channel I

(· ··, y,

[mV/(V/m)2] for E-field Probes

(I = X, y, z)

[IIIV/(V/III)2] IOI L-Heid Flobes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

With SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 2 / 3770$$
 or $P_{pwe} = H_{tot}^2 \cdot 37.7$

with Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The 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 remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only 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 \geq 1.45 W/kg (\sim 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.



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4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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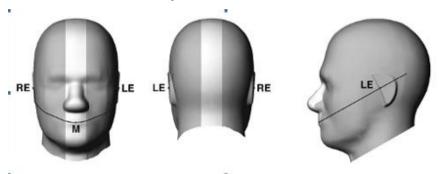
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5 Description of Test Position

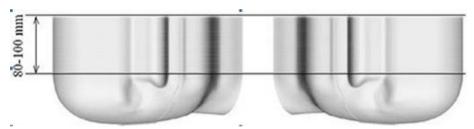
5.1 The Head Test Position

5.1.1 SAM Phantom Shape

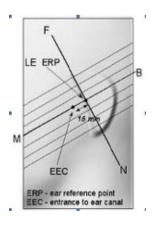


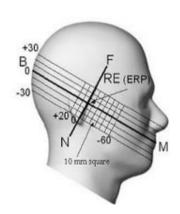
F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)







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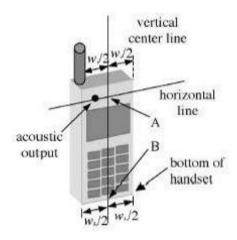
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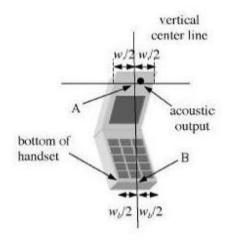
F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-"fixed case"



F-8. Handset vertical and horizontal reference lines-"clam-shell case"

5.1.3 Definition of the "cheek" position

- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

5.1.4 Definition of the "tilted" position

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



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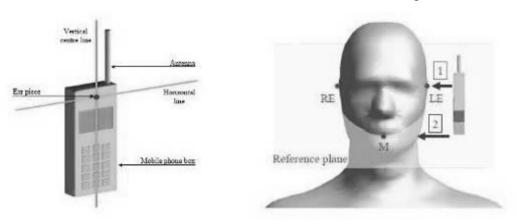
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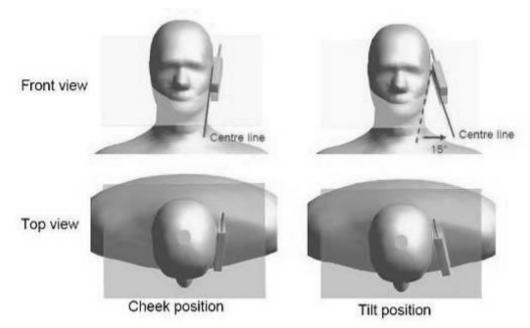


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F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. "Cheek" and "tilt" positions of the mobile phone on the left side



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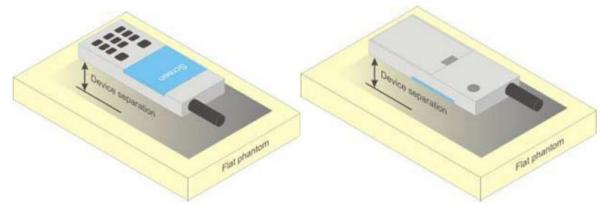
5.2 The Body Test Position

5.2.1 Body-worn accessory exposure conditions

Devices that support transmission while used with body-worn accessories must be tested for body-worn accessory SAR compliance. SAR evaluation is required for body-worn accessories supplied with the host device. The test configurations must be conservative for supporting the body-worn accessory use conditions expected by users, as indicated in Figure 11

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the surface of the device and the flat phantom is used. Base upon the description of EN 62209-2, a separation distance 5 mm is commonly used for body-worn mobile phones, to represent a spacing provided by intended accessories. So the separation distance 5 mm is used for body-worn SAR testing of this device.



F-11. Test positions for body-worn devices



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5.3 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W \ge 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

5.4 Extremity exposure conditions

Per FCC KDB 648474D04, 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, the device is marketed as "Phablet".

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at \leq 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g 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, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, only the following frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.



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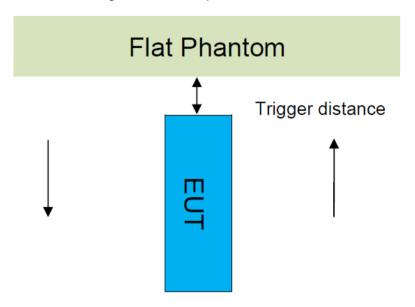
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5.5 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

The Proximity sensor triggering was applied to WWAN antenna. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm)								
Position Front side Back side								
Minimum	16	16						
Required SAR Test	15	15						

Note: SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



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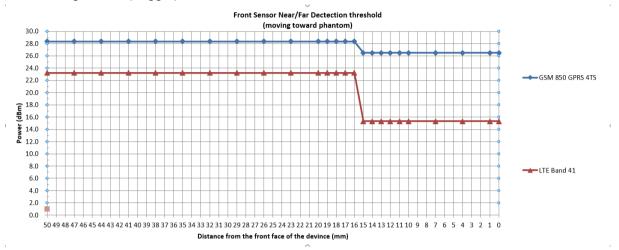
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DUT Moving Toward(Trigger)the Phantom



Proximity sensor coverage

If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and "along the direction of maximum antenna and sensor offset".

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

Device tilt angle influences to proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

Rotating the tablet around the edge next to the phantom in \leq 10° increments until the tablet is \pm 45° from the vertical position at 0°, and the maximum output power remains in the reduced mode.



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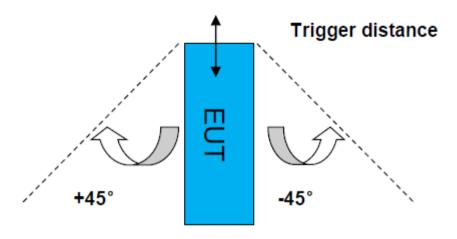
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Flat Phantom



Summary Tilt Angle Influence to Proximity Sensor Triggering for Top Side

Band	Minimum distance(mm)	-45	-40	-30	-20	-10	0	10	20	30	40	45
GSM850	16	on	on	on	on	on	on	on	on	on	on	on
LTE Band 41	16	on	on	on	on	on	on	on	on	on	on	on



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients	Frequency (MHz)										
(% by weight)	450		835		915		1900		2450		
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2	
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04	
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0	
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0	
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0	
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7	
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5	
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78	

HSL5GHz is composed of the following ingredients:

Water: 50-65%

Mineral oil: 10-30%

Emulsifiers: 8-25%

Sodium salt: 0-1.5%

MSL5GHz is composed of the following ingredients:

Water: 64-78%

Mineral oil: 11-18%

Emulsifiers: 9-15%

Sodium salt: 2-3%



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6.1.2 Test Liquids Confirmation

Simulated tissue liquid parameter confirmation

The dielectric parameters were checked prior to assessment using the SPEAG DAK3.5 dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

IEEE SCC-34/SC-2 P1528 recommended tissue dielectric parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in P1528

Target Frequency	He	ad	Body			
(MHz)	٤ _r	σ (S/m)	٤ _r	σ (S/m)		
150	52.3	0.76	61.9	0.80		
300	45.3	0.87	58.2	0.92		
450	43.5	0.87	56.7	0.94		
835	41.5	0.90	55.2	0.97		
900	41.5	0.97	55.0	1.05		
915	41.5	0.98	55.0	1.06		
1450	40.5	1.20	54.0	1.30		
1610	40.3	1.29	53.8	1.40		
1800-2000	40.0	1.40	53.3	1.52		
2450	39.2	1.80	52.7	1.95		
3000	38.5	2.40	52.0	2.73		
5800	35.3	5.27	48.2	6.00		

 $(\varepsilon_r = \text{relative permittivity}, \sigma = \text{conductivity and } \rho = 1000 \text{ kg/m}^3)$



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6.1.3 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the SPEAG DAK3.5 dielectric probe kit in conjunction with Agilent E5071B Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Liquid Temp. (°C)	Date
750 Head	750	0.88	43.03	0.89	41.90	-1.35	2.69	±5	22.1	2022/6/13
750 Head	750	0.88	42.99	0.89	41.90	-1.12	2.60	±5	22.1	2022/6/14
835 Head	835	0.89	40.97	0.90	41.50	-1.11	-1.27	±5	22.1	2022/6/15
835 Head	835	0.88	40.94	0.90	41.50	-2.22	-1.35	±5	22.1	2022/7/21
1800 Head	1800	1.38	40.26	1.40	40.00	-1.14	0.65	±5	22.1	2022/6/17
1800 Head	1800	1.38	40.13	1.40	40.00	-1.43	0.33	±5	22.1	2022/6/18
1900 Head	1900	1.41	41.79	1.40	40.00	0.93	4.48	±5	22	2022/6/19
1900 Head	1900	1.40	41.80	1.40	40.00	0.00	4.50	±5	22	2022/6/20
2300 Head	2300	1.65	39.66	1.67	39.50	-1.26	0.39	±5	22.1	2022/6/21
2300 Head	2300	1.66	39.67	1.67	39.50	-0.60	0.43	±5	22.1	2022/6/22
2450 Head	2450	1.82	39.15	1.80	39.20	1.28	-0.14	±5	22	2022/6/23
2450 Head	2450	1.73	39.02	1.80	39.20	-3.89	-0.46	±5	22	2022/6/24
2600 Head	2600	1.98	38.66	1.96	39.00	1.12	-0.88	±5	22.1	2022/6/25
2600 Head	2600	1.99	38.64	1.96	39.00	1.53	-0.92	±5	22.1	2022/7/21
3500 Head	3500	3.01	38.27	2.91	37.93	3.33	0.90	±5	22.1	2022/6/27
3500 Head	3500	2.87	38.12	2.91	37.93	-1.37	0.50	±5	22.1	2022/6/28
3700 Head	3700	3.24	37.64	3.12	37.70	3.88	-0.16	±5	22.2	2022/6/29
3700 Head	3700	3.21	37.61	3.12	37.70	2.88	-0.24	±5	22.2	2022/6/29
5200 Head	5200	4.66	36.05	4.66	36.01	0.04	0.11	±5	22.1	2022/6/30
5800 Head	5800	5.24	34.50	5.28	35.24	-0.78	-2.11	±5	22.1	2022/6/30



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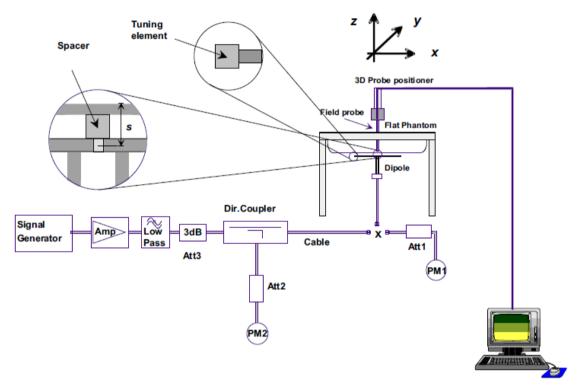


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6.2 SAR System Check

The microwave circuit arrangement for system check is sketched in bellow figure. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table. During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system verification



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6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

		<u> </u>	JIICOK IKC	· ,					
Valida	tion Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	(5)	
D750V2	Head	2.12	1.31	8.48	5.24	8.27 (7.44~9.10)	5.48 (4.93~6.03)	22.1	2022/6/13
D750V2	Head	2.11	1.29	8.44	5.16	8.27 (7.44~9.10)	5.48 (4.93~6.03)	22.1	2022/6/14
D835V2	Head	2.33	1.55	9.32	6.2	9.40 (8.46~10.34)	6.12 (5.51~6.73)	22.1	2022/6/15
D835V2	Head	2.28	1.47	9.12	5.88	9.40 (8.46~10.34)	6.12 (5.51~6.73)	22.1	2022/7/21
D1800V2	Head	9.34	4.92	37.36	19.68	38.9 (35.01~42.79)	20.4 (18.36~22.44)	22.1	2022/6/17
D1800V2	Head	9.27	4.78	37.08	19.12	38.9 (35.01~42.79)	20.4 (18.36~22.44)	22.1	2022/6/18
D1900V2	Head	10.3	4.94	41.2	19.76	40.0 (36.00~44.00)	20.3 (18.72~22.88)	22	2022/6/19
D1900V2	Head	10.19	4.74	40.76	18.96	40.0 (36.00~44.00)	20.3 (18.72~22.88)	22	2022/6/20
D2300V2	Head	11.9	5.82	47.6	23.28	49.2 (44.28~54.12)	23.4 (21.06~25.74)	22.1	2022/6/21
D2300V2	Head	11.67	5.64	46.68	22.56	49.2 (44.28~54.12)	23.4 (21.06~25.74)	22.1	2022/6/22
D2450V2	Head	13.83	6.59	55.32	26.36	53 (47.70~58.30)	24.7 (22.23~27.17)	22	2022/6/23
D2450V2	Head	13.68	6.33	54.72	25.32	53 (47.70~58.30)	24.7 (22.23~27.17)	22	2022/6/24
D2600V2	Head	14.21	6.27	56.84	25.08	54.8 (49.32~60.28)	24.5 (22.05~26.95)	22.1	2022/6/25
D2600V2	Head	14.15	6.24	56.6	24.96	54.8 (49.32~60.28)	24.5 (22.05~26.95)	22.1	2022/7/21
Valida	tion Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)						
D3500V2	Head	5.82	2.25	58.2	22.5	62.7 (56.43~68.97)	23.7 (21.33~26.07)	22	2022/6/27
D3500V2	Head	5.84	2.22	58.4	22.2	62.7 (56.43~68.97)	23.7 (21.33~26.07)	22	2022/6/27



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D3700V2	Head	6.52	2.27	65.2	22.7	64.4 (57.96~70.84)	23.5 (21.15~25.85)	22.1	2022/6/29
D3700V2	Head	6.48	2.21	64.8	22.1	64.4 (57.96~70.84)	23.5 (21.15~25.85)	22.1	2022/6/29
D5GHzV2	Head (5.20GHz)	8.09	2.24	80.9	22.4	77.6 (69.84~85.36)	22.1 (19.35~23.65)	22.1	2022/6/30
D3GHZVZ	Head (5.80GHz)	8.12	2.13	81.2	21.3	76.7 (69.03~84.37)	21.5 (19.35~23.65)	22.1	2022/6/30

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 Operation Configurations

7.2.1 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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

Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported bodyworn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) . HSDPA / HSUPA / DC-HSDPA



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According to KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is \leq 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(β c, β d), and HS-DPCCH power offset parameters (Δ ACK, Δ NACK, Δ CQI) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.



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Sub-test	βc	Bd	βd(SF)	βc/βd	βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: \triangle ACK, \triangle NACK and \triangle CQI= 8 Ahs = β hs/ β c=30/15 β hs=30/15* β c

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle ACK and \triangle NACK= 8 (Ahs=30/15) with β hs=30/15* β c,and \triangle CQI=

7 (Ahs=24/15) with β hs= $24/15*\beta$ c.

Note3: CM=1 for β c/ β d =12/15, β hs/ β c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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

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



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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter- TTI Interval	MaximumH S-DSCH Transport BlockBits/HS- DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the "WCDMA Handset" and "Release 5 HSUPA Data Device" sections of 3G device.



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Sub -test₽	βe€	βd€	βd (SF)	β₀∕β₄₽	β _{hs} (1	β _{ec+}	β _{ed} ₽	β ₆ ₆₄ (SF)+2	βed↔ (code	CM(2)+ (dB)+2	MP R↓ (dB)↓	AG ⁽⁴)↔ Inde x↔	E- TFC I
1₽	11/15(3)+2	15/15(3)	64₽	11/15(3)+2	22/15₽	209/22 5↔	1039/225₽	4€	1₽	1.04	0.0	20₽	75₽
2₽	6/15₽	15/15∉	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0₽	2.0₽	12 ₀	67₽
3₽	15/150	9/15₽	64₽	15/9₽	30/15₽	30/15	β _{ed1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4.	2₽	2.0₽	1.0₽	15.0	92₽
4€	2/15₽	15/15∉	64₽	2/15∉	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₽	2.0₽	17₽	71₽
5₽	15/15(4)+3	15/15 ⁽⁴⁾	64₽	15/15(4)+3	30/15₽	24/15₽	134/15₽	4€	1₽	1.0₽	0.0₽	21	81₽

Note 1: \triangle ACK, \triangle NACK and \triangle CQI = 8 $A_{hs} = \beta_{hs}/\beta_{e} = 30/15$ $\beta_{hs} = 30/15 * \beta_{e4}$

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3 : For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCHPhysical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
2	2	4	10	4	14484	1.4592
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
4	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6	4	8	10	2SF2&2SF	11484	5.76
(No DPDCH)	4	4	2	4	20000	2.00
7	4	8	2	2SF2&2SF	22996	?
(No DPDCH)	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM.(TS25.306-7.3.0).



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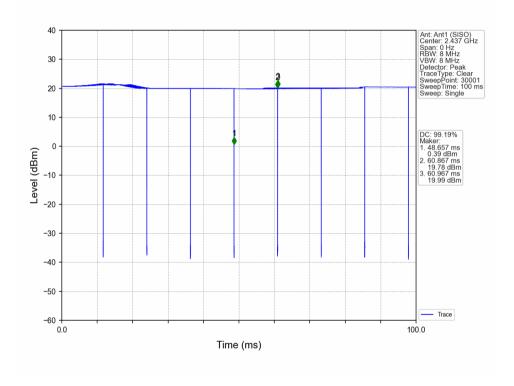
7.2.2 Wi-Fi Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.2.1 Duty cycle

1) 2.4GHz Wi-Fi:

WI-FI 802.11b: Duty cycle= 99.19%





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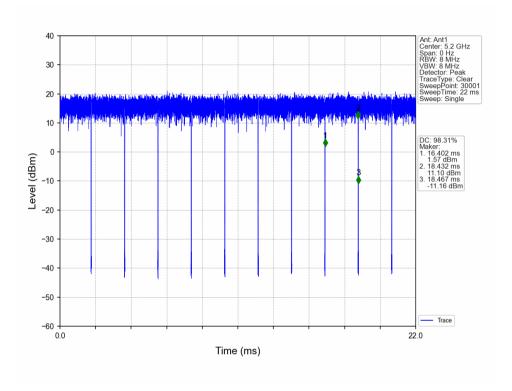


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2) 5GHz Wi-Fi 802.11a:

WI-FI 802.11a: Duty cycle= 98.31%



7.2.2.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test



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positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.2.2.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

7.2.2.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test



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configuration.

- b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"

7.2.2.5 2.4 GHz Wi-Fi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

• 802.11b DSSS SAR Test Requirements

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

- When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
 - 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

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

7.2.2.6 5 GHz Wi-Fi SAR Procedures

U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A



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band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is \leq 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.

- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

• U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.



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3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.

- 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

• SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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7.2.3 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

A) Spectrum Plots for RB Configurations

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

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 V13.5.0 (201609) Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Cha	nnel bandw	idth / Tra	ansmission	bandwidth ((N _{RB})	MPR (dB)					
	1.4											
	MHz	IHZ MHZ MHZ MHZ MHZ MHZ										
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1					
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1					
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2					

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.



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4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

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



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7.2.4 NR Band Test Configuration

1. NR Band n41/n77 only support SA mode.

2. The general information supported by the NR band is as following table:

	Band					n66	n77
	D	SA	Yes	Yes	Yes	Yes	Yes
IN IN	R mode	NSA	N/A	N/A	Yes	Yes	Yes
		PI/2 BPSK	Yes	Yes	Yes	Yes	Yes
			Yes	Yes	Yes	Yes	Yes
	DFT-s-OFDM	16QAM	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes
Modulation		256QAM	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	16QAM	Yes	Yes	Yes	Yes	Yes
	CF-OFDIVI	64QAM	Yes	Yes	Yes	Yes	Yes
		256QAM Yes Yes Yes Y			Yes	Yes	
	Duty Cycle		100%	100%	100%	100%	100%

- 3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not $\frac{1}{2}$ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
 - c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
 - g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device



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4. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1.

Modul	ation		MPR (dB)	
IVIOdul	ation	Edge RB allocations	Outer RB allocations	Inner RB allocations
	PI/2 BPSK	≤ 3.5 ¹	≤ 1.2 ¹	≤ 0.2 ¹
	FI/Z BFSK	≤ 0.5 ²	≤ 0.5 ²	0 ²
DFT-s-OFDM	QPSK	≤	≤ 0.5 ² ≤ 0.5 ² ≤ 1 ≤ 2	0
	16 QAM	≤	≤ 1	
	64 QAM		≤ 2.5	
	256 QAM	≤ 2		
	QPSK	≤	3	≤ 1.5
CP-OFDM	16 QAM	≤	3	≤ 2
CP-OFDIVI	64 QAM		≤ 3.5	
	256 QAM		≤ 6.5	

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n41, n77. The reference power of 0 dB MPR is 26dBm

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n41, n77 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n41, n77.



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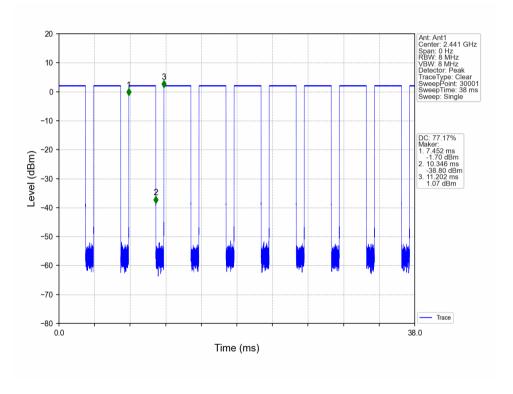
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7.2.5 BluetoothTest Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.

7.2.5.1 Duty cycle

Bluetooth duty cycle: 77.17%





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8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power Of GSM

					GSM 8	50				
Bu	rst Output Powe	er(dBm)			Tuna un	Division Fastors	Frame-Aver	Tungum		
Channe	əl	128	190	251	Tune up	Division Factors	128	190	251	rune up
GSM(GMSK)	GSM	33.54	33.50	32.60	34.00	-9.03	24.51	24.47	23.57	24.97
	1 TX Slot	33.37	33.36	32.45	34.00	-9.03	24.34	24.33	23.42	24.97
GPRS/EGPRS	2 TX Slots	31.61	31.57	30.71	32.00	-6.02	25.59	25.55	24.69	25.98
(GMSK)	3 TX Slots	29.82	29.86	28.97	30.00	-4.26	25.56	25.6	24.71	25.74
	SM(GMSK) GSM 33.54 33.50 32.60 34.00 -9.03 24.51 24.47 23.57 24.97 RS/EGPRS (GMSK) 1 TX Slot 33.37 33.36 32.45 34.00 -9.03 24.34 24.33 23.42 24.97 2 TX Slots 31.61 31.57 30.71 32.00 -6.02 25.59 25.55 24.69 25.98 3 TX Slots 29.82 29.86 28.97 30.00 -4.26 25.56 25.6 24.71 25.74 4 TX Slots 28.24 28.34 27.41 29.00 -3.01 25.23 25.33 24.4 25.99 PRS(8PSK) 1 TX Slot 26.71 26.65 25.87 27.00 -9.03 17.68 17.62 16.84 17.97 2 TX Slots 24.95 24.95 24.17 25.00 -6.02 18.93 18.93 18.15 18.98 3 TX Slots 23.22 23.20 22.39 24.00 -4.26 18.96 18.94 18.13 19.74 4 TX Slots 21.72 21.66 20.81 22.00 -3.01 18.71 18.65 17.8 18.99 SM(GMSK) Burst Output Power (dBm) Channel 512 661 810 SM(GMSK) GSM 28.76 29.42 29.53 30.00 -9.03 19.73 20.39 20.5 20.97 RS/EGPRS (GMSK) 1 TX Slot 28.55 29.21 29.38 30.00 -9.03 19.52 20.18 20.35 20.97 RS/EGPRS (GMSK) 2 TX Slots 24.90 25.54 25.73 26.00 -4.26 20.64 21.28 21.47 21.74 4 TX Slots 23.32 23.81 23.98 24.00 -4.26 20.64 21.28 21.47 21.74 4 TX Slots 23.32 23.81 23.98 24.00 -3.01 20.31 20.8 20.97 20.99 PRS(8PSK) 2 TX Slots 24.93 25.63 25.73 26.00 -9.03 15.9 16.6 16.7 16.97 2 TX Slots 22.78 23.22 23.71 24.00 -6.02 16.76 17.2 17.69 17.98 2 TX Slots 20.92 21.34 21.52 22.00 -4.26 16.66 17.08 17.26 17.74	25.99								
	1 TX Slot	26.71	26.65	25.87	27.00	-9.03	17.68	17.62	16.84	17.97
ECDDC(ODCK)	2 TX Slots	24.95	24.95	24.17	25.00	-6.02	18.93	18.93	18.15	18.98
EGPRS(8PSK)	3 TX Slots	23.22	23.20	22.39	24.00	-4.26	18.96	18.94	18.13	19.74
	4 TX Slots	21.72	21.66	20.81	22.00	-3.01 18.71 18.65 17.8		18.99		
					GSM 19	000				
Bu	rst Output Powe	er(dBm)			Tunaum	Division Fasters	Frame-Aver	Tunaun		
Channe	el	512	661	810	Tune up	Division Factors	512	661	810	Tune up
GSM(GMSK)	GSM	28.76	29.42	29.53	30.00	-9.03	19.73	20.39	20.5	20.97
	1 TX Slot	28.55	29.21	29.38	30.00	-9.03	19.52	20.18	20.35	20.97
GPRS/EGPRS	2 TX Slots	26.77	27.41	27.55	28.00	-6.02	20.75	21.39	21.53	21.98
(GMSK)	3 TX Slots	24.90	25.54	25.73	26.00	-4.26	20.64	21.28	21.47	21.74
	4 TX Slots	23.32	23.81	23.98	24.00	-3.01	20.31	20.8	20.97	20.99
	1 TX Slot	24.93	25.63	25.73	26.00	-9.03	15.9	16.6	16.7	16.97
ECDDS/0DSIA	2 TX Slots	22.78	23.22	23.71	24.00	-6.02	16.76	17.2	17.69	17.98
EGPK3(0P3K)	3 TX Slots	20.92	21.34	21.52	22.00	-4.26	16.66	17.08	17.26	17.74
	4 TX Slots	18.92	19.55	19.65	20.00	-3.01	15.91	16.54	16.64	16.99

Sensor on

GSM 850											
Bu	rst Output Powe	er(dBm)			Tune up	Division Factors	Frame-Ave	rage Output F	Power(dBm)	Tungun	
Channe	el	128	190	251	Turie up	Division Factors	128	190	251	Tune up	
GSM(GMSK)	GSM	31.64	31.60	30.61	32.00	-9.03	22.61	22.57	21.58	22.97	
	1 TX Slot	31.47	31.25	30.37	32.00	-9.03	22.44	22.22	21.34	22.97	
GPRS/EGPRS	2 TX Slots	29.73	29.62	28.80	30.00	-6.02	23.71	23.6	22.78	23.98	
(GMSK)	3 TX Slots	27.83	27.81	27.05	28.00	-4.26	23.57	23.55	22.79	23.74	
	4 TX Slots	26.14	26.48	25.52	27.00	-3.01	23.13	23.47	22.51	23.99	
	1 TX Slot	24.84	24.79	23.88	25.00	-9.03	15.81	15.76	14.85	15.97	
ECDDS(ODSK)	2 TX Slots	22.98	23.06	22.28	23.50	-6.02	16.96	17.04	16.26	17.48	
EGPRS(8PSK)	3 TX Slots	21.25	21.23	20.40	22.00	-4.26	16.99	16.97	16.14	17.74	
	4 TX Slots	19.83	19.66	18.78	20.00	-3.01	16.82	16.65	15.77	16.99	



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8.1.2 Conducted Power Of WCDMA

	WCDMA Band II									
Average Conducted Power(dBm)										
Channel		9262	9400	9538	Tune up					
WCDMA	12.2kbps RMC	21.58	21.16	21.05	22.00					
VVCDIVIA	12.2kbps AMR	21.53	21.07	21.01	22.00					
	Subtest 1	20.42	20.40	20.27	21.00					
HSDPA	Subtest 2	20.40	20.40	20.27	21.00					
ПЭДРА	Subtest 3	20.34	20.36	20.23	21.00					
	Subtest 4	20.34	20.36	20.23	21.00					
	Subtest 1	18.16	18.43	18.03	19.00					
	Subtest 2	17.91	18.08	17.95	19.00					
HSUPA	Subtest 3	18.61	18.47	18.15	19.00					
	Subtest 4	18.15	18.17	18.56	19.00					
	Subtest 5	18.66	18.53	18.34	19.00					

	WCDMA Band IV									
Average Conducted Power(dBm)										
Channel		1312 1412 1513 Tun								
WCDMA	12.2kbps RMC	21.02	21.15	21.08	22.00					
VVCDIVIA	12.2kbps AMR	20.98	21.08	21.01	22.00					
	Subtest 1	19.17	19.35	19.26	20.00					
HSDPA	Subtest 2	19.22	19.37	19.27	20.00					
ПОДРА	Subtest 3	19.15	19.31	19.21	20.00					
	Subtest 4	19.16	19.31	19.23	20.00					
	Subtest 1	16.87	17.34	17.32	18.00					
	Subtest 2	17.32	17.38	17.03	18.00					
HSUPA	Subtest 3	16.71	17.52	17.50	18.00					
	Subtest 4	17.30	17.49	17.03	18.00					
	Subtest 5	17.34	16.89	17.40	18.00					

WCDMA Band V									
Average Conducted Power(dBm)									
	Channel	4132	4182	4233	Tune up				
WCDMA	12.2kbps RMC	22.4	22.5	22.39	23.00				
VVCDIVIA	12.2kbps AMR	22.31	22.38	22.3	23.00				
	Subtest 1	20.59	20.69	20.58	21.00				
HSDPA	Subtest 2	20.60	20.66	20.58	21.00				
	Subtest 3	20.53	20.63	20.53	21.00				



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	Subtest 4	20.55	20.64	20.54	21.00
	Subtest 1	18.60	18.70	18.29	19.00
	Subtest 2	18.63	18.83	18.70	19.00
HSUPA	Subtest 3	18.20	18.71	18.34	19.00
	Subtest 4	18.20	18.55	18.04	19.00
	Subtest 5	18.20	18.44	18.04	19.00



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8.1.3 Conducted Power Of LTE

	LTE Band	12			Conduc	ted Power(dBm)	
Dan shoristik	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth				18607	18900	19193	
		1	0	22.35	22.36	22.25	22.50
		1	2	22.43	22.34	22.37	22.50
		1	5	22.25	22.27	22.21	22.50
	QPSK	3	0	21.85	21.84	21.82	22.00
		3	2	21.86	21.89	21.87	22.00
		3	3	21.75	21.75	21.73	22.00
4 4844-		6	0	21.12	21.09	21.06	22.00
1.4MHz		1	0	21.70	21.74	21.67	22.00
		1	2	21.77	21.78	21.77	22.00
		1	5	21.57	21.61	21.53	22.00
	16QAM	3	0	21.03	21.03	21.16	22.00
		3	2	21.06	21.06	21.17	22.00
		3	3	21.09	21.04	21.19	22.00
		6	0	20.47	20.50	20.39	21.00
5	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth				18615	18900	19185	
		1	0	22.00	22.21	22.19	22.50
		1	7	21.89	22.09	22.06	22.50
		1	14	21.88	22.04	22.07	22.50
	QPSK	8	0	21.09	21.28	21.27	22.00
		8	4	21.12	21.27	21.25	22.00
		8	7	21.02	21.20	21.20	22.00
		15	0	20.55	20.84	20.73	22.00
3MHz		1	0	21.26	21.54	21.56	22.00
		1	7	21.49	21.34	21.37	22.00
		1	14	21.21	21.40	21.37	22.00
	16QAM	8	0	20.18	20.47	20.32	22.00
		8	4	20.10	20.48	20.28	22.00
		8	7	20.16	20.39	20.22	22.00
		15	0	20.08	20.32	20.33	21.00
Daniel del	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth				18625	18900	19175	·
		1	0	22.22	22.30	22.12	22.50
		1	13	22.24	22.29	22.18	22.50
		1	24	22.17	22.21	22.13	22.50
	QPSK	12	0	21.33	21.33	21.31	22.00
		12	6	21.25	21.34	21.24	22.00
		12	13	21.24	21.24	21.19	22.00
5MHz		25	0	21.03	21.03	21.06	22.00
		1	0	21.58	21.51	21.54	22.00
		1	13	21.61	21.55	21.55	22.00
	160 114	1	24	21.54	21.45	21.46	22.00
	16QAM	12	0	20.34	20.93	20.66	22.00
		12	6	20.28	20.74	20.63	22.00
		12	13	20.19	20.79	20.66	22.00



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		25	0	20.05	20.35	20.31	21.00
	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth				18650	18900	19150	, , , , , , , , , , , , , , , , , , ,
		1	0	22.39	22.39	21.75	22.50
		1	25	22.42	22.33	21.80	22.50
		1	49	22.36	22.28	21.73	22.50
	QPSK	25	0	21.46	21.42	20.93	22.00
		25	13	21.49	21.37	20.95	22.00
		25	25	21.43	21.57	20.84	22.00
10MHz		50	0	21.06	21.12	20.38	22.00
		1	0	21.33	21.43	21.24	22.00
		1	25	21.34	21.38	21.28	22.00
	16QAM	1 25	49 0	21.29 20.49	21.38 20.78	21.19 20.50	22.00 22.00
	TOQAW	25	13	20.49	20.78	20.60	22.00
		25	25	20.43	20.57	20.35	22.00
		50	0	20.27	20.37	20.10	21.00
Don devidely	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth				18675	18900	19125	
		1	0	22.42	22.42	22.34	22.50
		1	38	22.47	22.40	22.32	22.50
		1	74	22.44	22.43	22.29	22.50
	QPSK	36	0	21.80	21.84	21.62	22.00
		36	18	21.80	21.89	21.64	22.00
		36	39	21.79	21.78	21.61	22.00
15MHz		75	0	21.09	21.15	21.11	22.00
13141112		1	0	21.64	21.74	21.68	22.00
		1	38	21.60	21.70	21.65	22.00
	16QAM	1	74	21.59	21.69	21.64	22.00
		36	0	20.83	21.27	20.82	22.00
		36	18	20.81	21.28	20.89	22.00
		36	39	20.87	21.25	20.88	22.00
		75	0	20.40	20.89	20.36	21.00
Don duvidéh	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth				18700	18900	19100	
		1	0	22.31	22.25	22.27	22.50
		1	50	22.29	22.31	22.19	22.50
		1	99	22.26	22.22	22.30	22.50
	QPSK	50	0	21.70	21.64	21.65	22.00
20MHz		50	25	21.64	21.68	21.70	22.00
ZUIVITZ		50	50	21.80	21.59	21.69	22.00
		100	0	21.58	21.65	21.68	22.00
		1	0	21.75	21.54	21.66	22.00
	16QAM	1	50	21.79	21.61	21.65	22.00
		1	99	21.68	21.53	21.60	22.00



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		50	0	21.03	20.75	20.91	22.00
	50	25	21.13	20.71	20.87	22.00	
	50	50	21.03	20.84	20.82	22.00	
		100	0	20.79	20.69	20.79	21.00

	LTE Band	i 4			Condu	cted Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393	Tune up
		1	0	21.94	22.11	21.97	22.50
		1	2	21.98	22.21	22.10	22.50
		1	5	21.88	22.14	21.87	22.50
	QPSK	3	0	21.53	21.76	21.62	22.00
		3	2	21.53	21.79	21.57	22.00
		3	3	21.62	21.80	21.57	22.00
4 45411		6	0	21.45	21.77	21.50	22.00
1.4MHz		1	0	21.39	21.71	21.57	22.00
		1	2	21.33	21.77	21.60	22.00
		1	5	21.30	21.70	21.52	22.00
	16QAM	3	0	20.55	20.97	20.83	21.00
		3	2	20.61	20.98	20.93	21.00
		3	3	20.49	20.92	20.93	21.00
		6	0	20.56	20.97	20.91	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwidin	Wodulation	KD Size	KD Ollset	19965	20175	20385	Turie up
		1	0	22.01	22.12	21.93	22.50
		1	7	22.06	22.29	21.95	22.50
		1	14	21.95	22.02	21.96	22.50
	QPSK	8	0	21.71	21.78	21.55	22.00
		8	4	21.67	21.80	21.55	22.00
		8	7	21.70	21.85	21.52	22.00
3MHz		15	0	21.63	21.72	21.52	22.00
•		1	0	21.58	21.64	21.56	22.00
		1	7	21.60	21.61	21.62	22.00
		1	14	21.54	21.55	21.54	22.00
	16QAM	8	0	20.84	20.80	20.81	21.00
		8	4	20.89	20.89	20.71	21.00
		8	7	20.90	20.77	20.80	21.00
		15	0	20.87	20.86	20.68	21.00
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375	Tune up
		1	0	22.09			22.50
		1	13	22.09	22.24 22.30	22.03 22.13	22.50 22.50
		1	24	22.09	22.30 22.31	22.13	22.50
	QPSK	12	0	21.31	21.62	21.23	22.00
	QI SIN	12	6	21.39	21.62	21.25	22.00
5MHz		12	13	21.39	21.65	21.13	22.00
		25	0	21.37	21.63	21.25	22.00
ŀ		1	0	21.45	21.61	21.18	22.00
	16QAM	1	13	21.48	21.59	21.28	22.00
	IOSAINI	1	24	21.48	21.70	21.12	22.00



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		12	l 0	20.71	20.95	20.45	21.00
		12	6	20.71	20.95	20.52	21.00
		12	13	20.62	20.93	20.36	21.00
		25	0	20.65	20.97	20.45	21.00
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
		1	0	21.97	22.08	21.93	22.50
		1	25	21.99	22.27	22.00	22.50
		1	49	21.97	22.00	21.95	22.50
	QPSK	25	0	21.64	21.64	21.47	22.00
		25	13	21.61	21.66	21.54	22.00
		25	25	21.69	21.71	21.60	22.00
		50	0	21.58	21.64	21.58	22.00
10MHz		1	0	21.64	21.58	21.56	22.00
		1	25	21.64	21.60	21.62	22.00
		1	49	21.55	21.63	21.47	22.00
	16QAM	25	0	20.74	20.71	20.76	21.00
		25	13	20.73	20.62	20.83	21.00
		25	25	20.72	20.80	20.82	21.00
		50	0	20.69	20.62	20.76	21.00
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20025	20175	20325	Tune up
		1	0	22.00	22.16	21.96	22.50
		1	38	22.04	22.33	22.02	22.50
		1	74	22.00	22.22	21.88	22.50
	QPSK	36	0	21.20	21.40	21.35	22.00
		36	18	21.27	21.41	21.38	22.00
		36	39	21.26	21.37	21.42	22.00
		75	0	21.20	21.31	21.48	22.00
15MHz		1	0	21.27	21.33	21.54	22.00
		1	38	21.34	21.39	21.47	22.00
		1	74	21.35	21.40	21.61	22.00
	16QAM	36	0	20.59	20.54	20.92	21.00
		36	18	20.52	20.59	20.95	21.00
		36	39	20.54	20.54	20.89	21.00
		75	0	20.48	20.55	20.91	21.00
Donah!!!	Modulatian	DD sins	DD c#==+	Channel	Channel	Channel	Turk a see
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	22.02	22.23	22.02	22.50
		1	50	22.16	22.23	22.21	22.50
		1	99	21.97	22.28	21.96	22.50
	QPSK	50	0	21.37	21.59	21.33	22.00
		50	25	21.38	21.67	21.25	22.00
		50	50	21.37	21.65	21.18	22.00
201411-		100	0	21.33	21.59	21.20	22.00
20MHz		1	0	21.31	21.69	21.24	22.00
		1	50	21.36	21.67	21.20	22.00
		1	99	21.31	21.62	21.23	22.00
	16QAM	50	0	20.64	20.98	20.62	21.00
		50	25	20.67	20.97	20.69	21.00
		50	50	20.55	20.96	20.60	21.00
		100	0	20.59	20.98	20.67	21.00
					•		•



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	LTE Band	i 5			Conduc	ted Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bullawiath	Modulation	TO SIZE	NB offoct	20407	20525	20643	
		1	0	23.03	23.21	23.13	23.50
		1	2	23.11	23.31	23.10	23.50
		1	5	23.07	23.24	23.05	23.50
	QPSK	3	0	23.10	23.13	23.16	23.50
		3	2	23.13	23.24	23.19	23.50
		3	3	23.06	23.20	23.13	23.50
1.4MHz		6	0	22.15	22.21	22.22	22.50
1.4111112		1	0	22.30	22.31	22.26	22.50
		1	2	22.41	22.39	22.27	22.50
		1	5	22.38	22.35	22.22	22.50
	16QAM	3	0	22.17	22.35	22.35	22.50
		3	2	22.21	22.40	22.44	22.50
		3	3	22.18	22.37	22.34	22.50
		6	0	21.22	21.13	21.18	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tunaum
bandwidth	Modulation	RD SIZE	KB oliset	20415	20525	20635	Tune up
		1	0	23.23	23.37	23.26	23.50
		1	7	23.14	23.27	23.16	23.50
		1	14	23.22	23.35	23.27	23.50
	QPSK	8	0	22.25	22.32	22.35	23.50
		8	4	22.29	22.40	22.38	23.50
		8	7	22.25	22.37	22.31	23.50
		15	0	22.27	22.25	21.09	22.50
3MHz		1	0	22.42	22.37	22.08	22.50
	16QAM	1	7	22.27	22.31	22.09	22.50
		1	14	22.34	22.34	22.15	22.50
		8	0	21.27	21.34	21.94	22.50
		8	4	21.33	21.42	21.21	22.50
		8	7	21.28	21.42	21.93	22.50
		15	0	21.22	21.37	20.84	21.50
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	22.69	22.75	22.80	23.50
		1	13	22.68	22.77	22.88	23.50
		1	24	22.58	22.80	22.86	23.50
	QPSK	12	0	21.97	21.93	22.04	23.50
		12	6	21.81	21.75	21.98	23.50
		12	13	21.84	21.71	21.74	23.50
		25	0	21.97	21.98	21.03	22.50
5MHz		1	0	21.96	22.31	22.20	22.50
		1	13	21.95	22.35	22.27	22.50
		1	24	21.87	22.30	22.21	22.50
	16QAM	12	0	21.14	21.47	21.19	22.50
		12	6	21.11	21.22	21.39	22.50
		12	13	21.11	21.53	21.47	22.50
		25	0	21.17	21.35	21.19	21.50
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20450	20525	20600	Tune up
		RD SIZE RD UI		_0.00		_0000	



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		1	0	22.66	22.61	22.88	23.50
		1	25	22.60	22.72	22.77	23.50
		1	49	22.63	22.75	22.70	23.50
	QPSK	25	0	21.85	21.89	22.05	23.50
		25	13	21.67	21.71	22.06	23.50
		25	25	21.62	21.73	22.07	23.50
10MHz		50	0	21.04	21.07	21.93	22.50
IUNITZ		1	0	22.41	22.03	22.22	22.50
		1	25	22.38	22.23	22.17	22.50
		1	49	22.34	22.17	22.12	22.50
	16QAM	25	0	21.16	21.46	21.32	22.50
		25	13	21.51	21.24	21.36	22.50
		25	25	21.43	21.54	21.37	22.50
		50	0	21.14	20.44	21.32	21.50

	LTE Band 7				Conduc	eted Power(dBm)	
Danish dalah	Madalada	DD -:	DD -(()	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20775	21100	21425	Tune up
		1	0	21.98	21.80	21.74	22.00
		1	13	21.89	21.86	21.65	22.00
		1	24	21.89	21.89	21.64	22.00
	QPSK	12	0	21.29	21.07	21.10	21.50
		12	6	21.34	21.04	21.02	21.50
		12	13	21.10	21.02	21.01	21.50
5MHz		25	0	21.09	21.00	20.98	21.50
SIVIT2		1	0	20.87	20.98	20.99	21.50
		1	13	20.96	20.98	20.98	21.50
		1	24	20.87	20.97	21.00	21.50
	16QAM	12	0	20.14	20.35	20.31	20.50
		12	6	20.13	20.39	20.26	20.50
		12	13	20.13	20.36	20.38	20.50
		25	0	20.10	20.38	20.18	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwidii	Modulation	ND SIZE	KD Ollset	20800	21100	21400	Turie up
		1	0	21.90	21.78	21.77	22.00
		1	25	21.99	21.79	21.87	22.00
		1	49	21.90	21.88	21.78	22.00
	QPSK	25	0	21.14	21.02	21.11	21.50
10MHz		25	13	21.18	21.01	21.01	21.50
		25	25	21.23	20.95	21.18	21.50
		50	0	20.97	20.95	20.96	21.50
	16QAM	1	0	20.82	20.85	21.01	21.50
	TOQAW	1	25	20.72	20.82	21.04	21.50



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		1	49	20.87	20.90	21.05	21.50
		25	0	20.16	20.06	20.34	20.50
		25	13	20.06	20.05	20.31	20.50
		25	25	20.15	20.00	20.41	20.50
		50	0	20.05	20.04	20.22	20.50
			55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20825	21100	21375	Tune up
		1	0	21.95	21.72	21.70	22.00
		1	38	21.97	21.74	21.72	22.00
		1	74	21.85	21.67	21.76	22.00
	QPSK	36	0	21.26	20.95	21.05	21.50
		36	18	21.18	20.91	20.99	21.50
		36	39	21.02	20.85	21.00	21.50
		75	0	20.93	20.87	20.92	21.50
15MHz		1	0	20.81	20.89	20.94	21.50
		1	38	20.84	20.96	20.93	21.50
		1	74	20.76	20.82	21.02	21.50
	16QAM	36	0	20.05	20.18	20.27	20.50
		36	18	20.07	20.12	20.24	20.50
		36	39	19.96	20.27	20.22	20.50
		75	0	20.01	20.09	20.21	20.50
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20850	21100	21350	Tune up
		1	0	21.99	21.79	21.75	22.00
		1	50	21.95	21.75	21.84	22.00
		1	99	21.93	21.70	21.69	22.00
	QPSK	50	0	21.39	20.99	21.02	21.50
		50	25	21.38	21.04	21.02	21.50
		50	50	21.11	21.05	21.11	21.50
		100	0	21.10	21.03	20.95	21.50
20MHz		1	0	20.91	20.94	20.98	21.50
		1	50	21.00	20.89	20.95	21.50
		1	99	20.90	21.03	20.89	21.50
	16QAM	50	0	20.17	20.30	20.35	20.50
		50	25	20.07	20.33	20.30	20.50
		50	50	20.11	20.32	20.34	20.50



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	LTE FDD Ban	nd 12			Conduc	ted Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up
		1	0	22.80	22.65	22.66	23.50
		1	2	22.95	22.71	22.73	23.50
		1	5	22.41	22.59	22.52	23.50
	QPSK	3	0	22.34	21.73	21.72	22.50
		3	2	22.31	21.83	21.69	22.50
		3	3	22.24	21.73	21.67	22.50
1.4MHz		6	0	21.61	21.59	21.87	22.50
1.4IVITZ		1	0	22.35	22.02	22.17	22.50
		1	2	22.23	22.11	22.13	22.50
		1	5	22.14	21.94	22.16	22.50
	16QAM	3	0	21.34	21.24	21.48	21.50
		3	2	21.23	21.46	21.41	21.50
		3	3	21.31	21.30	21.04	21.50
		6	0	21.07	21.13	21.39	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Wodulation	KD SIZE	KB onset	23025	23095	23165	Tune up
		1	0	22.75	22.63	22.65	23.50
		1	7	22.73	22.60	22.58	23.50
	QPSK	1	14	22.73	22.58	22.58	23.50
		8	0	21.85	21.75	21.70	22.50
		8	4	21.88	21.77	21.63	22.50
		8	7	21.80	21.76	21.67	22.50
3MHz		15	0	21.74	21.78	21.63	22.50
SIVITIZ	_	1	0	22.27	22.22	22.21	22.50
		1	7	22.17	22.24	22.06	22.50
	16QAM	1	14	22.16	22.27	22.45	22.50
		8	0	21.41	21.39	21.41	21.50
		8	4	21.41	21.33	21.42	21.50
		8	7	21.31	21.40	21.44	21.50
		15	0	21.31	21.30	21.37	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	oud.di.o			23035	23095	23155	
		1	0	22.80	22.60	22.88	23.50
		1	13	23.02	22.78	22.71	23.50
		1	24	22.89	22.36	22.54	23.50
	QPSK	12	0	21.91	21.84	21.84	22.50
		12	6	21.84	21.59	21.86	22.50
		12	13	22.06	21.92	21.41	22.50
5MHz		25	0	21.49	21.88	21.51	22.50
		1	0	22.06	22.23	22.18	22.50
		1	13	22.38	22.42	22.11	22.50
	400444	1	24	22.26	22.14	22.25	22.50
	16QAM	12	0	21.39	21.18	21.25	21.50
		12	6	21.45	21.35	21.20	21.50
		12	13	21.48	21.38	21.29	21.50
D 1- 1-11	Maril C	25	0	21.41	21.05	21.45	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				23060	23095	23130	
		1	0	22.86	22.41	22.36	23.50
		1	25	22.56	22.88	22.77	23.50
		1	49	22.74	22.72	22.84	23.50
	QPSK	25	0	21.61	21.83	21.70	22.50
		25	13	21.99	21.68	21.54	22.50
		25	25	21.68	21.77	21.41	22.50
10MHz		50	0	21.78	21.83	21.44	22.50
IUWINZ		1	0	22.12	22.08	22.14	22.50
		1	25	21.90	22.36	22.18	22.50
		1	49	22.14	21.97	22.38	22.50
	16QAM	25	0	21.43	21.40	21.38	21.50
		25	13	21.40	21.29	21.41	21.50
		25	25	21.46	21.32	21.12	21.50
		50	0	21.39	21.32	21.35	21.50

	LTE FDD Bar	nd 13		Conducted Power(dBm)				
Barrier de	Maddata	DD -:	DD - (()	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	23205	23230	23255	Tune up	
		1	0	21.78	21.85	22.24	22.50	
		1	13	21.79	21.94	22.26	22.50	
		1	24	21.71	21.82	22.18	22.50	
	QPSK	12	0	21.03	21.19	21.44	22.00	
		12	6	21.00	21.21	21.39	22.00	
		12	13	21.07	21.27	21.40	22.00	
5MHz		25	0	20.96	21.16	21.36	22.00	
SIVITZ		1	0	21.00	21.26	21.37	22.00	
		1	13	20.99	21.29	21.44	22.00	
	16QAM	1	24	21.05	21.29	21.43	22.00	
		12	0	20.30	20.62	20.61	21.00	
		12	6	20.33	20.59	20.56	21.00	
		12	13	20.21	20.63	20.55	21.00	
		25	0	20.30	20.57	20.50	21.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danawiath	Modulation	ND SIZE		NA	23230	NA	'	
		1	0	NA	22.15	NA	22.50	
		1	25	NA	22.11	NA	22.50	
		1	49	NA	22.14	NA	22.50	
	QPSK	25	0	NA	21.66	NA	22.00	
		25	13	NA	21.67	NA	22.00	
		25	25	NA	21.6	NA	22.00	
10MHz		50	0	NA	21.62	NA	22.00	
IUIVITIZ		1	0	NA	21.54	NA	22.00	
		1	25	NA	21.59	NA	22.00	
		1	49	NA	21.45	NA	22.00	
	16QAM	25	0	NA	20.88	NA	21.00	
		25	13	NA	20.85	NA	21.00	
		25	25	NA	20.78	NA	21.00	
		50	0	NA	20.79	NA	21.00	



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	LTE FDD Ba	nd 17		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825	Tune up	
		1	0	22.32	22.74	22.61	23.00	
		1	13	22.34	22.65	22.62	23.00	
		1	24	22.24	22.67	22.62	23.00	
	QPSK	12	0	21.56	22.09	21.93	22.50	
		12	6	21.57	21.99	21.92	22.50	
		12	13	21.66	22.12	21.87	22.50	
5MHz		25	0	21.53	21.90	21.82	22.50	
SIVIEZ		1	0	21.63	22.08	21.83	22.50	
		1	13	21.55	22.00	21.85	22.50	
	16QAM	1	24	21.71	21.99	21.85	22.50	
		12	0	20.92	21.33	21.13	22.00	
		12	6	20.88	21.38	21.22	22.00	
		12	13	20.99	21.30	21.04	22.00	
		25	0	20.86	21.37	21.17	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danawidin		IND SIZE	IVD Ollset	23780	23790	23800	Turie up	
		1	0	22.32	22.83	22.62	23.00	
		1	25	22.44	22.98	22.64	23.00	
		1	49	22.28	22.81	22.60	23.00	
	QPSK	25	0	21.58	22.06	22.02	22.50	
		25	13	21.58	22.11	22.03	22.50	
		25	25	21.68	22.12	21.94	22.50	
10MHz		50	0	21.53	22.08	21.94	22.50	
IUWITIZ		1	0	21.52	22.09	21.89	22.50	
		1	25	21.51	22.03	21.87	22.50	
		1	49	21.53	22.01	21.87	22.50	
	16QAM	25	0	20.89	21.36	21.20	22.00	
		25	13	20.86	21.31	21.29	22.00	
		25	25	20.93	21.31	21.30	22.00	
		50	0	20.82	21.22	21.24	22.00	

	LTE FDD Band 26					Conducted Power(dBm)				
Bandwidth	Modulation	RB size RB offset	DP offeet	Channel	Channel Channel		Tungun			
bandwidth			26697	26865	27033	Tune up				
		1	0	23.12	22.66	23.01	23.50			
	QPSK	1	2	23.16	22.78	23.06	23.50			
		1	5	23.02	22.75	23.06	23.50			
		3	0	22.55	22.05	22.07	23.00			
1.4MHz		3	2	22.59	22.12	22.16	23.00			
		3	3	22.57	22.16	22.06	23.00			
		6	0	22.14	22.15	22.13	23.00			
	160 AM	1	0	22.37	22.23	22.16	23.00			
	16QAM	1	2	22.21	22.27	22.24	23.00			



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	İ	1	5	22.25	22.27	22.32	23.00
		3	0	21.17	21.52	21.17	22.00
		3	2	21.39	21.48	21.36	22.00
		3	3	21.22	21.52	21.18	22.00
		6	0	21.02	21.44	21.22	22.00
5 1.141			55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	26705	26865	27025	Tune up
		1	0	23.17	22.70	22.47	23.50
		1	7	23.10	22.79	22.44	23.50
		1	14	23.16	22.60	21.91	23.50
	QPSK	8	0	22.25	22.05	21.20	23.00
		8	4	22.26	22.03	21.37	23.00
		8	7	22.22	21.96	21.27	23.00
0841-		15	0	22.23	21.94	21.25	23.00
3MHz		1	0	22.28	21.98	22.14	23.00
		1	7	22.32	22.07	22.39	23.00
	16QAM	1	14	22.76	21.88	22.60	23.00
		8	0	21.28	21.22	21.23	22.00
		8	4	21.31	21.28	21.53	22.00
		8	7	21.40	21.26	21.39	22.00
		15	0	21.30	21.24	20.86	22.00
Donahadak	Madulation	DD size	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	26715	26865	27015	Tune up
		1	0	22.73	22.66	21.88	23.50
		1	13	22.79	22.55	22.10	23.50
		1	24	22.64	22.49	21.64	23.50
	QPSK	12	0	21.97	21.88	21.32	23.00
		12	6	21.84	21.87	21.14	23.00
		12	13	21.93	21.95	21.12	23.00
5MHz		25	0	21.99	21.85	21.31	23.00
SWIFIZ		1	0	22.09	22.21	22.21	23.00
		1	13	21.77	21.97	22.25	23.00
		1	24	21.73	21.86	22.03	23.00
	16QAM	12	0	21.36	21.27	21.44	22.00
		12	6	21.44	21.01	21.49	22.00
		12		<u> </u>			
		12	13	21.37	21.10	21.36	22.00
			13 0	21.37 21.18	21.10 21.01	21.36 21.37	22.00 22.00
Pandwidth	Modulation	12 25	0				22.00
Bandwidth	Modulation	12		21.18	21.01	21.37	
Bandwidth 10MHz	Modulation QPSK	12 25	0	21.18 Channel	21.01 Channel	21.37 Channel	22.00



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	I	Î.	İ	I	1		I
		1	49	22.67	22.62	22.78	23.50
		25	0	21.91	21.92	22.05	23.00
		25	13	21.83	21.84	22.03	23.00
		25	25	21.60	21.86	22.10	23.00
		50	0	21.02	21.86	21.77	23.00
		1	0	21.61	21.94	22.08	23.00
		1	25	21.96	21.99	21.98	23.00
		1	49	21.87	21.99	21.89	23.00
	16QAM	25	0	21.16	21.32	21.50	22.00
		25	13	21.21	21.41	21.33	22.00
		25	25	21.20	21.33	21.45	22.00
		50	0	21.37	21.32	20.77	22.00
Dandwidth	Modulation	RB size	DD -#+	Channel	Channel	Channel	Tune up
Bandwidth			RB offset	26775	26865	26965	
		1	0	22.50	22.67	22.83	23.50
		1	38	22.48	22.72	22.60	23.50
		1	38 74	22.48 22.52	22.72 22.69	22.60 22.57	23.50 23.50
	QPSK						
	QPSK	1	74	22.52	22.69	22.57	23.50
	QPSK	1 36	74 0	22.52 21.82	22.69 21.91	22.57 21.91	23.50 23.00
45001-	QPSK	1 36 36	74 0 18	22.52 21.82 21.88	22.69 21.91 21.95	22.57 21.91 21.89	23.50 23.00 23.00
15MHz	QPSK	1 36 36 36	74 0 18 39	22.52 21.82 21.88 21.92	22.69 21.91 21.95 22.05	22.57 21.91 21.89 21.16	23.50 23.00 23.00 23.00
15MHz	QPSK	1 36 36 36 75	74 0 18 39 0	22.52 21.82 21.88 21.92 21.84	22.69 21.91 21.95 22.05 21.99	22.57 21.91 21.89 21.16 21.93	23.50 23.00 23.00 23.00 23.00
15MHz	QPSK	1 36 36 36 36 75	74 0 18 39 0	22.52 21.82 21.88 21.92 21.84 22.48	22.69 21.91 21.95 22.05 21.99 22.03	22.57 21.91 21.89 21.16 21.93 22.39	23.50 23.00 23.00 23.00 23.00 23.00
15MHz	QPSK 16QAM	1 36 36 36 36 75 1	74 0 18 39 0 0 38	22.52 21.82 21.88 21.92 21.84 22.48 22.45	22.69 21.91 21.95 22.05 21.99 22.03 22.03	22.57 21.91 21.89 21.16 21.93 22.39 22.23	23.50 23.00 23.00 23.00 23.00 23.00 23.00
15MHz		1 36 36 36 75 1 1	74 0 18 39 0 0 38 74	22.52 21.82 21.88 21.92 21.84 22.48 22.45 22.42	22.69 21.91 21.95 22.05 21.99 22.03 22.03 22.06	22.57 21.91 21.89 21.16 21.93 22.39 22.23 22.36	23.50 23.00 23.00 23.00 23.00 23.00 23.00 23.00
15MHz		1 36 36 36 75 1 1 1 36	74 0 18 39 0 0 38 74	22.52 21.82 21.88 21.92 21.84 22.48 22.45 22.45 22.42 21.27	22.69 21.91 21.95 22.05 21.99 22.03 22.03 22.06 21.28	22.57 21.91 21.89 21.16 21.93 22.39 22.23 22.36 21.29	23.50 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00

	LTE Band 38			Conducted Power(dBm)			T
Bandwidth	Madulation	DD oizo	DD offeet	Channel	Channel	Channel	Tune up
	Modulation	RB size	RB offset	37775	38000	38225	
		1	0	22.34	22.30	22.16	22.50
		1	13	22.48	22.24	22.11	22.50
		1	24	22.41	22.21	22.23	22.50
5MHz	QPSK	12	0	21.35	21.35	21.28	22.00
SIVIEZ		12	6	21.46	21.39	21.27	22.00
		12	13	21.40	21.31	21.29	22.00
		25	0	21.42	21.36	21.26	22.00
	16QAM	1	0	21.32	21.48	21.24	22.00



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		1	13	21.49	21.73	21.56	22.00
		1	24	21.71	21.60	21.47	22.00
		12	0	20.40	20.34	20.22	21.00
		12	6	20.41	20.35	20.28	21.00
		12	13	20.35	20.24	20.30	21.00
		25	0	20.36	20.37	20.37	21.00
Donahurialth	Madulation	DD size	DD offeet	Channel	Channel	Channel	Tuna un
Bandwidth	Modulation	RB size	RB offset	37800	38000	38200	Tune up
		1	0	22.38	22.27	22.13	22.50
		1	25	22.42	22.22	22.24	22.50
		1	49	22.41	22.22	22.29	22.50
	QPSK	25	0	21.48	21.31	21.41	22.00
		25	13	21.45	21.29	21.48	22.00
		25	25	21.42	21.26	21.45	22.00
10MHz		50	0	21.41	21.34	21.46	22.00
TUWHZ		1	0	21.28	21.19	21.56	22.00
		1	25	21.57	21.38	21.12	22.00
		1	49	21.62	21.56	21.67	22.00
	16QAM	25	0	20.54	20.40	20.43	21.00
		25	13	20.46	20.28	20.49	21.00
		25	25	20.40	20.27	20.45	21.00
		50	0	20.47	20.33	20.46	21.00
Danish of Mr.	Maddaga	DD -:	DD - (()	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	37825	38000	38175	Tune up
		1	0	22.41	22.31	22.27	22.50
		1	38	22.42	22.43	22.22	22.50
		1	74	22.48	22.22	22.32	22.50
	QPSK	36	0	21.49	21.42	21.34	22.00
		36	18	21.57	21.47	21.39	22.00
		36	39	21.43	21.34	21.31	22.00
45551		75	0	21.43	21.41	21.34	22.00
15MHz		1	0	21.27	21.55	21.26	22.00
		1	38	21.63	21.39	21.23	22.00
		1	74	21.29	21.45	21.28	22.00
	16QAM	36	0	20.48	20.43	20.35	21.00
		36	18	20.54	20.46	20.40	21.00
		36	39	20.52	20.35	20.28	21.00
		75	0	20.45	20.44	20.36	21.00
_ ,		55.	55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	37850	38000	38150	Tune up
20MHz	QPSK	1	0	21.94	21.95	21.83	22.50
	<u> </u>		•				



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	1	50	21.98	21.85	21.83	22.50
	1	99	21.93	21.87	21.89	22.50
	50	0	21.04	20.95	20.90	22.00
	50	25	21.02	21.00	20.94	22.00
	50	50	21.01	20.89	20.84	22.00
	100	0	20.96	20.97	20.87	22.00
	1	0	21.27	21.07	21.17	22.00
	1	50	21.04	21.17	20.63	22.00
	1	99	21.03	21.02	20.66	22.00
16QAM	50	0	20.03	19.97	19.92	21.00
	50	25	20.06	19.99	19.98	21.00
	50	50	20.01	19.94	19.81	21.00
	100	0	19.95	19.94	19.93	21.00

	LTE Band 40 a	1			Conduc	ted Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Ballawiatii	Modulation	ND SIZE	KD Ollset	38725	38750	38785	Tune up
		1	0	22.05	22.07	21.92	22.5
		1	13	22.05	22.06	22.11	22.5
		1	24	22.05	21.98	21.96	22.5
	QPSK	12	0	21.09	21.03	20.99	21.5
		12	6	21.13	21.06	21.09	21.5
			13	21.12	21.08	21.09	21.5
5MHz		25	0	21.07	21.05	21.03	21.5
SIVIEZ	эмих	1	0	20.96	21.21	21.06	21.5
		1	13	21.20	21.09	21.37	21.5
		1	24	21.35	21.08	21.06	21.5
	16QAM	12	0	20.19	20.07	20.07	20.5
		12	6	20.14	20.06	20.11	20.5
		12	13	20.14	20.08	20.08	20.5
		25	0	20.22	20.12	20.01	20.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tuna un
Danawiath	Modulation	RD SIZE	RD Ollset		38750		Tune up
		1	0	1	22.04	/	22.5
		1	25	1	22.08	/	22.5
		1	49	/	22.01	/	22.5
10MHz	QPSK	25	0	1	21.11	/	21.5
		25	13	1	21.09	/	21.5
		25	25	/	21.10	/	21.5
		50	0	1	21.11	/	21.5



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	1	0	/	20.96	/	21.5
	1	25	/	21.32	/	21.5
	1	49	/	21.21	/	21.5
16QAM	25	0	/	20.09	/	20.5
	25	13	/	20.09	/	20.5
	25	25	/	20.06	/	20.5
	50	0	/	20.07	/	20.5

	LTE Band 40 I	o			Conduc	ted Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel 39175	Channel 39200	Channel 39225	Tune up
		1	0	21.99	22.05	22.05	22.5
		1	13	22.13	22.08	22.14	22.5
		1	24	21.92	22.23	22.15	22.5
	QPSK	12	0	21.10	21.15	21.19	21.5
		12	6	21.11	21.23	21.27	21.5
		12	13	21.11	21.22	21.27	21.5
5MHz		25	0	21.04	21.15	21.24	21.5
SINITZ		1	0	21.33	21.16	21.10	21.5
		1	13	21.47	21.17	21.42	21.5
	16QAM	1	24	21.23	21.24	21.07	21.5
		12	0	20.17	20.10	20.15	20.5
		12	6	20.10	20.14	20.23	20.5
		12	13	20.12	20.20	20.29	20.5
		25	0	20.14	20.13	20.23	20.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung up
Bandwidth	Modulation	RD SIZE	KD Ollset		39200		Tune up
		1	0	/	21.99	/	22.5
		1	25	/	22.07	/	22.5
		1	49	/	22.19	/	22.5
	QPSK	25	0	/	21.14	/	21.5
		25	13	/	21.22	/	21.5
		25	25	/	21.27	/	21.5
10MHz		50	0	/	21.20	/	21.5
		1	0	/	20.91	/	21.5
		1	25	/	21.00	/	21.5
	16QAM	1	49	/	20.96	/	21.5
	IOQAIVI	25	0	/	20.19	/	20.5
		25	13	/	20.22	/	20.5
		25	25	/	20.20	/	20.5



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50 0 / 20.19 / 20.5

LTI	E Band 41 Full	power				Conduc	ted Power(dBr	m)	
Daniel III	Maddatata	RB	RB	Channel	Channel	Channel	Channel	Channel	T
Bandwidth	Modulation	size	offset	39675	40148	40620	41093	41565	Tune up
		1	0	23.15	23.03	22.95	23.04	23.11	23.50
		1	13	23.22	23.23	23.08	23.16	23.17	23.50
		1	24	23.13	23.11	22.86	23.02	23.15	23.50
	QPSK	12	0	22.69	22.54	22.49	22.54	22.74	23.00
		12	6	22.74	22.58	22.47	22.54	22.76	23.00
		12	13	22.7	22.49	22.49	22.45	22.71	23.00
58411-		25	0	22.7	22.51	22.45	22.48	22.72	23.00
5MHz		1	0	22.71	22.44	22.43	22.41	22.83	23.00
		1	13	22.66	22.36	22.5	22.33	22.95	23.00
		1	24	22.95	22.4	22.44	22.34	22.87	23.00
	16QAM	12	0	21.63	21.67	21.6	21.61	21.74	22.00
		12	6	21.73	21.67	21.69	21.51	21.83	22.00
		12	13	21.65	21.76	21.61	21.67	21.74	22.00
		25	0	21.67	21.59	21.66	21.44	21.73	22.00
Dan desidab	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	T
Bandwidth	Wodulation	size	offset	39700	40160	40620	41080	41540	Tune up
		1	0	23.2	22.97	23.05	23.03	23.22	23.50
		1	25	23.2	23.02	23.21	23.2	23.13	23.50
		1	49	23.25	23.03	23.07	23.13	23.17	23.50
	QPSK	25	0	22.75	22.5	22.59	22.56	22.76	23.00
		25	13	22.69	22.51	22.56	22.49	22.77	23.00
		25	25	22.69	22.57	22.52	22.4	22.79	23.00
10MHz		50	0	22.69	22.45	22.49	22.36	22.79	23.00
TOWINZ		1	0	22.63	22.5	22.43	22.26	22.61	23.00
		1	25	22.87	22.58	22.52	22.21	22.51	23.00
		1	49	22.83	22.52	22.44	22.35	22.48	23.00
	16QAM	25	0	21.78	21.62	21.7	21.54	21.76	22.00
		25	13	21.69	21.61	21.71	21.48	21.83	22.00
		25	25	21.66	21.63	21.75	21.46	21.79	22.00
		50	0	21.73	21.55	21.69	21.48	21.73	22.00
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tungun
Danuwidin	Modulation	size	offset	39725	40173	40620	41068	41515	Tune up
		1	0	23	23.05	22.97	22.98	22.97	23.50
15MHz	QPSK	1	38	22.95	23.16	23.02	23.17	23	23.50
		1	74	22.98	23.03	23.06	22.95	22.99	23.50



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		36	0	22.57	22.56	22.61	22.66	22.65	23.00
		36	18	22.62	22.48	22.54	22.72	22.63	23.00
		36	39	22.46	22.6	22.62	22.65	22.63	23.00
		75	0	22.5	22.45	22.5	22.62	22.63	23.00
		1	0	22.69	22.35	22.43	22.64	22.64	23.00
		1	38	22.57	22.37	22.37	22.71	22.47	23.00
		1	74	22.31	22.43	22.4	22.68	22.54	23.00
	16QAM	36	0	21.6	21.55	21.54	21.9	21.7	22.00
		36	18	21.59	21.49	21.51	21.87	21.65	22.00
		36	39	21.51	21.45	21.63	21.92	21.68	22.00
		75	0	21.52	21.43	21.48	21.83	21.67	22.00
Bandwidth	Modulation	RB	RB	Channel	Channel	Channel	Channel	Channel	Tungun
Bandwidth	Wodulation	size	offset	39750	40185	40620	41055	41490	Tune up
		1	0	23	22.97	23.05	23.04	23.22	23.50
				00.04			00.05	00.04	
		1	50	23.01	23.07	23.08	23.05	23.01	23.50
		1	99	23.01	23.07	23.08	23.05	23.01	23.50
	QPSK								
	QPSK	1	99	22.99	23.04	23.1	23.13	22.99	23.50
	QPSK	1 50	99	22.99 22.6	23.04 22.52	23.1 22.74	23.13 22.64	22.99 22.68	23.50 23.00
2011	QPSK	1 50 50	99 0 25	22.99 22.6 22.55	23.04 22.52 22.46	23.1 22.74 22.66	23.13 22.64 22.65	22.99 22.68 22.67	23.50 23.00 23.00
20MHz	QPSK	1 50 50 50	99 0 25 50	22.99 22.6 22.55 22.54	23.04 22.52 22.46 22.61	23.1 22.74 22.66 22.64	23.13 22.64 22.65 22.72	22.99 22.68 22.67 22.69	23.50 23.00 23.00 23.00
20MHz	QPSK	1 50 50 50 100	99 0 25 50 0	22.99 22.6 22.55 22.54 22.55	23.04 22.52 22.46 22.61 22.45	23.1 22.74 22.66 22.64 22.62	23.13 22.64 22.65 22.72 22.73	22.99 22.68 22.67 22.69 22.66	23.50 23.00 23.00 23.00 23.00
20MHz	QPSK	1 50 50 50 100	99 0 25 50 0	22.99 22.6 22.55 22.54 22.55 22.49	23.04 22.52 22.46 22.61 22.45 22.53	23.1 22.74 22.66 22.64 22.62 22.72	23.13 22.64 22.65 22.72 22.73 22.76	22.99 22.68 22.67 22.69 22.66 22.32	23.50 23.00 23.00 23.00 23.00 23.00
20MHz	QPSK	1 50 50 50 100 1	99 0 25 50 0 0 50	22.99 22.6 22.55 22.54 22.55 22.49 22.45	23.04 22.52 22.46 22.61 22.45 22.53 22.55	23.1 22.74 22.66 22.64 22.62 22.72 22.76	23.13 22.64 22.65 22.72 22.73 22.76 22.83	22.99 22.68 22.67 22.69 22.66 22.32 22.46	23.50 23.00 23.00 23.00 23.00 23.00 23.00
20MHz		1 50 50 50 100 1 1	99 0 25 50 0 0 50 99	22.99 22.6 22.55 22.54 22.55 22.49 22.45 22.84	23.04 22.52 22.46 22.61 22.45 22.53 22.55 22.48	23.1 22.74 22.66 22.64 22.62 22.72 22.76 22.64	23.13 22.64 22.65 22.72 22.73 22.76 22.83 22.68	22.99 22.68 22.67 22.69 22.66 22.32 22.46 22.49	23.50 23.00 23.00 23.00 23.00 23.00 23.00 23.00
20MHz		1 50 50 50 100 1 1 1 50	99 0 25 50 0 0 50 99	22.99 22.6 22.55 22.54 22.55 22.49 22.45 22.84 21.59	23.04 22.52 22.46 22.61 22.45 22.53 22.55 22.48 21.78	23.1 22.74 22.66 22.64 22.62 22.72 22.76 22.64 21.89	23.13 22.64 22.65 22.72 22.73 22.76 22.83 22.68 21.91	22.99 22.68 22.67 22.69 22.66 22.32 22.46 22.49 21.75	23.50 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00

	LTE Band 42			Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
Bandwidth	Wodulation	42115 42590 43065 1 0 22.15 21.94 21.90	rune up						
	QPSK	1	0	22.15	21.94	21.90	23.00		
		1	13	22.21	21.98	21.95	23.00		
		1	24	22.17	21.91	21.89	23.00		
		12	0	21.43	21.31	21.14	22.00		
5MHz		12	6	21.42	21.22	21.16	22.00		
		12	13	21.38	21.37	21.19	22.00		
		25	0	21.37	21.16	21.23	22.00		
	16QAM	1	0	21.45	21.26	21.32	22.00		
	TOQAIVI	1	13	21.55	21.34	21.38	22.00		



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	1	1	24	21.51	21.31	21.36	22.00
		12	0	20.81	20.58	20.64	21.00
		12	6	20.73	20.60	20.54	21.00
		12	13	20.83	20.49	20.72	21.00
		25	0	20.69	20.56	20.50	21.00
5 1 1 1 1 1			55 "	Channel	Channel	Channel	-
Bandwidth	Modulation	RB size	RB offset	41640	42590	43540	Tune up
		1	0	22.13	21.87	21.97	23.00
		1	25	22.14	21.95	21.99	23.00
		1	49	22.05	21.95	21.90	23.00
	QPSK	25	0	21.41	21.08	21.30	22.00
		25	13	21.44	21.09	21.33	22.00
		25	25	21.39	21.09	21.26	22.00
408511-		50	0	21.38	21.08	21.27	22.00
10MHz		1	0	21.29	21.14	21.28	22.00
		1	25	21.24	21.21	21.35	22.00
		1	49	21.27	21.21	21.22	22.00
	16QAM	25	0	20.54	20.54	20.60	21.00
		25	13	20.47	20.44	20.59	21.00
		25	25	20.61	20.58	20.67	21.00
		50	0	20.38	20.38	20.59	21.00
Dan derei dah	NA advitation	DD sins	DD effect	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	41665	42590	43015	Tune up
		1	0	22.19	21.92	21.95	23.00
		1	38	22.37	21.94	22.01	23.00
		1	74	22.19	22.01	21.87	23.00
	QPSK	36	0	21.39	21.32	21.35	22.00
		36	18	21.47	21.22	21.44	22.00
		36	39	21.38	21.38	21.52	22.00
15MHz		75	0	21.46	21.13	21.47	22.00
ISWINZ		1	0	21.37	21.16	21.53	22.00
		1	38	21.38	21.24	21.61	22.00
		1	74	21.41	21.21	21.50	22.00
	16QAM	36	0	20.61	20.43	20.76	21.00
		36	18	20.62	20.34	20.68	21.00
		36	39	20.69	20.35	20.75	21.00
		75	0	20.57	20.33	20.59	21.00
Randwidth	Modulation	DR circ	DR offeet	Channel	Channel	Channel	Tupo up
Bandwidth	Modulation	RB size	RB offset	41690	42590	42990	Tune up
20MU~	OBSK	1	0	22.16	21.91	21.97	23.00
20MHz	QPSK	1	50	22.24	21.95	21.97	23.00



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	1	99	22.21	21.84	22.02	23.00
	50	0	21.39	21.22	21.26	22.00
	50	25	21.36	21.30	21.35	22.00
	50	50	21.39	21.22	21.35	22.00
	100	0	21.36	21.24	21.30	22.00
	1	0	21.40	21.27	21.37	22.00
	1	50	21.45	21.24	21.46	22.00
	1	99	21.35	21.21	21.36	22.00
16QAM	50	0	20.62	20.62	20.77	21.00
	50	25	20.57	20.64	20.68	21.00
	50	50	20.59	20.67	20.76	21.00
	100	0	20.48	20.58	20.62	21.00

	LTE Band 48	3				Conducted Por	wer(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Tune up
				55265	55748	56232	56715	
	QPSK	1	0	20.47	19.61	19.93	20.47	21.00
		1	13	20.29	19.83	20.30	20.29	21.00
		1	24	20.58	19.54	19.92	20.58	21.00
		12	0	19.4	18.86	19.14	19.4	20.00
		12	6	19.46	19.01	18.68	19.46	20.00
		12	13	19.63	19.05	18.89	19.63	20.00
5MHz		25	0	19.44	18.92	18.86	19.44	20.00
SWITZ	16QAM	1	0	19.61	19.26	19.54	19.61	20.00
		1	13	19.85	19.01	19.03	19.85	20.00
		1 24 19.75 19.22 19.10	19.75	20.00				
		12	0	18.34	18.04	18.17	18.34	19.00
		12	6	18.76	17.99	18.01	18.76	19.00
		12	13	18.39	18.14	17.68	18.39	19.00
		25	0	18.54	18.15	18.37	18.54	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Tune up
				55290	55990	56690	55290	
	QPSK	1	0	20.91	20.07	20.05	20.91	21.00
		1	25	20.7	20.14	20.30	20.7	21.00
		1	49	20.79	19.98	20.12	20.79	21.00
10MHz		25	0	19.8	19.09	19.03	19.8	20.00
		25	13	19.72	19.06	19.21	19.72	20.00
		25	25	19.7	19.11	19.25	19.7	20.00
		50	0	19.75	19.27	19.47	19.75	20.00



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						Ū		
	16QAM	1	0	20.03	19.17	19.41	20.03	20.50
		1	25	19.59	19.16	19.05	19.59	20.00
		1	49	20.09	18.99	19.17	20.09	20.50
		25	0	18.65	18.14	18.02	18.65	19.00
		25	13	18.84	18.20	18.23	18.84	19.00
		25	25	18.78	18.08	18.43	18.78	19.00
		50	0	18.78	18.15	18.19	18.78	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Tune up
				55315	55990	56665	55315	
	QPSK	1	0	20.59	19.47	19.69	20.59	21.00
		1	38	20.52	19.51	19.77	20.52	21.00
		1	74	20.46	19.50	19.59	20.46	21.00
		36	0	19.73	18.51	18.49	19.73	20.00
		36	18	19.41	18.61	18.61	19.41	20.00
		36	39	19.72	18.65	18.77	19.72	20.00
458411-		75	0	18.55	17.43	17.42	18.55	19.00
15MHz	16QAM	1	0	19.4	18.74	18.67	19.4	20.00
		1	38	19.54	18.41	18.58	19.54	20.00
		1	74	19.53	18.67	18.59	19.53	20.00
		36	0	18.53	17.49	17.75	18.53	19.00
		36	18	18.71	17.58	17.73	18.71	19.00
		36	39	18.56	17.70	17.71	18.56	19.00
		75	0	17.35	16.43	16.41	17.35	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Tune up
				55340	55990	56640	55340	
	QPSK	1	0	20.62	19.48	19.53	20.62	21.00
		1	50	20.61	17.35	17.57	20.61	21.00
		1	99	20.64	19.49	19.69	20.64	21.00
		50	0	17.57	18.57	18.63	17.57	19.00
		50	25	17.39	18.60	18.73	17.39	19.00
		50	50	17.38	18.64	16.64	17.38	19.00
00111-		100	0	17.21	16.22	16.14	17.21	18.00
20MHz	16QAM	1	0	19.86	18.59	16.30	19.86	20.00
		1	50	19.66	18.46	18.68	19.66	20.00
		1	99	19.67	18.51	18.50	19.67	20.00
		50	0	18.78	17.65	17.77	18.78	19.00
		50	25	16.50	17.83	17.76	16.50	18.00
		50	50	16.46	15.61	15.55	16.46	17.00
		100	0	13.91	15.09	13.06	13.91	15.50
	1	1	1	1				



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Sensor on

LT	E Band 41 Full	power				Conduc	ted Power(dBr	n)	
Donahuidth	Madulation	DD size	RB	Channel	Channel	Channel	Channel	Channel	Tunaum
Bandwidth	Modulation	RB size	offset	39675	40148	40620	41093	41565	Tune up
		1	0	14.84	14.85	14.82	14.88	15.12	16.00
		1	13	14.96	14.73	14.97	14.89	14.74	16.00
		1	24	14.84	15	14.87	14.84	14.85	16.00
	QPSK	12	0	14.4	14.31	14.65	14.47	14.46	16.00
		12	6	14.5	14.27	14.54	14.57	14.54	16.00
		12	13	14.41	14.46	14.51	14.54	14.4	16.00
5MHz		25	0	14.46	14.2	14.39	14.49	14.52	16.00
SIVITIZ		1	0	14.43	14.31	14.36	14.66	14.15	16.00
		1	13	14.28	14.43	14.5	14.65	14.29	16.00
		1	24	14.6	14.26	14.4	14.39	14.21	16.00
	16QAM	12	0	13.49	13.57	13.73	13.65	13.61	15.00
		12	6	13.2	13.61	13.55	13.86	13.38	15.00
		12	13	13.21	13.6	13.76	13.7	13.38	15.00
		25	0	13.23	13.53	13.62	13.55	13.39	15.00
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Channel	Channel	Tungun
Ballawiatii	Modulation	ND SIZE	offset	39700	40160	40620	41080	41540	Tune up
		1	0	14.86	14.79	14.8	14.85	15.14	16.00
	QPSK	1	25	14.94	14.75	14.97	14.91	14.68	16.00
		1	49	14.83	15.01	14.84	14.78	14.85	16.00
		25	0	14.41	14.28	14.61	14.48	14.45	16.00
		25	13	14.46	14.3	14.54	14.52	14.61	16.00
		25	25	14.45	14.47	14.43	14.51	14.45	16.00
10MHz		50	0	14.46	14.26	14.44	14.46	14.5	16.00
10111112		1	0	14.38	14.34	14.36	14.62	14.15	16.00
		1	25	14.26	14.39	14.52	14.62	14.29	16.00
		1	49	14.56	14.25	14.39	14.34	14.16	16.00
	16QAM	25	0	13.53	13.6	13.69	13.66	13.6	15.00
		25	13	13.16	13.66	13.5	13.84	13.38	15.00
		25	25	13.16	13.57	13.81	13.72	13.41	15.00
		50	0	13.29	13.53	13.63	13.6	13.39	15.00
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Channel	Channel	Tune up
Banaman	Wodalation	TO 0120	offset	39725	40173	40620	41068	41515	rano ap
		1	0	14.83	14.8	14.75	14.85	15.11	16.00
		1	38	14.93	14.75	15.02	14.93	14.67	16.00
		1	74	14.86	14.93	14.84	14.77	14.85	16.00
	QPSK	36	0	14.46	14.27	14.56	14.44	14.39	16.00
15MHz		36	18	14.49	14.34	14.48	14.51	14.55	16.00
		36	39	14.45	14.53	14.51	14.51	14.37	16.00
		75	0	14.4	14.26	14.44	14.42	14.49	16.00
		1	0	14.42	14.35	14.41	14.62	14.12	16.00
	16QAM	1	38	14.29	14.41	14.43	14.61	14.25	16.00
		1	74	14.62	14.26	14.47	14.32	14.18	16.00



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1	1	l 00	۱ ۵	1 40 50	l 40.50 l	10.00	1 40.00	40.50	1 45.00
		36	0	13.53	13.58	13.66	13.66	13.53	15.00
		36	18	13.15	13.63	13.5	13.92	13.45	15.00
		36	39	13.19	13.56	13.77	13.75	13.45	15.00
		75	0	13.3	13.54	13.59	13.55	13.32	15.00
Bandwidth	Modulation	RB size	RB	Channel	Channel	Channel	Channel	Channel	Tune up
Ballawiatii	Woddiation	IND SIZE	offset	39750	40185	40620	41055	41490	rune up
		1	0	15.01	15.01	14.99	15.07	15.31	16.00
	1	50	15.12	14.94	15.2	15.11	14.92	16.00	
	1	99	15.01	15.17	15.03	14.99	15.01	16.00	
	QPSK	50	0	14.64	14.5	14.8	14.64	14.63	16.00
		50	25	14.66	14.5	14.7	14.72	14.78	16.00
		50	50	14.61	14.7	14.67	14.69	14.61	16.00
20MHz		100	0	14.63	14.43	14.6	14.65	14.73	16.00
ZUIVITIZ		1	0	14.61	14.54	14.59	14.85	14.36	16.00
		1	50	14.49	14.62	14.68	14.83	14.47	16.00
		1	99	14.78	14.46	14.63	14.55	14.38	16.00
	16QAM	50	0	13.73	13.8	13.91	13.85	13.77	15.00
		50	25	13.4	13.82	13.75	14.08	13.61	15.00
		50	50	13.39	13.78	13.98	13.92	13.62	15.00
		100	0	13.46	13.73	13.81	13.79	13.56	15.00



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8.1.4 Conducted Power Of 5G NR

N2

NZ							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
	Channel			372000	376000	380000	(ubiii)
	Frequency (MH:	z)		1860	1880	1900	
20	PI/2 BPSK	1	1	23.13	23.09	23.19	
20	PI/2 BPSK	1	53	23.08	23.15	23.17	25.0
20	PI/2 BPSK	1	104	23.10	23.20	23.19	
20	PI/2 BPSK	50	0	23.05	23.08	23.11	24.5
20	PI/2 BPSK	50	28	23.11	23.15	23.16	25.0
20	PI/2 BPSK	50	56	23.10	23.09	23.14	04.5
20	PI/2 BPSK	100	0	22.64	22.71	22.71	24.5
20	QPSK	1	1	23.19	23.24	23.21	
20	QPSK	1	53	23.17	23.22	23.24	25.0
20	QPSK	1	104	23.18	23.23	23.25	
20	QPSK	50	0	23.11	23.08	23.13	24.0
20	QPSK	50	28	23.12	23.10	23.14	25.0
20	QPSK	50	56	23.09	23.07	23.13	24.0
20	QPSK	100	0	22.18	22.23	22.22	24.0
20	16QAM	1	1	22.19	22.11	22.29	24.0
20	64QAM	1	1	21.07	20.86	20.86	22.5
20	256QAM	1	1	17.97	18.24	18.17	20.5
	Channel			371500	376000	380500	Tune-up limit
	Frequency (MH:	z)		1857.5	1880	1902.5	(dBm)
15	QPSK	1	40	23.07	23.21	23.24	25.0
	Channel			371000	376000	381000	Tune-up limit
	Frequency (MH:	z)		1855	1880	1905	(dBm)
10	QPSK	1	26	23.12	23.23	23.24	25.0
	Channel			370500	376000	381500	Tune-up limit
	Frequency (MH:	z)		1852.5	1880	1907.5	(dBm)
5	QPSK	1	13	23.19	23.17	23.20	25.0

N5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
	Channel			166800	167300	167800	(dBiii)
	Frequency (MHz	2)		834	836.5	839	
20	PI/2 BPSK	1	1	22.50	22.33	22.48	
20	PI/2 BPSK	1	53	22.68	22.42	22.63	23.5
20	PI/2 BPSK	1	104	22.80	22.98	23.06	
20	PI/2 BPSK	50	0	22.53	22.62	22.65	23.0
20	PI/2 BPSK	50	28	22.52	22.65	22.67	23.0



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20	PI/2 BPSK	50	56	22.49	22.64	22.65	20.0
20	PI/2 BPSK	100	0	21.96	22.14	22.21	23.0
20	QPSK	1	1	22.95	22.94	22.96	
20	QPSK	1	53	22.83	22.81	22.79	23.5
20	QPSK	1	104	22.68	22.70	22.62	
20	QPSK	50	0	22.65	22.72	22.69	23.0
20	QPSK	50	28	22.78	22.81	22.78	23.0
20	QPSK	50	56	22.62	22.68	22.65	23.0
20	QPSK	100	0	22.80	22.85	22.84	23.0
20	16QAM	1	1	22.84	22.95	22.85	23.0
20	64QAM	1	1	21.68	21.79	21.35	22.0
20	256QAM	1	1	18.88	18.91	18.83	19.5
	Channel			166300	167300	168300	Tune-up limit
	Frequency (MHz	:)		831.5	836.5	841.5	(dBm)
15	QPSK	1	40	22.83	22.85	22.69	23.0
	Channel			165800	167300	168800	Tune-up limit
	Frequency (MHz	:)		829	836.5	844	(dBm)
10	QPSK	1	26	22.38	22.50	22.80	23.0
	Channel			165300	167300	169300	Tune-up limit
	Frequency (MHz)					846.5	(dBm)
5	QPSK	1	13	22.82	22.85	22.73	23.0

N41

N41	_						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
	Channel			509202	518598	528000	(dBIII)
	Frequency (MHz	<u>z</u>)		2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.33	23.31	23.78	
100	PI/2 BPSK	1	137	23.45	24.22	23.74	24.5
100	PI/2 BPSK	1	271	23.87	23.75	24.42	
100	PI/2 BPSK	135	0	23.29	23.89	23.91	24.5
100	PI/2 BPSK	135	69	23.36	23.91	24.15	24.5
100	PI/2 BPSK	135	138	23.33	23.84	24.16	24.5
100	PI/2 BPSK	270	0	23.48	23.79	24.13	
100	QPSK	1	1	23.07	23.10	23.54	
100	QPSK	1	137	23.44	23.53	23.61	24.5
100	QPSK	1	271	23.65	24.07	24.11	
100	QPSK	135	0	23.21	23.52	23.48	24.0
100	QPSK	135	69	23.12	23.60	23.91	24.0
100	QPSK	135	138	23.05	23.31	23.20	24.5
100	QPSK	270	0	23.16	23.56	24.00	24.5
100	16QAM	1	1	22.93	22.96	23.53	24.0
100	64QAM	1	1	22.60	22.70	23.13	24.0
100	256QAM	1	1	19.15	19.05	19.62	20.0
	Channel			508200	518598	528996	Tune-up limit
	Frequency (MHz	<u>z</u>)		2541	2592.99	2644.98	(dBm)



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90	QPSK	1	123				
	Channel		120	23.41 507204	23.61 518598	23.94 529998	24.0
		`					Tune-up limit
	Frequency (MHz	,	T	2536.02	2592.99	2649.99	(dBm)
80	QPSK	1	109	23.19	23.58	23.96	24.0
	Channel			506202	518598	531000	Tune-up limit
	Frequency (MHz	:)		2531.01	2592.99	2655	(dBm)
70	QPSK	1	95	/	/	1	/
	Channel			505200	518598	531996	Tune-up limit
	Frequency (MHz	:)		2526	2592.99	2659.98	(dBm)
60	QPSK	1	81	23.23	23.79	24.28	24.5
	Channel			504204	518598	532998	Tune-up limit
	Frequency (MHz	:)		2521.02	2592.99	2664.99	(dBm)
50	QPSK	1	67	23.55	23.83	24.49	24.5
	Channel			503202	518598	534000	Tune-up limit
	Frequency (MHz	:)		2516.01	2592.99	2670	(dBm)
40	QPSK	1	53	23.51	24.05	24.49	24.5
	Channel			502200	518598	534996	Tune-up limit
	Frequency (MHz	:)		2511	2592.99	2674.98	(dBm)
30	QPSK	1	39	23.58	23.93	24.55	25.0
	Channel			501204	518598	535998	Tune-up limit
	Frequency (MHz	:)		2506.02	2592.99	2679.99	(dBm)
20	QPSK	1	26	23.33	23.91	24.52	25.0
	Channel			500700	518598	536496	Tune-up limit
_	Frequency (MHz)		2503.5	2592.99	2682.48	(dBm)
15	QPSK	1	19	/	/	1	/
	Channel			500202	518598	537000	Tune-up limit
	Frequency (MHz)		2501.01	2592.99	2685	(dBm)
10	QPSK	1	12	/	/	1	/

N66							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
	Channel			344,000.00	349,000.00	354,000.00	Tune-up limit
	Frequency (MH	z)		1,720.00	1,745.00	1,770.00	(dBm)
20	PI/2 BPSK	1	1	22.98	23.13	23.05	
20	PI/2 BPSK	1	53	23.15	23.17	23.11	24.0
20	PI/2 BPSK	1	104	23.11	23.21	23.13	
20	PI/2 BPSK	50	0	23.11	23.15	23.24	23.5
20	PI/2 BPSK	50	28	23.05	23.14	23.16	24.0
20	PI/2 BPSK	50	56	23.11	23.08	23.19	23.5
20	PI/2 BPSK	100	0	22.58	22.66	22.63	23.5
20	QPSK	1	1	23.44	23.47	23.38	
20	QPSK	1	53	23.45	23.51	23.43	24.0
20	QPSK	1	104	23.44	23.55	23.47	
20	QPSK	50	0	23.38	23.49	23.43	23.0



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20	QPSK	50	28	23.4	23.5	23.4	24.0
20	QPSK	50	56	23.41	23.51	23.45	23.0
20	QPSK	100	0	23.40	23.42	23.45	23.0
20	16QAM	1	1	23.37	23.44	23.46	23.0
20	64QAM	1	1	21.90	22.29	22.19	21.5
20	256QAM	1	1	19.43	19.42	19.39	19.5
	Channel			343500	349000	354500	Tune-up limit
	Frequency (MHz	2)		1717.5	1745	1772.5	(dBm)
15	QPSK	1	40	23.48	23.53	23.42	24.0
	Channel			343000	349000	355000	Tune-up limit
	Frequency (MHz	2)		1715	1745	1775	(dBm)
10	QPSK	1	26	23.53	23.51	23.58	24.0
	Channel			342500	349000	355500	Tune-up limit
	Frequency (MHz)					1777.5	(dBm)
5	QPSK	1	13	23.45	23.55	23.53	24.0

N7'

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
	Channel			134600	136100	137600	(ubiii)
	Frequency (MHz	<u>z</u>)		673	680.5	688	
20	PI/2 BPSK	1	1	22.69	22.53	22.55	
20	PI/2 BPSK	1	53	22.53	22.51	22.48	23.0
20	PI/2 BPSK	1	104	22.41	22.43	22.33	
20	PI/2 BPSK	50	0	22.42	22.51	22.33	23.0
20	PI/2 BPSK	50	28	22.45	22.53	22.35	23.0
20	PI/2 BPSK	50	56	22.47	22.48	22.35	23.0
20	PI/2 BPSK	100	0	21.99	21.85	22.62	23.0
20	QPSK	1	1	22.75	22.73	22.71	
20	QPSK	1	53	22.56	22.53	22.67	23.0
20	QPSK	1	104	22.48	22.42	22.58	
20	QPSK	50	0	22.53	22.57	22.55	23.0
20	QPSK	50	28	22.55	22.53	22.54	23.0
20	QPSK	50	56	22.59	22.58	22.57	22.0
20	QPSK	100	0	22.62	22.62	22.53	23.0
20	16QAM	1	1	22.71	22.69	22.56	23.0
20	64QAM	1	1	21.40	21.30	21.26	22.0
20	256QAM	1	1	18.72	18.38	18.47	19.0
	Channel			134100	136100	138100	Tune-up limit
	Frequency (MHz	<u>z</u>)		670.5	680.5	690.5	(dBm)
15	QPSK	1	40	22.73	22.51	22.52	23.0
	Channel			133600	136100	138600	Tune-up limit
	Frequency (MHz	<u>z</u>)		668	680.5	693	(dBm)
10	QPSK	1	26	22.72	22.65	22.60	23.0
	Channel			133100	136100	139100	Tune-up limit
	Frequency (MHz	<u>z</u>)		665.5	680.5	695.5	(dBm)
5	QPSK	1	13	22.72	22.49	22.45	23.0



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8.1.5 Conducted Power Of Wi-Fi

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
	1	2412		15.63	16.00
802.11b	6	2437	1	15.78	16.00
	11	2462		15.42	16.00
	1	2412		13.39	14.50
802.11g	6	2437	6	14.32	14.50
	11	2462		13.89	14.50
	1	2412		12.30	14.00
802.11n HT20 SISO	6	2437	MCS0	13.19	14.00
0.00	11	2462		12.90	14.00
	3	2422		14.32	15.00
802.11n HT40 SISO	6	2437	MCS0	14.99	15.00
3.30	9	2452		14.59	15.00

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		14.76	15.50
	U-NII-1	40	5200		14.94	15.50
	U-MII-1	44	5220		15.14	15.50
802.11a		48	5240	6	15.23	15.50
		149	5745		14.78	15.00
	U-NII-3	157	5785		14.48	15.00
		165	5825		13.90	15.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		13.74	15.00
	U-NII-1	40	5200		13.91	15.00
	U-INII-1	44	5220		14.23	15.00
802.11n-HT20		48	5240	MCS0	14.27	15.00
		149	5745		14.67	15.00
	U-NII-3	157	5785		14.36	15.00
		165	5825		13.77	15.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-1	38	5190		14.14	15.00
802.11n-HT40	U-INII- I	46	5230	MCS0	14.37	15.00
	U-NII-3	151	5755		14.14	15.00



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		159	5795		13.81	15.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		13.69	14.50
	LI NIII 4	40	5200		13.90	14.50
	U-NII-1	44	5220		14.15	14.50
802.11ac 20M		48	5240	MCS0	14.33	14.50
25111	U-NII-3	149	5745		13.65	14.50
		157	5785		13.35	14.50
		165	5825		13.84	14.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-1	38	5190		14.14	14.50
802.11ac	O-INII- I	46	5230	MCS0	14.34	14.50
40M	U-NII-3	151	5755	MCSU	14.09	14.50
	U-IIII-3	159	5795		13.75	14.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac	U-NII-1	42	5210	MCS0	14.83	15.00
80M	U-NII-3	155	5775	IVICSU	14.70	15.00

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
 - 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
 - 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.



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8.1.6 Conducted Power Of BT

	BT		Average Conditated	T
Modulation	Channel	Frequency (MHz)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	7.44	9
GFSK	39	2441	8.50	9
	78	2480	8.95	9
	0	2402	6.50	9
π/4DQPSK	39	2441	7.94	9
	78	2480	8.34	9
	0	2402	6.96	9
8DPSK	39	2441	8.33	9
	78	2480	8.74	9

	BLE_1M		Average Conducted	T
Modulation	Channel	Frequency (MHz)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	7.38	9
GFSK	19	2440	8.44	9
	39	2480	8.69	9
	BLE_2M		A a wa a sa Ca wa di cata d	T
Modulation	Channel	Frequency (MHz)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	7.40	9
GFSK	19	2440	8.53	9
	39	2480	8.87	9



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8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D04, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is \leq 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).

WiFi 2.4G:

1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR test for the other 802.11 modes are not required.

WiFi 5G:

1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.2.1 SAR Result Of GSM 850

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp	SAR limit (W/kg)
					Head Te	st data						
Left cheek	GSM	128/824.2	1:8.3	0.255	0.199	-0.02	31.64	32	1.086	0.277	22.1	1.6
Left tilted	GSM	128/824.2	1:8.3	0.049	0.048	-0.14	31.64	32	1.086	0.053	22.1	1.6
Right cheek	GSM	128/824.2	1:8.3	0.113	0.097	0.1	31.64	32	1.086	0.123	22.1	1.6
Right tilted	GSM	128/824.2	1:8.3	0.021	0.019	-0.13	31.64	32	1.086	0.022	22.1	1.6
Left cheek	GSM	190/836.6	1:8.3	0.231	0.168	-0.07	31.6	32	1.096	0.253	22.1	1.6
Left cheek	GSM	251/848.8	1:8.3	0.2	0.142	0.1	30.61	32	1.377	0.275	22.1	1.6
			He	ad Test da	ata at the v	worst case	with SIM2					
Left cheek	GSM	128/824.2	1:8.3	0.237	0.172	-0.18	31.64	32	1.086	0.257	22.1	1.6
				Body T	est data(S	eparate 10	Omm)					
Front side	GPRS 4TS	190/836.6	1:2.075	0.789	0.591	-0.09	26.48	27	1.127	0.889	22.1	1.6
Back side	GPRS 4TS	190/836.6	1:2.075	1.020	0.627	0.06	26.48	27	1.127	1.150	22.1	1.6
Back side	GPRS 4TS	128/824.2	1:2.075	0.925	0.618	0.06	26.14	27	1.219	1.128	22.1	1.6
Back side	GPRS 4TS	251/848.8	1:2.075	0.814	0.511	0.14	25.52	27	1.406	1.145	22.1	1.6
Left side	GPRS 4TS	190/836.6	1:2.075	0.860	0.598	-0.12	26.48	27	1.127	0.970	22.1	1.6
Right side	GPRS 4TS	190/836.6	1:2.075	0.780	0.591	-0.19	26.48	27	1.127	0.879	22.1	1.6
Top side	GPRS 4TS	190/836.6	1:2.075	0.093	0.079	0.01	26.48	27	1.127	0.105	22.1	1.6
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.647	0.379	0.09	26.48	27	1.127	0.729	22.1	1.6
Back side	EGPRS 3TS	128/824.2	1:2.075	0.844	0.561	-0.1	21.25	22	1.189	1.003	22.1	1.6
			Body Test of	data at the	worst cas	e with SIM	12(Separate 10	mm)				
Back side	GPRS 4TS	190/836.6	1:2.075	0.921	0.604	0.06	26.48	27	1.127	1.038	22.1	1.6
				Extremity	/ Test data	a(Separate	0mm)					
Front side	GPRS 4TS	190/836.6	1:2.075	3.16	2.29	-0.03	26.48	27	1.127	2.581	22.1	4
Back side	GPRS 4TS	190/836.6	1:2.075	4.11	2.38	0.11	26.48	27	1.127	2.683	22.1	4
Left side	GPRS 4TS	190/836.6	1:2.075	3.46	2.26	-0.12	26.48	27	1.127	2.547	22.1	4
Bottom side	GPRS 4TS	190/836.6	1:2.075	2.62	1.29	-0.14	26.48	27	1.127	1.454	22.1	4
				Sens	or off (Sep	arate 15m	ım)					
Front side	GPRS 4TS	190/836.6	1:2.075	0.367	0.179	-0.03	28.34	29	1.164	0.427	22.1	1.6
Back side	GPRS 4TS	190/836.6	1:2.075	0.488	0.275	0.17	28.34	29	1.164	0.568	22.1	1.6



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8.2.2 SAR Result Of PCS 1900

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp	SAR limit (W/kg)
					Head	Test data						
Left cheek	GSM	810/1909.8	1:8.3	0.203	0.094	-0.04	29.53	30	1.114	0.226	22.3	1.6
Left tilted	GSM	810/1909.8	1:8.3	0.038	0.020	0.17	29.53	30	1.114	0.042	22.3	1.6
Right cheek	GSM	810/1909.8	1:8.3	0.082	0.042	0.05	29.53	30	1.114	0.092	22.3	1.6
Right tilted	GSM	810/1909.8	1:8.3	0.019	0.010	0.05	29.53	30	1.114	0.022	22.3	1.6
Left cheek	GSM	512/1850.2	1:8.3	0.164	0.086	0.06	28.76	30	1.330	0.218	22.3	1.6
Left cheek	GSM	661/1880	1:8.3	0.185	0.084	0.17	29.42	30	1.143	0.211	22.3	1.6
				Head Tes	t data at th	ne worst case	e with SIM2	•		•		
Left cheek	GSM	810/1909.8	1:8.3	0.177	0.082	0.11	29.53	30	1.114	0.197	22.3	1.6
				Bod	y Test data	a(Separate 1	0mm)					
Front side	GPRS 2TS	810/1909.8	1:2.075	0.144	0.081	-0.12	27.55	28	1.109	0.159	22.3	1.6
Back side	GPRS 2TS	810/1909.8	1:2.075	0.160	0.084	0.13	27.55	28	1.109	0.177	22.3	1.6
Left side	GPRS 2TS	810/1909.8	1:2.075	0.209	0.107	-0.1	27.55	28	1.109	0.232	22.3	1.6
Left side	GPRS 2TS	512/1850.2	1:2.075	0.164	0.075	0.016	26.77	28	1.327	0.218	22.3	1.6
Left side	GPRS 2TS	661/1880	1:2.075	0.188	0.096	-0.07	27.41	28	1.146	0.215	22.3	1.6
Right side	GPRS 2TS	810/1909.8	1:2.075	0.017	0.011	-0.15	27.55	28	1.109	0.019	22.3	1.6
Top side	GPRS 2TS	810/1909.8	1:2.075	0.041	0.025	0.05	27.55	28	1.109	0.045	22.3	1.6
Bottom side	GPRS 2TS	810/1909.8	1:2.075	0.041	0.026	0.1	27.55	28	1.109	0.045	22.3	1.6
Left side	EGPRS 2TS	810/1909.8	1:2.075	0.188	0.102	0.19	23.71	24	1.069	0.201	22.3	1.6
			Body Te	st data at	the worst	case with SI	M2(Separate 10	mm)				
Left side	GPRS 2TS	810/1909.8	1:2.075	0.179	0.093	-0.1	27.55	28	1.109	0.199	22.3	1.6
				Extre	mity Test o	lata(Separat	e 0mm)					
Front side	GPRS 2TS	810/1909.8	1:2.075	0.829	0.413	-0.18	27.55	28	1.109	0.458	22.3	4
Back side	GPRS 2TS	810/1909.8	1:2.075	0.924	0.413	0.08	27.55	28	1.109	0.458	22.3	4
Left side	GPRS 2TS	810/1909.8	1:2.075	1.02	0.51	0.06	27.55	28	1.109	0.566	22.3	4



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8.2.3 SAR Result Of WCDMA Band II

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp	SAR limit (W/kg)
					Head Te	st data						
Left cheek	RMC	9262/1852.4	1:1	0.373	0.185	-0.18	21.58	22	1.102	0.411	22.3	1.6
Left tilted	RMC	9262/1852.4	1:1	0.066	0.037	-0.01	21.58	22	1.102	0.072	22.3	1.6
Right cheek	RMC	9262/1852.4	1:1	0.156	0.085	0.09	21.58	22	1.102	0.172	22.3	1.6
Right tilted	RMC	9262/1852.4	1:1	0.038	0.026	0.14	21.58	22	1.102	0.041	22.3	1.6
Left cheek	RMC	9400/1880	1:1	0.331	0.167	0.03	21.16	22	1.213	0.402	22.3	1.6
Left cheek	RMC	9538/1907.6	1:1	0.329	0.152	0.12	21.05	22	1.245	0.409	22.3	1.6
			He	ad Test da	ata at the v	worst case	with SIM2					
Left cheek	RMC	9262/1852.4	1:1	0.352	0.162	-0.19	21.58	22	1.102	0.388	22.3	1.6
				Body T	est data(S	eparate 10	Omm)					
Front side	RMC	9262/1852.4	1:1	0.158	0.080	-0.19	21.58	22	1.102	0.174	22.3	1.6
Back side	RMC	9262/1852.4	1:1	0.173	0.093	0.13	21.58	22	1.102	0.191	22.3	1.6
Left side	RMC	9262/1852.4	1:1	0.222	0.112	-0.06	21.58	22	1.102	0.245	22.3	1.6
Left side	RMC	9400/1880	1:1	0.182	0.079	0.19	21.16	22	1.213	0.221	22.3	1.6
Left side	RMC	9538/1907.6	1:1	0.195	0.084	-0.14	21.05	22	1.245	0.243	22.3	1.6
Right side	RMC	9262/1852.4	1:1	0.021	0.010	-0.08	21.58	22	1.102	0.023	22.3	1.6
Top side	RMC	9262/1852.4	1:1	0.042	0.022	0.17	21.58	22	1.102	0.046	22.3	1.6
Bottom side	RMC	9262/1852.4	1:1	0.040	0.029	0.17	21.58	22	1.102	0.044	22.3	1.6
		В	ody Test	data at the	worst cas	e with SIM	12(Separate 10	mm)				
Left side	RMC	9262/1852.4	1:1	0.185	0.097	-0.01	21.58	22	1.102	0.204	22.3	1.6
			_	Extremity	y Test data	a(Separate	0mm)					
Front side	RMC	9262/1852.4	1:1	0.891	0.392	-0.07	21.58	22	1.102	0.431	22.3	4
Back side	RMC	9262/1852.4	1:1	0.989	0.466	-0.01	21.58	22	1.102	0.513	22.3	4
Left side	RMC	9262/1852.4	1:1	1.25	0.638	0.12	21.58	22	1.102	0.703	22.3	4



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8.2.4 SAR Result Of WCDMA Band IV

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp	SAR limit (W/kg)
					Head Te	st data						
Left cheek	RMC	1412/1732.4	1:1	0.272	0.153	-0.18	21.15	22	1.216	0.331	22.2	1.6
Left cheek	RMC	1312/1712.4	1:1	0.263	0.142	0.08	21.02	22	1.253	0.330	22.2	1.6
Left cheek	RMC	1513/1752.6	1:1	0.249	0.135	0.05	21.08	22	1.236	0.308	22.2	1.6
Left tilted	RMC	1412/1732.4	1:1	0.082	0.043	0.05	21.15	22	1.216	0.100	22.2	1.6
Right cheek	RMC	1412/1732.4	1:1	0.134	0.072	0.06	21.15	22	1.216	0.163	22.2	1.6
Right tilted	RMC	1412/1732.4	1:1	0.046	0.022	0.01	21.15	22	1.216	0.056	22.2	1.6
	•	•	He	ad Test da	ata at the v	worst case	with SIM2			•	•	
Left cheek	RMC	1412/1732.4	1:1	0.242	0.129	-0.04	21.15	22	1.216	0.294	22.2	1.6
				Body T	est data(S	eparate 10	Omm)					
Front side	RMC	1412/1732.4	1:1	0.136	0.080	0.15	21.15	22	1.216	0.165	22.2	1.6
Back side	RMC	1412/1732.4	1:1	0.149	0.084	0.02	21.15	22	1.216	0.182	22.2	1.6
Left side	RMC	1412/1732.4	1:1	0.204	0.106	-0.17	21.15	22	1.216	0.248	22.2	1.6
Left side	RMC	1312/1712.4	1:1	0.194	0.102	0.13	21.02	22	1.253	0.243	22.2	1.6
Left side	RMC	1513/1752.6	1:1	0.183	0.096	0.03	21.08	22	1.236	0.226	22.2	1.6
Right side	RMC	1412/1732.4	1:1	0.019	0.013	0.02	21.15	22	1.216	0.023	22.2	1.6
Top side	RMC	1412/1732.4	1:1	0.041	0.025	0.11	21.15	22	1.216	0.049	22.2	1.6
Bottom side	RMC	1412/1732.4	1:1	0.033	0.026	0.11	21.15	22	1.216	0.040	22.2	1.6
		В	ody Test	data at the	worst cas	e with SIM	12(Separate 10	mm)				
Left side	RMC	1412/1732.4	1:1	0.165	0.076	0.18	21.15	22	1.216	0.201	22.2	1.6
				Extremity	y Test data	a(Separate	omm)					
Front side	RMC	1412/1732.4	1:1	0.759	0.392	0.1	21.15	22	1.216	0.477	22.2	4
Back side	RMC	1412/1732.4	1:1	0.832	0.410	0.01	21.15	22	1.216	0.498	22.2	4
Left side	RMC	1412/1732.4	1:1	0.961	0.412	-0.07	21.15	22	1.216	0.501	22.2	4



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8.2.5 SAR Result Of WCDMA Band V

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp	SAR limit (W/kg)
					Head Te	st data						
Left cheek	RMC	4182/836.4	1:1	0.194	0.102	0.09	22.5	23	1.122	0.218	22.1	1.6
Left cheek	RMC	4132/826.4	1:1	0.177	0.101	0.08	22.4	23	1.148	0.203	22.1	1.6
Left cheek	RMC	4233/846.6	1:1	0.182	0.095	-0.16	22.39	23	1.151	0.209	22.1	1.6
Left tilted	RMC	4182/836.4	1:1	0.037	0.024	-0.1	22.5	23	1.122	0.042	22.1	1.6
Right cheek	RMC	4182/836.4	1:1	0.084	0.048	-0.02	22.5	23	1.122	0.094	22.1	1.6
Right tilted	RMC	4182/836.4	1:1	0.016	0.009	-0.08	22.5	23	1.122	0.018	22.1	1.6
			He	ad Test da	ata at the v	worst case	with SIM2				•	
Left cheek	RMC	4182/836.4	1:1	0.162	0.085	0.12	22.5	23	1.122	0.182	22.1	1.6
				Body To	est data(S	eparate 10	Omm)					
Front side	RMC	4182/836.4	1:1	0.224	0.156	0.08	22.5	23	1.122	0.251	22.1	1.6
Back side	RMC	4182/836.4	1:1	0.298	0.222	-0.06	22.5	23	1.122	0.334	22.1	1.6
Back side	RMC	4132/826.4	1:1	0.268	0.168	0.11	22.4	23	1.148	0.308	22.1	1.6
Back side	RMC	4233/846.6	1:1	0.271	0.164	0.09	22.39	23	1.151	0.312	22.1	1.6
Left side	RMC	4182/836.4	1:1	0.245	0.158	-0.07	22.5	23	1.122	0.275	22.1	1.6
Right side	RMC	4182/836.4	1:1	0.226	0.153	0.14	22.5	23	1.122	0.254	22.1	1.6
Top side	RMC	4182/836.4	1:1	0.026	0.017	-0.07	22.5	23	1.122	0.029	22.1	1.6
Bottom side	RMC	4182/836.4	1:1	0.183	0.100	-0.07	22.5	23	1.122	0.205	22.1	1.6
		В	ody Test	data at the	worst cas	e with SIM	12(Separate 10	mm)				
Back side	RMC	4182/836.4	1:1	0.264	0.192	0.15	22.5	23	1.122	0.296	22.1	1.6
				Extremity	/ Test data	a(Separate	0mm)					
Front side	RMC	4182/836.4	1:1	0.902	0.707	-0.1	22.5	23	1.122	0.793	22.1	4
Back side	RMC	4182/836.4	1:1	1.45	0.917	0.03	22.5	23	1.122	1.029	22.1	4
Left side	RMC	4182/836.4	1:1	1.007	0.695	-0.19	22.5	23	1.122	0.780	22.1	4
Bottom side	RMC	4182/836.4	1:1	0.764	0.465	0.15	22.5	23	1.122	0.522	22.1	4



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8.2.6 SAR Result Of LTE Band 2

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				H	ead Test d	ata			•	•	•	
Left cheek	20M_QPSK 1RB_0	18700/1860	1:1	0.419	0.219	0.13	22.31	22.5	1.045	0.438	22.3	1.6
Left cheek	20M_QPSK 1RB_0	18900/1880	1:1	0.397	0.198	0.07	22.25	22.5	1.059	0.421	22.3	1.6
Left cheek	20M_QPSK 1RB_0	19100/1900	1:1	0.402	0.205	0.15	22.27	22.5	1.054	0.424	22.3	1.6
Left cheek	20M_QPSK 50RB_50	18700/1860	1:1	0.313	0.169	0.02	21.8	22	1.047	0.328	22.3	1.6
Left tilted	20M_QPSK 1RB_0	18700/1860	1:1	0.071	0.042	-0.02	22.31	22.5	1.045	0.074	22.3	1.6
Left tilted	20M_QPSK 50RB_50	18700/1860	1:1	0.044	0.028	-0.05	21.8	22	1.047	0.046	22.3	1.6
Right cheek	20M_QPSK 1RB_0	18700/1860	1:1	0.168	0.094	0.11	22.31	22.5	1.045	0.176	22.3	1.6
Right cheek	20M_QPSK 50RB_50	18700/1860	1:1	0.134	0.076	0.04	21.8	22	1.047	0.140	22.3	1.6
Right tilted	20M_QPSK 1RB_0	18700/1860	1:1	0.037	0.023	0.07	22.31	22.5	1.045	0.039	22.3	1.6
Right tilted	20M_QPSK 50RB_50	18700/1860	1:1	0.023	0.010	-0.01	21.8	22	1.047	0.024	22.3	1.6
			Head	Test data	at the wor	st case wi	h SIM2					
Left cheek	20M_QPSK 1RB_0	18700/1860	1:1	0.391	0.203	0.03	22.31	22.5	1.045	0.408	22.3	1.6
			E	Body Test	data(Sepa	rate 10mr	n)					
Front side	20M_QPSK 1RB_0	18700/1860	1:1	0.103	0.057	-0.16	22.31	22.5	1.045	0.108	22.3	1.6
Front side	20M_QPSK 50RB_50	18700/1860	1:1	0.085	0.041	0.14	21.8	22	1.047	0.089	22.3	1.6
Back side	20M_QPSK 1RB_0	18700/1860	1:1	0.113	0.064	-0.11	22.31	22.5	1.045	0.118	22.3	1.6
Back side	20M_QPSK 50RB_50	18700/1860	1:1	0.092	0.045	0.17	21.8	22	1.047	0.096	22.3	1.6
Left side	20M_QPSK 1RB_0	18700/1860	1:1	0.152	0.082	0.06	22.31	22.5	1.045	0.159	22.3	1.6
Left side	20M_QPSK 1RB_0	18900/1880	1:1	0.136	0.064	0.09	22.25	22.5	1.059	0.144	22.3	1.6
Left side	20M_QPSK 1RB_0	19100/1900	1:1	0.142	0.075	0.18	22.27	22.5	1.054	0.150	22.3	1.6
Left side	20M_QPSK 50RB_50	18700/1860	1:1	0.132	0.063	-0.11	21.8	22	1.047	0.138	22.3	1.6
Right side	20M_QPSK 1RB_0	18700/1860	1:1	0.010	0.005	0.15	22.31	22.5	1.045	0.010	22.3	1.6
Right side	20M_QPSK 50RB_50	18700/1860	1:1	0.008	0.003	0.05	21.8	22	1.047	0.008	22.3	1.6
Top side	20M_QPSK 1RB_0	18700/1860	1:1	0.025	0.013	0.01	22.31	22.5	1.045	0.026	22.3	1.6
Top side	20M_QPSK 50RB_50	18700/1860	1:1	0.020	0.010	0.04	21.8	22	1.047	0.021	22.3	1.6
Bottom side	20M_QPSK 1RB_0	18700/1860	1:1	0.024	0.016	-0.05	22.31	22.5	1.045	0.025	22.3	1.6
Bottom side	20M_QPSK 50RB_50	18700/1860	1:1	0.020	0.012	-0.17	21.8	22	1.047	0.021	22.3	1.6
		Body	Test data	a at the wo	rst case w	ith SIM2(S	Separate 10mm)				
Left side	20M_QPSK 1RB_49	18700/1860	1:1	0.132	0.065	-0.05	22.31	22.5	1.045	0.138	22.3	1.6
			E	ktremity Te	est data(Se	eparate 0n	nm)					
Front side	20M_QPSK 1RB_0	18700/1860	1:1	0.596	0.280	-0.01	22.31	22.5	1.045	0.292	22.3	4
Front side	20M_QPSK 50RB_50	18700/1860	1:1	0.505	0.224	0.03	21.8	22	1.047	0.235	22.3	4
Back side	20M_QPSK 1RB_0	18700/1860	1:1	0.645	0.334	-0.15	22.31	22.5	1.045	0.348	22.3	4
Back side	20M_QPSK 50RB_50	18700/1860	1:1	0.511	0.240	0.14	21.8	22	1.047	0.252	22.3	4
Left side	20M_QPSK 1RB_49	18700/1860	1:1	0.864	0.425	-0.08	22.31	22.5	1.045	0.444	22.3	4
Left side	20M_QPSK 50RB_50	18700/1860	1:1	0.736	0.305	-0.17	21.8	22	1.047	0.320	22.3	4



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8.2.7 SAR Result Of LTE Band 4

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head Test	data(1RB	_0 offset)						
Left cheek	20M_QPSK 1RB_99	20175/1732.5	1:1	0.342	0.184	0.02	22.28	22.5	1.052	0.360	22.2	1.6
Left cheek	20M_QPSK 1RB_99	20300/1745	1:1	0.294	0.149	0.15	21.97	22.5	1.130	0.332	22.2	1.6
Left cheek	20M_QPSK 1RB_99	20050/1720	1:1	0.315	0.162	0.05	21.96	22.5	1.132	0.357	22.2	1.6
Left cheek	20M_QPSK 50RB_25	20175/1732.5	1:1	0.264	0.146	-0.05	21.67	22	1.079	0.285	22.2	1.6
Left tilted	20M_QPSK 1RB_99	20175/1732.5	1:1	0.061	0.037	-0.17	22.28	22.5	1.052	0.064	22.2	1.6
Left tilted	20M_QPSK 50RB_25	20175/1732.5	1:1	0.042	0.028	-0.09	21.67	22	1.079	0.045	22.2	1.6
Right cheek	20M_QPSK 1RB_99	20175/1732.5	1:1	0.143	0.083	-0.14	22.28	22.5	1.052	0.150	22.2	1.6
Right cheek	20M_QPSK 50RB_25	20175/1732.5	1:1	0.117	0.07	-0.09	21.67	22	1.079	0.126	22.2	1.6
Right tilted	20M_QPSK 1RB_99	20175/1732.5	1:1	0.021	0.012	0.01	22.28	22.5	1.052	0.022	22.2	1.6
Right tilted	20M_QPSK 50RB_25	20175/1732.5	1:1	0.032	0.024	0.06	21.67	22	1.079	0.035	22.2	1.6
		Head	Test dat	a at the wo	orst case v	with SIM2(1RB_0 offset)					
Left cheek	20M_QPSK 1RB_99	20175/1732.5	1:1	0.327	0.175	0.02	22.28	22.5	1.052	0.344	22.2	1.6
			В	ody Test o	data(Separ	ate 10mm)		•		•	
Front side	20M_QPSK 1RB_99	20175/1732.5	1:1	0.129	0.074	0.11	22.28	22.5	1.052	0.135	22.2	1.6
Front side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.108	0.049	0.18	21.67	22	1.079	0.117	22.2	1.6
Back side	20M_QPSK 1RB_99	20175/1732.5	1:1	0.137	0.076	0.02	22.28	22.5	1.052	0.144	22.2	1.6
Back side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.110	0.053	0.01	21.67	22	1.079	0.118	22.2	1.6
Left side	20M_QPSK 1RB_99	20175/1732.5	1:1	0.183	0.1	-0.04	22.28	22.5	1.052	0.193	22.2	1.6
Left side	20M_QPSK 1RB_99	20300/1745	1:1	0.162	0.091	0.07	21.97	22.5	1.130	0.183	22.2	1.6
Left side	20M_QPSK 1RB_99	20050/1720	1:1	0.157	0.085	0.16	21.96	22.5	1.132	0.178	22.2	1.6
Left side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.157	0.075	-0.14	21.67	22	1.079	0.169	22.2	1.6
Right side	20M_QPSK 1RB_99	20175/1732.5	1:1	0.012	0.007	0.15	22.28	22.5	1.052	0.013	22.2	1.6
Right side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.015	0.006	0.09	21.67	22	1.079	0.016	22.2	1.6
Top side	20M_QPSK 1RB_99	20175/1732.5	1:1	0.034	0.020	0.08	22.28	22.5	1.052	0.036	22.2	1.6
Top side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.026	0.014	0.19	21.67	22	1.079	0.028	22.2	1.6
Bottom side	20M_QPSK 1RB_99	20175/1732.5	1:1	0.030	0.023	0.1	22.28	22.5	1.052	0.031	22.2	1.6
Bottom side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.026	0.016	-0.19	21.67	22	1.079	0.028	22.2	1.6
		Body ¹	Γest data	at the wor	st case wi	th SIM2(Se	eparate 10mm)					
Left side	20M_QPSK 1RB_99	20175/1732.5	1:1	0.155	0.085	-0.19	22.28	22.5	1.052	0.163	22.2	1.6
			Ex	tremity Tes	st data(Se	parate 0mi	m)					
Front side	20M_QPSK 1RB_99	20175/1732.5	1:1	0.736	0.373	0.12	22.28	22.5	1.052	0.392	22.2	4
Front side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.606	0.248	0.08	21.67	22	1.079	0.268	22.2	4
Back side	20M_QPSK 1RB_99	20175/1732.5	1:1	0.775	0.374	0.16	22.28	22.5	1.052	0.393	22.2	4
Back side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.638	0.277	-0.07	21.67	22	1.079	0.299	22.2	4
Left side	20M_QPSK 1RB_99	20175/1732.5	1:1	0.885	0.426	0.07	22.28	22.5	1.052	0.448	22.2	4
Left side	20M_QPSK 50RB_25	20175/1732.5	1:1	0.885	0.363	0.09	21.67	22	1.079	0.391	22.2	4



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8.2.8 SAR Result Of LTE Band 5

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head Tes	t data(1RE	3_0 offset)	ı					
Left cheek	10M_QPSK 1RB_0	20600/844	1:1	0.233	0.18	-0.02	22.88	23.5	1.153	0.269	22.1	1.6
Left cheek	10M_QPSK 1RB_0	20450/829	1:1	0.211	0.123	0.04	22.66	23.5	1.213	0.256	22.1	1.6
Left cheek	10M_QPSK 1RB_0	20525/836.5	1:1	0.216	0.142	0.16	22.61	23.5	1.227	0.265	22.1	1.6
Left cheek	10M_QPSK 25RB_25	20600/844	1:1	0.187	0.12	0.18	22.07	23.5	1.390	0.260	22.1	1.6
Left tilted	10M_QPSK 1RB_0	20600/844	1:1	0.046	0.03	0.11	22.88	23.5	1.153	0.053	22.1	1.6
Left tilted	10M_QPSK 25RB_25	20600/844	1:1	0.031	0.029	-0.05	22.07	23.5	1.390	0.043	22.1	1.6
Right cheek	10M_QPSK 1RB_0	20600/844	1:1	0.107	0.084	0.11	22.88	23.5	1.153	0.123	22.1	1.6
Right cheek	10M_QPSK 25RB_25	20600/844	1:1	0.086	0.071	0.09	22.07	23.5	1.390	0.120	22.1	1.6
Right tilted	10M_QPSK 1RB_0	20600/844	1:1	0.017	0.012	0.03	22.88	23.5	1.153	0.020	22.1	1.6
Right tilted	10M_QPSK 25RB_25	20600/844	1:1	0.025	0.02	0.07	22.07	23.5	1.390	0.035	22.1	1.6
		Hea	d Test da	ta at the w	orst case	with SIM2	(1RB_0 offset)					
Left cheek	10M_QPSK 1RB_0	20600/844	1:1	0.228	0.185	0.03	22.88	23.5	1.153	0.263	22.1	1.6
			E	Body Test	data(Sepa	rate 10mm	٦)					
Front side	10M_QPSK 1RB_0	20600/844	1:1	0.188	0.132	0.1	22.88	23.5	1.153	0.217	22.1	1.6
Front side	10M_QPSK 25RB_25	20600/844	1:1	0.152	0.122	-0.03	22.07	23.5	1.390	0.211	22.1	1.6
Back side	10M_QPSK 1RB_0	20600/844	1:1	0.241	0.179	-0.12	22.88	23.5	1.153	0.278	22.1	1.6
Back side	10M_QPSK 1RB_0	20450/829	1:1	0.221	0.152	0.12	22.66	23.5	1.213	0.268	22.1	1.6
Back side	10M_QPSK 1RB_0	20525/836.5	1:1	0.226	0.162	0.08	22.61	23.5	1.227	0.277	22.1	1.6
Back side	10M_QPSK 25RB_25	20600/844	1:1	0.195	0.121	-0.19	22.07	23.5	1.390	0.271	22.1	1.6
Left side	10M_QPSK 1RB_0	20600/844	1:1	0.172	0.115	0.14	22.88	23.5	1.153	0.198	22.1	1.6
Left side	10M_QPSK 25RB_25	20600/844	1:1	0.172	0.111	-0.06	22.07	23.5	1.390	0.239	22.1	1.6
Right side	10M_QPSK 1RB_0	20600/844	1:1	0.188	0.128	-0.19	22.88	23.5	1.153	0.217	22.1	1.6
Right side	10M_QPSK 25RB_25	20600/844	1:1	0.167	0.109	-0.13	22.07	23.5	1.390	0.232	22.1	1.6
Top side	10M_QPSK 1RB_0	20600/844	1:1	0.018	0.013	0.14	22.88	23.5	1.153	0.021	22.1	1.6
Top side	10M_QPSK 25RB_25	20600/844	1:1	0.015	0.009	-0.07	22.07	23.5	1.390	0.021	22.1	1.6
Bottom side	10M_QPSK 1RB_0	20600/844	1:1	0.15	0.085	-0.06	22.88	23.5	1.153	0.173	22.1	1.6
Bottom side	10M_QPSK 25RB_25	20600/844	1:1	0.13	0.065	0.1	22.07	23.5	1.390	0.181	22.1	1.6
		Body	Test data	at the wo	rst case w	ith SIM2(S	eparate 10mm)				
Back side	10M_QPSK 1RB_0	20600/844	1:1	0.221	0.143	-0.05	22.88	23.5	1.153	0.255	22.1	1.6
			Ex	tremity Te	st data(Se	parate 0m	m)					
Front side	10M_QPSK 1RB_0	20600/844	1:1	1.07	0.530	-0.14	22.88	23.5	1.153	0.612	22.1	4
Front side	10M_QPSK 25RB_25	20600/844	1:1	0.869	0.469	-0.04	22.07	23.5	1.390	0.652	22.1	4
Back side	10M_QPSK 1RB_0	20600/844	1:1	1.31	0.682	0.08	22.88	23.5	1.153	0.787	22.1	4
Back side	10M_QPSK 25RB_25	20600/844	1:1	1.10	0.488	-0.07	22.07	23.5	1.390	0.679	22.1	4
Left side	10M_QPSK 1RB_0	20600/844	1:1	0.979	0.443	0.03	22.88	23.5	1.153	0.510	22.1	4
Left side	10M_QPSK 25RB_25	20600/844	1:1	0.985	0.451	0.16	22.07	23.5	1.390	0.627	22.1	4
Bottom side	10M_QPSK 1RB_0	20600/844	1:1	0.841	0.344	-0.06	22.88	23.5	1.153	0.397	22.1	4
Bottom side	10M_QPSK 25RB_25	20600/844	1:1	0.734	0.273	-0.11	22.07	23.5	1.390	0.379	22.1	4



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8.2.9 SAR Result Of LTE Band 7

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				He	ead Test d	ata						•
Left cheek	20M_QPSK 1RB_0	20850/2510	1:1	0.424	0.196	-0.05	21.99	22.5	1.125	0.477	22.1	1.6
Left cheek	20M_QPSK 1RB_0	21100/2535.5	1:1	0.341	0.164	0.06	21.79	22.5	1.178	0.402	22.1	1.6
Left cheek	20M_QPSK 1RB_0	21350/2560	1:1	0.389	0.185	-0.19	21.75	22.5	1.189	0.462	22.1	1.6
Left cheek	20M_QPSK 50RB_0	20850/2510	1:1	0.366	0.182	-0.01	21.39	21.5	1.026	0.375	22.1	1.6
Left tilted	20M_QPSK 1RB_0	20850/2510	1:1	0.023	0.011	-0.12	21.99	22.5	1.125	0.026	22.1	1.6
Left tilted	20M_QPSK 50RB_0	20850/2510	1:1	0.015	0.009	-0.11	21.39	21.5	1.026	0.015	22.1	1.6
Right cheek	20M_QPSK 1RB_0	20850/2510	1:1	0.054	0.025	-0.1	21.99	22.5	1.125	0.061	22.1	1.6
Right cheek	20M_QPSK 50RB_0	20850/2510	1:1	0.042	0.021	-0.15	21.39	21.5	1.026	0.043	22.1	1.6
Right tilted	20M_QPSK 1RB_0	20850/2510	1:1	0.012	0.007	0.17	21.99	22.5	1.125	0.014	22.1	1.6
Right tilted	20M_QPSK 50RB_0	20850/2510	1:1	0.008	0.003	-0.06	21.39	21.5	1.026	0.008	22.1	1.6
		Hea	d Test da	ta at the w	orst case	with SIM2	(1RB_0 offset)	•	•	•		•
Left cheek	20M_QPSK 1RB_0	20850/2510	1:1	0.111	0.051	0.02	21.99	22.5	1.125	0.125	22.1	1.6
			E	Body Test	data(Sepa	rate 10mn	n)				•	-
Front side	20M_QPSK 1RB_0	20850/2510	1:1	0.084	0.040	-0.18	21.99	22.5	1.125	0.095	22.1	1.6
Front side	20M_QPSK 50RB_0	20850/2510	1:1	0.066	0.027	-0.03	21.39	21.5	1.026	0.068	22.1	1.6
Back side	20M_QPSK 1RB_0	20850/2510	1:1	0.088	0.044	0.01	21.99	22.5	1.125	0.099	22.1	1.6
Back side	20M_QPSK 50RB_0	20850/2510	1:1	0.072	0.031	0.07	21.39	21.5	1.026	0.074	22.1	1.6
Left side	20M_QPSK 1RB_0	20850/2510	1:1	0.119	0.055	0.01	21.99	22.5	1.125	0.134	22.1	1.6
Left side	20M_QPSK 1RB_0	21100/2535.5	1:1	0.102	0.047	0.05	21.79	22.5	1.178	0.120	22.1	1.6
Left side	20M_QPSK 1RB_0	21350/2560	1:1	0.112	0.051	0.09	21.75	22.5	1.189	0.133	22.1	1.6
Left side	20M_QPSK 50RB_0	20850/2510	1:1	0.104	0.044	0.03	21.39	21.5	1.026	0.107	22.1	1.6
Right side	20M_QPSK 1RB_0	20850/2510	1:1	0.009	0.004	0.15	21.99	22.5	1.125	0.010	22.1	1.6
Right side	20M_QPSK 50RB_0	20850/2510	1:1	0.007	0.002	0.09	21.39	21.5	1.026	0.007	22.1	1.6
Top side	20M_QPSK 1RB_0	20850/2510	1:1	0.022	0.011	-0.13	21.99	22.5	1.125	0.025	22.1	1.6
Top side	20M_QPSK 50RB_0	20850/2510	1:1	0.020	0.009	0.13	21.39	21.5	1.026	0.021	22.1	1.6
Bottom side	20M_QPSK 1RB_0	20850/2510	1:1	0.021	0.014	0.16	21.99	22.5	1.125	0.023	22.1	1.6
Bottom side	20M_QPSK 50RB_0	20850/2510	1:1	0.017	0.012	0.12	21.39	21.5	1.026	0.018	22.1	1.6
		Body	Test data	at the wo	rst case w	ith SIM2(S	Separate 10mm)				
Left side	20M_QPSK 1RB_0	20850/2510	1:1	0.102	0.047	0.13	21.99	22.50	1.125	0.115	22.1	1.6
			E>	tremity Te	est data(Se	parate 0m	nm)					
Front side	20M_QPSK 1RB_0	20850/2510	1:1	0.493	0.201	-0.05	21.99	22.5	1.125	0.226	22.1	4
Front side	20M_QPSK 50RB_0	20850/2510	1:1	0.388	0.138	-0.15	21.39	21.5	1.026	0.141	22.1	4
Back side	20M_QPSK 1RB_0	20850/2510	1:1	0.508	0.236	0.02	21.99	22.5	1.125	0.265	22.1	4
Back side	20M_QPSK 50RB_0	20850/2510	1:1	0.427	0.171	-0.04	21.39	21.5	1.026	0.175	22.1	4
Left side	20M_QPSK 1RB_0	20850/2510	1:1	0.523	0.265	0.18	21.99	22.50	1.125	0.298	22.1	4
Left side	20M_QPSK 50RB_0	20850/2510	1:1	0.605	0.236	-0.19	21.39	21.5	1.026	0.242	22.1	4



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8.2.10 SAR Result Of LTE Band 12

	DAK Kesuit Oi i							T				
Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head Tes	t data(1RE	3_0 offset)						
Left cheek	10M_QPSK 1RB_25	23095/707.5	1:1	0.101	0.079	0.12	22.88	23.5	1.153	0.116	22.1	1.6
Left cheek	10M_QPSK 1RB_25	23060/704	1:1	0.092	0.059	-0.19	22.56	23.5	1.242	0.114	22.1	1.6
Left cheek	10M_QPSK 1RB_25	23130/711	1:1	0.087	0.062	0.01	22.77	23.5	1.183	0.103	22.1	1.6
Left cheek	10M_QPSK 25RB_13	23060/704	1:1	0.077	0.053	-0.07	21.99	22.5	1.125	0.086	22.1	1.6
Left tilted	10M_QPSK 1RB_25	23095/707.5	1:1	0.019	0.011	-0.13	22.88	23.5	1.153	0.022	22.1	1.6
Left tilted	10M_QPSK 25RB_13	23060/704	1:1	0.013	0.009	0.08	21.99	22.5	1.125	0.015	22.1	1.6
Right cheek	10M_QPSK 1RB_25	23095/707.5	1:1	0.010	0.005	0.03	22.88	23.5	1.153	0.012	22.1	1.6
Right cheek	10M_QPSK 25RB_13	23060/704	1:1	0.008	0.004	-0.06	21.99	22.5	1.125	0.009	22.1	1.6
Right tilted	10M_QPSK 1RB_25	23095/707.5	1:1	0.007	0.005	0.06	22.88	23.5	1.153	0.009	22.1	1.6
Right tilted	10M_QPSK 25RB_13	23060/704	1:1	0.010	0.006	-0.01	21.99	22.5	1.125	0.011	22.1	1.6
		Hea	d Test da	ta at the w	orst case	with SIM2(1RB_0 offset)					
Left cheek	10M_QPSK 1RB_25	23095/707.5	1:1	0.085	0.066	-0.02	22.88	23.5	1.153	0.098	22.1	1.6
			E	Body Test	data(Sepa	rate 10mm	1)					
Front side	10M_QPSK 1RB_25	23095/707.5	1:1	0.114	0.087	-0.17	22.88	23.5	1.153	0.132	22.1	1.6
Front side	10M_QPSK 25RB_13	23060/704	1:1	0.093	0.066	0.04	21.99	22.5	1.125	0.104	22.1	1.6
Back side	10M_QPSK 1RB_25	23095/707.5	1:1	0.182	0.139	-0.07	22.88	23.5	1.153	0.210	22.1	1.6
Back side	10M_QPSK 1RB_25	23060/704	1:1	0.142	0.116	0.07	22.56	23.5	1.242	0.176	22.1	1.6
Back side	10M_QPSK 1RB_25	23130/711	1:1	0.162	0.119	0.02	22.77	23.5	1.183	0.192	22.1	1.6
Back side	10M_QPSK 25RB_13	23060/704	1:1	0.156	0.110	0.1	21.99	22.5	1.125	0.175	22.1	1.6
Left side	10M_QPSK 1RB_25	23095/707.5	1:1	0.121	0.085	-0.04	22.88	23.5	1.153	0.140	22.1	1.6
Left side	10M_QPSK 25RB_13	23060/704	1:1	0.104	0.072	0.03	21.99	22.5	1.125	0.117	22.1	1.6
Right side	10M_QPSK 1RB_25	23095/707.5	1:1	0.113	0.082	-0.17	22.88	23.5	1.153	0.130	22.1	1.6
Right side	10M_QPSK 25RB_13	23060/704	1:1	0.101	0.072	0.1	21.99	22.5	1.125	0.113	22.1	1.6
Top side	10M_QPSK 1RB_25	23095/707.5	1:1	0.014	0.009	-0.04	22.88	23.5	1.153	0.016	22.1	1.6
Top side	10M_QPSK 25RB_13	23060/704	1:1	0.011	0.007	0.08	21.99	22.5	1.125	0.012	22.1	1.6
Bottom side	10M_QPSK 1RB_25	23095/707.5	1:1	0.088	0.054	0	22.88	23.5	1.153	0.102	22.1	1.6
Bottom side	10M_QPSK 25RB_13	23060/704	1:1	0.079	0.042	0.13	21.99	22.5	1.125	0.089	22.1	1.6
		Body	Test data	at the wo	rst case wi	th SIM2(S	eparate 10mm)				
Back side	10M_QPSK 1RB_25	23095/707.5	1:1	0.142	0.092	-0.1	22.88	23.5	1.153	0.164	22.1	1.6
			Ex	tremity Te	st data(Se	parate 0m	m)					
Front side	10M_QPSK 1RB_25	23095/707.5	1:1	0.550	0.304	-0.17	22.88	23.5	1.153	0.351	22.1	4
Front side	10M_QPSK 25RB_13	23060/704	1:1	0.451	0.229	0.1	21.99	22.5	1.125	0.257	22.1	4
Back side	10M_QPSK 1RB_25	23095/707.5	1:1	0.815	0.468	0.16	22.88	23.5	1.153	0.540	22.1	4
Back side	10M_QPSK 25RB_13	23060/704	1:1	0.725	0.377	0.12	21.99	22.5	1.125	0.424	22.1	4
Left side	10M_QPSK 1RB_25	23095/707.5	1:1	0.559	0.305	-0.02	22.88	23.5	1.153	0.351	22.1	4
Left side	10M_QPSK 25RB_13	23060/704	1:1	0.479	0.257	-0.12	21.99	22.5	1.125	0.289	22.1	4
Bottom side	10M_QPSK 1RB_25	23095/707.5	1:1	0.408	0.189	0.04	22.88	23.5	1.153	0.219	22.1	4
Bottom side	10M_QPSK 25RB_13	23060/704	1:1	0.366	0.153	-0.06	21.99	22.5	1.125	0.172	22.1	4



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8.2.11SAR Result Of LTE Band 13

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head Te	st data(1R	B_0 offset	t)					
Left cheek	10M_QPSK 1RB_0	23230/782	1:1	0.162	0.125	-0.16	22.15	22.5	1.084	0.176	22.1	1.6
Left cheek	10M_QPSK 25RB_13	23230/782	1:1	0.124	0.097	0.1	21.67	22	1.079	0.134	22.1	1.6
Left tilted	10M_QPSK 1RB_0	23230/782	1:1	0.033	0.028	-0.06	22.15	22.5	1.084	0.036	22.1	1.6
Left tilted	10M_QPSK 25RB_13	23230/782	1:1	0.024	0.018	0.17	21.67	22	1.079	0.026	22.1	1.6
Right cheek	10M_QPSK 1RB_0	23230/782	1:1	0.070	0.055	0.16	22.15	22.5	1.084	0.076	22.1	1.6
Right cheek	10M_QPSK 25RB_13	23230/782	1:1	0.057	0.037	0	21.67	22	1.079	0.062	22.1	1.6
Right tilted	10M_QPSK 1RB_0	23230/782	1:1	0.011	0.007	0.17	22.15	22.5	1.084	0.012	22.1	1.6
Right tilted	10M_QPSK 25RB_13	23230/782	1:1	0.018	0.010	0.1	21.67	22	1.079	0.020	22.1	1.6
		Hea	ad Test da	ata at the v	worst case	with SIM2	2(1RB_0 offset)					
Left cheek	10M_QPSK 1RB_0	23230/782	1:1	0.144	0.102	0.16	22.15	22.5	1.084	0.156	22.1	1.6
				Body Test	data(Sepa	arate 10mi	m)					
Front side	10M_QPSK 1RB_0	23230/782	1:1	0.152	0.116	-0.09	22.15	22.5	1.084	0.165	22.1	1.6
Front side	10M_QPSK 25RB_13	23230/782	1:1	0.125	0.108	0.16	21.67	22	1.079	0.135	22.1	1.6
Back side	10M_QPSK 1RB_0	23230/782	1:1	0.238	0.178	-0.06	22.15	22.5	1.084	0.258	22.1	1.6
Back side	10M_QPSK 25RB_13	23230/782	1:1	0.212	0.165	0.05	21.67	22	1.079	0.228	22.1	1.6
Left side	10M_QPSK 1RB_0	23230/782	1:1	0.168	0.119	-0.11	22.15	22.5	1.084	0.182	22.1	1.6
Left side	10M_QPSK 25RB_13	23230/782	1:1	0.141	0.099	0.11	21.67	22	1.079	0.152	22.1	1.6
Right side	10M_QPSK 1RB_0	23230/782	1:1	0.151	0.114	0.11	22.15	22.5	1.084	0.164	22.1	1.6
Right side	10M_QPSK 25RB_13	23230/782	1:1	0.136	0.095	-0.16	21.67	22	1.079	0.147	22.1	1.6
Top side	10M_QPSK 1RB_0	23230/782	1:1	0.016	0.012	0.06	22.15	22.5	1.084	0.018	22.1	1.6
Top side	10M_QPSK 25RB_13	23230/782	1:1	0.015	0.009	-0.02	21.67	22	1.079	0.016	22.1	1.6
Bottom side	10M_QPSK 1RB_0	23230/782	1:1	0.121	0.077	-0.18	22.15	22.5	1.084	0.131	22.1	1.6
Bottom side	10M_QPSK 25RB_13	23230/782	1:1	0.104	0.068	0.14	21.67	22	1.079	0.112	22.1	1.6
		Body	Test dat	a at the wo	orst case v	vith SIM2(Separate 10mm	1)				
Back side	10M_QPSK 1RB_0	23230/782	1:1	0.209	0.167	0.12	22.15	22.5	1.084	0.227	22.1	1.6
			E	xtremity T	est data(S	eparate 0r	nm)					
Front side	10M_QPSK 1RB_0	23230/782	1:1	0.867	0.574	-0.03	22.15	22.5	1.084	0.622	22.1	4
Front side	10M_QPSK 25RB_13	23230/782	1:1	0.704	0.527	-0.03	21.67	22	1.079	0.569	22.1	4
Back side	10M_QPSK 1RB_0	23230/782	1:1	1.33	0.864	0.03	22.15	22.5	1.084	0.937	22.1	4
Back side	10M_QPSK 25RB_13	23230/782	1:1	1.21	0.802	0.07	21.67	22	1.079	0.866	22.1	4
Left side	10M_QPSK 1RB_0	23230/782	1:1	0.964	0.597	-0.11	22.15	22.5	1.084	0.647	22.1	4
Left side	10M_QPSK 25RB_13	23230/782	1:1	0.792	0.489	-0.09	21.67	22	1.079	0.528	22.1	4
Bottom side	10M_QPSK 1RB_0	23230/782	1:1	0.671	0.393	-0.01	22.15	22.5	1.084	0.426	22.1	4
Bottom side	10M_QPSK 25RB_13	23230/782	1:1	0.616	0.336	0.06	21.67	22	1.079	0.363	22.1	4



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8.2.12 SAR Result Of LTE Band 17

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head Te	st data(1R	B_0 offset	t)					
Left cheek	10M_QPSK 1RB_25	23790/710	1:1	0.088	0.062	-0.09	22.98	23	1.005	0.088	22.1	1.6
Left cheek	10M_QPSK 1RB_25	23780/709	1:1	0.065	0.049	0.16	22.44	23	1.138	0.074	22.1	1.6
Left cheek	10M_QPSK 1RB_25	23800/711	1:1	0.072	0.048	0.05	22.64	23	1.086	0.078	22.1	1.6
Left cheek	10M_QPSK 25RB_25	23790/710	1:1	0.065	0.054	-0.05	22.12	22.5	1.091	0.071	22.1	1.6
Left tilted	10M_QPSK 1RB_25	23790/710	1:1	0.016	0.012	0.06	22.98	23	1.005	0.016	22.1	1.6
Left tilted	10M_QPSK 25RB_25	23790/710	1:1	0.01	0.007	-0.03	22.12	22.5	1.091	0.011	22.1	1.6
Right cheek	10M_QPSK 1RB_25	23790/710	1:1	0.036	0.024	0.11	22.98	23	1.005	0.036	22.1	1.6
Right cheek	10M_QPSK 25RB_25	23790/710	1:1	0.032	0.022	0.02	22.12	22.5	1.091	0.035	22.1	1.6
Right tilted	10M_QPSK 1RB_25	23790/710	1:1	0.007	0.004	0.06	22.98	23	1.005	0.007	22.1	1.6
Right tilted	10M_QPSK 25RB_25	23790/710	1:1	0.005	0.002	-0.09	22.12	22.5	1.091	0.005	22.1	1.6
		Hea	ad Test da	ata at the	worst case	with SIM2	2(1RB_0 offset)					
Left cheek	10M_QPSK 1RB_25	23790/710	1:1	0.071	0.039	-0.07	22.98	23	1.005	0.071	22.1	1.6
				Body Test	data(Sep	arate 10m	m)					
Front side	10M_QPSK 1RB_25	23790/710	1:1	0.109	0.083	-0.09	22.98	23	1.005	0.110	22.1	1.6
Front side	10M_QPSK 25RB_25	23790/710	1:1	0.091	0.062	0.14	22.12	22.5	1.091	0.099	22.1	1.6
Back side	10M_QPSK 1RB_25	23790/710	1:1	0.170	0.127	0.01	22.98	23	1.005	0.171	22.1	1.6
Back side	10M_QPSK 1RB_25	23780/709	1:1	0.146	0.087	0.06	22.44	23	1.138	0.166	22.1	1.6
Back side	10M_QPSK 1RB_25	23800/711	1:1	0.152	0.095	-0.1	22.64	23	1.086	0.165	22.1	1.6
Back side	10M_QPSK 25RB_25	23790/710	1:1	0.145	0.106	-0.01	22.12	22.5	1.091	0.159	22.1	1.6
Left side	10M_QPSK 1RB_25	23790/710	1:1	0.118	0.080	0.18	22.98	23	1.005	0.118	22.1	1.6
Left side	10M_QPSK 25RB_25	23790/710	1:1	0.098	0.070	-0.17	22.12	22.5	1.091	0.107	22.1	1.6
Right side	10M_QPSK 1RB_25	23790/710	1:1	0.109	0.078	0.01	22.98	23	1.005	0.109	22.1	1.6
Right side	10M_QPSK 25RB_25	23790/710	1:1	0.099	0.068	-0.01	22.12	22.5	1.091	0.108	22.1	1.6
Top side	10M_QPSK 1RB_25	23790/710	1:1	0.017	0.012	-0.08	22.98	23	1.005	0.017	22.1	1.6
Top side	10M_QPSK 25RB_25	23790/710	1:1	0.015	0.012	0.13	22.12	22.5	1.091	0.016	22.1	1.6
Bottom side	10M_QPSK 1RB_25	23790/710	1:1	0.083	0.053	-0.06	22.98	23	1.005	0.084	22.1	1.6
Bottom side	10M_QPSK 25RB_25	23790/710	1:1	0.079	0.039	0.13	22.12	22.5	1.091	0.086	22.1	1.6
		Body	Test dat	a at the wo	orst case v	ith SIM2(Separate 10mm	1)				
Back side	10M_QPSK 1RB_25	23790/710	1:1	0.152	0.111	0.07	22.98	23	1.005	0.153	22.1	1.6
			E	xtremity T	est data(S	eparate 0r	mm)					
Front side	10M_QPSK 1RB_25	23790/710	1:1	0.617	0.402	-0.12	22.98	23	1.005	0.404	22.1	4
Front side	10M_QPSK 25RB_25	23790/710	1:1	0.534	0.309	0.18	22.12	22.5	1.091	0.337	22.1	4
Back side	10M_QPSK 1RB_25	23790/710	1:1	0.841	0.549	-0.04	22.98	23	1.005	0.552	22.1	4
Back side	10M_QPSK 25RB_25	23790/710	1:1	0.833	0.505	-0.15	22.12	22.5	1.091	0.551	22.1	4
Left side	10M_QPSK 1RB_25	23790/710	1:1	0.657	0.396	0.04	22.98	23	1.005	0.398	22.1	4
Left side	10M_QPSK 25RB_25	23790/710	1:1	0.575	0.347	-0.11	22.12	22.5	1.091	0.378	22.1	4
Bottom side	10M_QPSK 1RB_25	23790/710	1:1	0.490	0.270	0.1	22.98	23	1.005	0.272	22.1	4
Bottom side	10M_QPSK 25RB_25	23790/710	1:1	0.440	0.202	0.12	22.12	22.5	1.091	0.221	22.1	4



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8.2.13 SAR Result Of LTE Band 26

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head Tes	t data(1RE	3_0 offset)						
Left cheek	15M_QPSK 1RB_0	26965/841.5	1:1	0.243	0.183	-0.18	22.83	23.5	1.167	0.284	22.1	1.6
Left cheek	15M_QPSK 1RB_0	26775/822.5	1:1	0.217	0.157	0.04	22.5	23.5	1.259	0.273	22.1	1.6
Left cheek	15M_QPSK 1RB_0	26865/831.5	1:1	0.231	0.163	0.02	22.67	23.5	1.211	0.280	22.1	1.6
Left cheek	15M_QPSK 36RB_39	26865/831.5	1:1	0.180	0.143	0.1	22.05	23	1.245	0.224	22.1	1.6
Left tilted	15M_QPSK 1RB_0	26965/841.5	1:1	0.047	0.029	-0.13	22.83	23.5	1.167	0.055	22.1	1.6
Left tilted	15M_QPSK 36RB_39	26865/831.5	1:1	0.032	0.031	-0.06	22.05	23	1.245	0.039	22.1	1.6
Right cheek	15M_QPSK 1RB_0	26965/841.5	1:1	0.100	0.082	0.05	22.83	23.5	1.167	0.117	22.1	1.6
Right cheek	15M_QPSK 36RB_39	26865/831.5	1:1	0.084	0.066	0.17	22.05	23	1.245	0.105	22.1	1.6
Right tilted	15M_QPSK 1RB_0	26965/841.5	1:1	0.022	0.017	0.06	22.83	23.5	1.167	0.026	22.1	1.6
Right tilted	15M_QPSK 36RB_39	26865/831.5	1:1	0.026	0.019	0.07	22.05	23	1.245	0.032	22.1	1.6
		Hea	d Test da	ta at the w	orst case	with SIM2	(1RB_0 offset)					
Left cheek	15M_QPSK 1RB_0	26965/841.5	1:1	0.221	0.162	0.01	22.83	23.5	1.167	0.258	22.1	1.6
			E	Body Test	data(Sepa	rate 10mm	٦)					
Front side	15M_QPSK 1RB_0	26965/841.5	1:1	0.178	0.123	-0.12	22.83	23.5	1.167	0.207	22.1	1.6
Front side	15M_QPSK 36RB_39	26865/831.5	1:1	0.143	0.113	-0.01	22.05	23	1.245	0.177	22.1	1.6
Back side	15M_QPSK 1RB_0	26965/841.5	1:1	0.277	0.193	-0.06	22.83	23.5	1.167	0.324	22.1	1.6
Back side	15M_QPSK 1RB_0	26775/822.5	1:1	0.254	0.141	0.07	22.5	23.5	1.259	0.320	22.1	1.6
Back side	15M_QPSK 1RB_0	26865/831.5	1:1	0.262	0.168	0.13	22.67	23.5	1.211	0.317	22.1	1.6
Back side	15M_QPSK 36RB_39	26865/831.5	1:1	0.247	0.175	0.07	22.05	23	1.245	0.307	22.1	1.6
Left side	15M_QPSK 1RB_0	26965/841.5	1:1	0.193	0.129	-0.09	22.83	23.5	1.167	0.225	22.1	1.6
Left side	15M_QPSK 36RB_39	26865/831.5	1:1	0.161	0.107	-0.06	22.05	23	1.245	0.200	22.1	1.6
Right side	15M_QPSK 1RB_0	26965/841.5	1:1	0.176	0.117	-0.17	22.83	23.5	1.167	0.206	22.1	1.6
Right side	15M_QPSK 36RB_39	26865/831.5	1:1	0.160	0.105	0.11	22.05	23	1.245	0.199	22.1	1.6
Top side	15M_QPSK 1RB_0	26965/841.5	1:1	0.017	0.015	0.16	22.83	23.5	1.167	0.020	22.1	1.6
Top side	15M_QPSK 36RB_39	26865/831.5	1:1	0.019	0.012	0.15	22.05	23	1.245	0.024	22.1	1.6
Bottom side	15M_QPSK 1RB_0	26965/841.5	1:1	0.141	0.080	-0.13	22.83	23.5	1.167	0.165	22.1	1.6
Bottom side	15M_QPSK 36RB_39	26865/831.5	1:1	0.124	0.064	0.19	22.05	23	1.245	0.154	22.1	1.6
		Body	Test data	at the wo	rst case wi	ith SIM2(S	eparate 10mm)	T	1		
Back side	15M_QPSK 1RB_0	26965/841.5	1:1	0.247	0.163	-0.08	22.83	23.5	1.167	0.288	22.1	1.6
Frank aida	45M ODCK 4DD 0	20005/044.5		tremity Te	`	·		22.5	4.407	0.705	20.4	
Front side Front side	15M_QPSK 1RB_0 15M_QPSK 36RB_39	26965/841.5 26865/831.5	1:1 1:1	1.016 0.810	0.605 0.561	0.16 0.01	22.83 22.05	23.5	1.167 1.245	0.705 0.698	22.1 22.1	4
Back side	15M_QPSK 36RB_39 15M_QPSK 1RB_0	26965/841.5	1:1	1.35	0.826	-0.04	22.83	23.5	1.245	0.698	22.1	4
Back side	15M QPSK 1RB_0	26865/831.5	1:1	1.160	0.826	0.09	22.83	23.5	1.167	0.943	22.1	4
			1:1	1.160			22.05	23.5		0.943	22.1	4
Left side Left side	15M_QPSK 1RB_0 15M_QPSK 36RB_39	26965/841.5 26865/831.5	1:1	0.893	0.618 0.522	-0.01 0.03	22.83	23.5	1.167 1.245	0.721	22.1	4
Bottom side	15M_QPSK 36RB_39 15M_QPSK 1RB_0	26965/841.5	1:1	0.893	0.522	-0.12	22.83	23.5	1.245	0.650	22.1	4
Bottom side	15M QPSK 1RB_0	26865/831.5	1:1	0.796	0.416	0.16	22.83	23.5	1.167	0.485	22.1	4
DOLLOTTI SIDE	101VI_QFON 30KB_39	20000/031.5	1.1	0.696	0.314	0.16	22.05	23	1.245	0.391	ZZ. I	4



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8.2.14 SAR Result Of LTE Band 38

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
			•	Head Te	st data(1R	B_0 offse	t)		•	•	•	
Left cheek	20M_QPSK 1RB_50	37850/2580	1:1	0.28	0.136	0.07	21.98	22.5	1.127	0.316	22.1	1.6
Left cheek	20M_QPSK 50RB_0	37850/2580	1:1	0.242	0.122	0.1	21.04	22	1.247	0.302	22.1	1.6
Left tilted	20M_QPSK 1RB_50	37850/2580	1:1	0.098	0.053	0.05	21.98	22.5	1.127	0.110	22.1	1.6
Left tilted	20M_QPSK 50RB_0	37850/2580	1:1	0.082	0.041	-0.03	21.04	22	1.247	0.102	22.1	1.6
Right cheek	20M_QPSK 1RB_50	37850/2580	1:1	0.952	0.449	0.06	21.98	22.5	1.127	1.073	22.1	1.6
Right cheek	20M_QPSK 1RB_50	38000/2595	1:1	0.963	0.452	-0.04	21.85	22.5	1.161	1.118	22.1	1.6
Right cheek	20M_QPSK 1RB_50	38150/2610	1:1	0.955	0.437	-0.12	21.83	22.5	1.167	1.114	22.1	1.6
Right cheek	20M_QPSK 50RB_0	37850/2580	1:1	0.811	0.421	0.09	21.04	22	1.247	1.012	22.1	1.6
Right tilted	20M_QPSK 1RB_50	37850/2580	1:1	0.386	0.203	0.06	21.98	22.5	1.127	0.435	22.1	1.6
Right tilted	20M_QPSK 50RB_0	37850/2580	1:1	0.332	0.172	0.02	21.04	22	1.247	0.414	22.1	1.6
		Hea	ad Test da	ata at the	worst case	with SIM2	2(1RB_0 offset)					
Right cheek	20M_QPSK 1RB_50	38000/2595	1:1	0.792	0.407	0.05	21.85	22.5	1.161	0.920	22.1	1.6
			•	Body Test	data(Sep	arate 10m	m)	•	•	•		
Front side	20M_QPSK 1RB_50	37850/2580	1:1	0.271	0.143	-0.04	21.98	22.5	1.127	0.305	22.1	1.6
Front side	20M_QPSK 50RB_0	37850/2580	1:1	0.241	0.129	-0.11	21.04	22	1.247	0.301	22.1	1.6
Back side	20M_QPSK 1RB_50	37850/2580	1:1	0.278	0.148	0.08	21.98	22.5	1.127	0.313	22.1	1.6
Back side	20M_QPSK 50RB_0	37850/2580	1:1	0.257	0.131	0.05	21.04	22	1.247	0.321	22.1	1.6
Left side	20M_QPSK 1RB_50	37850/2580	1:1	0.358	0.172	0.07	21.98	22.5	1.127	0.404	22.1	1.6
Left side	20M_QPSK 1RB_50	38000/2595	1:1	0.377	0.174	-0.18	21.85	22.5	1.161	0.438	22.1	1.6
Left side	20M_QPSK 1RB_50	38150/2610	1:1	0.361	0.164	0.13	21.83	22.5	1.167	0.421	22.1	1.6
Left side	20M_QPSK 50RB_0	37850/2580	1:1	0.339	0.161	0.07	21.04	22	1.247	0.423	22.1	1.6
Right side	20M_QPSK 1RB_50	37850/2580	1:1	0.018	0.009	0.17	21.98	22.5	1.127	0.021	22.1	1.6
Right side	20M_QPSK 50RB_0	37850/2580	1:1	0.011	0.005	-0.17	21.04	22	1.247	0.014	22.1	1.6
Top side	20M_QPSK 1RB_50	37850/2580	1:1	0.074	0.041	-0.03	21.98	22.5	1.127	0.083	22.1	1.6
Top side	20M_QPSK 50RB_0	37850/2580	1:1	0.052	0.031	0.04	21.04	22	1.247	0.065	22.1	1.6
Bottom side	20M_QPSK 1RB_50	37850/2580	1:1	0.007	0.004	0.11	21.98	22.5	1.127	0.008	22.1	1.6
Bottom side	20M_QPSK 50RB_0	37850/2580	1:1	0.006	0.003	0.16	21.04	22	1.247	0.007	22.1	1.6
		Body	Test dat	a at the wo	orst case v	vith SIM2(Separate 10mn	า)				
Left side	20M_QPSK 1RB_50	38000/2595	1:1	0.318	0.137	-0.13	21.85	22.5	1.161	0.369	22.1	1.6
			E	xtremity T	est data(S	eparate 0r	mm)					
Front side	20M_QPSK 1RB_50	37850/2580	1:1	1.54	0.683	-0.01	21.98	22.5	1.127	0.770	22.1	4
Front side	20M_QPSK 50RB_0	37850/2580	1:1	1.35	0.614	-0.15	21.04	22	1.247	0.766	22.1	4
Back side	20M_QPSK 1RB_50	37850/2580	1:1	1.57	0.659	-0.08	21.98	22.5	1.127	0.743	22.1	4
Back side	20M_QPSK 50RB_0	37850/2580	1:1	1.46	0.614	0.14	21.04	22	1.247	0.766	22.1	4
Left side	20M_QPSK 1RB_50	37850/2580	1:1	1.82	0.649	0.06	21.98	22.5	1.127	0.732	22.1	4
Left side	20M_QPSK 1RB_50	38000/2595	1:1	1.72	0.679	0.04	21.85	22.5	1.161	0.789	22.1	4
Left side	20M_QPSK 50RB_0	37850/2580	1:1	1.53	0.613	0.09	21.04	22	1.247	0.765	22.1	4



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8.2.15 SAR Result Of LTE Band 40a

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
		•		Head Te	st data(1R	B_0 offset	t)	, , ,				
Left cheek	10M_QPSK 1RB_25	38750/2310	1:1	0.368	0.161	0.12	22.08	22.5	1.102	0.405	22.1	1.6
Left cheek	10M_QPSK 25RB_0	38750/2310	1:1	0.280	0.129	-0.04	21.11	21.5	1.094	0.306	22.1	1.6
Left tilted	10M_QPSK 1RB_25	38750/2310	1:1	0.068	0.033	0.13	22.08	22.5	1.102	0.075	22.1	1.6
Left tilted	10M_QPSK 25RB_0	38750/2310	1:1	0.042	0.025	-0.09	21.11	21.5	1.094	0.046	22.1	1.6
Right cheek	10M_QPSK 1RB_25	38750/2310	1:1	0.148	0.073	0.16	22.08	22.5	1.102	0.163	22.1	1.6
Right cheek	10M_QPSK 25RB_0	38750/2310	1:1	0.120	0.061	0.12	21.11	21.5	1.094	0.131	22.1	1.6
Right tilted	10M_QPSK 1RB_25	38750/2310	1:1	0.035	0.020	-0.15	22.08	22.5	1.102	0.039	22.1	1.6
Right tilted	10M_QPSK 25RB_0	38750/2310	1:1	0.025	0.010	0.13	21.11	21.5	1.094	0.027	22.1	1.6
		Hea	ad Test da	ata at the	worst case	with SIM2	2(1RB_0 offset)					
Left cheek	10M_QPSK 1RB_25	38750/2310	1:1	0.341	0.144	-0.07	22.08	22.5	1.102	0.376	22.1	1.6
				Body Test	data(Sep	arate 10m	m)					
Front side	10M_QPSK 1RB_25	38750/2310	1:1	0.145	0.073	-0.12	22.08	22.5	1.102	0.159	22.1	1.6
Front side	10M_QPSK 25RB_0	38750/2310	1:1	0.117	0.054	0.08	21.11	21.5	1.094	0.128	22.1	1.6
Back side	10M_QPSK 1RB_25	38750/2310	1:1	0.153	0.078	0.01	22.08	22.5	1.102	0.168	22.1	1.6
Back side	10M_QPSK 25RB_0	38750/2310	1:1	0.121	0.055	0.05	21.11	21.5	1.094	0.133	22.1	1.6
Left side	10M_QPSK 1RB_25	38750/2310	1:1	0.197	0.096	0.03	22.08	22.5	1.102	0.217	22.1	1.6
Left side	10M_QPSK 25RB_0	38750/2310	1:1	0.176	0.082	0.02	21.11	21.5	1.094	0.193	22.1	1.6
Right side	10M_QPSK 1RB_25	38750/2310	1:1	0.018	0.013	0.1	22.08	22.5	1.102	0.020	22.1	1.6
Right side	10M_QPSK 25RB_0	38750/2310	1:1	0.019	0.010	0.09	21.11	21.5	1.094	0.020	22.1	1.6
Top side	10M_QPSK 1RB_25	38750/2310	1:1	0.036	0.017	-0.14	22.08	22.5	1.102	0.040	22.1	1.6
Top side	10M_QPSK 25RB_0	38750/2310	1:1	0.028	0.019	0.09	21.11	21.5	1.094	0.030	22.1	1.6
Bottom side	10M_QPSK 1RB_25	38750/2310	1:1	0.032	0.020	-0.09	22.08	22.5	1.102	0.036	22.1	1.6
Bottom side	10M_QPSK 25RB_0	38750/2310	1:1	0.034	0.020	-0.06	21.11	21.5	1.094	0.037	22.1	1.6
		Body	Test dat	a at the wo	orst case v	vith SIM2(Separate 10mm	n)				
Left side	10M_QPSK 1RB_25	38750/2310	1:1	0.172	0.081	0.02	22.08	22.5	1.102	0.189	22.1	1.6
	T	T	E	xtremity T	est data(S	eparate 0r	mm)	T	T	T	T	
Front side	10M_QPSK 1RB_25	38750/2310	1:1	0.811	0.365	-0.02	22.08	22.5	1.102	0.402	22.1	4
Front side	10M_QPSK 25RB_0	38750/2310	1:1	0.655	0.267	-0.1	21.11	21.5	1.094	0.292	22.1	4
Back side	10M_QPSK 1RB_25	38750/2310	1:1	0.849	0.391	-0.07	22.08	22.5	1.102	0.430	22.1	4
Back side	10M_QPSK 25RB_0	38750/2310	1:1	0.708	0.291	-0.01	21.11	21.5	1.094	0.319	22.1	4
Left side	10M_QPSK 1RB_25	38750/2310	1:1	0.894	0.397	-0.03	22.08	22.5	1.102	0.437	22.1	4
Left side	10M_QPSK 25RB_0	38750/2310	1:1	0.981	0.393	0.16	21.11	21.5	1.094	0.430	22.1	4



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8.2.16 SAR Result Of LTE Band 40b

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head Tes	t data(1RI	B_0 offset)					
Left cheek	10M_QPSK 1RB_49	39200/2355	1:1	0.425	0.183	0.02	22.19	22.5	1.074	0.456	22.1	1.6
Left cheek	10M_QPSK 25RB_25	39200/2355	1:1	0.319	0.145	0.05	21.27	21.5	1.054	0.336	22.1	1.6
Left tilted	10M_QPSK 1RB_49	39200/2355	1:1	0.077	0.040	-0.1	22.19	22.5	1.074	0.083	22.1	1.6
Left tilted	10M_QPSK 25RB_25	39200/2355	1:1	0.052	0.029	0.06	21.27	21.5	1.054	0.055	22.1	1.6
Right cheek	10M_QPSK 1RB_49	39200/2355	1:1	0.177	0.079	0.05	22.19	22.5	1.074	0.190	22.1	1.6
Right cheek	10M_QPSK 25RB_25	39200/2355	1:1	0.142	0.067	0.15	21.27	21.5	1.054	0.149	22.1	1.6
Right tilted	10M_QPSK 1RB_49	39200/2355	1:1	0.044	0.020	-0.09	22.19	22.5	1.074	0.048	22.1	1.6
Right tilted	10M_QPSK 25RB_25	39200/2355	1:1	0.025	0.012	-0.05	21.27	21.5	1.054	0.026	22.1	1.6
		Hea	d Test da	ita at the w	orst case	with SIM2	(1RB_0 offset)					
Left cheek	10M_QPSK 1RB_49	39200/2355	1:1	0.387	0.152	0.1	22.19	22.5	1.074	0.416	22.1	1.6
			l	Body Test	data(Sepa	rate 10mn	n)					
Front side	10M_QPSK 1RB_49	39200/2355	1:1	0.162	0.085	-0.18	22.19	22.5	1.074	0.174	22.1	1.6
Front side	10M_QPSK 25RB_25	39200/2355	1:1	0.144	0.064	-0.05	21.27	21.5	1.054	0.152	22.1	1.6
Back side	10M_QPSK 1RB_49	39200/2355	1:1	0.163	0.084	-0.09	22.19	22.5	1.074	0.175	22.1	1.6
Back side	10M_QPSK 25RB_25	39200/2355	1:1	0.142	0.063	-0.19	21.27	21.5	1.054	0.150	22.1	1.6
Left side	10M_QPSK 1RB_49	39200/2355	1:1	0.231	0.118	0.05	22.19	22.5	1.074	0.248	22.1	1.6
Left side	10M_QPSK 25RB_25	39200/2355	1:1	0.197	0.102	-0.15	21.27	21.5	1.054	0.208	22.1	1.6
Right side	10M_QPSK 1RB_49	39200/2355	1:1	0.020	0.010	-0.13	22.19	22.5	1.074	0.021	22.1	1.6
Right side	10M_QPSK 25RB_25	39200/2355	1:1	0.017	0.006	-0.08	21.27	21.5	1.054	0.018	22.1	1.6
Top side	10M_QPSK 1RB_49	39200/2355	1:1	0.041	0.023	0.14	22.19	22.5	1.074	0.044	22.1	1.6
Top side	10M_QPSK 25RB_25	39200/2355	1:1	0.031	0.016	0.09	21.27	21.5	1.054	0.033	22.1	1.6
Bottom side	10M_QPSK 1RB_49	39200/2355	1:1	0.044	0.018	-0.01	22.19	22.5	1.074	0.047	22.1	1.6
Bottom side	10M_QPSK 25RB_25	39200/2355	1:1	0.042	0.016	0.08	21.27	21.5	1.054	0.044	22.1	1.6
		Body	Test data	at the wo	rst case w	ith SIM2(S	Separate 10mm)	1	1		
Left side	10M_QPSK 1RB_49	39200/2355	1:1	0.192	0.105	-0.13	22.19	22.5	1.074	0.206	22.1	1.6
			E	ktremity Te	est data(Se	parate 0m	nm)					
Front side	10M_QPSK 1RB_49	39200/2355	1:1	0.902	0.407	-0.12	22.19	22.5	1.074	0.437	22.1	4
Front side	10M_QPSK 25RB_25	39200/2355	1:1	0.826	0.311	-0.05	21.27	21.5	1.054	0.328	22.1	4
Back side	10M_QPSK 1RB_49	39200/2355	1:1	0.942	0.402	0.02	22.19	22.5	1.074	0.432	22.1	4
Back side	10M_QPSK 25RB_25	39200/2355	1:1	0.794	0.314	-0.12	21.27	21.5	1.054	0.331	22.1	4
Left side	10M_QPSK 1RB_49	39200/2355	1:1	0.978	0.514	0.01	22.19	22.5	1.074	0.552	22.1	4
Left side	10M_QPSK 25RB_25	39200/2355	1:1	1.108	0.518	0.13	21.27	21.5	1.054	0.546	22.1	4



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8.2.17 SAR Result Of LTE Band 41

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head Test	data(1RB	_0 offset)						
Left cheek	20M_QPSK 1RB_0	41490/2680	1:1	0.103	0.055	-0.14	15.31	16	1.172	0.121	22.1	1.6
Left cheek	20M_QPSK 50RB_0	40620/2593	1:1	0.090	0.051	0.05	14.8	16	1.318	0.118	22.1	1.6
Left tilted	20M_QPSK 1RB_0	41490/2680	1:1	0.030	0.019	-0.13	15.31	16	1.172	0.035	22.1	1.6
Left tilted	20M_QPSK 50RB_0	40620/2593	1:1	0.027	0.016	0.07	14.8	16	1.318	0.036	22.1	1.6
Right cheek	20M_QPSK 1RB_0	41490/2680	1:1	0.269	0.124	-0.18	15.31	16	1.172	0.315	22.1	1.6
Right cheek	20M_QPSK 1RB_0	39750/2506	1:1	0.241	0.116	-0.15	15.01	16	1.256	0.303	22.1	1.6
Right cheek	20M_QPSK 1RB_0	40185/2549.5	1:1	0.250	0.122	0.19	15.01	16	1.256	0.314	22.1	1.6
Right cheek	20M_QPSK 1RB_0	40620/2593	1:1	0.237	0.119	-0.03	14.99	16	1.262	0.299	22.1	1.6
Right cheek	20M_QPSK 1RB_0	41055/2636.5	1:1	0.249	0.118	0.12	15.07	16	1.239	0.308	22.1	1.6
Right cheek	20M_QPSK 50RB_0	40620/2593	1:1	0.231	0.117	-0.04	14.8	16	1.318	0.305	22.1	1.6
Right tilted	20M_QPSK 1RB_0	41490/2680	1:1	0.113	0.059	-0.19	15.31	16	1.172	0.132	22.1	1.6
Right tilted	20M_QPSK 50RB_0	40620/2593	1:1	0.098	0.051	-0.03	14.8	16	1.318	0.129	22.1	1.6
		Head	l Test dat	a at the wo	orst case v	with SIM2(1RB_0 offset)					
Right cheek	20M_QPSK 1RB_0	41490/2680	1:1	0.241	0.115	-0.19	15.31	16	1.172	0.282	22.1	1.6
			В	ody Test o	data(Separ	ate 10mm)					
Front side	20M_QPSK 1RB_0	41490/2680	1:1	0.376	0.193	-0.14	15.31	16	1.172	0.440	22.1	1.6
Front side	20M_QPSK 50RB_0	40620/2593	1:1	0.330	0.186	0.05	14.8	16	1.318	0.435	22.1	1.6
Back side	20M_QPSK 1RB_0	41490/2680	1:1	0.380	0.209	-0.13	15.31	16	1.172	0.445	22.1	1.6
Back side	20M_QPSK 50RB_0	40620/2593	1:1	0.357	0.171	0.07	14.8	16	1.318	0.471	22.1	1.6
Left side	20M_QPSK 1RB_0	41490/2680	1:1	0.511	0.235	-0.18	15.31	16	1.172	0.599	22.1	1.6
Left side	20M_QPSK 1RB_0	39750/2506	1:1	0.469	0.215	-0.15	15.01	16	1.256	0.589	22.1	1.6
Left side	20M_QPSK 1RB_0	40185/2549.5	1:1	0.474	0.229	0.19	15.01	16	1.256	0.595	22.1	1.6
Left side	20M_QPSK 1RB_0	40620/2593	1:1	0.462	0.212	-0.03	14.99	16	1.262	0.583	22.1	1.6
Left side	20M_QPSK 1RB_0	41055/2636.5	1:1	0.479	0.226	0.12	15.07	16	1.239	0.593	22.1	1.6
Left side	20M_QPSK 50RB_0	40620/2593	1:1	0.452	0.205	-0.04	14.8	16	1.318	0.596	22.1	1.6
Right side	20M_QPSK 1RB_0	41490/2680	1:1	0.036	0.019	-0.19	15.31	16	1.172	0.042	22.1	1.6
Right side	20M_QPSK 50RB_0	40620/2593	1:1	0.026	0.021	-0.03	14.8	16	1.318	0.035	22.1	1.6
Top side	20M_QPSK 1RB_0	41490/2680	1:1	0.101	0.059	0.1	15.31	16	1.172	0.118	22.1	1.6
Top side	20M_QPSK 50RB_0	40620/2593	1:1	0.090	0.059	-0.14	14.8	16	1.318	0.119	22.1	1.6
Bottom side	20M_QPSK 1RB_0	41490/2680	1:1	0.021	0.014	-0.02	15.31	16	1.172	0.024	22.1	1.6
Bottom side	20M_QPSK 50RB_0	40620/2593	1:1	0.020	0.008	0.18	14.8	16	1.318	0.026	22.1	1.6
		Body ⁻	Γest data	at the wor	st case wi	th SIM2(S	eparate 10mm)					
Left side	20M_QPSK 1RB_0	41490/2680	1:1	0.475	0.221	0.14	15.31	16	1.172	0.557	22.1	1.6
Front side	20M_QPSK 1RB_0	41490/2680		tremity Tes 2.10	0.931	-0.02	15.31	16	1.172	1.002	22.1	4
Front side	20M_QPSK 50RB_0	40620/2593	1:1	1.84	0.931	-0.02	14.8	16	1.172	1.092 1.195	22.1	4
Back side	20M_QPSK 1RB_0	41490/2680	1:1	2.14	1.01	0.12	15.31	16	1.172	1.195	22.1	4
Back side	20M_QPSK 50RB_0	40620/2593	1:1	2.14	0.835	0.12	14.8	16	1.172		22.1	4
Left side	20M_QPSK 1RB_0	41490/2680	1:1	2.58	1.12	0.04	15.31	16	1.172	1.101 1.313	22.1	4
Left side	20M QPSK 50RB 0	40620/2593	1:1	2.53	0.982	-0.13	14.8	16	1.172	1.295	22.1	4
Leit side	ZUNI_QF JN JUND_U	40020/2083	1.1	l	f (Separat		14.0	10	1.310	1.230	۷۷.۱	- +



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Front side	20M_QPSK 1RB_0	41490/2680	1:1	0.217	0.124	0.02	23.22	23.5	1.067	0.231	22.1	1.6
Front side	20M_QPSK 50RB_0	40620/2593	1:1	0.203	0.109	-0.06	22.74	23	1.062	0.216	22.1	1.6
Back side	20M_QPSK 1RB_0	41490/2680	1:1	0.222	0.131	0.17	23.22	23.5	1.067	0.237	22.1	1.6
Back side	20M_QPSK 50RB_0	40620/2593	1:1	0.218	0.117	0.11	22.74	23	1.062	0.231	22.1	1.6



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8.2.18 SAR Result Of LTE Band 42

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head Te	st data(1R	B_0 offse	t)	, , ,		•	•	
Left cheek	20M_QPSK 1RB_50	41690/3410	1:1	0.149	0.071	-0.04	22.24	23	1.191	0.178	22.1	1.6
Left cheek	20M_QPSK 50RB_0	41690/3410	1:1	0.134	0.066	-0.13	21.39	22	1.151	0.154	22.1	1.6
Left tilted	20M_QPSK 1RB_50	41690/3410	1:1	0.044	0.021	-0.18	22.24	23	1.191	0.052	22.1	1.6
Left tilted	20M_QPSK 50RB_0	41690/3410	1:1	0.035	0.017	-0.03	21.39	22	1.151	0.040	22.1	1.6
Right cheek	20M_QPSK 1RB_50	41690/3410	1:1	0.406	0.172	-0.07	22.24	23	1.191	0.484	22.1	1.6
Right cheek	20M_QPSK 1RB_50	42590/3500	1:1	0.375	0.162	0.01	21.95	23	1.274	0.478	22.1	1.6
Right cheek	20M_QPSK 1RB_50	42990/3540	1:1	0.381	0.159	-0.14	21.97	23	1.268	0.483	22.1	1.6
Right cheek	20M_QPSK 50RB_0	41690/3410	1:1	0.343	0.161	-0.02	21.39	22	1.151	0.394	22.1	1.6
Right tilted	20M_QPSK 1RB_50	41690/3410	1:1	0.164	0.080	-0.11	22.24	23	1.191	0.195	22.1	1.6
Right tilted	20M_QPSK 50RB_0	41690/3410	1:1	0.143	0.068	-0.16	21.39	22	1.151	0.164	22.1	1.6
	•	Hea	ad Test da	ata at the	worst case	with SIM2	2(1RB_0 offset)	•	•	•	•	
Right cheek	20M_QPSK 1RB_50	41690/3410	1:1	0.363	0.152	-0.12	22.24	23	1.191	0.432	22.1	1.6
	•			Body Test	data(Sep	arate 10m	m)	•	•	•	•	
Front side	20M_QPSK 1RB_50	41690/3410	1:1	0.183	0.086	-0.12	22.24	23	1.191	0.218	22.1	1.6
Front side	20M_QPSK 50RB_0	41690/3410	1:1	0.165	0.081	-0.07	21.39	22	1.151	0.190	22.1	1.6
Back side	20M_QPSK 1RB_50	41690/3410	1:1	0.189	0.092	0.1	22.24	23	1.191	0.225	22.1	1.6
Back side	20M_QPSK 50RB_0	41690/3410	1:1	0.177	0.080	0.05	21.39	22	1.151	0.203	22.1	1.6
Left side	20M_QPSK 1RB_50	41690/3410	1:1	0.253	0.110	0.03	22.24	23	1.191	0.301	22.1	1.6
Left side	20M_QPSK 1RB_50	42590/3500	1:1	0.231	0.094	0.16	21.95	23	1.274	0.294	22.1	1.6
Left side	20M_QPSK 1RB_50	42990/3540	1:1	0.236	0.103	0.07	21.97	23	1.268	0.299	22.1	1.6
Left side	20M_QPSK 50RB_0	41690/3410	1:1	0.232	0.099	0.06	21.39	22	1.151	0.267	22.1	1.6
Right side	20M_QPSK 1RB_50	41690/3410	1:1	0.014	0.006	-0.14	22.24	23	1.191	0.016	22.1	1.6
Right side	20M_QPSK 50RB_0	41690/3410	1:1	0.010	0.004	0.07	21.39	22	1.151	0.012	22.1	1.6
Top side	20M_QPSK 1RB_50	41690/3410	1:1	0.050	0.026	-0.09	22.24	23	1.191	0.060	22.1	1.6
Top side	20M_QPSK 50RB_0	41690/3410	1:1	0.038	0.021	-0.18	21.39	22	1.151	0.044	22.1	1.6
Bottom side	20M_QPSK 1RB_50	41690/3410	1:1	0.008	0.003	-0.02	22.24	23	1.191	0.010	22.1	1.6
Bottom side	20M_QPSK 50RB_0	41690/3410	1:1	0.005	0.003	0	21.39	22	1.151	0.006	22.1	1.6
		Body	Test dat	a at the wo	orst case v	vith SIM2(Separate 10mn	n)	•	•		•
Left side	20M_QPSK 1RB_50	41690/3410	1:1	0.221	0.094	-0.09	22.24	23	1.191	0.263	22.1	1.6
	-		E:	xtremity To	est data (S	Separate 0	mm)			•	•	
Front side	20M_QPSK 1RB_50	41690/3410	1:1	1.06	0.432	0.15	22.24	23	1.191	0.514	22.1	4
Front side	20M_QPSK 50RB_0	41690/3410	1:1	0.927	0.400	-0.01	21.39	22	1.151	0.460	22.1	4
Back side	20M_QPSK 1RB_50	41690/3410	1:1	1.07	0.441	0.13	22.24	23	1.191	0.525	22.1	4
Back side	20M_QPSK 50RB_0	41690/3410	1:1	0.981	0.392	0.15	21.39	22	1.151	0.452	22.1	4
Left side	20M_QPSK 1RB_50	41690/3410	1:1	1.25	0.453	0.12	22.24	23	1.191	0.540	22.1	4
Left side	20M_QPSK 50RB_0	41690/3410	1:1	1.11	0.445	-0.01	21.39	22	1.151	0.512	22.1	4



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8.2.19 SAR Result Of LTE Band 48

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head Tes	t data(1RI	B_0 offset)		•		•	
Left cheek	20M_QPSK 1RB_99	55340/3630	1:1	0.230	0.116	-0.17	20.64	21	1.086	0.250	22.1	1.6
Left cheek	20M_QPSK 50RB_25	56640/3760	1:1	0.214	0.095	0.13	18.73	19	1.064	0.228	22.1	1.6
Left tilted	20M_QPSK 1RB_99	55340/3630	1:1	0.095	0.043	0.12	20.64	21	1.086	0.104	22.1	1.6
Left tilted	20M_QPSK 50RB_25	56640/3760	1:1	0.080	0.037	-0.13	18.73	19	1.064	0.086	22.1	1.6
Right cheek	20M_QPSK 1RB_99	55340/3630	1:1	0.881	0.360	0.18	20.64	21	1.086	0.957	22.1	1.6
Right cheek	20M_QPSK 1RB_99	55990/3625	1:1	0.811	0.322	0.06	19.49	21	1.416	1.148	22.1	1.6
Right cheek	20M_QPSK 1RB_99	56640/3760	1:1	0.857	0.349	0.18	19.69	21	1.352	1.159	22.1	1.6
Right cheek	20M_QPSK 50RB_25	56640/3760	1:1	0.744	0.319	0.1	18.73	19	1.064	0.792	22.1	1.6
Right tilted	20M_QPSK 1RB_99	55340/3630	1:1	0.357	0.166	0.02	20.64	21	1.086	0.388	22.1	1.6
Right tilted	20M_QPSK 50RB_25	56640/3760	1:1	0.310	0.141	-0.09	18.73	19	1.064	0.330	22.1	1.6
		Hea	d Test da	ta at the w	orst case	with SIM2	(1RB_0 offset)		•	•	•	
Right cheek	20M_QPSK 1RB_50	56640/3760	1:1	0.821	0.327	0.11	19.69	21	1.352	1.110	22.1	1.6
				Body Test	data(Sepa	rate 10mn	n)		•	•	•	
Front side	20M_QPSK 1RB_99	55340/3630	1:1	0.201	0.094	-0.01	20.64	21	1.086	0.218	22.1	1.6
Front side	20M_QPSK 50RB_25	56640/3760	1:1	0.178	0.086	0.06	18.73	19	1.064	0.189	22.1	1.6
Back side	20M_QPSK 1RB_99	55340/3630	1:1	0.207	0.101	0.01	20.64	21	1.086	0.225	22.1	1.6
Back side	20M_QPSK 50RB_25	56640/3760	1:1	0.193	0.089	0.14	18.73	19	1.064	0.205	22.1	1.6
Left side	20M_QPSK 1RB_99	55340/3630	1:1	0.277	0.120	-0.17	20.64	21	1.086	0.301	22.1	1.6
Left side	20M_QPSK 1RB_99	55990/3625	1:1	0.224	0.102	0.06	19.49	21	1.416	0.317	22.1	1.6
Left side	20M_QPSK 1RB_99	56640/3760	1:1	0.258	0.105	-0.02	19.69	21	1.352	0.349	22.1	1.6
Left side	20M_QPSK 1RB_99	56640/3760	1:1	0.229	0.094	0.05	18.73	19	1.064	0.244	22.1	1.6
Right side	20M_QPSK 1RB_99	55340/3630	1:1	0.018	0.007	0.02	20.64	21	1.086	0.020	22.1	1.6
Right side	20M_QPSK 50RB_25	56640/3760	1:1	0.012	0.005	-0.09	18.73	19	1.064	0.013	22.1	1.6
Top side	20M_QPSK 1RB_99	55340/3630	1:1	0.057	0.030	0.04	20.64	21	1.086	0.062	22.1	1.6
Top side	20M_QPSK 50RB_25	56640/3760	1:1	0.042	0.020	-0.02	18.73	19	1.064	0.045	22.1	1.6
Bottom side	20M_QPSK 1RB_99	55340/3630	1:1	0.006	0.004	-0.01	20.64	21	1.086	0.006	22.1	1.6
Bottom side	20M_QPSK 50RB_25	56640/3760	1:1	0.009	0.004	0.05	18.73	19	1.064	0.009	22.1	1.6
		Body	Test data	a at the wo	rst case w	ith SIM2(S	Separate 10mm)				
Left side	20M_QPSK 1RB_50	56640/3760	1:1	0.264	0.109	-0.03	19.69	21	1.352	0.295	22.1	1.6
			Ex	tremity Te	st data (S	eparate 0n	nm)					
Front side	20M_QPSK 1RB_99	55340/3630	1:1	1.13	0.462	0.18	20.64	21	1.086	0.502	22.1	4
Front side	20M_QPSK 50RB_25	56640/3760	1:1	0.996	0.427	-0.14	18.73	19	1.064	0.455	22.1	4
Back side	20M_QPSK 1RB_99	55340/3630	1:1	1.17	0.501	-0.05	20.64	21	1.086	0.544	22.1	4
Back side	20M_QPSK 50RB_25	56640/3760	1:1	1.09	0.444	0.08	18.73	19	1.064	0.473	22.1	4
Left side	20M_QPSK 1RB_99	55340/3630	1:1	1.54	0.572	0.16	20.64	21	1.086	0.621	22.1	4
Left side	20M_QPSK 50RB_25	56640/3760	1:1	1.41	0.525	-0.09	18.73	19	1.064	0.559	22.1	4



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8.2.20 SAR Result Of FR1 n2

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				He	ad Test da	ata		•	•	•	•	
Left cheek	20M_QPSK 1RB_104	380000/1900	1:1	0.510	0.263	-0.19	23.25	23.5	1.059	0.540	22.3	1.6
Left cheek	20M_QPSK 1RB_104	372000/1860	1:1	0.468	0.247	0.01	23.18	23.5	1.076	0.504	22.3	1.6
Left cheek	20M_QPSK 1RB_104	376000/1880	1:1	0.475	0.251	-0.12	23.23	23.5	1.064	0.505	22.3	1.6
Left cheek	20M_QPSK 50RB_28	380000/1900	1:1	0.388	0.211	0.02	23.14	23.5	1.086	0.421	22.3	1.6
Left tilted	20M_QPSK 1RB_104	380000/1900	1:1	0.093	0.059	-0.13	23.25	23.5	1.059	0.099	22.3	1.6
Left tilted	20M_QPSK 50RB_28	380000/1900	1:1	0.061	0.042	-0.08	23.14	23.5	1.086	0.066	22.3	1.6
Right cheek	20M_QPSK 1RB_104	380000/1900	1:1	0.212	0.119	0.12	23.25	23.5	1.059	0.225	22.3	1.6
Right cheek	20M_QPSK 50RB_28	380000/1900	1:1	0.168	0.093	-0.12	23.14	23.5	1.086	0.183	22.3	1.6
Right tilted	20M_QPSK 1RB_104	380000/1900	1:1	0.051	0.030	0.18	23.25	23.5	1.059	0.054	22.3	1.6
Right tilted	20M_QPSK 50RB_28	380000/1900	1:1	0.035	0.016	-0.13	23.14	23.5	1.086	0.038	22.3	1.6
			В	Body Test of	data(Sepa	rate 10mm	n)					
Front side	20M_QPSK 1RB_104	380000/1900	1:1	0.130	0.072	0.11	23.25	23.5	1.059	0.138	22.3	1.6
Front side	20M_QPSK 50RB_28	380000/1900	1:1	0.112	0.061	0.03	23.14	23.5	1.086	0.122	22.3	1.6
Back side	20M_QPSK 1RB_104	380000/1900	1:1	0.194	0.106	-0.13	23.25	23.5	1.059	0.205	22.3	1.6
Back side	20M_QPSK 50RB_28	380000/1900	1:1	0.173	0.084	-0.02	23.14	23.5	1.086	0.188	22.3	1.6
Left side	20M_QPSK 1RB_104	380000/1900	1:1	0.323	0.163	-0.15	23.25	23.5	1.059	0.342	22.3	1.6
Left side	20M_QPSK 1RB_104	372000/1860	1:1	0.311	0.157	0.11	23.18	23.5	1.076	0.335	22.3	1.6
Left side	20M_QPSK 1RB_104	376000/1880	1:1	0.302	0.152	-0.19	23.23	23.5	1.064	0.321	22.3	1.6
Left side	20M_QPSK 50RB_28	380000/1900	1:1	0.309	0.147	0.1	23.14	23.5	1.086	0.336	22.3	1.6
Right side	20M_QPSK 1RB_104	380000/1900	1:1	0.011	0.009	0.08	23.25	23.5	1.059	0.012	22.3	1.6
Right side	20M_QPSK 50RB_28	380000/1900	1:1	0.009	0.006	0.05	23.14	23.5	1.086	0.010	22.3	1.6
Top side	20M_QPSK 1RB_104	380000/1900	1:1	0.032	0.021	0.03	23.25	23.5	1.059	0.034	22.3	1.6
Top side	20M_QPSK 50RB_28	380000/1900	1:1	0.028	0.019	0.17	23.14	23.5	1.086	0.030	22.3	1.6
Bottom side	20M_QPSK 1RB_104	380000/1900	1:1	0.027	0.019	-0.15	23.25	23.5	1.059	0.029	22.3	1.6
Bottom side	20M_QPSK 50RB_28	380000/1900	1:1	0.024	0.016	-0.05	23.14	23.5	1.086	0.026	22.3	1.6
			Ext	tremity Tes	st data (Se	parate 0m	ım)					
Front side	20M_QPSK 1RB_104	380000/1900	1:1	0.728	0.356	0.06	23.25	23.5	1.059	0.377	22.3	4
Front side	20M_QPSK 50RB_28	380000/1900	1:1	0.625	0.320	-0.01	23.14	23.5	1.086	0.348	22.3	4
Back side	20M_QPSK 1RB_104	380000/1900	1:1	1.085	0.528	-0.01	23.25	23.5	1.059	0.559	22.3	4
Back side	20M_QPSK 50RB_28	380000/1900	1:1	0.996	0.429	0.12	23.14	23.5	1.086	0.466	22.3	4
Left side	20M_QPSK 1RB_104	380000/1900	1:1	1.650	0.784	-0.01	23.25	23.5	1.059	0.830	22.3	4
Left side	20M_QPSK 50RB_28	380000/1900	1:1	1.740	0.719	0.11	23.14	23.5	1.086	0.781	22.3	4



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8.2.21 SAR Result Of FR1 n5

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				He	ad Test da	ata						
Left cheek	20M_BPSK 1RB_104	167800/839	1:1	0.216	0.135	0.05	23.06	24	1.242	0.268	22.3	1.6
Left cheek	20M_BPSK 1RB_104	166800/834	1:1	0.201	0.121	0.06	22.8	24	1.318	0.265	22.3	1.6
Left cheek	20M_BPSK 1RB_104	167300/836.5	1:1	0.204	0.132	-0.17	22.98	24	1.265	0.258	22.3	1.6
Left cheek	20M_BPSK 50RB_28	167800/839	1:1	0.184	0.150	0.16	22.67	23	1.079	0.199	22.3	1.6
Left tilted	20M_BPSK 1RB_104	167800/839	1:1	0.046	0.034	0.1	23.06	24	1.242	0.057	22.3	1.6
Left tilted	20M_BPSK 50RB_28	167800/839	1:1	0.031	0.032	0.19	22.67	23	1.079	0.034	22.3	1.6
Right cheek	20M_BPSK 1RB_104	167800/839	1:1	0.107	0.084	-0.08	23.06	24	1.242	0.133	22.3	1.6
Right cheek	20M_BPSK 50RB_28	167800/839	1:1	0.085	0.071	-0.03	22.67	23	1.079	0.091	22.3	1.6
Right tilted	20M_BPSK 1RB_104	167800/839	1:1	0.016	0.014	0.11	23.06	24	1.242	0.020	22.3	1.6
Right tilted	20M_BPSK 50RB_28	167800/839	1:1	0.026	0.022	0.07	22.67	23	1.079	0.028	22.3	1.6
			В	ody Test o	data(Separ	rate 10mm	1)					
Front side	20M_BPSK 1RB_104	167800/839	1:1	0.164	0.122	-0.13	23.06	24	1.242	0.204	22.3	1.6
Front side	20M_BPSK 50RB_28	167800/839	1:1	0.132	0.114	0.1	22.67	23	1.079	0.143	22.3	1.6
Back side	20M_BPSK 1RB_104	167800/839	1:1	0.253	0.189	-0.04	23.06	24	1.242	0.314	22.3	1.6
Back side	20M_BPSK 1RB_104	166800/834	1:1	0.232	0.164	0.14	22.8	24	1.318	0.306	22.3	1.6
Back side	20M_BPSK 1RB_104	167300/836.5	1:1	0.239	0.176	-0.09	22.98	24	1.265	0.302	22.3	1.6
Back side	20M_BPSK 50RB_28	167800/839	1:1	0.226	0.174	0.15	22.67	23	1.079	0.244	22.3	1.6
Left side	20M_BPSK 1RB_104	167800/839	1:1	0.175	0.127	0.16	23.06	24	1.242	0.218	22.3	1.6
Left side	20M_BPSK 50RB_28	167800/839	1:1	0.148	0.103	0.05	22.67	23	1.079	0.159	22.3	1.6
Right side	20M_BPSK 1RB_104	167800/839	1:1	0.164	0.123	-0.11	23.06	24	1.242	0.203	22.3	1.6
Right side	20M_BPSK 50RB_28	167800/839	1:1	0.146	0.105	0.03	22.67	23	1.079	0.157	22.3	1.6
Top side	20M_BPSK 1RB_104	167800/839	1:1	0.019	0.017	-0.04	23.06	24	1.242	0.024	22.3	1.6
Top side	20M_BPSK 50RB_28	167800/839	1:1	0.018	0.012	-0.18	22.67	23	1.079	0.019	22.3	1.6
Bottom side	20M_BPSK 1RB_104	167800/839	1:1	0.130	0.083	0.09	23.06	24	1.242	0.161	22.3	1.6
Bottom side	20M_BPSK 50RB_28	167800/839	1:1	0.115	0.065	-0.07	22.67	23	1.079	0.124	22.3	1.6
			Ext	tremity Tes	st data (Se	parate 0m	m)					
Front side	20M_BPSK 1RB_104	167800/839	1:1	0.928	0.605	-0.02	23.06	24	1.242	0.752	22.3	4
Front side	20M_BPSK 50RB_28	167800/839	1:1	0.743	0.547	-0.03	22.67	23	1.079	0.591	22.3	4
Back side	20M_BPSK 1RB_104	167800/839	1:1	1.360	0.936	-0.03	23.06	24	1.242	1.162	22.3	4
Back side	20M_BPSK 50RB_28	167800/839	1:1	1.275	0.830	0.06	22.67	23	1.079	0.896	22.3	4
Left side	20M_BPSK 1RB_104	167800/839	1:1	1.003	0.634	-0.05	23.06	24	1.242	0.787	22.3	4
Left side	20M_BPSK 50RB_28	167800/839	1:1	0.843	0.491	-0.01	22.67	23	1.079	0.530	22.3	4
Bottom side	20M_BPSK 1RB_104	167800/839	1:1	0.732	0.407	0.02	23.06	24	1.242	0.505	22.3	4
Bottom side	20M_BPSK 50RB_28	167800/839	1:1	0.642	0.328	0.18	22.67	23	1.079	0.354	22.3	4



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8.2.22 SAR Result Of FR1 n41

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head	d Test data							
Left cheek	100M_QPSK 1RB_271	528000/2640	1:1	0.438	0.240	-0.04	24.11	25	1.227	0.537	22.3	1.6
Left cheek	100M_QPSK 135RB_69	528000/2640	1:1	0.389	0.214	0.04	23.91	24.5	1.146	0.446	22.3	1.6
Left tilted	100M_QPSK 1RB_271	528000/2640	1:1	0.131	0.070	-0.11	24.11	25	1.227	0.161	22.3	1.6
Left tilted	100M_QPSK 135RB_69	528000/2640	1:1	0.111	0.063	0.18	23.91	24.5	1.146	0.128	22.3	1.6
Right cheek	100M_QPSK 1RB_271	528000/2640	1:1	0.924	0.525	-0.16	24.11	25	1.227	1.134	22.3	1.6
Right cheek	100M_QPSK 1RB_271	509202/2546.01	1:1	0.908	0.475	0.11	23.65	25	1.365	1.239	22.3	1.6
Right cheek	100M_QPSK 1RB_271	518598/2592.99	1:1	0.912	0.462	0.03	24.07	25	1.239	1.130	22.3	1.6
Right cheek	100M_QPSK 135RB_69	528000/2640	1:1	0.797	0.443	0.02	23.91	24.5	1.146	0.913	22.3	1.6
Right tilted	100M_QPSK 1RB_271	528000/2640	1:1	0.482	0.260	-0.17	24.11	25	1.227	0.592	22.3	1.6
Right tilted	100M_QPSK 135RB_69	528000/2640	1:1	0.415	0.223	0.18	23.91	24.5	1.146	0.475	22.3	1.6
			Во	dy Test da	ta(Separat	e 10mm)						
Front side	100M_QPSK 1RB_271	528000/2640	1:1	0.185	0.095	0.13	24.11	25	1.227	0.227	22.3	1.6
Front side	100M_QPSK 135RB_69	528000/2640	1:1	0.164	0.090	0.13	23.91	24.5	1.146	0.188	22.3	1.6
Back side	100M_QPSK 1RB_271	528000/2640	1:1	0.193	0.101	0.14	24.11	25	1.227	0.236	22.3	1.6
Back side	100M_QPSK 135RB_69	528000/2640	1:1	0.179	0.090	0.04	23.91	24.5	1.146	0.205	22.3	1.6
Left side	100M_QPSK 1RB_271	528000/2640	1:1	0.253	0.120	-0.07	24.11	25	1.227	0.311	22.3	1.6
Left side	100M_QPSK 1RB_271	509202/2546.01	1:1	0.225	0.102	0.13	23.65	25	1.365	0.307	22.3	1.6
Left side	100M_QPSK 1RB_271	518598/2592.99	1:1	0.244	0.113	0.08	24.07	25	1.239	0.302	22.3	1.6
Left side	100M_QPSK 135RB_69	528000/2640	1:1	0.231	0.106	0.04	23.91	24.5	1.146	0.264	22.3	1.6
Right side	100M_QPSK 1RB_271	528000/2640	1:1	0.019	0.013	-0.11	24.11	25	1.227	0.023	22.3	1.6
Right side	100M_QPSK 135RB_69	528000/2640	1:1	0.013	0.009	-0.07	23.91	24.5	1.146	0.015	22.3	1.6
Top side	100M_QPSK 1RB_271	528000/2640	1:1	0.053	0.032	-0.12	24.11	25	1.227	0.065	22.3	1.6
Top side	100M_QPSK 135RB_69	528000/2640	1:1	0.041	0.021	0.18	23.91	24.5	1.146	0.047	22.3	1.6
Bottom side	100M_QPSK 1RB_271	528000/2640	1:1	0.009	0.007	-0.04	24.11	25	1.227	0.011	22.3	1.6
Bottom side	100M_QPSK 135RB_69	528000/2640	1:1	0.013	0.010	-0.17	23.91	24.5	1.146	0.015	22.3	1.6
			Extr	emity Test	data (Sepa	rate 0mm)						
Front side	100M_QPSK 1RB_271	528000/2640	1:1	1.05	0.481	0.09	24.11	25	1.227	0.590	22.3	4
Front side	100M_QPSK 135RB_69	528000/2640	1:1	0.921	0.442	-0.13	23.91	24.5	1.146	0.506	22.3	4
Back side	100M_QPSK 1RB_271	528000/2640	1:1	1.07	0.495	0.13	24.11	25	1.227	0.607	22.3	4
Back side	100M_QPSK 135RB_69	528000/2640	1:1	1.03	0.457	0.16	23.91	24.5	1.146	0.524	22.3	4
Left side	100M_QPSK 1RB_271	528000/2640	1:1	1.42	0.921	-0.05	24.11	25	1.227	1.130	22.3	4
Left side	100M_QPSK 135RB_69	528000/2640	1:1	1.30	0.721	0.16	23.91	24.5	1.146	0.826	22.3	4



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8.2.23 SAR Result Of FR1 n66

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head	Test data	•	•					
Left cheek	20M_QPSK 1RB_104	349000/1745	1:1	0.524	0.284	-0.19	23.55	24	1.109	0.581	22.3	1.6
Left cheek	20M_QPSK 1RB_104	344000/1720	1:1	0.509	0.264	0.09	23.44	24	1.138	0.579	22.3	1.6
Left cheek	20M_QPSK 1RB_104	354000/1770	1:1	0.529	0.272	-0.07	23.47	24	1.130	0.598	22.3	1.6
Left cheek	20M_QPSK 50RB_56	349000/1745	1:1	0.428	0.237	0.02	23.51	24	1.119	0.479	22.3	1.6
Left tilted	20M_QPSK 1RB_104	349000/1745	1:1	0.099	0.065	0.16	23.55	24	1.109	0.110	22.3	1.6
Left tilted	20M_QPSK 50RB_56	349000/1745	1:1	0.070	0.051	0.11	23.51	24	1.119	0.079	22.3	1.6
Right cheek	20M_QPSK 1RB_104	349000/1745	1:1	0.234	0.141	-0.15	23.55	24	1.109	0.259	22.3	1.6
Right cheek	20M_QPSK 50RB_56	349000/1745	1:1	0.191	0.117	0.12	23.51	24	1.119	0.214	22.3	1.6
Right tilted	20M_QPSK 1RB_104	349000/1745	1:1	0.038	0.029	-0.01	23.55	24	1.109	0.042	22.3	1.6
Right tilted	20M_QPSK 50RB_56	349000/1745	1:1	0.058	0.039	0.1	23.51	24	1.119	0.065	22.3	1.6
			Bod	y Test data	a(Separate	10mm)						
Front side	20M_QPSK 1RB_104	349000/1745	1:1	0.149	0.087	-0.02	23.55	24	1.109	0.165	22.3	1.6
Front side	20M_QPSK 50RB_56	349000/1745	1:1	0.125	0.059	-0.05	23.51	24	1.119	0.140	22.3	1.6
Back side	20M_QPSK 1RB_104	349000/1745	1:1	0.155	0.086	0.12	23.55	24	1.109	0.172	22.3	1.6
Back side	20M_QPSK 50RB_56	349000/1745	1:1	0.130	0.062	0.08	23.51	24	1.119	0.145	22.3	1.6
Left side	20M_QPSK 1RB_104	349000/1745	1:1	0.205	0.111	-0.02	23.55	24	1.109	0.227	22.3	1.6
Left side	20M_QPSK 1RB_104	344000/1720	1:1	0.184	0.098	0.01	23.44	24	1.138	0.209	22.3	1.6
Left side	20M_QPSK 1RB_104	354000/1770	1:1	0.192	0.106	0.16	23.47	24	1.130	0.217	22.3	1.6
Left side	20M_QPSK 50RB_56	349000/1745	1:1	0.182	0.085	-0.18	23.51	24	1.119	0.204	22.3	1.6
Right side	20M_QPSK 1RB_104	349000/1745	1:1	0.017	0.009	0.19	23.55	24	1.109	0.019	22.3	1.6
Right side	20M_QPSK 50RB_56	349000/1745	1:1	0.023	0.012	-0.12	23.51	24	1.119	0.026	22.3	1.6
Top side	20M_QPSK 1RB_104	349000/1745	1:1	0.041	0.024	0.07	23.55	24	1.109	0.046	22.3	1.6
Top side	20M_QPSK 50RB_56	349000/1745	1:1	0.037	0.023	0.14	23.51	24	1.119	0.041	22.3	1.6
Bottom side	20M_QPSK 1RB_104	349000/1745	1:1	0.039	0.030	-0.03	23.55	24	1.109	0.043	22.3	1.6
Bottom side	20M_QPSK 50RB_56	349000/1745	1:1	0.032	0.025	0.08	23.51	24	1.119	0.036	22.3	1.6
			Extre	mity Test d	ata (Separ	ate 0mm)						
Front side	20M_QPSK 1RB_104	349000/1745	1:1	0.845	0.423	-0.18	23.55	24	1.109	0.469	22.3	4
Front side	20M_QPSK 50RB_56	349000/1745	1:1	0.708	0.295	0.11	23.51	24	1.119	0.330	22.3	4
Back side	20M_QPSK 1RB_104	349000/1745	1:1	0.883	0.420	0.12	23.55	24	1.109	0.466	22.3	4
Back side	20M_QPSK 50RB_56	349000/1745	1:1	0.755	0.314	-0.15	23.51	24	1.119	0.352	22.3	4
Left side	20M_QPSK 1RB_104	349000/1745	1:1	1.160	0.543	-0.14	23.55	24	1.109	0.602	22.3	4
Left side	20M_QPSK 50RB_56	349000/1745	1:1	1.039	0.411	-0.01	23.51	24	1.119	0.460	22.3	4



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8.2.24 SAR Result Of FR1 n71

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
				Head ¹	Test data		•	•		•		
Left cheek	20M_QPSK 1RB_1	134600/673	1:1	0.147	0.113	0.07	22.75	23.5	1.189	0.175	22.3	1.6
Left cheek	20M_QPSK 1RB_1	136100/680.5	1:1	0.144	0.101	0.06	22.73	23.5	1.194	0.172	22.3	1.6
Left cheek	20M_QPSK 1RB_1	137600/688	1:1	0.132	0.105	0.17	22.71	23.5	1.199	0.158	22.3	1.6
Left cheek	20M_QPSK 50RB_56	134600/673	1:1	0.116	0.094	-0.15	22.59	23.5	1.233	0.142	22.3	1.6
Left tilted	20M_QPSK 1RB_1	134600/673	1:1	0.030	0.022	-0.13	22.75	23.5	1.189	0.036	22.3	1.6
Left tilted	20M_QPSK 50RB_56	134600/673	1:1	0.023	0.022	0.09	22.59	23.5	1.233	0.028	22.3	1.6
Right cheek	20M_QPSK 1RB_1	134600/673	1:1	0.069	0.052	-0.14	22.75	23.5	1.189	0.082	22.3	1.6
Right cheek	20M_QPSK 50RB_56	134600/673	1:1	0.053	0.046	0.07	22.59	23.5	1.233	0.065	22.3	1.6
Right tilted	20M_QPSK 1RB_1	134600/673	1:1	0.012	0.011	0.16	22.75	23.5	1.189	0.014	22.3	1.6
Right tilted	20M_QPSK 50RB_56	134600/673	1:1	0.017	0.015	-0.16	22.59	23.5	1.233	0.021	22.3	1.6
			Body	/ Test data	(Separate	10mm)						
Front side	20M_QPSK 1RB_1	134600/673	1:1	0.145	0.112	-0.17	22.75	23.5	1.189	0.172	22.3	1.6
Front side	20M_QPSK 50RB_56	134600/673	1:1	0.121	0.102	0.1	22.59	23.5	1.233	0.149	22.3	1.6
Back side	20M_QPSK 1RB_1	134600/673	1:1	0.222	0.168	-0.03	22.75	23.5	1.189	0.264	22.3	1.6
Back side	20M_QPSK 1RB_1	136100/680.5	1:1	0.205	0.152	0.01	22.73	23.5	1.194	0.245	22.3	1.6
Back side	20M_QPSK 1RB_1	137600/688	1:1	0.213	0.165	-0.11	22.71	23.5	1.199	0.255	22.3	1.6
Back side	20M_QPSK 50RB_56	134600/673	1:1	0.204	0.156	0.06	22.59	23.5	1.233	0.252	22.3	1.6
Left side	20M_QPSK 1RB_1	134600/673	1:1	0.159	0.118	0.17	22.75	23.5	1.189	0.189	22.3	1.6
Left side	20M_QPSK 50RB_56	134600/673	1:1	0.131	0.092	-0.13	22.59	23.5	1.233	0.162	22.3	1.6
Right side	20M_QPSK 1RB_1	134600/673	1:1	0.148	0.111	-0.13	22.75	23.5	1.189	0.176	22.3	1.6
Right side	20M_QPSK 50RB_56	134600/673	1:1	0.132	0.095	-0.12	22.59	23.5	1.233	0.163	22.3	1.6
Top side	20M_QPSK 1RB_1	134600/673	1:1	0.020	0.016	0.15	22.75	23.5	1.189	0.024	22.3	1.6
Top side	20M_QPSK 50RB_56	134600/673	1:1	0.018	0.012	0.06	22.59	23.5	1.233	0.022	22.3	1.6
Bottom side	20M_QPSK 1RB_1	134600/673	1:1	0.117	0.074	-0.13	22.75	23.5	1.189	0.139	22.3	1.6
Bottom side	20M_QPSK 50RB_56	134600/673	1:1	0.104	0.059	0.15	22.59	23.5	1.233	0.129	22.3	1.6
			Extren	nity Test da	ata (Separa	ite 0mm)						
Front side	20M_QPSK 1RB_1	134600/673	1:1	0.828	0.559	-0.02	22.75	23.5	1.189	0.664	22.3	4
Front side	20M_QPSK 50RB_56	134600/673	1:1	0.710	0.488	-0.09	22.59	23.5	1.233	0.602	22.3	4
Back side	20M_QPSK 1RB_1	134600/673	1:1	1.34	0.826	-0.08	22.75	23.5	1.189	0.982	22.3	4
Back side	20M_QPSK 50RB_56	134600/673	1:1	1.15	0.756	-0.12	22.59	23.5	1.233	0.932	22.3	4
Left side	20M_QPSK 1RB_1	134600/673	1:1	0.921	0.586	-0.01	22.75	23.5	1.189	0.697	22.3	4
Left side	20M_QPSK 50RB_56	134600/673	1:1	0.757	0.452	-0.19	22.59	23.5	1.233	0.557	22.3	4
Bottom side	20M_QPSK 1RB_1	134600/673	1:1	0.683	0.354	0.1	22.75	23.5	1.189	0.421	22.3	4
Bottom side	20M_QPSK 50RB_56	134600/673	1:1	0.597	0.291	-0.18	22.59	23.5	1.233	0.359	22.3	4



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8.2.25SAR Result Of 2.4GHz Wi-Fi

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg)1- g	SAR (W/kg) 10-g	Power drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
					Head ¹	Test data							
Left cheek	802.11b	6/2437	99.19%	1.008	0.306	0.149	0.01	15.78	16.00	1.052	0.324	22.0	1.6
Left tilted	802.11b	6/2437	99.19%	1.008	0.077	0.030	0.07	15.78	16.00	1.052	0.081	22.0	1.6
Right cheek	802.11b	6/2437	99.19%	1.008	0.151	0.073	-0.06	15.78	16.00	1.052	0.160	22.0	1.6
Right tilted	802.11b	6/2437	99.19%	1.008	0.034	0.014	0.05	15.78	16.00	1.052	0.036	22.0	1.6
Left cheek	802.11b	1/2412	99.19%	1.008	0.284	0.135	0.14	15.63	16.00	1.089	0.312	22.0	1.6
Left cheek	802.11b	11/2462	99.19%	1.008	0.279	0.142	0.06	15.42	16.00	1.143	0.321	22.0	1.6
					Body Test	t data(Sep	arate 10m	m)					
Front side	802.11b	6/2437	99.19%	1.008	0.042	0.028	-0.08	15.78	16.00	1.052	0.045	22.0	1.6
Back side	802.11b	6/2437	99.19%	1.008	0.068	0.038	0.02	15.78	16.00	1.052	0.072	22.0	1.6
Left side	802.11b	6/2437	99.19%	1.008	0.030	0.014	-0.11	15.78	16.00	1.052	0.032	22.0	1.6
Right side	802.11b	6/2437	99.19%	1.008	0.080	0.044	-0.05	15.78	16.00	1.052	0.085	22.0	1.6
Top side	802.11b	6/2437	99.19%	1.008	0.044	0.026	0.09	15.78	16.00	1.052	0.047	22.0	1.6
Bottom side	802.11b	6/2437	99.19%	1.008	0.002	0.001	0.11	15.78	16.00	1.052	0.002	22.0	1.6
Back side	802.11b	1/2412	99.19%	1.008	0.054	0.026	0.09	15.63	16.00	1.089	0.059	22.0	1.6
Back side	802.11b	11/2462	99.19%	1.008	0.061	0.032	0.11	15.42	16.00	1.143	0.070	22.0	1.6
					Extremity T	est data (S	Separate 0	mm)					
Front side	802.11b	6/2437	99.19%	1.008	0.253	0.137	0.00	15.78	16.00	1.052	0.146	22.0	4
Back side	802.11b	6/2437	99.19%	1.008	0.422	0.234	0.01	15.78	16.00	1.052	0.248	22.0	4
Right side	802.11b	6/2437	99.19%	1.008	0.466	0.214	-0.08	15.78	16.00	1.052	0.227	22.0	4



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8.2.26SAR Result Of Bluetooth

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
						Head Tes	st data						
Left cheek	GFSK	78/2480	77.17%	1.296	0.158	0.075	0.19	8.95	9	1.012	0.207	22.0	1.6
Left tilted	GFSK	78/2480	77.17%	1.296	0.044	0.019	0.18	8.95	9	1.012	0.057	22.0	1.6
Right cheek	GFSK	78/2480	77.17%	1.296	0.080	0.041	0.09	8.95	9	1.012	0.105	22.0	1.6
Right tilted	GFSK	78/2480	77.17%	1.296	0.018	0.008	-0.05	8.95	9	1.012	0.024	22.0	1.6
Left cheek	GFSK	0/2402	77.17%	1.296	0.124	0.061	0.02	7.44	9	1.432	0.230	22.0	1.6
Left cheek	GFSK	39/2441	77.17%	1.296	0.160	0.082	0.19	8.50	9	1.122	0.233	22.0	1.6
					Body T	est data(Se	eparate 10	mm)					
Front side	GFSK	78/2480	77.17%	1.296	0.042	0.023	-0.07	8.95	9	1.012	0.056	22.0	1.6
Back side	GFSK	78/2480	77.17%	1.296	0.047	0.029	0.02	8.95	9	1.012	0.062	22.0	1.6
Left side	GFSK	78/2480	77.17%	1.296	0.046	0.024	-0.07	8.95	9	1.012	0.061	22.0	1.6
Right side	GFSK	78/2480	77.17%	1.296	0.041	0.022	-0.03	8.95	9	1.012	0.054	22.0	1.6
Top side	GFSK	78/2480	77.17%	1.296	0.005	0.003	0.03	8.95	9	1.012	0.007	22.0	1.6
Bottom side	GFSK	78/2480	77.17%	1.296	0.034	0.015	0.03	8.95	9	1.012	0.045	22.0	1.6
Back side	GFSK	0/2402	77.17%	1.296	0.032	0.015	0.11	7.44	9	1.432	0.059	22.0	1.6
Back side	GFSK	39/2441	77.17%	1.296	0.053	0.030	-0.03	8.50	9	1.122	0.077	22.0	1.6
					Extremity	/ Test data	(Separate	0mm)					
Front side	GFSK	78/2480	77.17%	1.296	0.244	0.139	0.05	8.95	9	1.012	0.183	22.0	4
Back side	GFSK	39/2441	77.17%	1.296	0.327	0.169	-0.17	8.50	9	1.122	0.246	22.0	4
Right side	GFSK	78/2480	77.17%	1.296	0.260	0.122	0.00	8.95	9	1.012	0.160	22.0	4



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8.2.27 SAR Result Of WIFI 5G

Test position	Test mode	Test Ch./Freq.	Duty Cycle %	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 1-g	Power drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg)	Liquid Temp.	SAR limit (W/kg)
		•			Head	Test data	U-NII-1				•	•	•
Left cheek	802.11a	48/5240	98.31	1.017	0.771	0.285	0.06	15.23	15.50	1.064	0.834	22.2	1.6
Left tilted	802.11a	48/5240	98.31	1.017	0.195	0.059	0.12	15.23	15.50	1.064	0.211	22.2	1.6
Right cheek	802.11a	48/5240	98.31	1.017	0.204	0.105	0.19	15.23	15.50	1.064	0.221	22.2	1.6
Right tilted	802.11a	48/5240	98.31	1.017	0.088	0.029	-0.08	15.23	15.50	1.064	0.095	22.2	1.6
Left cheek	802.11a	36/5180	98.31	1.017	0.674	0.247	0.04	14.76	15.50	1.186	0.813	22.2	1.6
Left cheek	802.11a	40/5200	98.31	1.017	0.689	0.261	0.15	14.94	15.50	1.138	0.797	22.2	1.6
Left cheek	802.11a	44/5220	98.31	1.017	0.748	0.281	0.06	15.14	15.50	1.086	0.826	22.2	1.6
					Body Test	data(Sepa	arate 10m	m)					
Front side	802.11a	48/5240	98.31	1.017	0.162	0.068	0.05	15.23	15.50	1.064	0.176	22.2	1.6
Back side	802.11a	48/5240	98.31	1.017	0.202	0.089	-0.02	15.23	15.50	1.064	0.219	22.2	1.6
Left side	802.11a	48/5240	98.31	1.017	0.176	0.070	0.02	15.23	15.50	1.064	0.190	22.2	1.6
Right side	802.11a	48/5240	98.31	1.017	0.164	0.064	0.08	15.23	15.50	1.064	0.177	22.2	1.6
Top side	802.11a	48/5240	98.31	1.017	0.018	0.007	0.06	15.23	15.50	1.064	0.019	22.2	1.6
Bottom side	802.11a	48/5240	98.31	1.017	0.128	0.043	-0.19	15.23	15.50	1.064	0.139	22.2	1.6
Back side	802.11a	36/5180	98.31	1.017	0.157	0.077	0.02	14.76	15.50	1.186	0.189	22.2	1.6
Back side	802.11a	40/5200	98.31	1.017	0.172	0.086	0.16	14.94	15.50	1.138	0.199	22.2	1.6
Back side	802.11a	44/5220	98.31	1.017	0.185	0.094	0.14	15.14	15.50	1.086	0.204	22.2	1.6
				E:	xtremity Te	est data (S	eparate 0	mm)					
Front side	802.11a	48/5240	98.31	1.017	0.906	0.345	0.05	15.23	15.50	1.064	0.373	22.2	4
Back side	802.11a	48/5240	98.31	1.017	1.110	0.468	0.15	15.23	15.50	1.064	0.506	22.2	4
Right side	802.11a	48/5240	98.31	1.017	0.922	0.315	-0.12	15.23	15.50	1.064	0.341	22.2	4
					Head	Test data	U-NII-3						
Left cheek	802.11ac 80	155/5775	98.31	1.017	0.521	0.192	0.14	14.7	15	1.072	0.568	22.2	1.6
Left tilted	802.11ac 80	155/5775	98.31	1.017	0.131	0.042	0.04	14.7	15	1.072	0.143	22.2	1.6
Right cheek	802.11ac 80	155/5775	98.31	1.017	0.261	0.103	0.04	14.7	15	1.072	0.284	22.2	1.6
Right tilted	802.11ac 80	155/5775	98.31	1.017	0.063	0.020	0.02	14.7	15	1.072	0.068	22.2	1.6
					Body Test	data(Sepa	arate 10m	m)					
Front side	802.11ac 80	155/5775	98.31	1.017	0.119	0.032	-0.07	14.7	15	1.072	0.130	22.2	1.6
Back side	802.11ac 80	155/5775	98.31	1.017	0.152	0.042	-0.19	14.7	15	1.072	0.166	22.2	1.6
Left side	802.11ac 80	155/5775	98.31	1.017	0.131	0.034	0.01	14.7	15	1.072	0.143	22.2	1.6
Right side	802.11ac 80	155/5775	98.31	1.017	0.118	0.031	-0.1	14.7	15	1.072	0.129	22.2	1.6
Top side	802.11ac 80	155/5775	98.31	1.017	0.014	0.004	0.13	14.7	15	1.072	0.015	22.2	1.6
Bottom side	802.11ac 80	155/5775	98.31	1.017	0.096	0.020	0.13	14.7	15	1.072	0.104	22.2	1.6
			,	E	xtremity Te	est data (S	eparate 0	mm)					
Front side	802.11ac 80	155/5775	98.31	1.017	0.695	0.169	-0.07	14.7	15	1.072	0.184	22.2	4
Back side	802.11ac 80	155/5775	98.31	1.017	0.891	0.263	0.08	14.7	15	1.072	0.287	22.2	4
Right side	802.11ac 80	155/5775	98.31	1.017	0.690	0.173	-0.1	14.7	15	1.072	0.188	22.2	4



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8.2.28 Repeated measurements

Head/Body

1 load Body				
Wireless	Test position	First Measure SAR (W/kg)	Second Measure SAR (W/kg)	Radio
GSM850	Back side	1.02	0.988	1.03
LTE Band 38	Right cheek	0.963	0.956	1.01
LTE Band 48	Right cheek	0.881	0.872	1.01
5G NR n41	Right cheek	0.924	0.911	1.01

Extremity

Wireless	Test position	First Measure SAR (W/kg)	Second Measure SAR (W/kg)	Radio
GSM850	Back side	2.38	2.19	1.09

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.20
- 2) When the original highest measured SAR is \geq 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only 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 (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission

NO.	Simultaneous Transmission Configuration	Head	Body	Extremity
1	WWAN + WIFI 2.4GHz	Yes	Yes	Yes
2	WWAN + WIFI 5GHz	Yes	Yes	Yes
3	WWAN + BT	Yes	Yes	Yes
4	WIFI + BT (They share the same antenna and cannot transmit at the same time by design.)	No	No	No

Simultaneous Transmission SAR Summation Scenario for Head

WWAN Band	Exposure position	①MAX. WWAN SAR (W/kg)	②MAX. WLAN2.4G SAR (W/kg)	③MAX WLAN 5G SAR (W/kg)	④MAX. BT SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ①+④	Volume scan
	Left Touch	0.277	0.324	0.834	0.233	0.601	1.111	0.510	NO
GSM850	Left Tilt	0.053	0.081	0.211	0.057	0.134	0.264	0.110	NO
GSIVIOSO	Right Touch	0.123	0.16	0.221	0.105	0.283	0.344	0.228	NO
	Right Tilt	0.022	0.036	0.095	0.024	0.058	0.117	0.046	NO
	Left Touch	0.226	0.324	0.834	0.233	0.550	1.060	0.459	NO
GSM1900	Left Tilt	0.042	0.081	0.211	0.057	0.123	0.253	0.099	NO
GSW1900	Right Touch	0.092	0.16	0.221	0.105	0.252	0.313	0.197	NO
	Right Tilt	0.022	0.036	0.095	0.024	0.058	0.117	0.046	NO
	Left Touch	0.411	0.324	0.834	0.233	0.735	1.245	0.644	NO
WCDMA	Left Tilt	0.072	0.081	0.211	0.057	0.153	0.283	0.129	NO
Band II	Right Touch	0.172	0.16	0.221	0.105	0.332	0.393	0.277	NO
	Right Tilt	0.041	0.036	0.095	0.024	0.077	0.136	0.065	NO
	Left Touch	0.218	0.324	0.834	0.233	0.542	1.052	0.451	NO
WCDMA	Left Tilt	0.042	0.081	0.211	0.057	0.123	0.253	0.099	NO
Band V	Right Touch	0.094	0.16	0.221	0.105	0.254	0.315	0.199	NO
	Right Tilt	0.018	0.036	0.095	0.024	0.054	0.113	0.042	NO
	Left Touch	0.331	0.324	0.834	0.233	0.655	1.165	0.564	NO
WCDMA	Left Tilt	0.1	0.081	0.211	0.057	0.181	0.311	0.157	NO
Band IV	Right Touch	0.163	0.16	0.221	0.105	0.323	0.384	0.268	NO
	Right Tilt	0.056	0.036	0.095	0.024	0.092	0.151	0.080	NO



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	Left Touch	0.438	0.324	0.834	0.233	0.762	1.272	0.671	NO
LTE Band 2	Left Tilt	0.074	0.081	0.211	0.057	0.155	0.285	0.131	NO
Liebanae	Right Touch	0.176	0.16	0.221	0.105	0.336	0.397	0.281	NO
	Right Tilt	0.039	0.036	0.095	0.024	0.075	0.134	0.063	NO
	Left Touch	0.36	0.324	0.834	0.233	0.684	1.194	0.593	NO
LTE Band 4	Left Tilt	0.064	0.081	0.211	0.057	0.145	0.275	0.121	NO
LTL Balld 4	Right Touch	0.15	0.16	0.221	0.105	0.310	0.371	0.255	NO
	Right Tilt	0.035	0.036	0.095	0.024	0.071	0.130	0.059	NO
	Left Touch	0.269	0.324	0.834	0.233	0.593	1.103	0.502	NO
LTC Dand 5	Left Tilt	0.053	0.081	0.211	0.057	0.134	0.264	0.110	NO
LTE Band 5	Right Touch	0.123	0.16	0.221	0.105	0.283	0.344	0.228	NO
	Right Tilt	0.035	0.036	0.095	0.024	0.071	0.130	0.059	NO
	Left Touch	0.477	0.324	0.834	0.233	0.801	1.311	0.710	NO
LTE David 7	Left Tilt	0.026	0.081	0.211	0.057	0.107	0.237	0.083	NO
LTE Band 7	Right Touch	0.061	0.16	0.221	0.105	0.221	0.282	0.166	NO
	Right Tilt	0.014	0.036	0.095	0.024	0.050	0.109	0.038	NO
	Left Touch	0.116	0.324	0.834	0.233	0.440	0.950	0.349	NO
LTE Band	Left Tilt	0.022	0.081	0.211	0.057	0.103	0.233	0.079	NO
12	Right Touch	0.012	0.16	0.221	0.105	0.172	0.233	0.117	NO
	Right Tilt	0.011	0.036	0.095	0.024	0.047	0.106	0.035	NO
	Left Touch	0.176	0.324	0.834	0.233	0.500	1.010	0.409	NO
LTE Band	Left Tilt	0.036	0.081	0.211	0.057	0.117	0.247	0.093	NO
13	Right Touch	0.076	0.16	0.221	0.105	0.236	0.297	0.181	NO
	Right Tilt	0.02	0.036	0.095	0.024	0.056	0.115	0.044	NO
	Left Touch	0.088	0.324	0.834	0.233	0.412	0.922	0.321	NO
LTE Band	Left Tilt	0.016	0.081	0.211	0.057	0.097	0.227	0.073	NO
17	Right Touch	0.036	0.16	0.221	0.105	0.196	0.257	0.141	NO
	Right Tilt	0.007	0.036	0.095	0.024	0.043	0.102	0.031	NO
	Left Touch	0.284	0.324	0.834	0.233	0.608	1.118	0.517	NO
LTE Band	Left Tilt	0.055	0.081	0.211	0.057	0.136	0.266	0.112	NO
26	Right Touch	0.117	0.16	0.221	0.105	0.277	0.338	0.222	NO
	Right Tilt	0.032	0.036	0.095	0.024	0.068	0.127	0.056	NO
	Left Touch	0.316	0.324	0.834	0.233	0.640	1.150	0.549	NO
LTE Band	Left Tilt	0.11	0.081	0.211	0.057	0.191	0.321	0.167	NO
38	Right Touch	1.118	0.16	0.221	0.105	1.278	1.339	1.223	NO
	Right Tilt	0.435	0.036	0.095	0.024	0.471	0.530	0.459	NO
	Left Touch	0.405	0.324	0.834	0.233	0.729	1.239	0.638	NO
LTE Band	Left Tilt	0.075	0.081	0.211	0.057	0.156	0.286	0.132	NO
40 a	Right Touch	0.163	0.16	0.221	0.105	0.323	0.384	0.268	NO
	Right Tilt	0.039	0.036	0.095	0.024	0.075	0.134	0.063	NO
LTE Band	Left Touch	0.456	0.324	0.834	0.233	0.780	1.290	0.689	NO
40 b	Left Tilt	0.083	0.081	0.211	0.057	0.164	0.294	0.140	NO
	Lott I III	0.000	0.001	V.2 1 1	0.007	5.10-	JU¬	5.170	



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	Right Touch	0.19	0.16	0.221	0.105	0.350	0.411	0.295	NO
	Right Tilt	0.048	0.036	0.095	0.024	0.084	0.143	0.072	NO
	Left Touch	0.121	0.324	0.834	0.233	0.445	0.955	0.354	NO
LTE Band	Left Tilt	0.036	0.081	0.211	0.057	0.117	0.247	0.093	NO
41	Right Touch	0.315	0.16	0.221	0.105	0.475	0.536	0.420	NO
	Right Tilt	0.132	0.036	0.095	0.024	0.168	0.227	0.156	NO
	Left Touch	0.178	0.324	0.834	0.233	0.502	1.012	0.411	NO
LTE Band	Left Tilt	0.052	0.081	0.211	0.057	0.133	0.263	0.109	NO
42	Right Touch	0.484	0.16	0.221	0.105	0.644	0.705	0.589	NO
	Right Tilt	0.195	0.036	0.095	0.024	0.231	0.290	0.219	NO
	Left Touch	0.25	0.324	0.834	0.233	0.574	1.084	0.483	NO
LTE Band	Left Tilt	0.104	0.081	0.211	0.057	0.185	0.315	0.161	NO
48	Right Touch	1.159	0.16	0.221	0.105	1.319	1.380	1.264	NO
	Right Tilt	0.388	0.036	0.095	0.024	0.424	0.483	0.412	NO
	Left Touch	0.54	0.324	0.834	0.233	0.864	1.374	0.773	NO
ED4 NO	Left Tilt	0.099	0.081	0.211	0.057	0.180	0.310	0.156	NO
FR1 N2	Right Touch	0.225	0.16	0.221	0.105	0.385	0.446	0.330	NO
	Right Tilt	0.054	0.036	0.095	0.024	0.090	0.149	0.078	NO
	Left Touch	0.268	0.324	0.834	0.233	0.592	1.102	0.501	NO
FR1 N5	Left Tilt	0.057	0.081	0.211	0.057	0.138	0.268	0.114	NO
FRINS	Right Touch	0.133	0.16	0.221	0.105	0.293	0.354	0.238	NO
	Right Tilt	0.028	0.036	0.095	0.024	0.064	0.123	0.052	NO
	Left Touch	0.537	0.324	0.834	0.233	0.861	1.371	0.770	NO
FR1 N41	Left Tilt	0.161	0.081	0.211	0.057	0.242	0.372	0.218	NO
FKI N41	Right Touch	1.13	0.16	0.221	0.105	1.294	1.355	1.239	NO
	Right Tilt	0.592	0.036	0.095	0.024	0.628	0.687	0.616	NO
	Left Touch	0.581	0.324	0.834	0.233	0.905	1.415	0.814	NO
FR1 N66	Left Tilt	0.11	0.081	0.211	0.057	0.191	0.321	0.167	NO
FKT NOO	Right Touch	0.259	0.16	0.221	0.105	0.419	0.480	0.364	NO
	Right Tilt	0.065	0.036	0.095	0.024	0.101	0.160	0.089	NO
	Left Touch	0.175	0.324	0.834	0.233	0.499	1.009	0.408	NO
ED4 N74	Left Tilt	0.036	0.081	0.211	0.057	0.117	0.247	0.093	NO
FR1 N71	Right Touch	0.082	0.16	0.221	0.105	0.242	0.303	0.187	NO
	Right Tilt	0.021	0.036	0.095	0.024	0.057	0.116	0.045	NO



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Simultaneous Transmission SAR Summation Scenario for Body

WWAN Band	Exposure position	①MAX. WWAN SAR (W/kg)	②MAX. WLAN2.4G SAR (W/kg)	③MAX BT SAR (W/kg)	④MAX. WLAN5G SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ①+④	Volume scan
	Front	0.889	0.045	0.056	0.176	0.934	0.945	1.065	NO
	Back	1.15	0.072	0.077	0.219	1.222	1.227	1.369	NO
0014050	Left	0.97	0.032	0.061	0.19	1.002	1.031	1.160	NO
GSM850	Right	0.879	0.085	0.054	0.177	0.964	0.933	1.056	NO
	Тор	0.105	0.047	0.007	0.019	0.152	0.112	0.124	NO
	Bottom	0.729	0.002	0.045	0.139	0.731	0.774	0.868	NO
	Front	0.159	0.045	0.056	0.176	0.204	0.215	0.335	NO
	Back	0.177	0.072	0.077	0.219	0.249	0.254	0.396	NO
00044000	Left	0.232	0.032	0.061	0.19	0.264	0.293	0.422	NO
GSM1900 -	Right	0.019	0.085	0.054	0.177	0.104	0.073	0.196	NO
	Тор	0.045	0.047	0.007	0.019	0.092	0.052	0.064	NO
	Bottom	0.045	0.002	0.045	0.139	0.047	0.090	0.184	NO
	Front	0.174	0.045	0.056	0.176	0.219	0.230	0.350	NO
	Back	0.191	0.072	0.077	0.219	0.263	0.268	0.410	NO
WCDMA	Left	0.245	0.032	0.061	0.19	0.277	0.306	0.435	NO
Band II	Right	0.023	0.085	0.054	0.177	0.108	0.077	0.200	NO
	Тор	0.046	0.047	0.007	0.019	0.093	0.053	0.065	NO
	Bottom	0.044	0.002	0.045	0.139	0.046	0.089	0.183	NO
	Front	0.251	0.045	0.056	0.176	0.296	0.307	0.427	NO
	Back	0.334	0.072	0.077	0.219	0.406	0.411	0.553	NO
WCDMA	Left	0.275	0.032	0.061	0.19	0.307	0.336	0.465	NO
Band V	Right	0.254	0.085	0.054	0.177	0.339	0.308	0.431	NO
	Тор	0.029	0.047	0.007	0.019	0.076	0.036	0.048	NO
	Bottom	0.205	0.002	0.045	0.139	0.207	0.250	0.344	NO
	Front	0.165	0.045	0.056	0.176	0.210	0.221	0.341	NO
	Back	0.182	0.072	0.077	0.219	0.254	0.259	0.401	NO
WCDMA	Left	0.248	0.032	0.061	0.19	0.280	0.309	0.438	NO
Band IV	Right	0.023	0.085	0.054	0.177	0.108	0.077	0.200	NO
	Тор	0.049	0.047	0.007	0.019	0.096	0.056	0.068	NO
	Bottom	0.04	0.002	0.045	0.139	0.042	0.085	0.179	NO
	Front	0.108	0.045	0.056	0.176	0.153	0.164	0.284	NO
Γ	Back	0.118	0.072	0.077	0.219	0.190	0.195	0.337	NO
ITE Bond o	Left	0.159	0.032	0.061	0.19	0.191	0.220	0.349	NO
LTE Band 2	Right	0.01	0.085	0.054	0.177	0.095	0.064	0.187	NO
	Тор	0.026	0.047	0.007	0.019	0.073	0.033	0.045	NO
	Bottom	0.025	0.002	0.045	0.139	0.027	0.070	0.164	NO
LTE Band 4	Front	0.135	0.045	0.056	0.176	0.180	0.191	0.311	NO



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	Back	0.144	0.072	0.077	0.219	0.216	0.221	0.363	NO
	Left	0.193	0.032	0.061	0.19	0.225	0.254	0.383	NO
	Right	0.016	0.085	0.054	0.177	0.101	0.070	0.193	NO
	Тор	0.036	0.047	0.007	0.019	0.083	0.043	0.055	NO
	Bottom	0.031	0.002	0.045	0.139	0.033	0.076	0.170	NO
	Front	0.217	0.045	0.056	0.176	0.262	0.273	0.393	NO
	Back	0.278	0.072	0.077	0.219	0.350	0.355	0.497	NO
	Left	0.198	0.032	0.061	0.19	0.230	0.259	0.388	NO
LTE Band 5	Right	0.232	0.085	0.054	0.177	0.317	0.286	0.409	NO
	Тор	0.021	0.047	0.007	0.019	0.068	0.028	0.040	NO
	Bottom	0.181	0.002	0.045	0.139	0.183	0.226	0.320	NO
	Front	0.095	0.045	0.056	0.176	0.140	0.151	0.271	NO
	Back	0.099	0.072	0.077	0.219	0.171	0.176	0.318	NO
	Left	0.134	0.032	0.061	0.19	0.166	0.195	0.324	NO
LTE Band 7	Right	0.01	0.085	0.054	0.177	0.095	0.064	0.187	NO
	Тор	0.025	0.047	0.007	0.019	0.072	0.032	0.044	NO
	Bottom	0.023	0.002	0.045	0.139	0.025	0.068	0.162	NO
	Front	0.132	0.045	0.056	0.176	0.177	0.188	0.308	NO
	Back	0.21	0.072	0.077	0.219	0.282	0.287	0.429	NO
LTE Band	Left	0.14	0.032	0.061	0.19	0.172	0.201	0.330	NO
12	Right	0.13	0.085	0.054	0.177	0.215	0.184	0.307	NO
	Тор	0.016	0.047	0.007	0.019	0.063	0.023	0.035	NO
	Bottom	0.102	0.002	0.045	0.139	0.104	0.147	0.241	NO
	Front	0.165	0.045	0.056	0.176	0.210	0.221	0.341	NO
	Back	0.258	0.072	0.077	0.219	0.330	0.335	0.477	NO
LTE Band	Left	0.182	0.032	0.061	0.19	0.214	0.243	0.372	NO
13	Right	0.164	0.085	0.054	0.177	0.249	0.218	0.341	NO
	Тор	0.018	0.047	0.007	0.019	0.065	0.025	0.037	NO
	Bottom	0.131	0.002	0.045	0.139	0.133	0.176	0.270	NO
	Front	0.11	0.045	0.056	0.176	0.155	0.166	0.286	NO
	Back	0.171	0.072	0.077	0.219	0.243	0.248	0.390	NO
LTE Band	Left	0.118	0.032	0.061	0.19	0.150	0.179	0.308	NO
17	Right	0.109	0.085	0.054	0.177	0.194	0.163	0.286	NO
	Тор	0.017	0.047	0.007	0.019	0.064	0.024	0.036	NO
	Bottom	0.086	0.002	0.045	0.139	0.088	0.131	0.225	NO
	Front	0.207	0.045	0.056	0.176	0.252	0.263	0.383	NO
	Back	0.324	0.072	0.077	0.219	0.396	0.401	0.543	NO
LTE Band	Left	0.225	0.032	0.061	0.19	0.257	0.286	0.415	NO
26	Right	0.206	0.085	0.054	0.177	0.291	0.260	0.383	NO
	Тор	0.024	0.047	0.007	0.019	0.071	0.031	0.043	NO
	Bottom	0.165	0.002	0.045	0.139	0.167	0.210	0.304	NO
LTE Band	Front	0.305	0.045	0.056	0.176	0.350	0.361	0.481	NO



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38	Dook	0.224	0.070	L 0.077	1 0.240	0.202	1 0 200	0.540	l NO
	Back	0.321	0.072	0.077	0.219	0.393	0.398	0.540	NO
	Left	0.438	0.032	0.061	0.19	0.470	0.499	0.628	NO
	Right	0.021	0.085	0.054	0.177	0.106	0.075	0.198	NO
	Тор	0.083	0.047	0.007	0.019	0.130	0.090	0.102	NO
	Bottom	0.008	0.002	0.045	0.139	0.010	0.053	0.147	NO
	Front	0.159	0.045	0.056	0.176	0.204	0.215	0.335	NO
	Back	0.168	0.072	0.077	0.219	0.240	0.245	0.387	NO
LTE Band	Left	0.217	0.032	0.061	0.19	0.249	0.278	0.407	NO
40 a	Right	0.02	0.085	0.054	0.177	0.105	0.074	0.197	NO
	Тор	0.04	0.047	0.007	0.019	0.087	0.047	0.059	NO
	Bottom	0.037	0.002	0.045	0.139	0.039	0.082	0.176	NO
	Front	0.174	0.045	0.056	0.176	0.219	0.230	0.350	NO
	Back	0.175	0.072	0.077	0.219	0.247	0.252	0.394	NO
LTE Band	Left	0.248	0.032	0.061	0.19	0.280	0.309	0.438	NO
40 b	Right	0.021	0.085	0.054	0.177	0.106	0.075	0.198	NO
	Тор	0.044	0.047	0.007	0.019	0.091	0.051	0.063	NO
	Bottom	0.047	0.002	0.045	0.139	0.049	0.092	0.186	NO
	Front	0.44	0.045	0.056	0.176	0.485	0.496	0.616	NO
	Back	0.471	0.072	0.077	0.219	0.543	0.548	0.690	NO
LTE Band	Left	0.599	0.032	0.061	0.19	0.631	0.660	0.789	NO
41	Right	0.042	0.085	0.054	0.177	0.127	0.096	0.219	NO
	Тор	0.119	0.047	0.007	0.019	0.166	0.126	0.138	NO
	Bottom	0.026	0.002	0.045	0.139	0.028	0.071	0.165	NO
	Front	0.218	0.045	0.056	0.176	0.263	0.274	0.394	NO
	Back	0.225	0.072	0.077	0.219	0.297	0.302	0.444	NO
LTE Band	Left	0.301	0.032	0.061	0.19	0.333	0.362	0.491	NO
42	Right	0.016	0.085	0.054	0.177	0.101	0.070	0.193	NO
	Тор	0.06	0.047	0.007	0.019	0.107	0.067	0.079	NO
	Bottom	0.01	0.002	0.045	0.139	0.012	0.055	0.149	NO
	Front	0.218	0.045	0.056	0.176	0.263	0.274	0.394	NO
	Back	0.225	0.072	0.077	0.219	0.297	0.302	0.444	NO
LTE Band	Left	0.349	0.032	0.061	0.19	0.381	0.410	0.539	NO
48	Right	0.02	0.085	0.054	0.177	0.105	0.074	0.197	NO
	Top	0.062	0.047	0.007	0.019	0.109	0.069	0.081	NO
	Bottom	0.009	0.002	0.045	0.139	0.011	0.054	0.148	NO
	Front	0.138	0.045	0.056	0.176	0.183	0.194	0.314	NO
	Back	0.205	0.072	0.077	0.219	0.277	0.282	0.424	NO
	Left	0.342	0.032	0.061	0.19	0.374	0.403	0.532	NO
FR1 N2	Right	0.012	0.085	0.054	0.177	0.097	0.066	0.189	NO
 	Top	0.034	0.047	0.007	0.019	0.081	0.041	0.053	NO
<u> </u>	Bottom	0.029	0.002	0.007	0.139	0.031	0.074	0.168	NO
FR1 N5	Front	0.204	0.002	0.045	0.176	0.031	0.260	0.380	NO
CMINI	1 10111	0.204	0.040	0.000	0.170	0.243	0.200	0.300	INO



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Ì	l <u> </u>	l	l	l	l			l	٠
	Back	0.314	0.072	0.077	0.219	0.386	0.391	0.533	NO
	Left	0.218	0.032	0.061	0.19	0.250	0.279	0.408	NO
	Right	0.203	0.085	0.054	0.177	0.288	0.257	0.380	NO
	Тор	0.024	0.047	0.007	0.019	0.071	0.031	0.043	NO
	Bottom	0.161	0.002	0.045	0.139	0.163	0.206	0.300	NO
	Front	0.227	0.045	0.056	0.176	0.272	0.283	0.403	NO
	Back	0.236	0.072	0.077	0.219	0.308	0.313	0.455	NO
FR1 N41	Left	0.311	0.032	0.061	0.19	0.343	0.372	0.501	NO
FRI N41	Right	0.023	0.085	0.054	0.177	0.108	0.077	0.200	NO
	Тор	0.065	0.047	0.007	0.019	0.112	0.072	0.084	NO
	Bottom	0.011	0.002	0.045	0.139	0.013	0.056	0.150	NO
	Front	0.165	0.045	0.056	0.176	0.210	0.221	0.341	NO
	Back	0.172	0.072	0.077	0.219	0.244	0.249	0.391	NO
FR1 N66	Left	0.227	0.032	0.061	0.19	0.259	0.288	0.417	NO
FRINO	Right	0.026	0.085	0.054	0.177	0.111	0.080	0.203	NO
	Тор	0.046	0.047	0.007	0.019	0.093	0.053	0.065	NO
	Bottom	0.043	0.002	0.045	0.139	0.045	0.088	0.182	NO
	Front	0.172	0.045	0.056	0.176	0.217	0.228	0.348	NO
	Back	0.264	0.072	0.077	0.219	0.336	0.341	0.483	NO
FR1 N71	Left	0.189	0.032	0.061	0.19	0.221	0.250	0.379	NO
FRIN/I	Right	0.176	0.085	0.054	0.177	0.261	0.230	0.353	NO
	Тор	0.024	0.047	0.007	0.019	0.071	0.031	0.043	NO
	Bottom	0.139	0.002	0.045	0.139	0.141	0.184	0.278	NO

Simultaneous Transmission SAR Summation Scenario for Extremity

	S Transmission SAN Summi		=						
WWAN Band	Exposure position	①MAX. WWAN SAR (W/kg)	②MAX. WLAN2.4G SAR (W/kg)	③MAX BT SAR (W/kg)	④MAX. WLAN5G SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ①+④	Volume scan
GSM850	Front	2.581	0.146	0.183	0.981	2.727	2.764	3.562	NO
GSIVIOSU	Back	2.683	0.248	0.246	1.201	2.931	2.929	3.884	NO
00044000	Front	0.458	0.146	0.183	0.981	0.604	0.641	1.439	NO
GSM1900	Back	0.458	0.248	0.246	1.201	0.706	0.704	1.659	NO
WCDMA	Front	0.431	0.146	0.183	0.981	0.577	0.614	1.412	NO
Band II	Back	0.513	0.248	0.246	1.201	0.761	0.759	1.714	NO
WCDMA	Front	0.793	0.146	0.183	0.981	0.939	0.976	1.774	NO
Band V	Back	1.029	0.248	0.246	1.201	1.277	1.275	2.230	NO
WCDMA	Front	0.477	0.146	0.183	0.981	0.623	0.660	1.458	NO
Band IV	Back	0.498	0.248	0.246	1.201	0.746	0.744	1.699	NO
LTE Band 2	Front	0.292	0.146	0.183	0.981	0.438	0.475	1.273	NO
LIE Dallu Z	Back	0.348	0.248	0.246	1.201	0.596	0.594	1.549	NO
LTE Band 4	Front	0.392	0.146	0.183	0.981	0.538	0.575	1.373	NO



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LTE Band 5	Back Front Back Front	0.393 0.652 0.787	0.248 0.146	0.246 0.183	1.201 0.981	0.641	0.639	1.594	NO
	Back		0.170			0.798	0.835	1.633	NO
LTE Band 7		0.707	0.248	0.246	1.201	1.035	1.033	1.988	NO
LTE Band 7	TTOTIL	0.226	0.246	0.240	0.981	0.372	0.409	1.207	NO
	Back	0.265	0.140	0.103	1.201	0.512	0.409	1.466	NO
LTE Band 12	Front	0.351	0.146	0.183	0.981	0.497	0.534	1.332	NO
	Back	0.54	0.248	0.246	1.201	0.788	0.786	1.741	NO
LTE Band 13	Front	0.622	0.146	0.183	0.981	0.768	0.805	1.603	NO
13	Back	0.937	0.248	0.246	1.201	1.185	1.183	2.138	NO
LTE Band	Front	0.404	0.146	0.183	0.981	0.550	0.587	1.385	NO
17	Back	0.552	0.248	0.246	1.201	0.800	0.798	1.753	NO
LTE Band	Front	0.705	0.146	0.183	0.981	0.851	0.888	1.686	NO
26	Back	0.964	0.248	0.246	1.201	1.212	1.210	2.165	NO
LTE Band	Front	0.77	0.146	0.183	0.981	0.916	0.953	1.751	NO
38	Back	0.766	0.248	0.246	1.201	1.014	1.012	1.967	NO
LTE Band	Front	0.402	0.146	0.183	0.981	0.548	0.585	1.383	NO
40 a	Back	0.43	0.248	0.246	1.201	0.678	0.676	1.631	NO
LTE Band	Front	0.437	0.146	0.183	0.981	0.583	0.620	1.418	NO
40 b	Back	0.432	0.248	0.246	1.201	0.680	0.678	1.633	NO
LTE Band	Front	1.195	0.146	0.183	0.981	1.341	1.378	2.176	NO
41	Back	1.182	0.248	0.246	1.201	1.430	1.428	2.383	NO
LTE Band	Front	0.514	0.146	0.183	0.981	0.660	0.697	1.495	NO
42	Back	0.525	0.248	0.246	1.201	0.773	0.771	1.726	NO
LTE Band	Front	0.502	0.146	0.183	0.981	0.648	0.685	1.483	NO
48	Back	0.544	0.248	0.246	1.201	0.792	0.790	1.745	NO
	Front	0.377	0.146	0.183	0.981	0.523	0.560	1.358	NO
FR1 N2	Back	0.559	0.248	0.246	1.201	0.807	0.805	1.760	NO
	Front	0.752	0.146	0.183	0.981	0.898	0.935	1.733	NO
FR1 N5	Back	1.162	0.248	0.246	1.201	1.410	1.408	2.363	NO
	Front	0.59	0.146	0.183	0.981	0.736	0.773	1.571	NO
FR1 N41	Back	0.607	0.248	0.246	1.201	0.855	0.853	1.808	NO
	Front	0.469	0.146	0.183	0.981	0.615	0.652	1.450	NO
FR1 N66	Back	0.466	0.248	0.246	1.201	0.714	0.712	1.667	NO
	Front	0.664	0.146	0.183	0.981	0.810	0.847	1.645	NO
FR1 N71	Back	0.982	0.248	0.246	1.201	1.230	1.228	2.183	NO



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ENDC

Simultaneous Transmission SAR Summation Scenario for head

WWAN Band	WWAN Band	Exposure position	1.MAX. WWAN SAR (W/kg)	2.MAX. WWAN SAR (W/kg)	3.MAX. WLAN2.4G SAR (W/kg)	4.MAX WLAN 5G SAR (W/kg)	5.MAX. BT SAR (W/kg)	Summed SAR 1+2+3	Summed SAR 1+2+4	Summed SAR 1+2+5	Volume scan
		Left Touch	0.176	0.581	0.324	0.834	0.233	1.081	1.591	0.990	NO
LTE	FR1	Left Tilt	0.036	0.11	0.081	0.211	0.057	0.227	0.357	0.203	NO
Band 13	N66	Right Touch	0.076	0.259	0.16	0.420	0.105	0.495	0.755	0.440	NO
		Right Tilt	0.02	0.065	0.036	0.095	0.024	0.121	0.180	0.109	NO
		Left Touch	0.537	0.116	0.324	0.834	0.233	0.977	1.487	0.886	NO
FR1	LTE	Left Tilt	0.161	0.022	0.081	0.211	0.057	0.264	0.394	0.240	NO
N41	Band 12	Right Touch	1.13	0.012	0.16	0.420	0.105	1.306	1.566	1.251	NO
		Right Tilt	0.592	0.011	0.036	0.095	0.024	0.639	0.698	0.627	NO
		Left Touch	0.581	0.116	0.324	0.834	0.233	1.021	1.531	0.930	NO
FR1	LTE Band	Left Tilt	0.11	0.022	0.081	0.211	0.057	0.213	0.343	0.189	NO
N66	12	Right Touch	0.259	0.012	0.16	0.420	0.105	0.431	0.691	0.376	NO
		Right Tilt	0.065	0.011	0.036	0.095	0.024	0.112	0.171	0.100	NO
		Left Touch	0.175	0.477	0.324	0.834	0.233	0.976	1.486	0.885	NO
FR1	LTE	Left Tilt	0.036	0.026	0.081	0.211	0.057	0.143	0.273	0.119	NO
N71	Band 7	Right Touch	0.082	0.061	0.16	0.420	0.105	0.303	0.563	0.248	NO
		Right Tilt	0.021	0.014	0.036	0.095	0.024	0.071	0.130	0.059	NO

Simultaneous Transmission SAR Summation Scenario for body

Jillultai	icous irai	ISINISSION SAR SU	iiiiiiatioii	Occitatio i	or body						
WWAN Band	WWAN Band	Exposure position	1.MAX. WWAN SAR (W/kg)	2.MAX. WWAN SAR (W/kg)	3.MAX. WLAN2.4G SAR (W/kg)	4.MAX BT SAR (W/kg)	5.MAX. WLAN5G SAR (W/kg)	Summed SAR 1+2+3	Summed SAR 1+2+4	Summed SAR 1+2+5	Volume scan
		Front	0.095	0.172	0.045	0.056	0.176	0.312	0.323	0.443	NO
		Back	0.099	0.264	0.072	0.077	0.219	0.435	0.440	0.582	NO
LTE	FR1	Left	0.134	0.189	0.032	0.061	0.19	0.355	0.384	0.513	NO
Band 7	N71	Right	0.01	0.176	0.085	0.054	0.177	0.271	0.240	0.363	NO
		Тор	0.025	0.024	0.047	0.007	0.019	0.096	0.056	0.068	NO
		Bottom	0.023	0.139	0.002	0.045	0.139	0.164	0.207	0.301	NO
		Front	0.132	0.227	0.045	0.056	0.176	0.404	0.415	0.535	NO
		Back	0.21	0.236	0.072	0.077	0.219	0.518	0.523	0.665	NO
LTE	FR1	Left	0.14	0.311	0.032	0.061	0.19	0.483	0.512	0.641	NO
Band 12	N41	Right	0.13	0.023	0.085	0.054	0.177	0.238	0.207	0.330	NO
		Тор	0.016	0.065	0.047	0.007	0.019	0.128	0.088	0.100	NO
		Bottom	0.102	0.011	0.002	0.045	0.139	0.115	0.158	0.252	NO
LTE	FR1	Front	0.132	0.165	0.045	0.056	0.176	0.342	0.353	0.473	NO
Band	N66	Back	0.21	0.172	0.072	0.077	0.219	0.454	0.459	0.601	NO



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12		Left	0.14	0.227	0.032	0.061	0.19	0.399	0.428	0.557	NO
		Right	0.13	0.026	0.085	0.054	0.177	0.241	0.210	0.333	NO
		Тор	0.016	0.046	0.047	0.007	0.019	0.109	0.069	0.081	NO
		Bottom	0.102	0.043	0.002	0.045	0.139	0.147	0.190	0.284	NO
		Front	0.165	0.165	0.045	0.056	0.176	0.375	0.386	0.506	NO
		Back	0.258	0.172	0.072	0.077	0.219	0.502	0.507	0.649	NO
LTE Band	FR1	Left	0.182	0.227	0.032	0.061	0.19	0.441	0.470	0.599	NO
13	N66	Right	0.164	0.026	0.085	0.054	0.177	0.275	0.244	0.367	NO
		Тор	0.018	0.046	0.047	0.007	0.019	0.111	0.071	0.083	NO
		Bottom	0.131	0.043	0.002	0.045	0.139	0.176	0.219	0.313	NO

Simultaneous Transmission SAR Summation Scenario for Extremity

WWAN Band	WWAN Band	Exposure position	1.MAX. WWAN SAR (W/kg)	2.MAX. WWAN SAR (W/kg)	3.MAX. WLAN2.4G SAR (W/kg)	4.MAX BT SAR (W/kg)	5.MAX. WLAN5G SAR (W/kg)	Summed SAR 1+2+3	Summed SAR 1+2+4	Summed SAR 1+2+5	Volume scan
LTE	FR1 N71	Front	0.226	0.664	0.146	0.183	0.981	1.036	1.073	1.871	NO
Band 7		Back	0.265	0.982	0.248	0.246	1.201	1.495	1.493	2.448	NO
LTE	FR1 N41	Front	0.351	0.59	0.146	0.183	0.981	1.087	1.124	1.922	NO
Band 12		Back	0.54	0.607	0.248	0.246	1.201	1.395	1.393	2.348	NO
LTE	FR1 N66	Front	0.351	0.469	0.146	0.183	0.981	0.966	1.003	1.801	NO
Band 12		Back	0.54	0.466	0.248	0.246	1.201	1.254	1.252	2.207	NO
LTE	FR1 N66	Front	0.622	0.469	0.146	0.183	0.981	1.237	1.274	2.072	NO
Band 13		Back	0.937	0.466	0.248	0.246	1.201	1.651	1.649	2.604	NO



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9 Equipment list

Test Platform	SPEAG DASY5 Professional
Location	Compliance Certification Services (Kunshan) Inc.
Software Reference	DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Hardware	Reference
i iaiuwai c	. 17616161166

Hardware Reference								
Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration		
\boxtimes	PC	HP	Core(rm)3.16G	CZCO48171H	N/A	N/A		
	Signal Generator	Agilent	E5182A	MY50142015	2021/09/24	2022/09/23		
	S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	2022/02/20	2023/02/19		
	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A		
\boxtimes	Wireless Communication Test Set	R&S	CMW500	159275	2021/10/12	2022/10/11		
\boxtimes	DAE	SPEAG	DAE4	1245	2022/05/30	2023/05/29		
\boxtimes	E-field PROBE	SPEAG	EX3DV4	7346	2022/03/30	2023/03/29		
\boxtimes	Dipole	SPEAG	D750V3	1188	2022/03/29	2025/03/28		
	Dipole	SPEAG	D835V2	4d114	2022/03/31	2025/03/30		
\boxtimes	Dipole	SPEAG	D1800V2	2d170	2022/03/31	2025/03/30		
	Dipole	SPEAG	D1900V2	5d136	2022/06/07	2025/06/06		
\boxtimes	Dipole	SPEAG	D2300V2	1096	2022/03/31	2025/03/30		
\boxtimes	Dipole	SPEAG	D2450V2	817	2022/04/01	2025/03/31		
\boxtimes	Dipole	SPEAG	D2600V2	1158	2022/03/31	2025/03/30		
\boxtimes	Dipole	SPEAG	D3500V2	1101	2021/09/09	2024/09/08		
\boxtimes	Dipole	SPEAG	D3700V2	1103	2021/09/09	2024/09/08		
\boxtimes	Dipole	SPEAG	D5GHzV2	1095	2022/06/01	2025/05/31		
	Electro Thermometer	DTM	DTM3000	3030	2021/10/17	2022/10/16		
	Amplifier	Mini-circuits	ZVE-8G	110405	N/A	N/A		
\boxtimes	Amplifier	Mini-circuits	ZHL-42	QA1331003	N/A	N/A		
\boxtimes	3db ATTENUATOR	MINI	MCL BW- S3W5	0533	N/A	N/A		
	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A		
	Dual Directional Coupler	Woken	20W couple	DOM2BHW1A1	N/A	N/A		
\boxtimes	SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A		



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\boxtimes	Twin SAM Phantom	SPEAG	QD000P40CD	1609	N/A	N/A
\boxtimes	ROBOT	SPEAG	TX60	F10/5E6AA1/A101	N/A	N/A
\boxtimes	ROBOT KRC	SPEAG	CS8C	F10/5E6AA1/C101	N/A	N/A
	LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A

Note: All the equipments are within the valid period when the tests are performed.

All measurement facilities used to collect the measurement data are located at

No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part, Kunshan City, Jiangsu Province, China.



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D



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Appendix A: Detailed System Check Results

The plots are showing as followings.

Appendix B: Detailed Test Results

The plots of worse case are showing as followings.

Appendix C: Calibration certificate

Appendix D: Photographs



