

Report No.: SEWM2206000064RG07

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FCC SAR TEST REPORT

Application No.: SEWM2206000064RG

Applicant:COOSEA GROUP (HK) COMPANY LIMITEDManufacturer:COOSEA GROUP (HK) COMPANY LIMITED

Product Name: Smart Phone

Model No.(EUT): SL201D

Brand Name: bounce

FCC ID: 2A28USL201D

Standards: FCC 47CFR §2.1093

Date of Receipt: 2022-06-06

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

Date of Issue: 2022-08-04
Test conclusion: PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2206000064RG01	01	Original	2022-08-04



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TEST SUMMARY

Fraguency Band	Max	Maximum Reported SAR(W/kg)				
Frequency Band	Head	Body-worn	Hotspot			
GSM850	0.28	0.41	0.48			
GSM1900	0.33	0.43	0.95			
WCDMA Band II	0.67	0.54	1.15			
WCDMA Band IV	0.76	0.51	0.95			
WCDMA Band V	0.27	0.39	0.43			
LTE Band 12	0.20	0.26	0.26			
LTE Band 25<E Band 2	0.91	0.42	0.95			
LTE Band 26<E Band 5	0.35	0.31	0.36			
LTE Band 30	0.17	0.29	1.00			
LTE Band 66<E Band 4	0.97	0.49	1.18			
LTE Band 71	0.09	0.20	0.23			
WI-FI (2.4GHz)	0.34	0.25	0.38			
WI-FI (5GHz)	0.74	0.87	0.27			
BT	< 0.10	< 0.10	< 0.10			
SAR Limited(W/kg)		1.6				
Frequency Band	Max	Maximum Reported SAR(W/kg)				
r requericy Ballo		Extremity				
WI-FI (5GHz)		1.47				
Maximum Simulta	neous Transmission	SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot			
Sum SAR	1.54	1.43	1.55			
SPLSR	N/A	N/A	N/A			
SPLSR Limited		0.04				

1) The Simultaneous transmission SAR is the same test position of the WWAN antenna + WiFi/BT antenna.
2) According to TCB workshop October,2014 RF Exposure Procedures Update(Overlapping LTE Bands), When the supported frequency range of an LTE Band falls completely within an LTE band with a larger transmission frequency range, both LTE bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range. For This device, LTE band 2/4/5 SAR test was covered by Band 25/66/26.

3) For LTE Band12/26/71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

Reviewed by

11 Wei'

Well Wei

Prepared by

Nick VI

Nick Hu



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1 General Information

1.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test Engineer:	Alan Zhang, Scola Zou



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1.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

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1.4 General Description of EUT

Device Type:	portable device				
Exposure Category:	uncontrolled environment /	uncontrolled environment / general population			
Product Name:	Smart Phone				
Model No.(EUT):	SL201D				
Trade Mark:	bounce				
FCC ID:	2A28USL201D				
Product Phase:	Identical Prototype				
IMEI:	355581700005010, 35558	31700004161			
Hardware Version:	1.0				
Software Version:	SL201DD10005				
Antenna Type:	Integrated				
Device Operating Configurations	:				
Modulation Mode:	GSM: GMSK, 8PSK; WCD LTE: QPSK,16QAM, 64Q WIFI: DSSS, OFDM; BT: (
Device Class:	В				
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12		
HSDPA UE Category:	24	HSUPA UE Category	7		
DC-HSDPA UE Category:	24	<u> </u>			
	4,tested with power level 5	(GSM850)			
Power Class:	1,tested with power level 0	(GSM1900)			
Power Class.	3, tested with power control	l "all up"(WCDMA Bands)			
	3, tested with power control	l Max Power(LTE Band)			
	Band	Tx (MHz)	Rx (MHz)		
	GSM 850	824 - 849	869 - 894		
	PCS 1900	1850 - 1910	1930 - 1990		
	WCDMA Band II	1850 -1910	1930 - 1990		
	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		
	LTE Band 12	699 - 716	729 - 746		
Frequency Bands:	LTE band 25	1850 - 1915	1930 - 1995		
requericy barius.	LTE Band 26	814 - 849	859 - 894		
	LTE Band 29	/	717 - 728		
	LTE Band 30	2305 - 2315	2350 - 2360		
	LTE band 66	1710 - 1780	2110 - 2200		
	LTE band 71	663 - 698	617 - 652		
	Bluetooth	2402~2480	2402~2480		
	Wi-Fi 2.4G	2412~2462	2412~2462		
		5150~5250	5150~5250		
	Wi-Fi 5G	5250~5350	5250~5350		
		5470~5725	5470~5725		
		5725~5850	5725~5850		
RF Cable:		d by the aplicant	oratory		
	Model:	BL-A41CT			
Datta mala farma at'	Normal Voltage:	3.8V			
Battery Information:	Rated capacity:				
		Manufacturer: Shenzhen Aerospace Electronic Co.,Ltd.			



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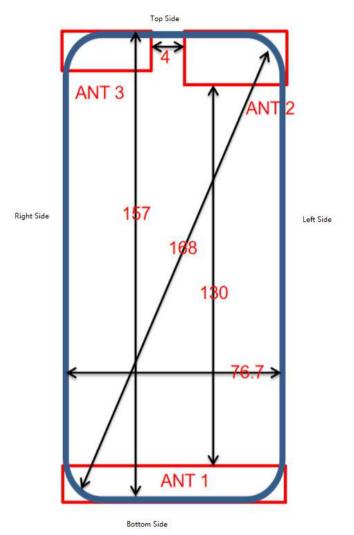
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1.4.1 DUT Antenna Locations(Back View)



Antenna	Support Band
Ant 1	GSM 850 WCDMA B5 LTE B5/B12/B26/B71/B30
Ant 2	GSM 1900 WCDMA B2/B4 LTE B2/B4/B25/B66
Ant 3	2.4GWIFI 5GWIFI BT

Note:

1) The test device is a smart phone. The overall diagonal dimension of this device is 168 mm.

According to the distance between antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom
WWAN Ant1	Hotspot	Yes	Yes	Yes	Yes	No	Yes
WWAN Ant2	Hotspot	Yes	Yes	Yes	No	Yes	No
WiFi2.GHz/WiFi5GHz /BT	Hotspot	Yes	Yes	No	Yes	Yes	No

Table 1: EUT Sides for SAR Testing

Note: When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.



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1.4.2 Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation

- 1) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) A fixed level power reduction is applied for some frequency bands when handset operate "held to the ear" condition, the power reduction triggered by audio receiver detection. The audio receiver detection is used to determine head or body scenario.

The following tables summarize the key power reduction information. The detailed full power which is the Max. power the state can use and reduced tune-up specifications and conducted power measurement results are provided in Section 8 of this report.

Main antenna(Ant0) Power Level(dBm)					
Power Reduction Scenario WCDMA II WCDMA IV LTE B25&B2 LTE B66&B4					
Receiver off	24.00	24.00	25.00	25.00	
Receiver on	18.00	18.00	19.00	19.00	

WiFi antenna Power Level(dBm)					
Power Reduction Scenario Receiver Off Receiver On					
	802.11b	21.00	16.00		
WiFi 2.4G	802.11g	19.50	14.50		
VVIF1 2.4G	802.11n 20M	18.00	13.00		
	802.11n 40M	18.00	13.00		

WiFi antenna Power Level(dBm)						
Power Reduction Scenario Receiver Off Receiver On						
	802.11a U-NII-1	20.00	12.00			
	802.11a U-NII-2A	20.00	12.00			
	802.11a U-NII-2C	20.00	12.00			
	802.11a U-NII-3	20.00	12.00			
	802.11n 20M U-NII-1	17.50	12.00			
	802.11n 20M U-NII-2A	17.50	12.00			
	802.11n 20M U-NII-2C	17.50	12.00			
	802.11n 20M U-NII-3	17.50	12.00			
WiFi 5G	802.11n 40M U-NII-1	17.50	12.00			
WIFI 3G	802.11n 40M U-NII-2A	17.50	12.00			
	802.11n 40M U-NII-2C	17.50	12.00			
	802.11n 40M U-NII-3	17.50	12.00			
	802.11ac 20M U-NII-1	16.50	12.00			
	802.11ac 20M U-NII-2A	16.50	12.00			
	802.11ac 20M U-NII-2C	16.50	12.00			
	802.11ac 20M U-NII-3	16.50	12.00			
	802.11ac 40M U-NII-1	16.00	12.00			
	802.11ac 40M U-NII-2A	16.00	12.00			



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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 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 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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1.6 RF exposure limits

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

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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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ambient noise is checked and found very low and in Reflection of surrounding objects is minimized and in	

Table 2: The Ambient Conditions



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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.

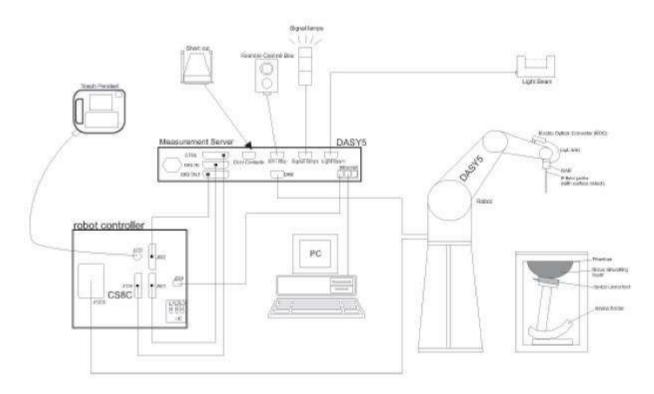
The DASY5 system for performing compliance tests consists of the following items:

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.



F-1. SAR Measurement System Configuration



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- 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 validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	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 calibration service 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 μ W/g to > 100 mW/g Linearity: \pm 0.2 dB (noise: typically < 1 μ W/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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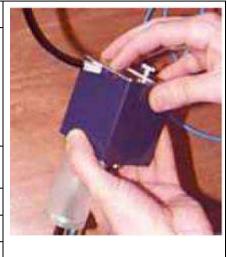


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3.3 Data Acquisition Electronics (DAE)

Model	DAE
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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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)		
Liquid	Compatible with all SPEAG tissue		
Compatibility	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 32mm*32mm*30mm (f≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). 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	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	½·δ·ln(2) ± 0.5 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}			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan s	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 grid: $\Delta z_{Z\infty m}(n)$		$3 - 4 \text{ GHz}$: $\leq 4 \text{ m}$ $\leq 5 \text{ mm}$ $4 - 5 \text{ GHz}$: $\leq 3 \text{ m}$ $5 - 6 \text{ GHz}$: $\leq 2 \text{ m}$		
Maximum zoom scan spatial resolution, normal to phantom surface	graded	$\Delta z_{Z_{0om}}(1)$: between 1st two points closest to phantom surface		≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
grid Δz _{Zoom} (n>1): between subsequent points			$\leq 1.5 \cdot \Delta z_{Z_{00m}}(n-1)$		
Minimum zoom scan volume x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm		

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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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 ".DAE4". 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 factorDiode compression pointDcpi

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)

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:

$$E_{i} = (V_{i} / Norm_{i} \cdot ConvF)^{1/2}$$



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H-field probes:

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

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

Normi = sensor sensitivity of channel I

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

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.

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

SAR = local specific absorption rate in mW/g with

Etot = total field strength in V/m

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

ε= equivalent tissue density in q/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.

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

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 \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 ($\sim 10\%$ 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.

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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5 Description of Test Position

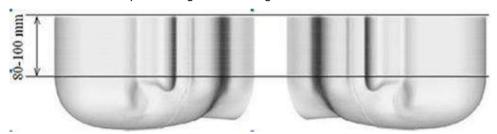
5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

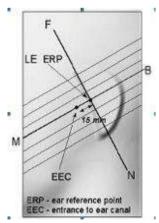


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

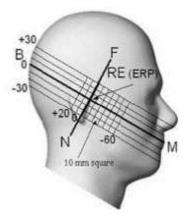
Note: The centre strip including the nose region has a different thickness tolerance.



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



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



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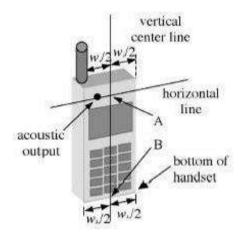
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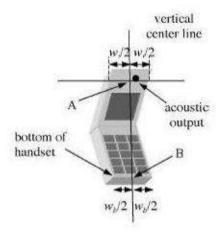
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5.1.2 EUT constructions



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.



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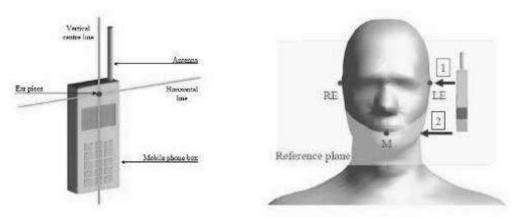
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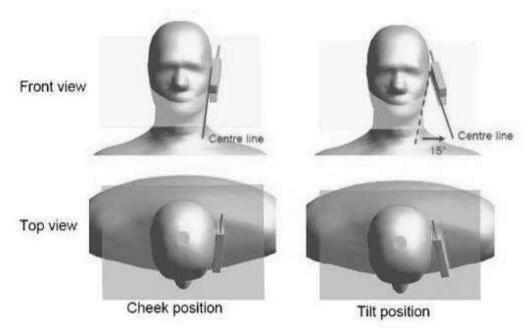
5.1.4 Definition of the "tilted" position

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.



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 Body Exposure Condition

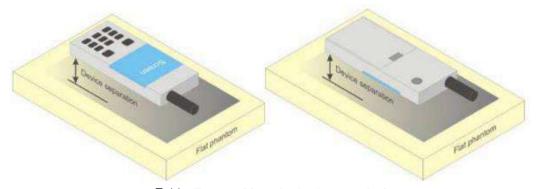
5.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Bodyworn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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 back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices



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5.2.2 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 \geq 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.

5.3 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, No frequency band to be test with 0mm for the Product Specific 10-g SAR





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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:

9			0 1		,			
Ingredients	Frequency (MHz)							
(% by weight)	450	700-900	700-900 1750-2000		2500-2700			
Water	38.56	40.30	55.24	55.00	54.92			
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23			
Sucrose	56.32	57.90	0	0	0			
HEC	0.98	0.24	0	0	0			
Bactericide	0.19	0.18	0	0	0			
Tween	0	0	44.45	44.80	44.85			

Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

Water: 50-65%
Mineral oil: 10-30%
Emulsifiers: 8-25%
Sodium salt: 0-1.5%

Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

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 $22\pm2^{\circ}$ C.

	Measurement for Tissue Simulate Liquid								
T	Measured Frequency	Target Tissue (±5%)		Measured Tissue		Liquid Temp.			
Tissue Type	(MHz)	ϵ_{r} $\sigma(S/m)$		ε _r	ϵ_{r} $\sigma(S/m)$		Test Date		
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	42.560	0.890	22.4	2022-06-20		
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	42.750	0.936	22.3	2022-06-25		
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.757	1.332	22.2	2022-06-30		
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	39.910	1.426	22.5	2022-07-01		
2300 Head	2300	39.5 (37.53~41.48)	1.67 (1.59~1.75)	40.370	1.666	22.3	2022-07-03		
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	39.921	1.821	22.4	2022-06-27		
5250Head	5250	35.9 (34.11~37.70)	4.66 (4.47~4.95)	36.510	4.711	22.1	2022-07-05		
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	35.640	5.094	22.3	2022-07-06		
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	35.460	5.284	22.4	2022-07-07		

Table 3: Measurement result of Tissue electric parameters



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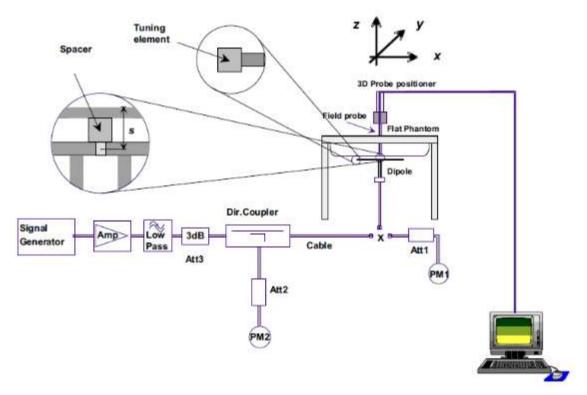


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6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. 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 (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). 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±0.5 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 check



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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)

Ambient condition	(20~24℃)/ (30%~70%)	Checked by		Test standards	FCC 47CFR §2.1093 ANSI/IEEE C95.1-1992 IEEE 1528-2013					
	SAR System Validation Result(s)									
Validation 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. (℃)	Test Date	
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	, ,		
D750V3	Head	2.21	1.47	8.84	5.88	8.48 (7.63~9.33)	5.56 (5.00~6.12)	22.4	2022-06-20	
D835V2	Head	2.45	1.61	9.80	6.44	9.52 (8.57~10.47)	6.17 (5.55~6.79)	22.3	2022-06-25	
D1750V2	Head	9.69	5.14	38.76	20.56	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.2	2022-06-30	
D1900V2	Head	10.60	4.96	42.40	19.84	39.7 (35.73~43.67)	20.3 (18.27~22.33)	22.5	2022-07-01	
D2300V2	Head	12.8	6.1	51.20	24.40	49.3 (44.37~54.23)	23.1 (20.79~25.41)	22.3	2022-07-03	
D2450V2	Head	13.10	6.10	52.40	24.40	52.2 (46.98~57.42)	24.5 (22.05~26.95)	22.4	2022-06-27	
Valida	Measured SAR 100mW 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.	Test Date		
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	(°C)		
	Head(5.25GHz)	7.48	2.15	74.80	21.50	78 (70.2~85.8)	21.8 (19.62~23.98)	22.1	2022-07-05	
D5GHzV2	Head(5.6GHz)	8.26	2.36	82.60	23.60	79.9 (71.91~87.89)	22.5 (20.25~24.75)	22.3	2022-07-06	
	Head(5.75GHz)	7.55	2.38	75.50	23.80	76.4 (68.76~84.04)	21.2 (19.08~23.32)	22.4	2022-07-07	

Table 4: SAR System Check Result

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 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using CMW500 the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

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

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode

7.2.2 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



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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

3) . 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

According to KDB 941225 D01v03, 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.

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 forβc/βd =12/15, βhs/βc=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.



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

The measurements were penormed with a rixed r	distribution (1 100) and 11 cot 1 Q1 cit.
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

Table 5: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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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

Table 6: HSDPA UE category

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₽	βοσ	βd↔	βd (SF)θ	β₀∕β₫₽	β _{hs} (1	β _{ec+} 2	$\beta_{\text{ed}} \varphi$	β _e _{e+1} (SF)+2	β _{ed} ↔ (code)↔	CM(2)+ (dB)+	MP R↓ (dB)↓	AG(4)+ ¹ Inde x+ ¹	E- TFC I
1₽	11/15(3)+3	15/15(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(3)(64₽	11/15(3)+3	22/15₽	209/22 5₽	1039/2250	4 0	10	1.0₽	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₽	67₽
3₽	15/150	9/15₽	64₽	15/94	30/15₽	30/15₽	β _{ad1} :47/1 5 ₄ β _{ed2:} 47/1 5 ₄	4₽	2₽	2.0₽	1.0₽	150	92₽
4€	2/15₽	15/15₽	64₽	2/15∉	4/15₽	2/15₽	56/75₽	4₽	1₽	3.0₄	2.0₽	17₽	71₽
5₽	15/15(4)43	15/15(4)(3	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4€	1₽	1.0∉	0.0₽	210	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 β_c/β_d = 12/15, β_{hs}/β_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: βed can not be set directly; it is set by Absolute Grant Value.

Table 7: Subtests for UMTS Release 6 HSUPA

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 4500
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).

Table 8: HSUPA UE category



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c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/lor	dB	-10
P-CCPCH and SCH_Ec/lor	dB	-12
PICH _Ec/lor	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/lor	dB	-5
OCNS_Ec/lor	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

	· · · · · · · · · · · · · · · · · · ·
Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 9: settings of required H-Set 12 QPSK acc. to 3GPP 34.121

Note:

- 1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
- 2. Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.



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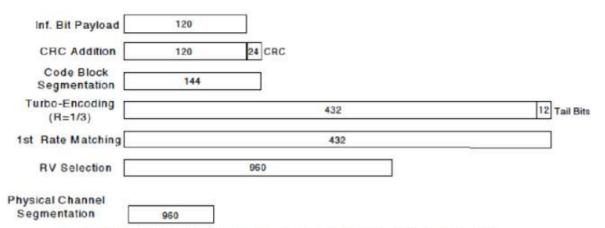


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test₽	βc₽	$eta_{\mathbf{d}^\wp}$	β _d ·(SF)₽	$\beta_c \cdot / \beta_{d^{e}}$	β _{hs} (1)	CM(dB)(2)	MPR (dB)
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	0₽
2₽	12/15(3)	15/15(3)	64₽	12/15(3)	24/15₽	1.0₽	0₽
3₽	15/15₽	8/15₽	64₽	15/8₽	30/15₽	1.5₽	0.5₽
4₽	15/15₽	4/15₽	64₽	15/4₽	30/15₽	1.5₽	0.5₽

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

Note 2: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1,TF1) to $\beta_c=11/15$ and $\beta_d=15/15$.

Up commands are set continuously to set the UE to Max power.

Note:

- 1. The Dual Carriers transmission only applies to HSDPA physical channels
- 2. The Dual Carriers belong to the same Node and are on adjacent carriers.
- 3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
- 4. The Dual Carriers operate in the same frequency band.
- 5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
- 6. The device doesn't support carrier aggregation for it just can operate in Release 8.



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d) HSPA+

Per KDB941225D01, SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

_ Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

- 1	Sub-	β _c ₊∣	βd⁴	βнs⊬	β _{ec} ₊	β _{ed} ₊	β _{ed} ₊	CM₽	MPR√	AG√	E-TFCI	E-TFCI	÷
	test₽	(Note3)₽		(Note1)₽	₽	(2xSF2) ↔		(dB) <i>⊷</i>	1/		(Note 5)	(boost)₽	l
						(Note 4)₽	(Note 4)₽	(Note 2)⊹	(Note 2)⊹	(Note 4)₽			l
F	1₽	1₽	04□	30/15₽	30/15	βed1: 30/15↔	βed3: 24/15↔	3.5₽	2.5₽	14₽	105₽	105₽	÷
						βed2: 30/15₽	βed4: 24/15₽						

Note 1: \triangle ACK, \triangle NACK and \triangle CQI = 30/15 with β_{hs} = 30/15 * β_c .

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_0 is set to 1 and $\beta_d = 0$ by default.

Note 4: βed can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.



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7.2.3 WiFi 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.

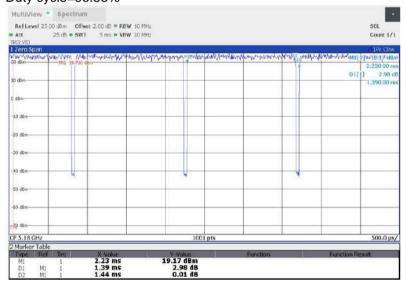
7.2.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=99.64%



2) Wi-Fi 5GHz 802.11a: Duty cycle=96.53%





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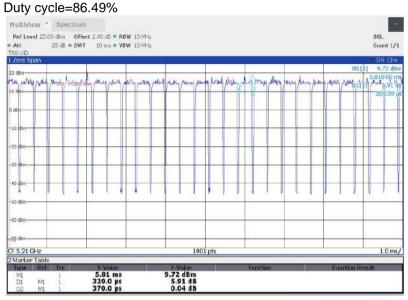
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3) Wi-Fi 5GHz 802.11ac-80M:





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7.2.3.2 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 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.

7.2.3.3 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.

7.2.3.4 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.



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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.

- 2) 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 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.
- 3) . 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"



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7.2.3.5 2.4 GHz WiFi 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:

- 1) . 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.

SAR Test Requirements for OFDM configurations

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



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7.2.3.6 5 GHz WiFi 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 band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 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.
- 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.



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• 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.

- The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) 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.
- 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.
- 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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7.2.4 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 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Channe	MPR (dB)					
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	>4	> 8	> 12	> 16	> 18	. ≤1
16 QAM	≤5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤4	≤8	≤ 12	≤ 16	≤ 18	≤2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤3
256 QAM				≥ 1			≤ 5

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.

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 > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.



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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 > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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8 Test Result

8.1 Measurement of RF conducted Power

8.1.1 Conducted Power of GSM

	GSM 850 Full Power												
В	urst Output Pow	er(dBm)			Tungun	Division Factors	Frame-Ave	rage Output F	Power(dBm)	Tuna un			
Channel		128	190	251	Tune up	DIVISION FACIOIS	128	190	251	Tune up			
GSM(GMSK)	GSM	32.51	32.67	32.68	34.00	-9.19	23.32	23.48	23.49	24.81			
GPRS/EGPRS	1 TX Slot	32.73	32.71	32.74	34.00	-9.19	23.54	23.52	23.55	24.81			
	2 TX Slots	31.78	31.76	31.72	32.00	-6.18	25.60	25.58	25.54	25.82			
(GMSK)	3 TX Slots	29.84	29.75	29.82	30.00	-4.42	25.42	25.33	25.40	25.58			
	4 TX Slots	28.77	28.79	28.76	29.00	-3.17	25.60	25.62	25.59	25.83			
	1 TX Slot	26.39	26.41	26.43	27.00	-9.19	17.20	17.22	17.24	17.81			
ECDDC(0DCK)	2 TX Slots	25.43	25.04	25.27	26.00	-6.18	19.25	18.86	19.09	19.82			
EGPRS(8PSK)	3 TX Slots	23.17	22.83	23.13	24.00	-4.42	18.75	18.41	18.71	19.58			
	4 TX Slots	21.86	21.81	21.78	22.00	-3.17	18.69	18.64	18.61	18.83			

	GSM 1900 Full Power												
В	urst Output Pow	er(dBm)			Tune up	District Frantson	Frame-Ave	rage Output F	Power(dBm)	Tungun			
Chani	nel	512	661	810	Turie up	Division Factors	512	661	810	Tune up			
GSM(GMSK)	GSM	29.68	29.50	29.31	31.00	-9.19	20.49	20.31	20.12	21.81			
GPRS/EGPRS	1 TX Slot	29.31	29.37	29.31	31.00	-9.19	20.12	20.18	20.12	21.81			
	2 TX Slots	28.39	28.43	28.41	28.50	-6.18	22.21	22.25	22.23	22.32			
(GMSK)	3 TX Slots	26.43	26.45	26.42	27.00	-4.42	22.01	22.03	22.00	22.58			
	4 TX Slots	25.33	25.37	25.32	26.50	-3.17	22.16	22.20	22.15	23.33			
	1 TX Slot	26.03	26.08	25.93	27.00	-9.19	16.84	16.89	16.74	17.81			
ECDDS(ODSK)	2 TX Slots	24.81	25.11	24.83	26.00	-6.18	18.63	18.93	18.65	19.82			
EGPRS(8PSK)	3 TX Slots	22.91	23.01	22.91	24.00	-4.42	18.49	18.59	18.49	19.58			
	4 TX Slots	21.44	21.48	21.31	22.00	-3.17	18.27	18.31	18.14	18.83			

GSM 1900 Receiver on												
В	urst Output Pow	er(dBm)			Tungun	Division Factors	Frame-Ave	rage Output F	Power(dBm)	T		
Channel		512	661	810	Tune up	Division Factors	512	661	810	Tune up		
GSM(GMSK)	GSM	23.78	23.81	23.55	25.00	-9.19	14.59	14.62	14.36	15.81		
	1 TX Slot	23.98	23.94	23.97	25.00	-9.19	14.79	14.75	14.78	15.81		
GPRS/EGPRS	2 TX Slots	22.39	22.38	22.34	22.50	-6.18	16.21	16.20	16.16	16.32		
(GMSK)	3 TX Slots	20.84	20.95	20.88	21.00	-4.42	16.42	16.53	16.46	16.58		
	4 TX Slots	19.99	19.88	19.61	20.50	-3.17	16.82	16.71	16.44	17.33		
	1 TX Slot	20.41	20.46	20.35	21.00	-9.19	11.22	11.27	11.16	11.81		
ECDDS(0DSK)	2 TX Slots	19.23	19.18	19.14	20.00	-6.18	13.05	13.00	12.96	13.82		
EGPRS(8PSK)	3 TX Slots	17.04	17.04	17.12	18.00	-4.42	12.62	12.62	12.70	13.58		
	4 TX Slots	15.68	15.87	15.64	16.00	-3.17	12.51	12.70	12.47	12.83		

Note:

1) . CMW500 measures GSM peak and average output power for active timeslots. For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:



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No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 3) . When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used



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8.1.2 Conducted Power of WCDMA

1.2 Gonadotea	FOWEI OI WCDIVIA				
	W	CDMA Band II Full Po	ower		
	Ave	rage Conducted Power	r(dBm)		
(Channel	9262	9400	9538	Tune up
MODMA	12.2kbps RMC	23.22	23.26	23.19	24.00
WCDMA	12.2kbps AMR	22.98	23.01	22.87	24.00
	Subtest 1	21.90	22.18	21.82	23.00
LIODDA	Subtest 2	22.03	21.93	21.89	23.00
HSDPA	Subtest 3	21.43	21.52	21.44	22.50
	Subtest 4	21.48	21.41	21.38	22.50
	Subtest 1	22.09	22.20	22.05	23.00
	Subtest 2	21.95	21.94	21.90	23.00
HSUPA	Subtest 3	21.44	21.34	21.31	22.50
	Subtest 4	21.47	21.57	21.30	22.50
	Subtest 5	22.09	21.97	21.98	23.00
	Subtest 1	19.80	20.02	19.81	21.00
DO HODDA	Subtest 2	21.02	21.01	20.81	22.00
DC-HSDPA	Subtest 3	19.84	19.96	19.85	21.00
	Subtest 4	22.14	22.02	21.99	23.00
HSPA+	16QAM	22.91	22.79	22.67	24.00

	WCDMA Band II Receiver on										
	Average Conducted Power(dBm)										
C	Channel	9262	9400	9538	Tune up						
WCDMA	12.2kbps RMC	17.03	17.06	16.96	18.00						
WCDMA	12.2kbps AMR	16.83	16.68	16.74	18.00						
	Subtest 1	15.73	16.17	15.74	17.00						
HSDPA	Subtest 2	15.74	15.82	15.69	17.00						
HODPA	Subtest 3	15.41	15.42	15.40	16.50						
	Subtest 4	15.34	15.16	15.34	16.50						
	Subtest 1	16.07	15.99	16.04	17.00						
	Subtest 2	15.85	15.67	15.85	17.00						
HSUPA	Subtest 3	15.37	15.09	14.98	16.50						
	Subtest 4	15.25	15.48	15.17	16.50						
	Subtest 5	15.85	15.93	15.67	17.00						
	Subtest 1	13.56	13.68	13.50	15.00						
DC-HSDPA	Subtest 2	14.97	14.70	14.64	16.00						
DC-H2DFA	Subtest 3	13.74	13.74	13.80	15.00						
	Subtest 4	16.05	15.87	15.81	17.00						
HSPA+	16QAM	16.68	16.77	16.52	18.00						



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	WCDMA Band IV Full Power										
	Aver	age Conducted Powe	r(dBm)								
Channel		1312	1412	1513	Tune up						
WCDMA	12.2kbps RMC	22.55	22.58	22.57	24.00						
VVCDIVIA	12.2kbps AMR	22.38	22.38	22.46	24.00						
	Subtest 1	21.33	21.50	21.47	23.00						
HSDPA -	Subtest 2	21.40	21.57	21.37	23.00						
ПОДРА	Subtest 3	20.90	21.01	20.84	22.50						
	Subtest 4	20.95	20.98	21.07	22.50						
	Subtest 1	21.43	21.53	21.44	23.00						
	Subtest 2	21.53	21.56	21.48	23.00						
HSUPA	Subtest 3	20.94	20.99	20.92	22.50						
	Subtest 4	20.97	20.87	20.94	22.50						
	Subtest 5	21.37	21.33	21.38	23.00						
	Subtest 1	19.54	19.59	19.46	21.00						
DC-HSDPA	Subtest 2	20.42	20.51	20.63	22.00						
חס-חסטרא	Subtest 3	19.52	19.43	19.54	21.00						
	Subtest 4	21.43	21.35	21.39	23.00						
HSPA+	16QAM	22.37	22.42	22.27	24.00						

	WC	DMA Band IV Receiv	er on									
	Average Conducted Power(dBm)											
Channel		1312	1412	1513	Tune up							
MODAAA	12.2kbps RMC	17.1	17.15	17.08	18.00							
WCDMA	12.2kbps AMR	16.19	16.32	16.41	18.00							
	Subtest 1	15.26	15.30	15.23	17.00							
HSDPA -	Subtest 2	15.18	15.24	15.22	17.00							
HSDPA	Subtest 3	14.55	14.69	14.54	16.50							
	Subtest 4	14.64	14.82	14.93	16.50							
	Subtest 1	15.11	15.37	15.12	17.00							
	Subtest 2	15.31	15.55	15.14	17.00							
HSUPA	Subtest 3	14.79	14.69	14.81	16.50							
	Subtest 4	14.88	14.72	14.74	16.50							
	Subtest 5	15.12	15.16	15.26	17.00							
	Subtest 1	13.22	13.41	13.14	15.00							
DC HCDDA	Subtest 2	14.16	14.49	14.31	16.00							
DC-HSDPA	Subtest 3	13.22	13.37	13.27	15.00							
Ī	Subtest 4	15.23	15.14	15.27	17.00							
HSPA+	16QAM	16.23	16.16	16.20	18.00							



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	WCDMA Band V Full Power										
	Average Conducted Power(dBm)										
С	hannel	4132	4182	4233	Tune up						
WCDMA	12.2kbps RMC	23.01	23.03	22.96	24.00						
VVCDIVIA	12.2kbps AMR	22.91	22.91	22.77	24.00						
	Subtest 1	22.08	22.02	22.08	23.00						
HSDPA	Subtest 2	22.15	21.88	22.09	23.00						
HODPA	Subtest 3	21.50	21.46	21.40	22.50						
	Subtest 4	21.44	21.39	21.44	22.50						
	Subtest 1	21.98	22.08	22.12	23.00						
	Subtest 2	21.96	22.01	21.90	23.00						
HSUPA	Subtest 3	21.51	21.53	21.63	22.50						
	Subtest 4	21.44	21.60	21.52	22.50						
	Subtest 5	22.06	22.01	22.02	23.00						
	Subtest 1	20.02	20.08	19.94	21.00						
DC-HSDPA	Subtest 2	21.19	20.90	20.96	22.00						
DC-UODPA	Subtest 3	20.19	19.89	19.93	21.00						
	Subtest 4	21.94	22.03	21.90	23.00						
HSPA+	16QAM	23.00	22.72	22.88	24.00						

Note:

1) when the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.



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8.1.3 Conducted Power of LTE

		r of LTE						
	LTE Ba	and 2		Conducted Power(dBm)				
Bandwidth	Modulation	DD -:	RB offset	Channel	Channel	Channel	Tune up	
Danuwium	Modulation	RB size	KD Ollset	18607	18900	19193	Turie up	
		1	0	23.21	23.23	23.20	25.00	
		1	2	23.10	23.00	23.09	25.00	
		1	5	23.05	23.16	23.01	25.00	
	QPSK	3	0	22.29	22.51	22.14	24.00	
		3	2	22.29	22.20	22.08	24.00	
		3	3	22.26	22.16	22.12	24.00	
		6	0	22.23	22.25	22.11	24.00	
		1	0	22.00	22.14	22.00	24.00	
		1	2	22.36	22.34	22.13	24.00	
		1	5	22.02	22.03	22.01	24.00	
1.4MHz	16QAM	3	0	21.18	21.24	21.15	23.00	
		3	2	21.18	21.04	21.20	23.00	
		3	3	21.13	21.28	21.19	23.00	
		6	0	21.20	21.19	21.15	23.00	
	64QAM	1	0	21.27	21.20	21.52	23.00	
		1	2	21.46	21.36	21.44	23.00	
		1	5	21.54	21.33	21.25	23.00	
		3	0	20.30	20.51	20.36	22.00	
		3	2	20.38	20.23	20.17	22.00	
		<u>3</u>	0	20.44 20.17	20.37 20.26	20.29	22.00 22.00	
		6	0	Channel	Channel	20.16 Channel	22.00	
Bandwidth	Modulation	RB size RB offset	RB offset	18615	18900	19185	Tune up	
		1	0	23.18	23.22	23.18	25.00	
		1	7	23.05	23.21	23.01	25.00	
		1	14	23.04	23.11	23.07	25.00	
	QPSK	8	0	22.31	22.47	22.22	24.00	
		8	4	22.17	22.21	22.14	24.00	
		8	7	22.18	22.10	22.03	24.00	
		15	0	22.43	22.25	22.04	24.00	
		1	0	22.03	22.18	22.07	24.00	
		1	7	22.28	22.17	22.15	24.00	
		1	14	22.05	22.02	22.03	24.00	
3MHz	16QAM	8	0	21.22	21.23	21.21	23.00	
		8	4	21.24	21.08	21.02	23.00	
		8	7	21.02	21.23	21.30	23.00	
		15	0	21.21	21.08	21.06	23.00	
		1	0	21.27	21.53	21.42	23.00	
		1	7	21.22	21.25	21.25	23.00	
		1	14	21.44	21.47	21.32	23.00	
	64QAM	8	0	20.33	20.52	20.42	22.00	
		8	4	20.20	20.20	20.26	22.00	
		8	7	20.29	20.48	20.44	22.00	
		15	0	20.34	20.38	20.17	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
	Wodalation	ND SIZE	TLD Olloct	18625	18900	19175		
5MHz	QPSK	1	0	23.14	23.21	23.18	25.00	
JIVII 12	Qi Oil	1	13	23.09	23.13	23.11	25.00	



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		1	24	23.05	23.18	23.11	25.00
		12	0	22.47	22.28	22.13	24.00
		12	6	22.15	22.18	22.09	24.00
		12	13	22.17	22.16	22.06	24.00
		25	0	22.42	22.31	22.26	24.00
		1	0	22.23	22.22	22.00	24.00
		1	13	22.19	22.22	22.09	24.00
		1	24	22.06	22.05	22.22	24.00
	16QAM	12	0	21.15	21.19	21.25	23.00
		12	6	21.38	22.22	21.18	23.00
		12	13	21.12	21.30	21.18	23.00
		25	0	21.17	21.18	21.16	23.00
		1	0	21.54	21.45	21.28	23.00
		1	13	21.36	21.51	21.20	23.00
		1	24	21.28	21.19	21.24	23.00
	64QAM	12	0	20.35	20.47	20.21	22.00
		12	6	20.34	20.45	20.35	22.00
		12	13	20.47	20.29	20.51	22.00
	<u> </u>	25	0	20.37	20.27	20.31	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Modulation	KD SIZE	KD Ollset	18650	18900	19150	rune up
		1	0	23.07	23.24	23.01	25.00
		1	25	23.14	23.07	23.19	25.00
		1	49	23.10	23.23	23.01	25.00
	QPSK	25	0	22.50	22.49	22.25	24.00
		25	13	22.09	22.25	22.08	24.00
		25	25	22.16	22.13	22.09	24.00
		50	0	22.45	22.27	22.16	24.00
		1	0	22.03	22.13	22.28	24.00
		1	25	22.22	22.16	22.04	24.00
		1	49	22.09	22.05	22.27	24.00
10MHz	16QAM	25	0	21.14	21.30	21.04	23.00
		25	13	21.39	21.23	21.05	23.00
		25	25	21.10	21.33	21.12	23.00
		50	0	21.27	21.03	21.36	23.00
		1	0	21.55	21.44	21.27	23.00
		1	25	21.43	21.25	21.30	23.00
		1	49	21.23	21.19	21.34	23.00
	64QAM	25	0	20.18	20.41	20.27	22.00
		25	13	20.39	20.30	20.39	22.00
		25	25	20.26	20.17	20.24	22.00
		50	0	20.54	20.54	20.25	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125	Tune up
		1	0	23.16	23.22	23.04	25.00
		1 1	38	23.19	23.22	23.16	25.00
		<u></u>	74	23.19	23.10	23.16	25.00
	QPSK	36	0	22.30	23.10	22.26	24.00
	QI OIN	36	18	22.30	22.31	22.22	24.00
		36	39	22.17	22.14	22.03	24.00
		75	0	22.45	22.42	22.10	24.00
15MHz		1	0	22.43	22.24	22.14	24.00
		1	38	22.24	22.35	22.03	24.00
		1	74	22.17	22.01	22.03	24.00
	16QAM	36	0	21.18	21.24	21.14	23.00
	IOGAIN	36	18	21.17	21.02	21.13	23.00
		36	39	21.30	21.34	21.17	23.00
		75	0	21.22	21.15	21.08	23.00



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Bandwidth 1								
Bandwidth			1	0	21.30	21.28	21.20	23.00
Bandwidth 36			1	38	21.29	21.38	21.54	23.00
Bandwidth Modulation RB size RB offset Channel Channel Channel Channel Channel Channel Tune up			1	74	21.22	21.36	21.52	23.00
Bandwidth Modulation RB size RB offset Channel Channel Channel Channel Tune up		64QAM	36	0	20.40	20.17	20.54	22.00
Pandwidth Modulation RB size RB offset Channel Channel Channel Channel Tune up			36	18	20.52	20.18	20.35	22.00
Pandwidth Modulation RB size RB offset Channel 18700 18900 19100 19100 19100			36	39	20.24	20.34	20.44	22.00
Tune up Tune			75	0	20.24	20.37	20.28	22.00
1	Donalusialth	Madulation	DD oizo	DD offeet	Channel	Channel	Channel	Tungun
QPSK 1 50 23.13 23.06 23.06 25.00 1 99 23.08 23.16 23.05 25.00 50 0 22.50 22.53 22.37 24.00 50 50 25 22.31 22.37 22.27 24.00 50 50 50 22.26 22.20 22.14 24.00 100 0 22.41 22.43 22.29 24.00 1 0 22.20 22.25 22.19 24.00 1 50 22.42 22.40 22.14 24.00 1 99 22.09 22.08 22.07 24.00 1 99 22.09 22.08 22.07 24.00 1 99 22.09 22.08 22.07 24.00 50 25 21.39 21.36 21.28 23.00 50 50 21.16 21.36 21.21 23.00 100 0 21.34 21.19 21.08 23.00 1 0 21.53 21.39 21.37 23.00 1 0 21.53 21.39 21.37 23.00 1 0 21.53 21.39 21.37 23.00 1 0 21.53 21.39 21.37 23.00 1 0 21.53 21.39 21.37 23.00 1 99 21.48 21.53 21.44 23.00 1 99 21.48 21.53 21.44 23.00 64QAM 50 0 20.50 20.16 20.40 22.00 50 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00	banawiath	iviodulation	RD SIZE	RD Ollset	18700	18900	19100	Tune up
QPSK 1 99 23.08 23.16 23.05 25.00			1	0	23.23	23.25	23.21	25.00
QPSK		QPSK	1	50	23.13	23.06	23.06	25.00
20MHz 16QAM 50 25 22.31 22.37 22.27 24.00 50 50 50 22.26 22.20 22.14 24.00 100 0 22.41 22.43 22.29 24.00 1 0 22.20 22.25 22.19 24.00 1 50 22.42 22.40 22.14 24.00 1 99 22.09 22.08 22.14 24.00 1 99 22.09 22.08 22.07 24.00 1 99 22.09 22.08 22.07 24.00 50 21.29 21.36 21.28 23.00 50 25 21.39 21.05 21.27 23.00 50 50 21.16 21.36 21.31 23.00 100 0 21.34 21.19 21.08 23.00 100 0 21.34 21.19 21.08 23.00 1 0 21.53 21.39 21.37 23.00 1 0 21.34 21.35 21.44 23.00 1 99 21.48 21.53 21.49 23.00 64QAM 50 0 20.50 20.16 20.40 22.00 50 50 25 20.25 20.41 20.36 22.00			1	99	23.08	23.16	23.05	25.00
20MHz 16QAM 50 50 50 22.26 22.20 22.14 24.00 100 0 22.41 22.43 22.29 24.00 1 0 22.20 22.25 22.19 24.00 1 50 22.42 22.40 22.14 24.00 22.14 24.00 1 99 22.09 22.08 22.07 24.00 1 99 22.09 22.08 22.07 24.00 24.00 50 50 25 21.39 21.05 21.27 23.00 50 50 21.16 21.36 21.27 23.00 100 0 21.34 21.19 21.08 23.00 100 0 21.53 21.39 21.37 23.00 1 0 21.53 21.39 21.37 23.00 1 0 21.53 21.39 21.37 23.00 1 0 21.53 21.39 21.37 23.00 1 1 99 21.48 21.53 21.44 23.00 1 99 21.48 21.53 21.49 23.00 50 50 50 50 25 20.25 20.41 20.36 22.00 50 50 50 50 20.28 20.19 20.25 22.10			50	0	22.50	22.53	22.37	24.00
100			50	25	22.31	22.37	22.27	24.00
20MHz 16QAM 1 0 22.20 22.25 22.19 24.00 1 50 22.42 22.40 22.14 24.00 1 99 22.09 22.08 22.07 24.00 50 0 21.29 21.36 21.28 23.00 50 25 21.39 21.05 21.27 23.00 50 50 21.16 21.36 21.31 23.00 100 0 21.34 21.19 21.08 23.00 1 0 21.53 21.39 21.37 23.00 1 0 21.53 21.39 21.37 23.00 1 0 21.53 21.39 21.37 23.00 1 99 21.48 21.53 21.44 23.00 64QAM 50 0 20.50 20.16 20.40 22.00 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00			50	50	22.26	22.20	22.14	24.00
20MHz 16QAM			100	0	22.41	22.43	22.29	24.00
20MHz 1 99 22.09 22.08 22.07 24.00 50 0 21.29 21.36 21.28 23.00 50 25 21.39 21.05 21.27 23.00 50 50 21.16 21.36 21.31 23.00 100 0 21.34 21.19 21.08 23.00 1 0 21.53 21.39 21.37 23.00 1 50 21.34 21.35 21.44 23.00 1 99 21.48 21.53 21.49 23.00 64QAM 50 0 20.50 20.16 20.40 22.00 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00			1	0	22.20	22.25	22.19	24.00
20MHz 16QAM 50 0 21.29 21.36 21.28 23.00 50 25 21.39 21.05 21.27 23.00 50 50 21.16 21.36 21.31 23.00 100 0 21.34 21.19 21.08 23.00 100 0 21.53 21.39 21.37 23.00 1 50 21.34 21.35 21.34 23.00 1 50 21.34 21.35 21.44 23.00 1 50 21.34 21.35 21.44 23.00 1 64QAM 50 0 20.50 20.16 20.40 22.00 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00			1	50	22.42	22.40	22.14	24.00
50 25 21.39 21.05 21.27 23.00 50 50 21.16 21.36 21.31 23.00 100 0 21.34 21.19 21.08 23.00 1 0 21.53 21.39 21.37 23.00 1 50 21.34 21.35 21.44 23.00 1 99 21.48 21.53 21.49 23.00 50 0 20.50 20.16 20.40 22.00 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00			1	99	22.09	22.08	22.07	24.00
50 50 21.16 21.36 21.31 23.00 100 0 21.34 21.19 21.08 23.00 1 0 21.53 21.39 21.37 23.00 1 50 21.34 21.35 21.44 23.00 1 99 21.48 21.53 21.49 23.00 50 0 20.50 20.16 20.40 22.00 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00	20MHz	16QAM	50	0	21.29	21.36	21.28	23.00
100 0 21.34 21.19 21.08 23.00 1 0 21.53 21.39 21.37 23.00 1 50 21.34 21.35 21.44 23.00 1 99 21.48 21.53 21.49 23.00 50 0 20.50 20.16 20.40 22.00 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00			50	25	21.39	21.05	21.27	23.00
1 0 21.53 21.39 21.37 23.00 1 50 21.34 21.35 21.44 23.00 1 99 21.48 21.53 21.49 23.00 50 0 20.50 20.16 20.40 22.00 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00			50	50	21.16	21.36	21.31	23.00
64QAM 1 50 21.34 21.35 21.44 23.00 1 99 21.48 21.53 21.49 23.00 50 0 20.50 20.16 20.40 22.00 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00			100	0	21.34	21.19	21.08	23.00
1 99 21.48 21.53 21.49 23.00 50 0 20.50 20.16 20.40 22.00 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00			1	0	21.53	21.39	21.37	23.00
64QAM 50 0 20.50 20.16 20.40 22.00 50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00			1	50	21.34	21.35	21.44	23.00
50 25 20.25 20.41 20.36 22.00 50 50 20.28 20.19 20.25 22.00			1	99	21.48	21.53	21.49	23.00
50 50 20.28 20.19 20.25 22.00		64QAM	50	0	20.50	20.16	20.40	22.00
			50	25	20.25	20.41	20.36	22.00
100 0 20.42 20.22 20.36 22.00			50	50	20.28	20.19	20.25	22.00
			100	0	20.42	20.22	20.36	22.00

	LTE Band 2 Receiver on				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tupo up	
bandwidth	Wodulation	RD SIZE	RB oliset	18607	18900	19193	Tune up	
		1	0	17.20	17.34	17.27	19.00	
		1	2	17.19	17.14	17.06	19.00	
	QPSK	1	5	17.24	17.20	17.18	19.00	
		3	0	17.03	17.17	17.08	19.00	
		3	2	17.23	17.18	17.11	19.00	
		3	3	17.15	17.19	17.01	19.00	
1.4MHz		6	0	17.21	17.22	17.16	19.00	
1.411172		1	0	17.16	17.01	17.18	19.00	
		1	2	17.13	17.26	17.07	19.00	
		1	5	17.10	17.11	17.27	19.00	
	16QAM	3	0	17.12	17.13	17.16	19.00	
		3	2	17.10	17.27	17.07	19.00	
		3	3	17.17	17.18	17.19	19.00	
		6	0	17.10	17.14	17.11	19.00	



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i	ı		1			•	ı
		1	0	17.23	17.33	17.27	19.00
		1	2	17.13	17.01	17.12	19.00
		1	5	17.20	17.20	17.03	19.00
	64QAM	3	0	17.14	17.18	17.03	19.00
		3	2	17.16	17.24	17.07	19.00
		3	3	17.08	17.01	17.06	19.00
		6	0	17.17	17.14	17.14	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth	Woddiation	ND Size	ND ollset	18615	18900	19185	Tune up
		1	0	17.16	17.28	17.27	19.00
		1	7	17.08	17.07	17.02	19.00
		1	14	17.18	17.20	17.11	19.00
	QPSK	8	0	17.10	17.20	17.15	19.00
		8	4	17.27	17.23	17.17	19.00
		8	7	17.02	17.06	17.08	19.00
		15	0	17.17	17.24	17.11	19.00
		1	0	17.19	17.03	17.18	19.00
		1	7	17.17	17.23	17.21	19.00
		1	14	17.18	17.20	17.18	19.00
3MHz	16QAM	8	0	17.19	17.26	17.12	19.00
		8	4	17.09	17.25	17.04	19.00
		8	7	17.21	17.22	17.13	19.00
		15	0	17.18	17.02	17.21	19.00
		1	0	17.15	17.32	17.19	19.00
		1	7	17.07	17.04	17.07	19.00
		1	14	17.18	17.12	17.05	19.00
	64QAM	8	0	17.12	17.18	17.04	19.00
		8	4	17.20	17.25	17.13	19.00
		8	7	17.10	17.05	17.05	19.00
		15	0	17.18	17.16	17.13	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth	Woddiation	ND Size	ND ollset	18625	18900	19175	Turie up
		1	0	17.29	17.32	17.18	19.00
		1	13	17.10	17.13	17.11	19.00
		1	24	17.19	17.17	17.15	19.00
	QPSK	12	0	17.11	17.24	17.05	19.00
		12	6	17.24	17.28	17.02	19.00
5MHz		12	13	17.00	17.12	17.11	19.00
		25	0	17.20	17.13	17.11	19.00
		1	0	17.17	17.20	17.15	19.00
	16QAM	1	13	17.16	17.18	17.13	19.00
	IOQAW	1	24	17.18	17.06	17.24	19.00
		12	0	17.09	17.24	17.09	19.00



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l	l	l ,-	i -	l . .	l . <u>.</u> I	l . .	l
		12	6	17.08	17.19	17.02	19.00
		12	13	17.17	17.20	17.07	19.00
		25	0	17.06	17.04	17.11	19.00
		1	0	17.16	17.21	17.13	19.00
		1	13	17.20	17.00	17.05	19.00
		1	24	17.17	17.12	17.13	19.00
	64QAM	12	0	17.06	17.15	17.08	19.00
		12	6	17.20	17.24	17.02	19.00
		12	13	17.14	17.09	17.07	19.00
		25	0	17.27	17.24	17.14	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bunawian	Wiodulation	112 0120	NB onset	18650	18900	19150	Tune up
		1	0	17.30	17.34	17.25	19.00
		1	25	17.07	17.17	17.10	19.00
		1	49	17.16	17.18	17.16	19.00
	QPSK	25	0	17.11	17.16	17.03	19.00
		25	13	17.23	17.16	17.07	19.00
		25	25	17.06	17.08	17.19	19.00
		50	0	17.25	17.27	17.16	19.00
		1	0	17.28	17.13	17.12	19.00
		1	25	17.20	17.31	17.21	19.00
		1	49	17.07	17.02	17.20	19.00
10MHz	16QAM	25	0	17.12	17.15	17.02	19.00
		25	13	17.16	17.16	17.06	19.00
		25	25	17.10	17.14	17.19	19.00
		50	0	17.00	17.03	17.11	19.00
		1	0	17.30	17.29	17.21	19.00
		1	25	17.22	17.00	17.02	19.00
		1	49	17.29	17.21	17.13	19.00
	64QAM	25	0	17.04	17.21	17.10	19.00
		25	13	17.22	17.18	17.03	19.00
		25	25	17.08	17.06	17.10	19.00
		50	0	17.20	17.26	17.17	19.00
		55 .	55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		1	0	17.30	17.29	17.24	19.00
		1	38	17.10	17.13	17.11	19.00
		1	74	17.31	17.17	17.20	19.00
45500	QPSK	36	0	17.18	17.29	17.03	19.00
15MHz		36	18	17.27	17.20	17.18	19.00
		36	39	17.02	17.16	17.01	19.00
		75	0	17.13	17.14	17.19	19.00
	16QAM	1	0	17.28	17.03	17.15	19.00



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İ	ī	1	1	ı	I	1	ı
		1	38	17.12	17.25	17.07	19.00
		1	74	17.08	17.01	17.17	19.00
		36	0	17.09	17.14	17.06	19.00
		36	18	17.17	17.18	17.04	19.00
		36	39	17.17	17.23	17.16	19.00
		75	0	17.00	17.04	17.19	19.00
		1	0	17.21	17.33	17.14	19.00
		1	38	17.22	17.06	17.09	19.00
		1	74	17.20	17.14	17.03	19.00
	64QAM	36	0	17.07	17.22	17.11	19.00
		36	18	17.19	17.18	17.00	19.00
		36	39	17.13	17.03	17.04	19.00
		75	0	17.21	17.13	17.17	19.00
Daniel de de de de la constante de la constant	Mandada Can	DD -:	DD - #1	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
		1	0	17.30	17.35	17.28	19.00
		1	50	17.22	17.07	17.13	19.00
		1	99	17.31	17.23	17.05	19.00
	QPSK	50	0	17.18	17.29	17.17	19.00
		50	25	17.30	17.31	17.03	19.00
		50	50	17.15	17.06	17.10	19.00
		100	0	17.27	17.27	17.21	19.00
		1	0	17.30	17.04	17.18	19.00
		1	50	17.21	17.32	17.21	19.00
		1	99	17.19	17.02	17.27	19.00
20MHz	16QAM	50	0	17.22	17.27	17.06	19.00
		50	25	17.19	17.27	17.09	19.00
		50	50	17.23	17.26	17.21	19.00
		100	0	17.13	17.15	17.00	19.00
		1	0	17.22	17.26	17.19	19.00
		1	50	17.20	17.06	17.05	19.00
		1	99	17.27	17.10	17.05	19.00
	64QAM	50	0	17.18	17.28	17.17	19.00
		50	25	17.24	17.22	17.03	19.00
		50	50	17.08	17.03	17.10	19.00
		100	0	17.21	17.15	17.13	19.00
	1	1	1	1	1	l	1

	LTE Band 4	Full Power			Conducted	Power(dBm)	
Bandwidth Modulation		DD circ	DD effect	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	lulation RB size	RB offset	19957	20175	20393	Tune up
1.4MHz	QPSK	1	0	23.20	23.30	23.21	24.50
I. 4 ₩ΠΖ	QF3K	1	2	23.22	23.09	23.17	24.50



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		1	5	23.25	23.09	23.28	24.50
		3	0	22.57	22.68	22.59	23.50
		3	2	22.52	22.29	22.36	23.50
		3	3	22.57	22.36	22.47	23.50
		6	0	22.43	22.22	22.44	23.50
		1	0	22.16	22.15	22.25	23.50
		1	2	22.20	22.15	22.37	23.50
		1	5	22.10	22.12	22.16	23.50
	16QAM	3	0	21.16	21.20	21.27	22.50
		3	2	21.33	21.16	21.27	22.50
		3	3	21.22	21.31	21.16	22.50
		6	0	21.28	21.56	21.26	22.50
		1	0	21.33	21.47	21.54	23.00
		1	2	21.29	21.45	21.33	23.00
		1	5	21.33	21.30	21.24	23.00
	16QAM	3	0	20.25	20.31	20.31	22.00
		3	2	20.50	20.31	20.27	22.00
		3	3	20.43	20.26	20.55	22.00
		6	0	20.16	20.36	20.35	22.00
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	23.12	23.30	23.25	24.50
		1	7	23.26	23.14	23.18	24.50
		1	14	23.10	23.01	23.31	24.50
	QPSK	8	0	22.47	22.59	22.48	23.50
		8	4	22.51	22.18	22.31	23.50
		8	7	22.44	22.40	22.39	23.50
		15	0	22.28	22.28	22.54	23.50
		1	0	22.11	22.27	22.34	23.50
		1	7	22.22	22.18	22.36	23.50
		1	14	22.15	22.14	22.25	23.50
3MHz	16QAM	8	0	21.20	21.22	21.36	22.50
		8	4	21.12	21.36	21.29	22.50
		8	7	21.20	21.38	21.39	22.50
		15	0	21.30	21.37	21.26	22.50
		1	0	21.31	21.30	21.30	23.00
		1	7	21.44	21.28	21.51	23.00
		1	14	21.50	21.51	21.24	23.00
	16QAM	8	0	20.26	20.20	20.32	22.00
		8	4	20.45	20.28	20.45	22.00
		8	7	20.52	20.39	20.53	22.00
		15	0	20.19	20.51	20.27	22.00
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	19975	20175	20375	Tune up
		1	0	23.28	23.31	23.24	24.50
		1	13	23.22	23.22	23.18	24.50
		1	24	23.13	23.08	23.16	24.50
	QPSK	12	0	22.37	22.71	22.48	23.50
		12	6	22.50	22.21	22.32	23.50
EN4!!-		12	13	22.61	22.27	22.61	23.50
5MHz		25	0	22.25	22.42	22.43	23.50
		1	0	22.02	22.28	22.33	23.50
		1	13	22.18	22.16	22.28	23.50
	16QAM	1	24	22.09	22.08	22.29	23.50
		12	0	21.26	21.27	21.28	22.50
		12	6	21.17	21.36	21.15	22.50



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		12	13	21.19	21.36	21.34	22.50
		25	0	21.39	21.46	21.34	22.50
		1	0	21.42	21.32	21.16	23.00
		1	13	21.33	21.53	21.42	23.00
		1	24	21.22	21.29	21.35	23.00
	16QAM	12	0	20.19	20.51	20.46	22.00
		12	6	20.31	20.20	20.54	22.00
		12	13	20.26	20.53	20.46	22.00
		25	0	20.35	20.23	20.24	22.00
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
		1	0	23.20	23.36	23.25	24.50
		1	25	23.23	23.05	23.13	24.50
		1	49	23.30	23.11	23.28	24.50
	QPSK	25	0	22.41	22.62	22.55	23.50
	QI OIL	25	13	22.55	22.35	22.29	23.50
		25	25	22.69	22.36	22.59	23.50
		50	0	22.26	22.24	22.59	23.50
					+		
		1	0	22.08	22.07	22.29	23.50
		1	25	22.14	22.18	22.31	23.50
40	4004::	1	49	22.18	22.19	22.27	23.50
10MHz	16QAM	25	0	21.32	21.38	21.50	22.50
		25	13	21.35	21.17	21.37	22.50
		25	25	21.26	21.29	21.21	22.50
		50	0	21.16	21.35	21.23	22.50
		1	0	21.39	21.27	21.43	23.00
		1	25	21.45	21.24	21.40	23.00
		1	49	21.21	21.36	21.43	23.00
	16QAM	25	0	20.31	20.50	20.17	22.00
		25	13	20.29	20.50	20.34	22.00
		25	25	20.18	20.24	20.34	22.00
		50	0	20.40	20.55	20.38	22.00
5 1 1 1 1 1 1		55.	DD " .	Channel	Channel	Channel	-
Bandwidth	Modulation	RB size	RB offset	20025	20175	20325	Tune up
		1	0	23.09	23.21	23.13	24.50
		1	38	23.13	23.13	23.07	24.50
		1	74	23.17	23.11	23.14	24.50
	QPSK	36	0	22.46	22.47	22.48	23.50
		36	18	22.55	22.25	22.23	23.50
		36	39	22.67	22.32	22.43	23.50
		75	0	22.34	22.35	22.54	23.50
		1	0	22.28	22.14	22.30	23.50
			38			22.30	23.50
		1		22.07	22.16		
AENALI-	400 444	1	74	22.21	22.13	22.30	23.50
15MHz	16QAM	36	0	21.28	21.20	21.42	22.50
		36	18	21.28	21.27	21.25	22.50
		36	39	21.39	21.33	21.39	22.50
		75	0	21.41	21.47	21.21	22.50
		1	0	21.29	21.39	21.34	23.00
		1	38	21.23	21.45	21.26	23.00
		1	74	21.36	21.53	21.38	23.00
	16QAM	36	0	20.25	20.16	20.19	22.00
		36	18	20.20	20.41	20.25	22.00
		36	39	20.51	20.49	20.43	22.00
			_	20.27	20.22	20.21	22.00
		75	0	20.37	20.22	20.21	22.00
B 1.111			-	Channel	Channel	Channel	
Bandwidth	Modulation	75 RB size	0 RB offset				Tune up



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ı	ĺ	. 1			00.04	00.04	0.4.50
		1	50	23.34	23.24	23.21	24.50
		1	99	23.31	23.20	23.32	24.50
		50	0	22.59	22.71	22.68	23.50
		50	25	22.63	22.43	22.45	23.50
		50	50	22.69	22.46	22.64	23.50
		100	0	22.42	22.46	22.42	23.50
		1	0	22.12	22.32	22.35	23.50
		1	50	22.27	22.29	22.42	23.50
		1	99	22.22	22.19	22.40	23.50
	16QAM	50	0	21.38	21.44	21.51	22.50
		50	25	21.37	21.38	21.39	22.50
		50	50	21.43	21.48	21.40	22.50
		100	0	21.41	21.57	21.43	22.50
		1	0	21.51	21.46	21.31	23.00
		1	50	21.40	21.49	21.19	23.00
		1	99	21.26	21.27	21.25	23.00
	16QAM	50	0	20.21	20.51	20.32	22.00
		50	25	20.37	20.55	20.51	22.00
		50	50	20.38	20.22	20.24	22.00
		100	0	20.46	20.38	20.37	22.00

	LTE Band 4 F	Receiver on		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Banawiatii	Wodulation	ND SIZE	NB onset	19957	20175	20393	rune up	
		1	0	18.09	18.15	18.12	19.00	
		1	2	17.92	18.05	18.05	19.00	
		1	5	18.02	18.08	17.97	19.00	
	QPSK	3	0	18.01	18.09	17.95	19.00	
		3	2	18.07	18.01	18.04	19.00	
		3	3	18.01	18.08	18.05	19.00	
		6	0	18.02	18.12	17.89	19.00	
		1	0	17.97	17.99	18.02	19.00	
		1	2	18.02	17.98	17.94	19.00	
		1	5	17.89	18.04	17.98	19.00	
1.4MHz	16QAM	3	0	18.09	18.12	17.94	19.00	
		3	2	17.96	17.97	17.98	19.00	
		3	3	17.93	18.01	18.05	19.00	
		6	0	18.05	17.96	17.95	19.00	
		1	0	18.11	18.13	18.11	19.00	
		1	2	17.88	18.07	17.97	19.00	
		1	5	18.11	18.07	17.93	19.00	
	64QAM	3	0	18.01	18.12	17.94	19.00	
		3	2	18.07	17.93	18.04	19.00	
		3	3	17.88	18.03	18.06	19.00	
		6	0	18.08	18.08	17.84	19.00	



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	18.07	18.11	18.17	19.00
		1	7	18.00	18.00	18.03	19.00
		1	14	18.10	18.17	17.94	19.00
	QPSK	8	0	17.99	18.09	17.94	19.00
	QF3K	8	4	18.09	18.06	18.05	19.00
		8	7	17.93	17.99	18.03	19.00
		15	0	18.00	18.02	17.94	19.00
		1	0	17.97	17.93	17.93	19.00
		1	7	17.96	17.96	17.96	19.00
		1	14	17.88	17.95	18.02	19.00
3MHz	16QAM	8	0	18.08	18.12	18.01	19.00
SIVITZ	TOQAW		4			17.98	19.00
		8	7	18.02 17.99	18.02	18.06	19.00
		8			18.06		
		15	0	17.95	17.94	17.97	19.00
		1	0	18.09	18.18	18.08	19.00
		1	7	17.87	18.01	18.04	19.00
	64QAM	1	14	18.03	18.03	18.03	19.00
		8	0	18.00	17.99	17.97	19.00
		8	4	18.09	18.02	17.95	19.00
		8	7	17.95	17.97	17.97	19.00
		15	0	18.09	18.08	17.87	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	10.00
		1	0	18.04	18.09	18.13	19.00
		1	13	17.97	18.05	17.97	19.00
		1	24	18.08	18.10	17.94	19.00
	QPSK	12	0	18.01	18.06	17.94	19.00
		12	6	18.09	17.97	18.04	19.00
		12	13	17.92	18.00	18.01	19.00
		25	0	18.05	18.06	17.97	19.00
		1	0	18.04	17.96	17.99	19.00
5MHz		1	13	18.03	18.01	17.97	19.00
		1	24	17.95	17.99	18.01	19.00
	16QAM	12	0	18.02	18.05	18.00	19.00
		12	6	17.92	18.05	18.04	19.00
		12	13	17.98	18.03	18.00	19.00
		25	0	18.01	17.95	17.99	19.00
		1	0	17.98	18.05	18.09	19.00
	64QAM	1	13	18.01	17.94	18.05	19.00
		1	24	18.09	18.02	17.97	19.00
		12	0	18.08	18.10	17.92	19.00



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		12	6	18.09	18.03	18.03	19.00
		12	13	17.91	17.96	18.01	19.00
		25	0	18.00	18.01	17.84	19.00
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
		1	0	18.04	18.15	18.15	19.00
		1	25	17.99	18.06	18.02	19.00
		1	49	18.09	18.14	18.01	19.00
	QPSK	25	0	18.02	18.02	18.00	19.00
		25	13	18.04	18.01	18.05	19.00
		25	25	17.98	18.04	17.98	19.00
		50	0	18.05	18.06	17.92	19.00
		1	0	18.08	17.95	17.99	19.00
		1	25	17.99	18.00	17.96	19.00
		1	49	17.95	17.93	17.96	19.00
10MHz	16QAM	25	0	18.05	18.06	17.93	19.00
		25	13	17.95	18.00	18.07	19.00
		25	25	18.01	17.97	17.97	19.00
		50	0	17.98	17.92	17.99	19.00
		1	0	17.97	18.05	18.16	19.00
		1	25	17.88	18.06	17.95	19.00
		1	49	17.99	18.16	17.93	19.00
	64QAM	25	0	17.97	18.01	17.90	19.00
		25	13	18.02	18.06	18.07	19.00
		25	25	17.90	17.97	18.02	19.00
		50	0	18.10	18.11	17.93	19.00
Dan duri déb	Ma dulatian	DD -:	DD 9#994	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20025	20175	20325	Tune up
		1	0	18.05	18.09	18.05	19.00
		1	38	17.93	18.07	17.99	19.00
		1	74	18.08	18.07	18.05	19.00
	QPSK	36	0	18.08	18.07	17.93	19.00
		36	18	18.04	17.95	18.01	19.00
		36	39	17.94	18.00	18.00	19.00
		75	0	18.01	18.03	17.91	19.00
15MHz		1	0	17.99	17.95	18.01	19.00
		1	38	18.03	17.95	17.97	19.00
		1	74	17.96	17.93	17.97	19.00
	16QAM	36	0	18.05	18.06	17.98	19.00
		36	18	17.99	17.97	18.07	19.00
		36	39	17.96	18.06	18.01	19.00
		75	0	17.97	17.93	17.99	19.00
	64QAM	1	0	18.05	18.06	18.06	19.00



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		1	38	17.96	17.99	18.06	19.00
		1	74	18.09	18.16	17.98	19.00
		36	0	17.98	18.12	17.95	19.00
		36	18	17.99	18.01	18.00	19.00
		36	39	17.93	17.98	18.03	19.00
		75	0	17.99	17.98	17.88	19.00
5		55 :	55 " .	Channel	Channel	Channel	-
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	18.11	18.19	18.18	19.00
		1	50	18.01	18.07	18.07	19.00
		1	99	18.11	18.17	18.05	19.00
	QPSK	50	0	18.09	18.12	18.02	19.00
		50	25	18.12	18.06	18.10	19.00
		50	50	18.03	18.09	18.08	19.00
		100	0	18.11	18.12	17.99	19.00
		1	0	18.08	18.03	18.02	19.00
		1	50	18.05	18.04	18.02	19.00
		1	99	17.99	18.04	18.04	19.00
20MHz	16QAM	50	0	18.09	18.12	18.04	19.00
		50	25	18.03	18.06	18.07	19.00
		50	50	18.03	18.06	18.06	19.00
		100	0	18.05	18.01	18.01	19.00
		1	0	18.06	18.09	18.18	19.00
		1	50	17.93	18.04	18.06	19.00
		1	99	17.99	18.16	18.01	19.00
	64QAM	50	0	18.01	18.06	17.93	19.00
		50	25	17.97	17.96	18.06	19.00
		50	50	17.89	17.96	17.93	19.00
		100	0	18.11	18.04	17.99	19.00

	LTE Band 5	Full Power		Conducted Power(dBm)				
Dom duvidáh	Modulation	RB size	DD offeet	Channel	Channel	Channel	Tungun	
Bandwidth	Modulation	RD SIZE	RB offset	20407	20525	20643	Tune up	
		1	0	23.07	23.20	23.13	25.00	
		1	2	23.17	23.03	23.04	25.00	
		1	5	23.11	23.18	23.03	25.00	
	QPSK	3	0	22.31	22.30	22.21	24.00	
		3	2	22.03	22.14	22.20	24.00	
1.4MHz		3	3	22.06	22.37	22.29	24.00	
1.41/172		6	0	22.25	22.23	22.15	24.00	
		1	0	22.10	22.25	22.32	24.00	
		1	2	22.09	22.15	22.24	24.00	
	16QAM	1	5	22.09	22.19	22.22	24.00	
		3	0	21.36	21.39	21.37	23.00	
		3	2	21.29	21.26	21.46	23.00	



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		3	3	21.47	21.45	21.28	23.00
		6	0	21.36	21.36	21.27	23.00
		1	0	21.38	21.48	21.30	23.00
		1	2	21.32	21.43	21.32	23.00
		1	5	21.34	21.33	21.20	23.00
	16QAM	3	0	20.51	20.52	20.19	22.00
		3	2	20.50	20.20	20.37	22.00
		3	3	20.34	20.46	20.45	22.00
		6	0	20.54	20.46	20.44	22.00
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20415	20525	20635	Tune up
		1	0	23.12	23.15	23.05	25.00
		1	7	23.13	23.09	23.05	25.00
		1	14	23.07	23.11	23.05	25.00
	QPSK	8	0	22.26	22.25	22.15	24.00
		8	4	22.13	22.34	22.25	24.00
		8	7	22.08	22.27	22.28	24.00
		15	0	22.31	22.37	22.17	24.00
		1	0	22.04	22.18	22.29	24.00
		1	7	22.00	22.14	22.30	24.00
		1	14	22.09	22.20	22.39	24.00
3MHz	16QAM	8	0	21.30	21.39	21.35	23.00
		8	4	21.54	21.29	21.46	23.00
		8	7	21.40	21.48	21.24	23.00
		15	0	21.51	21.42	21.43	23.00
		1	0	21.29	21.37	21.38	23.00
		1	7	21.37	21.54	21.39	23.00
	16QAM	1	14	21.46	21.48	21.17	23.00
		8	0	20.42	20.47	20.34	22.00
		8	4	20.53	20.17	20.32	22.00
		8	7	20.43	20.31	20.47	22.00
		15	0	20.36	20.16	20.21	22.00
		10		Channel	Channel	Channel	22.00
Bandwidth	Modulation	RB size	RB offset				Tune up
				20425	20525	20625	
		1	0	23.02	23.18	23.02	25.00
		1	13	23.06	23.15	23.02	25.00
		1	24	23.05	23.04	23.14	25.00
	QPSK	12	0	22.19	22.21	22.33	24.00
		12	6	22.16	22.22	22.09	24.00
		12	13	22.02	22.19	22.27	24.00
		25	0	22.41	22.15	22.14	24.00
		1	0	22.11	22.29	22.21	24.00
		1	13	22.13	22.16	22.19	24.00
		1	24	22.00	22.08	22.21	24.00
5MHz	16QAM	12	0	21.37	21.35	21.45	23.00
		12	6	21.46	21.35	21.42	23.00
		12	13	21.39	21.34	21.30	23.00
		25	0	21.39	21.42	21.29	23.00
		1	0	21.19	21.24	21.29	23.00
		1	13	21.53	21.35	21.55	23.00
		1	24	21.16	21.38	21.34	23.00
	16QAM	12	0	20.25	20.19	20.48	22.00
		12	6	20.49	20.47	20.32	22.00
		12	13	20.55	20.23	20.29	22.00
		25	0	20.50	20.33	20.55	22.00
		25	U	20.30	20.33	20.55	22.00



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	1			00.450	00505	00000	
				20450	20525	20600	
		1	0	23.17	23.22	23.21	25.00
		1	25	23.05	23.13	23.03	25.00
		1	49	23.12	23.19	23.10	25.00
	QPSK	25	0	22.32	22.40	22.34	24.00
		25	13	22.21	22.18	22.27	24.00
		25	25	22.32	22.22	22.31	24.00
		50	0	22.41	22.42	22.37	24.00
		1	0	22.18	22.30	22.40	24.00
		1	25	22.13	22.27	22.23	24.00
		1	49	22.00	22.08	22.29	24.00
10MHz	16QAM	25	0	21.60	21.43	21.46	23.00
		25	13	21.57	21.42	21.38	23.00
		25	25	21.43	21.51	21.44	23.00
		50	0	21.43	21.58	21.55	23.00
		1	0	21.17	21.29	21.42	23.00
		1	25	21.38	21.30	21.17	23.00
	64QAM	1	49	21.26	21.27	21.49	23.00
		25	0	20.18	20.33	20.47	22.00
		25	13	20.49	20.20	20.44	22.00
		25	25	20.17	20.30	20.25	22.00
		50	0	20.33	20.20	20.26	22.00

LTE FDD Band 12 Full Power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danuwium	Modulation	UD SIZE	KD Ollset	23017	23095	23173	Tune up	
		1	0	23.13	23.17	23.02	25.00	
		1	2	23.09	23.07	23.02	25.00	
		1	5	23.14	23.12	23.00	25.00	
	QPSK	3	0	22.25	22.24	22.22	24.00	
		3	2	22.32	22.15	22.09	24.00	
		3	3	22.07	22.32	22.20	24.00	
		6	0	22.23	22.22	22.31	24.00	
	16QAM	1	0	22.05	22.00	22.11	24.00	
		1	2	22.35	22.20	22.12	24.00	
		1	5	22.03	22.14	22.30	24.00	
1.4MHz		3	0	21.15	21.23	21.50	23.00	
		3	2	21.29	21.31	21.22	23.00	
		3	3	21.19	21.13	21.41	23.00	
		6	0	21.30	21.37	21.25	23.00	
	64QAM	1	0	21.29	21.25	21.23	23.00	
		1	2	21.26	21.28	21.28	23.00	
		1	5	21.23	21.26	21.24	23.00	
		3	0	20.19	20.06	20.30	22.00	
		3	2	20.09	20.08	20.15	22.00	
		3	3	20.14	20.05	20.20	22.00	
		6	0	20.11	20.07	20.27	22.00	
Bandwidth	Modulation	-	55 "	Channel	Channel	Channel	T	
		RB size	RB offset	23025	23095	23165	Tune up	
	QPSK	1	0	23.04	23.18	23.05	25.00	
		1	7	23.17	23.16	23.08	25.00	
28411-		1	14	23.13	23.03	23.05	25.00	
3MHz		8	0	22.13	22.26	22.22	24.00	
		8	4	22.00	22.20	22.12	24.00	
		8	7	22.06	22.20	22.20	24.00	



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		15	0	22.20	22.19	22.22	24.00
		1	0	22.13	22.33	22.05	24.00
		1	7	22.03	22.10	22.07	24.00
		1	14	22.28	22.23	22.06	24.00
	16QAM	8	0	21.07	21.37	21.41	23.00
		8	4	21.25	21.27	21.25	23.00
		8	7	21.29	21.28	21.36	23.00
		15	0	21.31	21.42	21.18	23.00
		1	0	21.23	21.21	21.23	23.00
		1	7	21.29	21.24	21.21	23.00
		1	14	21.20	21.29	21.29	23.00
	64QAM	8	0	20.13	20.28	20.16	22.00
	04QAIVI	8	4	20.13	20.26	20.10	22.00
		8	7	20.14			22.00
					20.16	20.14	
		15	0	20.08	20.10	20.23	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		4		23035	23095	23155	·
		1	0	23.01	23.13	23.07	25.00
		1	13	23.09	23.10	23.07	25.00
		1	24	23.07	23.11	23.08	25.00
	QPSK	12	0	22.19	22.29	22.22	24.00
		12	6	22.01	22.09	22.22	24.00
		12	13	22.08	22.02	22.19	24.00
		25	0	22.25	22.21	22.19	24.00
		1	0	22.08	22.33	22.09	24.00
		1	13	22.06	22.02	22.26	24.00
	16QAM	1	24	22.14	22.09	22.16	24.00
5MHz		12	0	21.15	21.24	21.50	23.00
		12	6	21.29	21.31	21.28	23.00
		12	13	21.17	21.05	21.42	23.00
		25	0	21.36	21.40	21.30	23.00
	64QAM	1	0	21.26	21.28	21.23	23.00
		1	13	21.21	21.21	21.21	23.00
		1	24	21.20	21.28	21.28	23.00
		12	0	20.24	20.25	20.22	22.00
		12	6	20.10	20.08	20.28	22.00
		12	13	20.21	20.18	20.06	22.00
		25	0	20.05	20.10	20.18	22.00
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	23060	23095	23130	Tune up
		1	0	23.10	23.18	23.14	25.00
10MHz		1	25	23.04	23.10	23.12	25.00
		1	49	23.12	23.03	23.09	25.00
	QPSK	25	0	22.29	22.37	22.35	24.00
	GI OIL	25	13	22.11	22.29	22.25	24.00
		25	25	22.10	22.29	22.29	24.00
		50	0	22.34	22.35	22.34	24.00
	16QAM		0	22.34	22.35	22.34	24.00
		1	25	22.22	22.10	22.21	24.00
		1					
			49	22.13	22.31	22.30	24.00
		25	0	21.30	21.43	21.52	23.00
		25	13	21.33	21.34	21.47	23.00
		25	25	21.36	21.30	21.54	23.00
		50	0	21.47	21.48	21.41	23.00
		1	0	21.25	21.28	21.27	23.00
	64QAM	1	25	21.21	21.30	21.26	23.00
	3 (30) (17)	1	49	21.28	21.22	21.30	23.00
		25	0	20.09	20.12	20.10	22.00



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25	13	20.17	20.27	20.19	22.00
25	25	20.24	20.05	20.27	22.00
50	0	20.30	20.06	20.15	22.00

LTE Band 25 Full Power				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel 26047	Channel 26340	Channel 26683	Tune up	
		1	0	23.03	23.21	23.18	25.00	
		1	2	23.05	23.06	23.08	25.00	
		1	5	23.00	23.06	23.06	25.00	
	QPSK	3	0	22.51	22.38	22.25	24.00	
		3	2	22.11	22.28	22.14	24.00	
		3	3	22.38	22.12	22.23	24.00	
		6	0	22.32	22.26	22.31	24.00	
		1	0	22.27	22.01	22.09	24.00	
		1	2	22.22	22.20	22.19	24.00	
		1	5	22.20	22.25	22.16	24.00	
1.4MHz	16QAM	3	0	21.37	21.54	21.35	23.00	
	100/11/1	3	2	21.52	21.43	21.33	23.00	
		3	3	21.31	21.18	21.20	23.00	
		6	0	21.54	21.52	21.31	23.00	
		1	0	21.56	21.49	21.53	23.00	
		1	2	21.44	21.56	21.51	23.00	
		1	5	21.47	21.49	21.50	23.00	
	64QAM	3	0	20.38	20.42	20.36	22.00	
	0.10g/tivi	3	2	20.49	20.53	20.45	22.00	
		3	3	20.45	20.36	20.46	22.00	
		6	0	20.50	20.40	20.41	22.00	
5 1 1 11		DD :	DD " .	Channel	Channel	Channel	_	
Bandwidth	Modulation	RB size	RB offset	26055	26340	26675	Tune up	
	QPSK	1	0	23.19	23.25	23.10	25.00	
		1	7	23.11	23.17	23.00	25.00	
		1	14	23.10	23.05	23.01	25.00	
		8	0	22.28	22.34	22.25	24.00	
		8	4	22.24	22.23	22.19	24.00	
		8	7	22.45	22.19	22.17	24.00	
		15	0	22.33	22.25	22.20	24.00	
		1	0	22.18	22.20	22.19	24.00	
		1	7	22.18	22.20	22.21	24.00	
		1	14	22.40	22.18	22.14	24.00	
3MHz	16QAM	8	0	21.33	21.46	21.31	23.00	
		8	4	21.45	21.42	21.37	23.00	
		8	7	21.45	21.21	21.24	23.00	
		15	0	21.62	21.47	21.30	23.00	
	<u> </u>	1	0	21.36	21.41	21.50	23.00	
		1	7	21.50	21.54	21.41	23.00	
	640444	1	14	21.52	21.53	21.39	23.00	
	040484		0	20.40	20.56	20.56	22.00	
	64QAM	8		20.45	20.45	20 52		
	64QAM	8	4	20.45	20.45	20.52	22.00	
	64QAM	8 8	7	20.39	20.51	20.53	22.00	
	64QAM	8	4	20.39 20.46	20.51 20.52	20.53 20.36		
Bandwidth	64QAM Modulation	8 8	7	20.39	20.51	20.53	22.00	
Bandwidth 5MHz		8 8 15	4 7 0	20.39 20.46 Channel	20.51 20.52 Channel	20.53 20.36 Channel	22.00 22.00	



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		1	24	23.14	23.02	23.05	25.00
		12	0	22.30	22.35	22.37	24.00
		12	6	22.15	22.21	22.21	24.00
		12	13	22.22	22.09	22.12	24.00
		25	0	22.47	22.24	22.28	24.00
		1	0	22.11	22.05	22.17	24.00
		1	13	22.38	22.20	22.01	24.00
		1	24	22.21	22.27	22.19	24.00
	16QAM	12	0	21.47	21.41	21.17	23.00
	TOQAIVI	12	6	21.49	21.35	21.43	23.00
		12	13				23.00
				21.32	21.21	21.41	
		25	0	21.62	21.34	21.36	23.00
		1	0	21.56	21.51	21.41	23.00
		1	13	21.49	21.52	21.47	23.00
		1	24	21.46	21.40	21.53	23.00
	64QAM	12	0	20.41	20.47	20.49	22.00
		12	6	20.42	20.43	20.41	22.00
		12	13	20.44	20.50	20.36	22.00
		25	0	20.54	20.51	20.50	22.00
Dan desidable	Madulatian	DD ai-a	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	26090	26340	26640	Tune up
		1	0	23.16	23.19	23.10	25.00
		1	25	23.10	23.16	23.00	25.00
		1	49	23.16	23.10	23.01	25.00
	QPSK	25	0	22.40	22.29	22.31	24.00
	4. 2.1	25	13	22.21	22.38	22.27	24.00
		25	25	22.34	22.10	22.11	24.00
		50	0	22.31	22.36	22.24	24.00
		1	0	22.29	22.20	22.25	24.00
		1	25	22.38	22.15	22.05	24.00
		<u> </u>	49	22.34			
40001-	400 414				22.16	22.06	24.00
10MHz	16QAM	25	0	21.40	21.36	21.25	23.00
		25	13	21.46	21.29	21.51	23.00
		25	25	21.34	21.38	21.26	23.00
		50	0	21.51	21.37	21.48	23.00
		1	0	21.44	21.50	21.36	23.00
		1	25	21.50	21.40	21.53	23.00
		1	49	21.41	21.48	21.40	23.00
	64QAM	25	0	20.49	20.56	20.46	22.00
		25	13	20.52	20.39	20.54	22.00
		25	25	20.37	20.56	20.51	22.00
		50	0	20.52	20.47	20.49	22.00
Dandwidth	Modulation	DD circ	DD offeet	Channel	Channel	Channel	Tuna
Bandwidth	Modulation	RB size	RB offset	26115	26340	26615	Tune up
		1	0	23.02	23.20	23.07	25.00
		1	38	23.03	23.16	23.03	25.00
		1	74	23.05	23.04	23.01	25.00
	QPSK	36	0	22.27	22.39	22.43	24.00
		36	18	22.08	22.46	22.32	24.00
		36	39	22.40	22.29	22.16	24.00
		75	0	22.37	22.25	22.31	24.00
15MHz		1	0	22.08	22.12	22.01	24.00
		1	38	22.33			
					22.08	22.16	24.00
	400 414	1	74	22.45	22.25	22.19	24.00
	16QAM	36	0	21.32	21.43	21.36	23.00
		36	18	21.65	21.49	21.37	23.00
		36	39	21.34	21.29	21.19	23.00
	l l	75	0	21.40	21.45	21.43	23.00



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Bandwidth 1		•						
Bandwidth 1			1	0	21.51	21.52	21.46	23.00
Bandwidth 36			1	38	21.56	21.53	21.51	23.00
Bandwidth Modulation RB size RB offset Channel			1	74	21.46	21.49	21.52	23.00
Bandwidth Modulation RB size RB offset Channel		64QAM	36	0	20.36	20.37	20.42	22.00
Pandwidth Modulation RB size RB offset Channel			36	18	20.40	20.54	20.42	22.00
Pandwidth Modulation RB size RB offset Channel 26140 26340 26590 Tune up			36	39	20.47	20.48	20.48	22.00
Pandwidth Modulation RB size RB offset 26140 26340 26590 Tune up			75	0	20.40	20.52	20.56	22.00
1	Dan desidable	Madulation	DD -:	DD -#+	Channel	Channel	Channel	T
QPSK	Bandwidth	iviodulation	RB Size	RB offset	26140	26340	26590	Tune up
QPSK			1	0	23.24	23.27	23.16	25.00
QPSK			1	50	23.03	23.18	23.04	25.00
20MHz 16QAM 50 25 22.33 22.46 22.39 24.00 200 50 50 25 20.45 22.34 22.25 24.00 24.00 250 50 50 22.41 22.43 22.36 24.00 22.41 22.43 22.36 24.00 22.41 22.43 22.36 24.00 22.41 22.43 22.26 24.00 22.41 22.43 22.27 22.26 24.00 22.43 22.27 22.26 24.00 22.45 22.40 22.16 24.00 22.45 22.40 22.16 24.00 22.45 22.40 22.16 24.00 22.10 24.00 22.10 22.00 2			1	99	23.18	23.15	23.06	25.00
20MHz 16QAM 50 50 50 22.45 22.34 22.25 24.00 100 0 22.41 22.43 22.36 24.00 1 0 22.33 22.21 22.18 24.00 1 50 22.43 22.27 22.26 24.00 1 99 22.45 22.40 22.16 24.00 1 99 22.45 22.40 22.16 24.00 24.00 50 25 21.48 21.59 21.41 23.00 50 50 25 21.68 21.50 21.54 23.00 50 50 50 21.54 21.42 21.42 23.00 100 0 21.63 21.56 21.48 23.00 1 0 21.56 21.48 23.00 1 0 21.56 21.48 23.00 1 1 99 21.39 21.52 21.51 23.00 64QAM 50 0 20.37 20.41 22.00 50 50 25 20.45 20.41 20.41 22.00		QPSK	50	0	22.52	22.56	22.45	24.00
100			50	25	22.33	22.46	22.39	24.00
20MHz 1 0 22.33 22.21 22.18 24.00 1 50 22.43 22.27 22.26 24.00 1 99 22.45 22.40 22.16 24.00 24.00 24.00 24.00 24.00 25.00 25 21.48 21.59 21.41 23.00 25.00 25 21.68 21.50 21.54 23.00 25.00 25 21.68 21.50 21.42 23.00 24.00 24.00 24.00 24.00 24.00 25.00 25 21.54 21.42 21.42 23.00 24.00 25.00 25 25 20.45 20.37 20.41 22.00 25.0			50	50	22.45	22.34	22.25	24.00
20MHz 16QAM 1 50 22.43 22.27 22.26 24.00 1 99 22.45 22.40 22.16 24.00 50 0 21.48 21.59 21.41 23.00 50 25 21.68 21.50 21.54 23.00 50 50 50 21.54 21.42 21.42 23.00 100 0 21.63 21.56 21.48 23.00 1 0 21.56 21.45 21.49 23.00 1 0 21.56 21.45 21.49 23.00 1 50 21.56 21.38 21.42 23.00 1 99 21.39 21.52 21.51 23.00 64QAM 50 0 20.37 20.53 20.40 22.00 50 25 20.45 20.41 20.41 22.00			100	0	22.41	22.43	22.36	24.00
20MHz 1 99 22.45 22.40 22.16 24.00 50 0 21.48 21.59 21.41 23.00 50 25 21.68 21.50 21.54 23.00 50 50 21.54 21.42 21.42 23.00 100 0 21.63 21.56 21.48 23.00 1 0 21.56 21.45 21.49 23.00 1 50 21.56 21.38 21.42 23.00 1 99 21.39 21.52 21.51 23.00 64QAM 50 0 20.37 20.53 20.40 22.00 50 25 20.45 20.37 20.41 22.00 50 50 20.45 20.41 20.41 22.00			1	0	22.33	22.21	22.18	24.00
20MHz 50 0 21.48 21.59 21.41 23.00 50 25 21.68 21.50 21.54 23.00 50 50 50 21.54 21.42 21.42 23.00 100 0 21.63 21.56 21.48 23.00 1 0 21.56 21.45 21.49 23.00 1 50 21.56 21.38 21.42 23.00 1 99 21.39 21.52 21.51 23.00 64QAM 50 0 20.37 20.53 20.40 22.00 50 25 20.45 20.37 20.41 22.00 50 50 20.45 20.41 20.41 22.00			1	50	22.43	22.27	22.26	24.00
50 25 21.68 21.50 21.54 23.00 50 50 21.54 21.42 21.42 23.00 100 0 21.63 21.56 21.48 23.00 1 0 21.56 21.45 21.49 23.00 1 50 21.56 21.38 21.42 23.00 1 99 21.39 21.52 21.51 23.00 64QAM 50 0 20.37 20.53 20.40 22.00 50 25 20.45 20.37 20.41 22.00 50 50 20.45 20.41 20.41 22.00			1	99	22.45	22.40	22.16	24.00
50 50 21.54 21.42 21.42 23.00 100 0 21.63 21.56 21.48 23.00 1 0 21.56 21.45 21.49 23.00 1 50 21.56 21.38 21.42 23.00 1 99 21.39 21.52 21.51 23.00 64QAM 50 0 20.37 20.53 20.40 22.00 50 25 20.45 20.37 20.41 22.00 50 50 20.45 20.41 20.41 22.00	20MHz	16QAM	50	0	21.48	21.59	21.41	23.00
100 0 21.63 21.56 21.48 23.00 1 0 21.56 21.45 21.49 23.00 1 50 21.56 21.38 21.42 23.00 1 99 21.39 21.52 21.51 23.00 64QAM 50 0 20.37 20.53 20.40 22.00 50 25 20.45 20.37 20.41 22.00 50 50 20.45 20.41 20.41 22.00			50	25	21.68	21.50	21.54	23.00
1 0 21.56 21.45 21.49 23.00 1 50 21.56 21.38 21.42 23.00 1 99 21.39 21.52 21.51 23.00 64QAM 50 0 20.37 20.53 20.40 22.00 50 25 20.45 20.37 20.41 22.00 50 50 20.45 20.41 20.41 22.00			50	50	21.54	21.42	21.42	23.00
64QAM 1 50 21.56 21.38 21.42 23.00 64QAM 99 21.39 21.52 21.51 23.00 50 0 20.37 20.53 20.40 22.00 50 25 20.45 20.37 20.41 22.00 50 50 20.45 20.41 20.41 22.00			100	0	21.63	21.56	21.48	23.00
64QAM 1 99 21.39 21.52 21.51 23.00 50 0 20.37 20.53 20.40 22.00 50 25 20.45 20.37 20.41 22.00 50 50 20.45 20.41 20.41 22.00			1	0	21.56	21.45	21.49	23.00
64QAM 50 0 20.37 20.53 20.40 22.00 50 25 20.45 20.37 20.41 22.00 50 50 20.45 20.41 20.41 22.00			1	50	21.56	21.38	21.42	23.00
50 25 20.45 20.37 20.41 22.00 50 50 20.45 20.41 20.41 22.00			1	99	21.39	21.52	21.51	23.00
50 50 20.45 20.41 20.41 22.00		64QAM	50	0	20.37	20.53	20.40	22.00
			50	25	20.45	20.37	20.41	22.00
100 0 20.54 20.43 20.39 22.00			50	50	20.45	20.41	20.41	22.00
			100	0	20.54	20.43	20.39	22.00

	LTE Band 25 I	Receiver on		Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
bandwidth	vidth Modulation	RD SIZE	RB Oliset	26047	26340	26683	Tune up
		1	0	17.06	17.46	17.15	19.00
		1	2	17.27	17.04	17.15	19.00
		1	5	17.25	17.13	17.18	19.00
	QPSK	3	0	17.26	17.39	17.14	19.00
		3	2	17.11	17.10	17.13	19.00
		3	3	17.32	17.15	17.38	19.00
1.4MHz		6	0	17.06	17.21	17.11	19.00
1.4111172		1	0	17.30	17.12	17.02	19.00
		1	2	17.13	17.14	17.34	19.00
		1	5	17.16	17.17	17.07	19.00
	16QAM	3	0	17.06	17.35	17.31	19.00
		3	2	17.28	17.44	17.15	19.00
		3	3	17.32	17.29	17.12	19.00
		6	0	17.05	17.19	17.17	19.00



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ı	1	ī	ı	i	·	•	1
		1	0	17.15	17.07	17.15	19.00
		1	2	17.20	17.10	17.18	19.00
		1	5	17.13	17.08	17.20	19.00
	64QAM	3	0	17.07	17.17	17.10	19.00
		3	2	17.17	17.11	17.02	19.00
		3	3	17.05	17.07	17.06	19.00
		6	0	17.03	17.11	17.07	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	KD SIZE	RB onset	26055	26340	26675	Turie up
		1	0	17.29	17.53	17.13	19.00
		1	7	17.22	17.23	17.05	19.00
		1	14	17.33	17.33	17.25	19.00
	QPSK	8	0	17.24	17.49	17.05	19.00
		8	4	17.02	17.25	17.09	19.00
		8	7	17.11	17.09	17.23	19.00
		15	0	17.21	17.15	17.04	19.00
		1	0	17.37	17.11	17.06	19.00
		1	7	17.15	17.28	17.12	19.00
		1	14	17.16	17.10	17.08	19.00
3MHz	16QAM	8	0	17.15	17.45	17.36	19.00
		8	4	17.03	17.13	17.06	19.00
		8	7	17.02	17.40	17.27	19.00
		15	0	17.15	17.06	17.17	19.00
		1	0	17.05	17.06	17.20	19.00
		1	7	17.08	17.13	17.11	19.00
		1	14	17.19	17.20	17.02	19.00
	64QAM	8	0	17.03	17.03	17.12	19.00
		8	4	17.09	17.20	17.17	19.00
		8	7	17.09	17.16	17.17	19.00
		15	0	17.12	17.15	17.04	19.00
Donalusialth	Modulation	DD size	DD offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	26065	26340	26665	Tune up
		1	0	17.27	17.43	17.38	19.00
		1	13	17.10	17.28	17.31	19.00
		1	24	17.27	17.23	17.17	19.00
	QPSK	12	0	17.06	17.50	17.02	19.00
		12	6	17.09	17.24	17.27	19.00
5MHz		12	13	17.16	17.23	17.08	19.00
		25	0	17.07	17.19	17.01	19.00
		1	0	17.03	17.06	17.23	19.00
	160 484	1	13	17.02	17.00	17.14	19.00
	16QAM	1	24	17.20	17.27	17.18	19.00
		12	0	17.17	17.23	17.37	19.00



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I	ı	I	Í	İ	j 1	İ	I
		12	6	17.13	17.37	17.16	19.00
		12	13	17.26	17.25	17.20	19.00
		25	0	17.09	17.19	17.18	19.00
		1	0	17.09	17.06	17.08	19.00
		1	13	17.09	17.16	17.20	19.00
		1	24	17.05	17.03	17.20	19.00
	64QAM	12	0	17.02	17.11	17.02	19.00
		12	6	17.10	17.16	17.16	19.00
		12	13	17.05	17.12	17.09	19.00
		25	0	17.16	17.15	17.14	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	19.00
Bandwidth	Wodulation	ND 3i2e	ND onset	26090	26340	26640	19.00
		1	0	17.22	17.47	17.10	19.00
		1	25	17.24	17.26	17.05	19.00
		1	49	17.04	17.26	17.08	19.00
	QPSK	25	0	17.24	17.10	17.19	19.00
		25	13	17.35	17.10	17.10	19.00
		25	25	17.11	17.20	17.40	19.00
		50	0	17.13	17.11	17.12	19.00
		1	0	17.05	17.05	17.29	19.00
		1	25	17.27	17.31	17.21	19.00
		1	49	17.08	17.02	17.23	19.00
10MHz	16QAM	25	0	17.29	17.33	17.14	19.00
		25	13	17.12	17.38	17.38	19.00
		25	25	17.14	17.17	17.05	19.00
		50	0	17.12	17.36	17.27	19.00
		1	0	17.19	17.10	17.17	19.00
		1	25	17.04	17.09	17.17	19.00
		1	49	17.01	17.10	17.20	19.00
	64QAM	25	0	17.02	17.14	17.19	19.00
		25	13	17.07	17.10	17.17	19.00
		25	25	17.05	17.04	17.13	19.00
		50	0	17.10	17.07	17.10	19.00
Daniel del	Mandadatian	DD -:	DD - #1	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	26115	26340	26615	Tune up
		1	0	17.19	17.48	17.29	19.00
		1	38	17.23	17.18	17.16	19.00
		1	74	17.18	17.33	17.18	19.00
15MHz	QPSK	36	0	17.26	17.24	17.15	19.00
TOWING		36	18	17.17	17.26	17.24	19.00
		36	39	17.17	17.16	17.03	19.00
		75	0	17.06	17.31	17.12	19.00
	16QAM	1	0	17.25	17.33	17.12	19.00



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		1	38	17.04	17.01	17.20	19.00
		1	74	17.16	17.09	17.11	19.00
		36	0	17.16	17.41	17.22	19.00
		36	18	17.08	17.31	17.26	19.00
		36	39	17.39	17.40	17.26	19.00
		75	0	17.14	17.34	17.29	19.00
		1	0	17.12	17.04	17.06	19.00
		1	38	17.15	17.16	17.01	19.00
		1	74	17.01	17.20	17.14	19.00
	64QAM	36	0	17.01	17.05	17.02	19.00
		36	18	17.02	17.12	17.18	19.00
		36	39	17.19	17.20	17.01	19.00
		75	0	17.08	17.12	17.06	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Bandwidth	Wodulation	RD SIZE	RB oliset	26140	26340	26590	Tune up
		1	0	17.42	17.53	17.46	19.00
		1	50	17.18	17.33	17.40	19.00
		1	99	17.35	17.40	17.23	19.00
	QPSK	50	0	17.31	17.46	17.25	19.00
		50	25	17.15	17.31	17.24	19.00
		50	50	17.13	17.25	17.35	19.00
		100	0	17.06	17.32	17.30	19.00
		1	0	17.37	17.18	17.13	19.00
		1	50	17.06	17.35	17.36	19.00
		1	99	17.21	17.22	17.13	19.00
20MHz	16QAM	50	0	17.17	17.43	17.35	19.00
		50	25	17.15	17.48	17.12	19.00
		50	50	17.35	17.43	17.31	19.00
		100	0	17.09	17.38	17.10	19.00
		1	0	17.15	17.18	17.04	19.00
		1	50	17.06	17.11	17.09	19.00
		1	99	17.11	17.18	17.06	19.00
	64QAM	50	0	17.06	17.09	17.16	19.00
		50	25	17.16	17.07	17.11	19.00
		50	50	17.10	17.05	17.10	19.00
		100	0	17.17	17.05	17.18	19.00

LTE Band 26 Full Power					Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB size RB offset	Channel	Channel	Channel	Tune up
Danawiatii	Modulation	IND SIZE	IVD Ollset	26697	26865	27033	rune up
		1	0	23.13	23.17	23.01	25.00
1.4MHz	QPSK	1	2	23.11	23.03	23.02	25.00
		1	5	23.13	23.01	23.15	25.00



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		3	0	22.32	22.17	22.29	24.00
		3	2	22.24	22.06	22.05	24.00
		3	3	22.18	22.23	22.18	24.00
		6	0	22.14	22.18	22.21	24.00
		1	0	22.24	22.15	22.12	24.00
		1	2	22.19	22.25	22.31	24.00
		1	5	22.04	22.15	22.20	24.00
	16QAM	3	0	21.44	21.30	21.42	23.00
	100,111	3	2	21.28	21.48	21.24	23.00
		3	3	21.35	21.29	21.21	23.00
		6	0	21.49	21.12	21.36	23.00
		1	0	21.38	21.31	21.45	23.00
		1	2	21.18	21.17	21.17	23.00
		1	5	21.44	21.29	21.38	23.00
	64QAM	3	0	20.16	20.20	20.34	22.00
	O+Q/AIVI	3	2	20.48	20.32	20.20	22.00
		3	3	20.46	20.52	20.53	22.00
		6	0	20.42	20.37	20.26	22.00
		U	U	Channel	Channel	Channel	22.00
Bandwidth	Modulation	RB size	RB offset	26705	26865	27025	Tune up
		1	0	23.03	23.16	23.00	25.00
		1	7	23.03	23.16	23.07	25.00
		1	14	23.10	23.13	23.01	25.00
	QPSK	8	0	22.24	22.35	22.34	24.00
	QFSK	8	4	22.24	22.05	22.04	24.00
		8	7				
				22.05	22.17	22.08	24.00
		15	0	22.28 22.02	22.17	22.09 22.09	24.00 24.00
		1			22.18		
		1	7	22.14	22.14	22.00	24.00
20011-	4000	1	14	22.15	22.27	22.11	24.00
3MHz	16QAM	8	0 4	21.40 21.31	21.29	21.31	23.00
		8			21.28	21.27	23.00
		8	7	21.17	21.16	21.34	23.00
		15	0	21.39	21.14	21.46	23.00
		1	7	21.42	21.48	21.22	23.00
		1		21.41	21.34	21.29	23.00
	C4OAM	1	14	21.31	21.38	21.24	23.00
	64QAM	8	0	20.41	20.46	20.46	22.00
		8	4	20.22	20.46	20.28	22.00
		8 15	7	20.26	20.16	20.24	22.00
		15	0	20.49	20.27	20.53	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26865	Channel 27015	Tune up
		1	0	23.02		23.09	25.00
		1	13	23.10	23.16 23.07	23.02	25.00
		1	24	23.10	23.03	23.10	25.00
	QPSK	12	0	23.11	23.03	23.10	25.00
	QF3N		+				
		12 12	6 13	22.27 22.29	22.01 22.25	22.21 22.34	24.00 24.00
		25	0		22.25		
5MU-			ļ	22.36		22.25	24.00
5MHz		1	0	22.07	22.15	22.23	24.00
		1	13	22.37	22.33	22.01	24.00
	160 114	1	24	22.17	22.23	22.18	24.00
	16QAM	12	0	21.31	21.13	21.46	23.00
		12	6	21.31	21.41	21.41	23.00
		12	13	21.25	21.34	21.36	23.00
	0.40.4	25	0	21.30	21.26	21.21	23.00
	64QAM	1	0	21.44	21.41	21.30	23.00



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	l I	1	13	21.47	21.52	21.31	23.00
		1	24	21.47	21.55	21.54	23.00
		12	0	20.42	20.54	20.43	22.00
		12	6	20.42	20.50	20.46	22.00
		12	13	20.42	20.30	20.26	22.00
		25	0	20.16	20.43	20.21	22.00
			_	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	26750	26865	26990	Tune up
		1	0	23.08	23.12	23.11	25.00
		1	25	23.11	23.03	23.04	25.00
		1	49	23.05	23.10	23.02	25.00
	QPSK	25	0	22.21	22.17	22.35	24.00
		25	13	22.13	22.03	22.02	24.00
		25	25	22.39	22.28	22.17	24.00
		50	0	22.14	22.35	22.31	24.00
		1	0	22.03	22.13	22.10	24.00
		1	25	22.11	22.21	22.15	24.00
		1	49	22.19	22.14	22.30	24.00
10MHz	16QAM	25	0	21.50	21.11	21.43	23.00
		25	13	21.15	21.28	21.42	23.00
		25	25	21.28	21.17	21.31	23.00
		50	0	21.54	21.11	21.28	23.00
		1	0	21.27	21.18	21.44	23.00
		1	25	21.43	21.33	21.38	23.00
		1	49	21.16	21.41	21.47	23.00
	64QAM	25	0	20.53	20.40	20.18	22.00
		25	13	20.41	20.52	20.52	22.00
		25	25	20.39	20.26	20.53	22.00
		50	0	20.22	20.19	20.24	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	modulation.			26775	26865	26965	'
		1	0	23.19	23.23	23.14	25.00
		1	38	23.02	23.11	23.12	25.00
	0.001	1	74	23.11	23.17	23.15	25.00
	QPSK	36	0	22.33	22.38	22.36	24.00
		36	18	22.28	22.13	22.21	24.00
		36	39	22.18	22.28	22.18	24.00
		75	0	22.39	22.38	22.34	24.00
		1	0	22.22	22.30	22.27	24.00
		1	38 74	22.17	22.33	22.13	24.00
45841-	400 414	1		22.23	22.37	22.36	24.00
15MHz	16QAM	36 36	0 18	21.53	21.36	21.50	23.00
				21.39	21.49	21.47	23.00
		36 75	39 0	21.41	21.35 21.33	21.36	23.00
			0	21.55		21.46	23.00
		1		21.43	21.16	21.23 21.55	23.00
		1	38	21.41	21.33		23.00
	640414	1	74	21.27	21.28	21.24	23.00
	64QAM	36	0	20.55	20.28	20.48	22.00
		36	18	20.30	20.48	20.24	22.00
		36	39	20.16	20.49	20.47	22.00
		75	0	20.22	20.37	20.30	22.00

	LTE Band 30	Full Power			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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20.49 20.19 20.22	22.00
20.33 20.34 20.28	22.00
20.29 20.40 20.44	22.00
20.17 20.23 20.16	22.00
	Tungun
/ 27710 /	Tune up
/ 22.99 /	24.00
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/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 /	24.00 23.00 23.00 23.00 23.00 23.00
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/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 / / 21.88 / / 22.04 /	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 / / 21.88 / / 22.04 / / 21.86 /	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 / / 21.88 / / 22.04 / / 21.86 / / 21.11 /	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00
/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 / / 21.88 / / 22.04 / / 21.86 / / 21.11 / / 21.23 /	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00
/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 / / 21.88 / / 22.04 / / 21.86 / / 21.11 / / 21.23 / / 21.10 /	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00
/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 / / 21.88 / / 22.04 / / 21.86 / / 21.11 / / 21.23 / / 21.11 /	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00
/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 / / 21.88 / / 22.04 / / 21.86 / / 21.11 / / 21.23 / / 21.10 / / 21.52 /	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 22.00 23.00
/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 / / 21.88 / / 22.04 / / 21.86 / / 21.11 / / 21.23 / / 21.10 / / 21.52 / / 21.20 / / 21.21 /	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 23.00 23.00 23.00 23.00 23.00
/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 / / 21.88 / / 22.04 / / 21.86 / / 21.11 / / 21.23 / / 21.10 / / 21.11 / / 21.52 / / 21.20 / / 21.21 / / 20.38 /	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
/ 22.72 / / 22.03 / / 21.95 / / 21.97 / / 21.99 / / 21.88 / / 22.04 / / 21.86 / / 21.11 / / 21.23 / / 21.10 / / 21.52 / / 21.20 / / 21.21 /	24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 22.00 22.00 22.00 23.00 23.00 23.00 23.00 23.00
33 34 44 10 10 10 10 10 10 10 10 10 10 10 10 10	3 22.94 22.97 22.78 4 22.85 22.80 22.86 6 22.15 22.15 22.12 6 21.96 22.02 22.02 3 21.97 22.00 22.12 4 22.17 22.16 22.14 22.16 22.05 22.02 3 22.00 22.15 21.91 4 21.94 21.91 22.10 21.22 21.18 21.27 3 21.33 21.13 21.29 3 21.33 21.13 21.29 4 21.43 21.44 21.31 3 21.53 21.30 21.44 4 21.53 21.30 21.44 4 21.53 21.18 21.47 4 20.49 20.19 20.22 5 20.33 20.34 20.28 3 20.17 20.23 20.16 Channel Channel Channel Channel Channel Channel Channel

LTE Band 66 Full Power				Conducted Power(dBm)			
Bandwidth	Bandwidth Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiath		ND SIZE	RD Ollset	131979	132322	132665	Turie up
		1	0	23.51	23.65	23.37	24.50
		1	2	23.47	23.23	23.20	24.50
1.4MHz	QPSK	1	5	23.42	23.41	23.42	24.50
1.4111112	QPSK .	3	0	22.89	22.71	22.84	23.50
		3	1	22.70	22.49	22.60	23.50
		3	3	22.59	22.82	22.73	23.50



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		6	0	22.48	22.71	22.55	23.50
		1	0	22.82	22.64	22.59	23.50
		1	2	22.81	22.73	22.74	23.50
		1	5	22.59	22.83	22.73	23.50
	16QAM	3	0	21.85	21.97	21.93	22.50
		3	1	21.94	21.72	21.89	22.50
		3	3	21.68	21.80	21.89	22.50
		6	0	21.85	21.78	21.88	22.50
		1	0	21.47	21.53	21.34	23.00
		1	2	21.32	21.50	21.19	23.00
		1	5	21.53	21.52	21.23	23.00
	64QAM	3	0	20.25	20.35	20.34	22.00
	0.107.111	3	1	20.29	20.47	20.47	22.00
		3	3	20.18	20.21	20.28	22.00
		6	0	20.34	20.16	20.16	22.00
				Channel	Channel	Channel	22.00
Bandwidth	Modulation	RB size	RB offset	131987	132322	132657	Tune up
		1	0	23.44	23.58	23.41	24.50
		1	7	23.46	23.38	23.39	24.50
		1	14	23.47	23.43	23.46	24.50
	QPSK	8	0	23.47	23.43	23.46	23.50
	QI OIN	8	4	22.70	22.51	22.52	23.50
		8	7	22.73	22.87	22.58	23.50
		15	0	22.47	22.81	22.72	23.50
		13	0	22.70	22.78	22.60	23.50
		1	7	22.64	22.65	22.70	23.50
		1	<u> </u>	22.75	22.74	22.77	
3MHz	16001		0				23.50 22.50
ЭМП	16QAM	8		21.88	21.97	21.81	
		8	7	22.00 21.72	21.71 21.73	21.83 21.81	22.50 22.50
		15	0	21.67	21.80	21.80	22.50
	64QAM	1	0	21.51	21.45	21.33	23.00
		1	7	21.22	21.31	21.42	23.00
		1	14	21.37	21.47	21.18	23.00
		8	0	20.32	20.30	20.47	22.00
		8	4	20.17	20.40	20.38	22.00
		8	7	20.16	20.52	20.38	22.00
		15	0	20.20	20.36	20.39	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		4	^	131997	132322	132647	· ·
		1	0	23.43	23.50	23.34	24.50
		1	13	23.25	23.42	23.32	24.50
	ODOK	1	24	23.37	23.43	23.35	24.50
	QPSK	12	0	22.76	22.87	22.88	23.50
		12	6	22.86	22.56	22.46	23.50
		12	13	22.52	22.72	22.69	23.50
		25	0	22.58	22.67	22.77	23.50
		1	0	22.75	22.75	22.48	23.50
5MHz		1	13	22.76	22.73	22.71	23.50
	400.00	1	24	22.57	22.63	22.58	23.50
	16QAM	12	0	21.92	21.83	21.98	22.50
		12	6	22.05	21.81	21.93	22.50
		12	13	21.84	21.91	21.92	22.50
		25	0	21.89	21.80	21.72	22.50
		1	0	21.29	21.44	21.50	23.00
	64QAM	1	13	21.48	21.26	21.33	23.00
	5 . S	1	24	21.28	21.36	21.44	23.00
	i	12	0	20.23	20.28	20.50	22.00



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	1	12	1 6	1 20.16	20.46	20.50	l 22.00
			6	20.16	20.46	20.50	22.00
		12	13	20.30	20.28	20.44	22.00
		25	0	20.26	20.29	20.46	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
			-	132022	132322	132622	· ·
		1	0	23.58	23.65	23.46	24.50
		1	25	23.26	23.34	23.30	24.50
		1	49	23.29	23.41	23.31	24.50
	QPSK	25	0	22.68	22.87	22.73	23.50
		25	13	22.82	22.67	22.66	23.50
		25	25	22.60	22.67	22.72	23.50
		50	0	22.58	22.78	22.55	23.50
		1	0	22.87	22.73	22.46	23.50
		1	25	22.65	22.69	22.80	23.50
		1	49	22.69	22.68	22.69	23.50
10MHz	16QAM	25	0	21.87	22.05	21.82	22.50
		25	13	21.96	21.73	21.71	22.50
		25	25	21.86	21.91	21.86	22.50
		50	0	21.66	21.74	21.68	22.50
		1	0	21.36	21.31	21.16	23.00
		1	25	21.45	21.23	21.51	23.00
		1	49	21.20	21.48	21.48	23.00
	64QAM	25	0	20.27	20.53	20.18	22.00
		25	13	20.39	20.23	20.35	22.00
		25	25	20.35	20.49	20.18	22.00
		50	0	20.19	20.32	20.44	22.00
		55 :	55 %	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	132047	132322	132597	Tune up
		1	0	23.42	23.66	23.54	24.50
		1	38	23.40	23.44	23.28	24.50
	QPSK	1	74	23.39	23.35	23.54	24.50
		36	0	22.89	22.68	22.76	23.50
		36	18	22.67	22.67	22.67	23.50
		36	39	22.59	22.77	22.69	23.50
		75	0	22.53	22.77	22.72	23.50
		1	0	22.69	22.59	22.59	23.50
		1	38	22.74	22.75	22.76	23.50
		1	74	22.69	22.69	22.69	23.50
15MHz	16QAM	36	0	21.99	21.85	21.83	22.50
		36	18	22.03	21.88	21.83	22.50
		36	39	21.69	21.80	21.96	22.50
		75	0	21.84	21.71	21.73	22.50
		1	0	21.33	21.51	21.34	23.00
		1	38	21.23	21.42	21.48	23.00
		1	74	21.25	21.52	21.34	23.00
	64QAM	36	0	20.32	20.55	20.21	22.00
	J 1 307 11V1	36	18	20.21	20.50	20.53	22.00
		36	39	20.18	20.52	20.50	22.00
		75	0	20.41	20.18	20.33	22.00
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	132072	132322	132572	Tune up
		1	0	23.63	23.68	23.56	24.50
		1	50	23.49	23.48	23.45	24.50
		1	99	23.50	23.46	23.54	24.50
20111-	QPSK						
20MHz	QF3N	50 50	0	22.89	22.93	22.91	23.50
			25	22.87	22.73	22.68	23.50
		50	50	22.77	22.89	22.77	23.50
	İ	100	0	22.71	22.88	22.79	23.50



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			-				-
		1	0	22.88	22.84	22.71	23.50
		1	50	22.84	22.79	22.83	23.50
		1	99	22.77	22.86	22.83	23.50
	16QAM	50	0	22.03	22.06	22.06	22.50
		50	25	22.05	21.94	21.94	22.50
		50	50	21.86	21.94	22.01	22.50
		100	0	21.90	21.93	21.90	22.50
		1	0	21.40	21.20	21.46	23.00
		1	50	21.29	21.46	21.52	23.00
		1	99	21.37	21.26	21.43	23.00
	64QAM	50	0	20.31	20.42	20.17	22.00
		50	25	20.27	20.31	20.53	22.00
		50	50	20.51	20.55	20.50	22.00
	-	100	0	20.51	20.42	20.37	22.00

	LTE Band 66	Receiver on		Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up			
Bandwidth	Wodulation	ND SIZE	ND onset	131979	132322	132665	Tune up			
		1	0	18.12	18.38	18.24	19.00			
		1	2	17.98	18.14	17.97	19.00			
		1	5	18.05	18.03	18.12	19.00			
	QPSK	3	0	17.92	18.09	17.97	19.00			
		3	1	17.95	18.22	18.12	19.00			
		3	3	17.87	18.11	18.07	19.00			
		6	0	18.00	18.05	17.89	19.00			
		1	0	18.00	18.18	18.03	19.00			
		1	2	17.80	17.98	18.15	19.00			
		1	5	17.84	17.99	18.07	19.00			
1.4MHz	16QAM	3	0	17.91	18.29	17.87	19.00			
		3	1	17.89	17.90	17.91	19.00			
		3	3	17.95	18.02	18.21	19.00			
		6	0	17.81	17.97	17.88	19.00			
		1	0	18.14	18.12	18.12	19.00			
		1	2	17.96	18.02	17.92	19.00			
		1	5	18.06	18.06	18.11	19.00			
	64QAM	3	0	17.93	17.86	18.02	19.00			
		3	1	18.07	18.12	18.14	19.00			
		3	3	18.08	18.09	17.91	19.00			
		6	0	17.85	18.09	18.14	19.00			
Don duvi dtl-	Modulation	DD circ	DD offoot	Channel	Channel	Channel	Tungun			
Bandwidth	Modulation	RB size	RB offset	131987	132322	132657	Tune up			
		1	0	18.19	18.22	18.07	19.00			
3MHz	QPSK	1	7	18.04	18.25	17.96	19.00			
		1	14	18.08	17.98	18.24	19.00			



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1		8	J 0	18.10	18.05	17.91	19.00
		8	4	18.06	18.19	18.13	19.00
		8	7	17.93	18.16	18.16	19.00
		15	0	17.94	18.05	18.12	19.00
		1	0	17.94	18.11	18.01	19.00
		1	7	17.90	18.14	18.04	19.00
		1	14	18.05	17.88	18.06	19.00
	16QAM	8	0	17.85	18.24	17.83	19.00
	TOQAW	8	4	18.06	17.92	17.96	19.00
		8	7	17.88	18.06	18.18	19.00
		15	0	17.82	18.02	17.98	19.00
		1	0	18.06	17.92	18.03	19.00
		1	7	18.06	17.92	17.86	19.00
		1	14	18.15	18.01	18.13	19.00
	64QAM	8	0	18.15	17.93	18.15	19.00
	010/11/1	8	4	18.13	17.99	18.09	19.00
		8	7	17.90	18.00	18.07	19.00
		15	0	17.94	18.11	18.13	19.00
			-	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	131997	132322	132647	Tune up
		1	0	17.90	17.81	17.99	19.00
		1	13	17.93	18.14	18.02	19.00
		1	24	18.07	17.92	18.14	19.00
	QPSK	12	0	18.04	17.87	17.98	19.00
		12	6	17.91	18.09	18.13	19.00
		12	13	17.98	18.23	18.02	19.00
		25	0	17.96	18.02	18.12	19.00
		1	0	18.15	18.08	17.93	19.00
		1	13	17.90	18.12	17.93	19.00
		1	24	17.87	18.02	18.19	19.00
5MHz	16QAM	12	0	17.90	18.20	17.86	19.00
		12	6	17.92	18.03	17.94	19.00
		12	13	17.94	18.08	18.00	19.00
		25	0	17.80	17.95	17.91	19.00
		1	0	17.96	18.15	18.03	19.00
		1	13	17.97	18.13	17.88	19.00
		1	24	17.91	17.85	17.91	19.00
	64QAM	12	0	18.04	18.05	18.07	19.00
		12	6	17.90	18.15	17.97	19.00
		12	13	18.07	18.02	17.97	19.00
		25	0	17.87	18.05	17.90	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	19.00
Danamani	Modulation	112 0120	112 011001	132022	132322	132622	19.00



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18.08 18.05 18.04 18.07 17.86 17.92 18.12	18.28 18.08 17.99 17.87 18.05	18.17 18.18 18.11 17.89 18.01	19.00 19.00 19.00 19.00
18.04 18.07 17.86 17.92 18.12	17.99 17.87 18.05	18.11 17.89 18.01	19.00 19.00
18.07 17.86 17.92 18.12	17.87 18.05	17.89 18.01	19.00
17.86 17.92 18.12	18.05	18.01	
17.92 18.12			19.00
18.12	18.30		
		18.06	19.00
17.00	18.19	18.07	19.00
17.93	18.07	17.99	19.00
17.87	18.00	17.97	19.00
17.82	17.97	18.06	19.00
17.90	18.26	17.95	19.00
17.94	17.99	18.03	19.00
17.97	18.15	18.02	19.00
17.97	18.20	17.82	19.00
17.92	17.87	18.03	19.00
18.15	17.88	17.90	19.00
18.15	17.88	17.92	19.00
18.10	17.91	17.89	19.00
17.92	18.10	18.11	19.00
18.12	18.01	17.89	19.00
18.14	17.90	18.12	19.00
Channel	Channel	Channel	T
132047	132322	132597	Tune up
18.11	18.19	18.26	19.00
17.97	18.15	18.19	19.00
18.06	17.93	18.24	19.00
18.05	18.09	18.03	19.00
17.90	18.05	18.00	19.00
18.00	18.30	18.04	19.00
18.03	18.13	17.96	19.00
17.92	18.31	17.97	19.00
17.80	18.18	18.12	19.00
17.92	17.87	18.23	19.00
17.89	18.18	18.06	19.00
18.04	18.09	17.82	19.00
18.04	18.17	18.03	19.00
17.85	18.13	17.85	19.00
17.87	18.03	17.94	19.00
18.01	17.97	18.08	19.00
17.93	18.00	18.08	19.00
	18.06	17.94	19.00
18.10 17.88	18.06 18.08	17.94 17.94	19.00 19.00
	17.90 17.94 17.97 17.97 17.92 18.15 18.15 18.10 17.92 18.12 18.14 Channel 132047 18.11 17.97 18.06 18.05 17.90 18.00 18.03 17.92 17.80 17.92 17.80 17.92 17.89 18.04 18.04 17.85 17.87 18.01	17.90 18.26 17.94 17.99 17.97 18.15 17.92 17.87 18.15 17.88 18.15 17.88 18.10 17.91 17.92 18.10 18.12 18.01 18.14 17.90 Channel Channel 132047 132322 18.11 18.19 17.97 18.15 18.06 17.93 18.05 18.09 17.90 18.05 18.00 18.30 18.03 18.13 17.92 18.31 17.80 18.18 17.92 17.87 17.89 18.18 18.04 18.09 18.04 18.09 18.04 18.03 18.01 17.97	17.90 18.26 17.95 17.94 17.99 18.03 17.97 18.15 18.02 17.97 18.20 17.82 17.92 17.87 18.03 18.15 17.88 17.90 18.15 17.88 17.92 18.10 17.91 17.89 17.92 18.10 18.11 18.12 18.01 17.89 18.14 17.90 18.12 Channel Channel Channel 132047 132322 132597 18.11 18.19 18.26 17.97 18.15 18.19 18.06 17.93 18.24 18.05 18.09 18.03 17.90 18.05 18.00 18.00 18.30 18.04 18.03 18.13 17.96 17.92 18.31 17.97 17.80 18.18 18.12 17.92 17.87 18.23



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		75	0	17.87	17.89	17.96	19.00	
Donadoui dida	Madulation	DD size	DD effect	Channel	Channel	Channel	T	
Bandwidth	Modulation	RB size	RB offset	132072	132322	132572	Tune up	
		1	0	18.32	18.45	18.36	19.00	
		1	50	18.19	18.38	18.26	19.00	
		1	99	18.16	18.22	18.30	19.00	
	QPSK	50	0	18.15	18.37	18.11	19.00	
		50	25	18.04	18.27	18.26	19.00	
		50	50	18.11	18.36	18.24	19.00	
		100	0	18.18	18.30	18.19	19.00	
	16QAM	1	0	18.22	18.37	18.10	19.00	
		1	50	18.08	18.27	18.23	19.00	
		1	99	18.12	18.16	18.31	19.00	
20MHz		50	0	18.09	18.40	18.06	19.00	
		50	25	18.13	18.17	18.12	19.00	
		50	50	18.11	18.22	18.27	19.00	
		100	0	18.02	18.25	18.09	19.00	
		1	0	18.03	18.12	17.93	19.00	
		1	50	17.85	17.85	17.85	19.00	
		1	99	18.04	18.04	17.96	19.00	
	64QAM	50	0	17.89	18.03	17.95	19.00	
		50	25	18.00	18.12	18.09	19.00	
		50	50	17.99	17.88	18.02	19.00	
		100	0	18.00	18.00	17.98	19.00	

	LTE Band 71	Full Power		Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
Danuwium	Modulation	RD SIZE	KD Ollset	133147	133322	133447	rune up		
		1	0	23.45	23.57	23.30	25.00		
		1	13	23.44	23.50	23.02	25.00		
		1	24	23.36	23.20	23.17	25.00		
	QPSK	12	0	22.66	22.38	22.50	24.00		
		12	6	22.52	22.43	22.18	24.00		
		12	13	22.46	22.35	22.03	24.00		
		25	0	22.47	22.45	22.53	24.00		
		1	0	22.44	22.37	22.30	24.00		
		1	13	22.43	22.20	22.10	24.00		
5MHz		1	24	22.19	22.45	22.25	24.00		
	16QAM	12	0	21.50	21.37	21.38	23.00		
		12	6	21.25	21.46	21.10	23.00		
		12	13	21.47	21.16	21.26	23.00		
		25	0	21.05	21.40	21.31	23.00		
		1	0	21.43	21.35	21.39	23.00		
		1	13	21.27	21.50	21.16	23.00		
	64QAM	1	24	21.38	21.18	21.38	23.00		
		12	0	20.29	20.35	20.50	22.00		
		12	6	20.31	20.36	20.35	22.00		



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		12	13	20.18	20.17	20.33	22.00
		25	0	20.45	20.17	20.43	22.00
		20	0	Channel	Channel	Channel	22.00
Bandwidth	Modulation	RB size	RB offset	133172	133322	133422	Tune up
		1	0	23.42	23.63	23.00	25.00
		<u> </u>	25	23.31	23.62	23.06	25.00
		<u>.</u> 1	49	23.32	23.38	23.19	25.00
	QPSK	25	0	22.51	22.37	22.31	24.00
		25	13	22.58	22.10	22.32	24.00
		25	25	22.37	22.25	22.09	24.00
		50	0	22.53	22.54	22.37	24.00
		1	0	22.50	22.49	22.15	24.00
		1	25	22.55	22.30	22.01	24.00
		1	49	22.42	22.51	22.28	24.00
10MHz	16QAM	25	0	21.52	21.54	21.14	23.00
		25	13	21.22	21.55	21.38	23.00
		25	25	21.61	21.42	21.47	23.00
		50	0	21.00	21.56	21.32	23.00
		1	0	21.55	21.20	21.19	23.00
		1	25	21.26	21.53	21.47	23.00
		1	49	21.32	21.25	21.22	23.00
	64QAM	25	0	20.16	20.46	20.40	22.00
		25	13	20.21	20.31	20.34	22.00
		25	25	20.37	20.49	20.53	22.00
		50	0	20.45	20.31	20.30	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bandwidth	Modulation	ND 3126	IND Ollset	133197	133322	133397	rune up
		1	0	23.53	23.71	23.34	25.00
		1	38	23.24	23.68	23.10	25.00
		1	74	23.47	23.47	23.15	25.00
	QPSK	36	0	22.31	22.56	22.56	24.00
		36	18	22.36	22.15	22.26	24.00
		36	39	22.37	22.48	22.09	24.00
		75	0	22.46	22.30	22.65	24.00
		1	0	22.16	22.13	22.03	24.00
		1	38	22.66	22.06	22.52	24.00
45501	400414	1	74	22.33	22.50	22.23	24.00
15MHz	16QAM	36	0	21.55	21.63	21.04	23.00
		36	18	21.37	21.25	21.26	23.00
		36	39	21.31	21.44	21.12	23.00
		75	0	21.32	21.48	21.13	23.00
		1 1	0	21.26	21.48	21.30 21.49	23.00
		<u> </u>	38 74	21.30 21.34	21.24 21.43	21.49	23.00 23.00
	64QAM	36	0	20.19	20.29	20.51	23.00
	UHWAN	36	18	20.19	20.46	20.50	22.00
		36	39	20.38	20.46	20.47	22.00
		75	0	20.36	20.34	20.47	22.00
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	133222	133322	133372	Tune up
		1	0	23.81	23.84	23.43	25.00
		1	50	23.62	23.81	23.25	25.00
		1	99	23.73	23.59	23.33	25.00
	QPSK	50	0	22.71	22.78	22.73	24.00
20MHz	Q: O:(50	25	22.68	22.53	22.10	24.00
		50	50	22.61	22.48	22.43	24.00
		100	0	22.69	22.74	22.67	24.00
	i	100		22.03	∠∠ →	22.01	27.00



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	i	i		1 00 70	00.40	00.44	0400
		1	50	22.76	22.42	22.11	24.00
		1	99	22.60	22.70	22.31	24.00
		50	0	21.56	21.66	21.10	23.00
		50	25	21.40	21.66	21.14	23.00
		50	50	21.64	21.48	21.05	23.00
		100	0	21.40	21.81	21.14	23.00
		1	0	21.26	21.32	21.32	23.00
		1	50	21.42	21.29	21.22	23.00
		1	99	21.34	21.16	21.22	23.00
	64QAM	50	0	20.25	20.31	20.47	22.00
		50	25	20.33	20.39	20.54	22.00
		50	50	20.46	20.23	20.26	22.00
		100	0	20.52	20.23	20.39	22.00



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8.1.4 Conducted Power of Downlink LTE CA

In this section, the following conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A.Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

Power test equipment: Anritsu Radio Communication Analyzer MT8821C

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as below, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing

In applying the existing power measurement procedures for DL CA SAR test exclusion, the configurations that require power measurements are highlighted in the table as below:

1 Band / 2CC CA_2C CA_2A-5A CA_2A-2A CA_2A-2A CA_2A-2B CA_2A-4A CA_2B CA_CA_B CA_CA_CB CA_CB require power measurements are highlighted in the table a		
CA_2A-2A CA_2A-12A CA_4A-4A CA_2A-29A CA_5B CA_2A-66A CA_25A-25A CA_2A-71A CA_66B CA_2A-4A CA_66C CA_4A-5A CA_66A-66A CA_4A-12A / CA_4A-29A / CA_5A-30A / CA_5A-66A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-30A / CA_29A-66A	1 Band / 2CC	2 Bands / 2CC
CA_4A-4A CA_2A-29A CA_5B CA_2A-66A CA_25A-25A CA_2A-71A CA_66B CA_2A-4A CA_66C CA_4A-5A CA_66A-66A CA_4A-12A / CA_4A-29A / CA_5A-30A / CA_5A-66A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-66A	CA_2C	CA_2A-5A
CA_5B CA_2A-66A CA_25A-25A CA_2A-71A CA_66B CA_2A-4A CA_66C CA_4A-5A CA_66A-66A CA_4A-12A / CA_4A-29A / CA_4A-71A / CA_5A-30A / CA_5A-66A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-66A	CA_2A-2A	CA_2A-12A
CA_25A-25A CA_2A-71A CA_66B CA_2A-4A CA_66C CA_4A-5A CA_66A-66A CA_4A-12A / CA_4A-29A / CA_5A-30A / CA_5A-66A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-66A	CA_4A-4A	CA_2A-29A
CA_66B CA_2A-4A CA_66C CA_4A-5A CA_66A-66A CA_4A-12A / CA_4A-29A / CA_5A-30A / CA_5A-30A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-30A / CA_29A-66A	CA_5B	CA_2A-66A
CA_66C CA_4A-5A CA_66A-66A CA_4A-12A / CA_4A-29A / CA_4A-71A / CA_5A-30A / CA_5A-66A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-66A	CA_25A-25A	CA_2A-71A
CA_66A-66A CA_4A-12A / CA_4A-29A / CA_4A-71A / CA_5A-30A / CA_5A-66A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-66A	CA_66B	CA_2A-4A
/ CA_4A-29A / CA_4A-71A / CA_5A-30A / CA_5A-66A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-66A	CA_66C	CA_4A-5A
/ CA_4A-71A / CA_5A-30A / CA_5A-66A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-66A	CA_66A-66A	CA_4A-12A
/ CA_5A-30A / CA_5A-66A / CA_12A-30A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-66A	1	CA_4A-29A
/ CA_5A-66A / CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-66A	1	CA_4A-71A
/ CA_12A-30A / CA_12A-66A / CA_29A-30A / CA_29A-66A	1	CA_5A-30A
/ CA_12A-66A / CA_29A-30A / CA_29A-66A	1	CA_5A-66A
/ CA_29A-30A / CA_29A-66A	1	CA_12A-30A
/ CA_29A-66A	1	CA_12A-66A
	1	CA_29A-30A
/ CA_66A-71A	1	CA_29A-66A
	1	CA_66A-71A



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	PCC								S	CC1		Power	
CA Configuration (BCS)	LTE Band	BW (MHz)	Mod.	UL Freq. (MHz)	UL Channel	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
CA_2A-4A	Band 2	20M	QPSK	1880	18900	1	0	Band 4	20M	2132.5	2175	23.18	23.25
CA_2A-5A	Band 2	20M	QPSK	1880	18900	1	0	Band 5	10M	881.5	2525	23.22	23.25
CA_2A-12A	Band 2	20M	QPSK	1880	18900	1	0	Band 12	10M	737.5	5095	23.19	23.25
CA_2A-29A	Band 2	20M	QPSK	1880	18900	1	0	Band 29	10M	722.5	9715	23.06	23.25
CA_2A-66A	Band 2	20M	QPSK	1880	18900	1	0	Band 66	20M	2155	66886	23.11	23.25
CA_2A-66A	Band 2	20M	QPSK	1880	18900	1	0	Band 71	20M	637	68786	23.28	23.25
CA_4A-5A	Band 4	20M	QPSK	1732.5	20175	1	0	Band 5	10M	881.5	2525	23.35	23.37
CA_4A-12A	Band 4	20M	QPSK	1732.5	20175	1	0	Band 12	10M	737.5	5095	23.18	23.37
CA_4A-29A	Band 4	20M	QPSK	1732.5	20175	1	0	Band 29	10M	722.5	9715	23.22	23.37
CA_4A-30A	Band 4	20M	QPSK	1732.5	20175	1	0	Band 71	20M	637	68786	23.29	23.37
CA_5A-30A	Band 5	10M	QPSK	836.5	20525	1	0	Band 30	10M	2355	9820	23.15	23.22
CA_5A-66A	Band 5	10M	QPSK	836.5	20525	1	0	Band 66	20M	2155	66886	23.04	23.22
CA_12A-30A	Band 12	10M	QPSK	707.5	23095	1	0	Band 30	10M	2355	9820	23.15	23.18
CA_12A-66A	Band 12	10M	QPSK	707.5	23095	1	0	Band 66	20M	2155	66886	23.11	23.18
CA_29A-30A	Band 30	10M	QPSK	2310	27710	1	0	Band 29	10M	722.5	9715	23.00	22.99
CA_29A-66A	Band 66	20M	QPSK	1745	132322	1	0	Band 29	10M	722.5	9715	22.85	23.68
CA_66A-71A	Band 66	20M	QPSK	1745	132322	1	0	Band 71	20M	637	68786	23.73	23.84
CA_2C	Band 2	20M	QPSK	1880	18900	1	0	Band 2	20M	1979.8	1098	23.21	23.25
CA_5B	Band 5	10M	QPSK	836.5	20525	1	0	Band 5	5M	881.2	2597	23.19	23.22
CA_66B	Band 66	15M	QPSK	1745	132322	1	0	Band 66	5M	2164.3	66979	23.48	23.66
CA_66C	Band 66	20M	QPSK	1745	132322	1	0	Band 66	20M	2174.8	67084	23.66	23.68
CA_2A-2A	Band 2	20M	QPSK	1880	18900	1	0	Band 2	5M	1987.5	1175	23.22	23.25
CA_4A-4A	Band 4	20M	QPSK	1732.5	20175	1	0	Band 4	5M	2152.5	2375	23.21	23.37
CA_25A-25A	Band 25	20M	QPSK	1880	26340	1	0	Band 25	5M	1992.5	8665	23.15	23.27
CA_66A-66A	Band 66	20M	QPSK	1745	132322	1	0	Band 66	5M	2197.5	67311	23.26	23.68

Note:

The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.



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8.1.5 Conducted Power of WIFI

		WIFI 2.4GH	z Receiver off			
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	1	2412		20.43	21.00	No
802.11b	6	2437	1	20.45	21.00	Yes
	11	2462		20.43	21.00	No
	1	2412		17.85	18.00	No
802.11g	6	2437	6	19.08	19.50	No
	11	2462		19.02	19.50	No
	1	2412		17.27	18.00	No
802.11n HT20	6	2437	6.5	17.56	18.00	No
•	11	2462		15.57	16.00	No
	3	2422		17.11	18.00	No
	4	2427		15.24	16.00	No
802.11n HT40	5	2432	13.5	17.01	18.00	No
	6	2437		17.21	18.00	No
	9	2452		17.06	18.00	No

		WIFI 2.4GHz Rec	eiver on & Hotspot on			
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	1	2412		15.56	16	No
802.11b	6	2437	1	15.63	16	Yes
	11	2462		15.55	16	No
	1	2412		15.06	16	No
802.11g	6	2437	6	15.12	16	No
	11	2462		15.73	16	No
	1	2412		15.14	16	No
802.11n HT20	6	2437	6.5	15.62	16	No
20	11	2462		15.57	16	No
	3	2422		15.08	16	No
	4	2427		15.23	16	No
802.11n HT40	5	2432	13.5	15.06	16	No
	6	2437		15.03	16	No
	9	2452		14.95	16	No



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			WIFI 5GHz Rece	iver off			
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		20.19	21.00	No
	11 800 4	40	5200		20.28	21.00	No
	U-NII-1	44	5220		20.61	21.00	No
		48	5240		20.65	21.00	No
		52	5260		20.62	21.00	Yes
	LLNIILOA	56	5280		20.55	21.00	No
	U-NII-2A	60	5300		20.48	21.00	No
802.11a		64	5320	6	20.84	21.00	Yes
002.11d		100	5500		20.18	21.00	Yes
		116	5580		20.13	21.00	No
	U-NII-2C	124	5620		20.06	21.00	No
		132	5660		20.02	21.00	No
		140	5700		20.44	21.00	Yes
		149	5745		20.76	21.00	No
	U-NII-3	157	5785		20.76	21.00	No
		165	5825		20.81	21.00	Yes
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		19.12	20.50	No
	11.801.4	40	5200		19.05	20.50	No
	U-NII-1	44	5220		19.53	20.50	No
		48	5240		19.82	20.50	No
ľ		52	5260	MCS0	19.71	20.50	No
	U-NII-2A	56	5280		19.62	20.50	No
		60	5300		19.91	20.50	No
000 445 UT00		64	5320		19.93	20.50	No
802.11n-HT20		100	5500		19.29	20.50	No
		116	5580		19.15	20.50	No
	U-NII-2C	124	5620		19.31	20.50	No
		132	5660		19.16	20.50	No
		140	5700		20.03	20.50	No
		149	5745		20.21	20.50	No
	U-NII-3	157	5785		20.06	20.50	No
		165	5825		20.01	20.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	38	5190		18.17	19.50	No
	U-INII- I	46	5230		18.51	19.50	No
[I I NIII OA	54	5270		18.53	19.50	No
	U-NII-2A	62	5310		17.91	19.50	No
802.11n-HT40		102	5510	MCS0	15.95	19.50	No
002.1111 - П140	LI NIII OO	110	5550	IVICOU	17.84	19.50	No
	U-NII-2C	126	5630		17.86	19.50	No
		134	5670		17.95	19.50	No
	U-NII-3	151	5755		19.01	19.50	No
	U-INII-3	159	5795		18.11	19.00	No



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		18.93	20.00	No
	LI NIII 4	40	5200		19.17	20.00	No
	U-NII-1	44	5220		19.51	20.00	No
		48	5240		19.54	20.00	No
		52	5260		19.62	20.00	No
	U-NII-2A	56	5280		19.51	20.00	No
	0-MI-2A	60	5300		19.84	20.00	No
802.11ac-20		64	5320	MCS0	19.92	20.00	No
002.11ac-20		100	5500	IVICSU	18.82	20.00	No
		116	5580		18.74	20.00	No
	U-NII-2C	124	5620	-	18.72	20.00	No
		132	5660	-	18.71	20.00	No
		140	5700	<u> </u> -	19.85	20.00	No
		149	5745	 -	19.71	20.00	No
	U-NII-3	157	5785		19.63	20.00	No
		165	5825		19.67	20.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	38	5190		17.34	19.00	No
		46	5230	1	17.38	19.00	No
	LI NIII OA	54	5270		17.73	19.00	No
	U-NII-2A	62	5310	1	17.93	19.00	No
802.11ac-40		102	5510	MCS0	17.01	18.50	No
602.11ac-40	U-NII-2C	110	5550	WICSU	17.06	19.00	No
	U-NII-2C	126	5630		17.01	19.00	No
		134	5670		17.39	19.00	No
	U-NII-3	151	5755		17.93	19.00	No
	0-1111-3	159	5795		17.91	19.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	42	5210		17.09	18.00	No
	U-NII-2A	58	5290		17.48	18.00	No
802.11ac 80M	U-NII-2C	106	5530	MCS0	17.21	18.00	No
00101	U-INII-2U	122	5610		16.94	18.00	No
	U-NII-3	155	5775		17.56	18.00	No

WIFI 5GHz Receiver on												
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test					
	U-NII-1	36	5180		11.04	12.00	No					
		40	5200	6	11.09	12.00	No					
802.11a		44	5220		11.50	12.00	No					
002.114		48	5240	Ü	11.63	12.00	No					
	U-NII-2A	52	5260		11.53	12.00	No					
	U-MII-2A	56	5280		11.54	12.00	No					



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1		60	5300	1	11.46	12.00	No
,		64	5320	-	11.83	12.00	No
		100	5500	-	11.14	12.00	No
,		116	5580	1	10.93	12.00	No
,	U-NII-2C	124	5620		11.06	12.00	No
,	U-MII-2C			-			
		132	5660	-	10.89	12.00	No
		140	5700	_	11.45	12.00	No
		149	5745		11.52	12.00	No
	U-NII-3	157	5785		11.56	12.00	No
		165	5825		11.61	12.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		10.72	12.00	No
,		40	5200		10.72	12.00	No
,	U-NII-1	44	5220		11.13	12.00	No
,		48	5240		11.54	12.00	No
		52	5260	1	11.31	12.00	No
		56	5280	1	11.22	12.00	No
	U-NII-2A	60	5300	1	11.55	12.00	No
		64	5320	-	11.64	12.00	No
802.11n-HT20		100	5500	MCS0	10.96	12.00	No
		116	5580	-	10.90	12.00	No
	U-NII-2C	124	5620	-	11.07	12.00	No
	0 1111 20	132	5660	-	10.87	12.00	No
,		140	5700	-	11.64	12.00	No
		149	5745	-	11.87	12.00	No
				-			
	U-NII-3	157	5785	1	11.72	12.00	No
		165	5825		11.81	12.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	38	5190		10.95	12.00	No
	U-INII- I	46	5230		11.12	12.00	No
,		54	5270		11.15	12.00	No
	U-NII-2A	62	5310		10.58	12.00	No
<u>.</u>		102	5510		8.69	12.00	No
802.11n-HT40		110	5550	MCS0	10.48	12.00	No
	U-NII-2C	126	5630	1	10.50	12.00	No
		134	5670	1	10.60	12.00	No
		151	5755	-	11.76	12.00	No
	U-NII-3	159	5795		11.31	12.00	No
5GHz	mode	Channel	Frequency(MHz)	Data	Average	Tune up	SAR Test
33.12	111000	Chambi	1 104401103 (1811 12)	Rate(Mbps)	Power (dBm)	rano ap	7.11.1031
		36	5180		10.63	12.00	No
	U-NII-1	40	5200	1	10.88	12.00	No
	0-1411-1	44	5220	1	11.17	12.00	No
				i .	14.00	12.00	No
902 1102 20		48	5240	MCCO	11.33	12.00	INO
802.11ac-20		48 52	5240 5260	MCS0	11.33	12.00	No
802.11ac-20 –				MCS0			
802.11ac-20 –	U-NII-2A	52	5260	MCS0	11.36	12.00	No



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		100	5500	1	10.60	12.00	No
		116	5580	1	10.53	12.00	No
	U-NII-2C	124	5620		10.48	12.00	No
		132	5660		10.31	12.00	No
		140	5700		11.62	12.00	No
		149	5745		11.48	12.00	No
	U-NII-3	157	5785		11.41	12.00	No
		165	5825		11.34	12.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	11 801 4	38	5190		10.54	12.00	No
	U-NII-1	46	5230		11.15	12.00	No
	U-NII-2A	54	5270		11.34	12.00	No
		62	5310		11.59	12.00	No
802.11ac-40	U-NII-2C	102	5510	MCS0	10.14	12.00	No
002.11ac-40		110	5550	WCSU	10.27	12.00	No
		126	5630		10.24	12.00	No
		134	5670		11.01	12.00	No
	U-NII-3	151	5755		11.64	12.00	No
	U-INII-3	159	5795		11.55	12.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	42	5210		11.35	12.00	Yes
	U-NII-2A	58	5290		11.54	12.00	Yes
802.11ac 80M	LL NIII OC	106	5530	MCS0	11.31	12.00	No
OOIVI	U-NII-2C	122	5610		11.41	12.00	Yes
	U-NII-3	155	5775		11.49	12.00	Yes

WIFI 5GHz Hotspot on											
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test				
		36	5180		11.04	12.00	No				
802.11a	U-NII-1	40	5200		11.09	12.00	No				
	U-INII-1	44	5220		11.50	12.00	No				
		48	5240	6	11.63	12.00	No				
	U-NII-3	149	5745		11.52	12.00	No				
		157	5785		11.56	12.00	No				
		165	5825		11.61	12.00	No				
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test				
		36	5180		10.72	12.00	No				
	U-NII-1	40	5200		10.72	12.00	No				
802.11n-HT20	U-INII-1	44	5220	MCS0	11.13	12.00	No				
		48	5240		11.54	12.00	No				
	U-NII-3	149	5745]	11.87	12.00	No				



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1		157	5785		11.72	12.00	No
		165	5825		11.81	12.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	38	5190		10.95	12.00	No
000 44= 11740	U-INII- I	46	5230	MCCO	11.12	12.00	No
802.11n-HT40	U-NII-3	151	5755	MCS0	11.76	12.00	No
	U-IIII-3	159	5795		11.31	12.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		10.63	12.00	No
	U-NII-1	40	5200		10.88	12.00	No
802.11ac-20	OTAIL	44	5220		11.17	12.00	No
		48	5240	MCS0	11.33	12.00	No
	U-NII-3	149	5745		11.48	12.00	No
		157	5785		11.41	12.00	No
		165	5825		11.34	12.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	38	5190		10.54	12.00	No
802.11ac-40	U-INII- I	46	5230	MCS0	11.15	12.00	No
802.11ac-40	U-NII-3	151	5755	IVICSU	11.64	12.00	No
	U-IVII-3	159	5795		11.55	12.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11ac	U-NII-1	42	5210	MCS0	11.35	12.00	Yes
80M	U-NII-3	155	5775	IVICOU	11.49	12.00	Yes

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 DH5 Duty Cycle=76.86%



Е	вт	Aver	Tune up		
Band	Channel	0	39	78	rune up
	GFSK	10.39	10.42	10.46	10.50
ВТ	π/4DQPSK	6.38	6.12	6.37	7.50
	8DPSK	6.35	6.09	6.31	7.50
Band	Channel	0	19	39	Tune up
BLE 1M	GFSK	-5.01	-4.01	-3.98	-1.50
BLE 2M	GFSK	-4.99	-4.15	-4.12	-1.50

Note:

1)The conducted power of BT is measured with RMS detector.



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8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Freq. Band	Frequency (GHz)	Position	Average Power		Test Separation	Calculate	Exclusion	Exclusion
			dBm	mW	(mm)	Value	Threshold	(Y/N)
		Head	20	100	5	31.38	3	N
Wi-Fi 2.4G	2.462	Body-worn	20	100	15	10.46	3	N
		Hotspot	20	100	10	15.69	3	N
	5.835	Head	16	39.81	5	13.23	3	N
Wi-Fi 5G		Body-worn	16	39.81	15	6.41	3	N
		Hotspot	16	39.81	10	9.62	3	N
		Head	9.5	8.91	5	2.81	3	Y
Bluetooth	2.48	Body-worn	9.5	8.91	15	0.94	3	Y
		Hotspot	9.5	8.91	10	1.40	3	Y

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



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8.3 Measurement of SAR Data

Note:

- 1) According to the declaration letter from manufacturer, for the Sample 2 variant test at the worst-case SAR in Head/Body worn and Hotspot.
- 2) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 3) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

WiFi 2.4G:

 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 ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

WiFi 5G:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration.
- For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 3) 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 ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.3.1 SAR Result of GSM 850

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
				Head	Test Data					
Left cheek	GSM	190/836.6	1:8.3	0.168	0.07	32.67	34.00	1.358	0.228	22.3
Left tilted	GSM	190/836.6	1:8.3	0.114	0.02	32.67	34.00	1.358	0.155	22.3
Right cheek	GSM	190/836.6	1:8.3	0.209	0.01	32.67	34.00	1.358	0.284	22.3
Right tilted	GSM	190/836.6	1:8.3	0.119	0.05	32.67	34.00	1.358	0.162	22.3
			Body	worn Test d	lata(Separ	ate 15mm)				
Front side	GSM	190/836.6	1:8.3	0.201	0.01	32.67	34.00	1.358	0.273	22.3
Back side	GSM	190/836.6	1:8.3	0.303	-0.11	32.67	34.00	1.358	0.412	22.3
			Hots	pot Test da	ta(Separa	te 10mm)				
Front side	GPRS 4TS	190/836.6	1:2.075	0.253	-0.04	28.79	29.00	1.050	0.266	22.3
Back side	GPRS 4TS	190/836.6	1:2.075	0.453	-0.09	28.79	29.00	1.050	0.475	22.3
Left side	GPRS 4TS	190/836.6	1:2.075	0.216	-0.02	28.79	29.00	1.050	0.227	22.3
Right side	GPRS 4TS	190/836.6	1:2.075	0.433	-0.19	28.79	29.00	1.050	0.454	22.3
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.178	0.06	28.79	29.00	1.050	0.187	22.3

Table 10: SAR of GSM 850 for Head and Body

8.3.2 SAR Result of GSM 1900

C.O.E. CAR RESult of Com 1900													
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)			
Head Test Data													
Left cheek GSM 661/1880 1:8.3 0.176 0.03 23.81 25.00 1.315 0.231 22.5													
Left tilted	GSM	661/1880	1:8.3	0.203	0.02	23.81	25.00	1.315	0.267	22.5			
Right cheek	GSM	661/1880	1:8.3	0.249	0.04	23.81	25.00	1.315	0.327	22.5			
Right tilted	GSM	661/1880	1:8.3	0.108	0.05	23.81	25.00	1.315	0.142	22.5			
			Body v	worn Test d	ata(Separ	ate 15mm)							
Front side	GSM	661/1880	1:8.3	0.260	0.11	29.50	31.00	1.413	0.367	22.5			
Back side	GSM	661/1880	1:8.3	0.301	-0.18	29.50	31.00	1.413	0.425	22.5			
			Hots	pot Test dat	a(Separat	te 10mm)							
Front side	GPRS 4TS	661/1880	1:2.075	0.486	-0.18	25.37	26.50	1.297	0.630	22.5			
Back side	GPRS 4TS	661/1880	1:2.075	0.733	0.02	25.37	26.50	1.297	0.951	22.5			
Back side	GPRS 4TS	512/1850.2	1:2.075	0.685	-0.11	25.33	26.50	1.309	0.897	22.5			
Back side	GPRS 4TS	810/1909.8	1:2.075	0.670	0.03	25.32	26.50	1.312	0.879	22.5			
Left side	GPRS 4TS	661/1880	1:2.075	0.255	0.09	25.37	26.50	1.297	0.331	22.5			
Top side	GPRS 4TS	661/1880	1:2.075	0.569	0.01	25.37	26.50	1.297	0.738	22.5			

Table 11: SAR of GSM 1900 for Head and Body



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8.3.3 SAR Result of WCDMA Band II

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
				Head Te	est Data						
Left cheek RMC 9400/1880 1:1 0.384 0.03 17.06 18.00 1.242 0.477 22.5											
Left tilted	RMC	9400/1880	1:1	0.392	0.05	17.06	18.00	1.242	0.487	22.5	
Right cheek	RMC	9400/1880	1:1	0.542	-0.15	17.06	18.00	1.242	0.673	22.5	
Right tilted	RMC	9400/1880	1:1	0.341	-0.07	17.06	18.00	1.242	0.423	22.5	
			Body wo	rn Test da	ta(Separate 1	15mm)					
Front side	RMC	9400/1880	1:1	0.363	0.14	23.26	24.00	1.186	0.430	22.5	
Back side	RMC	9400/1880	1:1	0.456	0.08	23.26	24.00	1.186	0.541	22.5	
			Hotspo	t Test data	(Separate 10)mm)					
Front side	RMC	9400/1880	1:1	0.593	0.14	23.26	24.00	1.186	0.703	22.5	
Back side	RMC	9400/1880	1:1	0.968	0.02	23.26	24.00	1.186	1.148	22.5	
Back side-repeat	RMC	9400/1880	1:1	0.954	0.08	23.26	24.00	1.186	1.131	22.5	
Back side	RMC	9262/1852.4	1:1	0.893	0.02	23.22	24.00	1.197	1.069	22.5	
Back side	RMC	9538/1907.6	1:1	0.820	-0.06	23.19	24.00	1.205	0.988	22.5	
Left side	RMC	9400/1880	1:1	0.355	0.02	23.26	24.00	1.186	0.421	22.5	
Top side	RMC	9400/1880	1:1	0.692	-0.10	23.26	24.00	1.186	0.821	22.5	
Top side	RMC	9262/1852.4	1:1	0.630	-0.09	23.22	24.00	1.197	0.754	22.5	
Top side	RMC	9538/1907.6	1:1	0.638	-0.09	23.19	24.00	1.205	0.769	22.5	

Table 12: SAR of WCDMA II for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Back side	9400/1880	0.968	0.954	1.015	N/A	N/A
	•	•			•	

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.4 SAR Result of WCDMA Band IV

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
				He	ad Test Data	a					
Left cheek	Left cheek RMC 1412/1732.4 1:1 0.329 0.04 17.15 18.00 1.216 0.400										
Left tilted	RMC	1412/1732.4	1:1	0.363	-0.05	17.15	18.00	1.216	0.441	22.2	
Right cheek	RMC	1412/1732.4	1:1	0.587	-0.13	17.15	18.00	1.216	0.714	22.2	
Right cheek	RMC	1312/1712.4	1:1	0.547	0.11	17.10	18.00	1.230	0.673	22.2	
Right cheek	RMC	1513/1752.6	1:1	0.617	0.04	17.08	18.00	1.236	0.763	22.2	
Right tilted	RMC	1412/1732.4	1:1	0.400	0.02	17.15	18.00	1.216	0.486	22.2	
			Вс	dy worn Te	st data(Sepa	arate 15mm)					
Front side	RMC	1412/1732.4	1:1	0.339	0.04	22.58	24.00	1.387	0.470	22.2	
Back side	RMC	1412/1732.4	1:1	0.364	-0.07	22.58	24.00	1.387	0.505	22.2	
			H	lotspot Test	data(Separa	ate 10mm)					
Front side	RMC	1412/1732.4	1:1	0.424	0.18	22.58	24.00	1.387	0.588	22.2	
Back side	RMC	1412/1732.4	1:1	0.579	-0.14	22.58	24.00	1.387	0.803	22.2	
Back side	RMC	1312/1712.4	1:1	0.492	-0.01	22.55	24.00	1.396	0.687	22.2	
Back side	RMC	1513/1752.6	1:1	0.685	0.10	22.57	24.00	1.390	0.952	22.2	
Left side	RMC	1412/1732.4	1:1	0.271	0.03	22.58	24.00	1.387	0.376	22.2	
Top side	RMC	1412/1732.4	1:1	0.574	-0.17	22.58	24.00	1.387	0.796	22.2	

Table 13: SAR of WCDAM IV for Head and Body



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8.3.5 SAR Result of WCDMA Band V

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
				Head	Test Data					
Left cheek	RMC	4182/836.4	1:1	0.186	0.15	23.03	24.00	1.250	0.233	22.3
Left tilted	RMC	4182/836.4	1:1	0.113	0.05	23.03	24.00	1.250	0.141	22.3
Right cheek	RMC	4182/836.4	1:1	0.214	0.08	23.03	24.00	1.250	0.268	22.3
Right tilted	RMC	4182/836.4	1:1	0.111	0.13	23.03	24.00	1.250	0.139	22.3
			Body	y worn Test	data(Separ	ate 15mm)				
Front side	RMC	4182/836.4	1:1	0.209	-0.05	23.03	24.00	1.250	0.261	22.3
Back side	RMC	4182/836.4	1:1	0.310	-0.03	23.03	24.00	1.250	0.388	22.3
			Ho	tspot Test da	ata(Separa	te 10mm)				
Front side	RMC	4182/836.4	1:1	0.224	-0.06	23.03	24.00	1.250	0.280	22.3
Back side	RMC	4182/836.4	1:1	0.340	0.01	23.03	24.00	1.250	0.425	22.3
Left side	RMC	4182/836.4	1:1	0.140	-0.03	23.03	24.00	1.250	0.175	22.3
Right side	RMC	4182/836.4	1:1	0.287	-0.10	23.03	24.00	1.250	0.359	22.3
Bottom side	RMC	4182/836.4	1:1	0.131	-0.09	23.03	24.00	1.250	0.164	22.3

Table 14: SAR of WCDAM IV for Head and Body



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8.3.6 SAR Result of LTE Band 12

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (℃)
				Head	l Test Data	a(1RB)					
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.046	0.09	23.18	25.00	1.521	0.070	22.4
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.041	0.01	23.18	25.00	1.521	0.062	22.4
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.130	-0.06	23.18	25.00	1.521	0.198	22.4
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.088	-0.09	23.18	25.00	1.521	0.134	22.4
				Head 7	Γest Data(50%RB)					
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.037	0.04	22.37	24.00	1.455	0.054	22.4
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.048	0.05	22.37	24.00	1.455	0.070	22.4
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.107	0.09	22.37	24.00	1.455	0.156	22.4
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.073	-0.06	22.37	24.00	1.455	0.106	22.4
			Body v	vorn Test	data(Sepa	arate 15mm	1RB)				
Front side	10	QPSK 1_0	23095/707.5	1:1	0.123	0.03	23.18	25.00	1.521	0.187	22.4
Back side	10	QPSK 1_0	23095/707.5	1:1	0.169	0.05	23.18	25.00	1.521	0.257	22.4
			Body wo	orn Test o	lata(Separ	ate 15mm 5	50%RB)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.104	0.03	22.37	24.00	1.455	0.151	22.4
Back side	10	QPSK 25_0	23095/707.5	1:1	0.141	0.14	22.37	24.00	1.455	0.205	22.4
			Hotsp	oot Test d	lata(Separ	ate 10mm 1	IRB)				
Front side	10	QPSK 1_0	23095/707.5	1:1	0.106	0.05	23.18	25.00	1.521	0.161	22.4
Back side	10	QPSK 1_0	23095/707.5	1:1	0.173	-0.02	23.18	25.00	1.521	0.263	22.4
Left side	10	QPSK 1_0	23095/707.5	1:1	0.120	0.03	23.18	25.00	1.521	0.182	22.4
Rightt side	10	QPSK 1_0	23095/707.5	1:1	0.091	0.04	23.18	25.00	1.521	0.138	22.4
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.032	-0.08	23.18	25.00	1.521	0.049	22.4
			Hotspo	t Test da	ta(Separat	e 10mm 50	%RB)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.090	0.04	22.37	24.00	1.455	0.131	22.4
Back side	10	QPSK 25_0	23095/707.5	1:1	0.164	0.05	22.37	24.00	1.455	0.239	22.4
Left side	10	QPSK 25_0	23095/707.5	1:1	0.093	0.03	22.37	24.00	1.455	0.135	22.4
Rightt side	10	QPSK 25_0	23095/707.5	1:1	0.073	-0.08	22.37	24.00	1.455	0.106	22.4
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.027	0.03	22.37	24.00	1.455	0.040	22.4

Table 15: SAR of LTE band 12 for Head and Body.



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8.3.7 SAR Result of LTE Band 25

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp. (℃)
				Head	Test Data	(1RB)					
Left cheek	20	QPSK 1_0	26365/1882.5	1:1	0.384	0.03	17.53	19.00	1.403	0.539	22.5
Left tilted	20	QPSK 1_0	26365/1882.5	1:1	0.456	0.01	17.53	19.00	1.403	0.640	22.5
Right cheek	20	QPSK 1_0	26365/1882.5	1:1	0.560	0.08	17.53	19.00	1.403	0.786	22.5
Right cheek	20	QPSK 1_0	26140/1860	1:1	0.597	-0.09	17.42	19.00	1.439	0.859	22.5
Right cheek	20	QPSK 1_0	26590/1905	1:1	0.508	0.13	17.46	19.00	1.426	0.724	22.5
Right tilted	20	QPSK 1_0	26365/1882.5	1:1	0.373	0.04	17.53	19.00	1.403	0.523	22.5
				Head T	est Data(5	0%RB)					
Left cheek	20	QPSK 50_0	26365/1882.5	1:1	0.417	0.08	17.46	19.00	1.426	0.594	22.5
Left tilted	20	QPSK 50_0	26365/1882.5	1:1	0.486	0.07	17.46	19.00	1.426	0.693	22.5
Right cheek	20	QPSK 50_0	26365/1882.5	1:1	0.598	0.06	17.46	19.00	1.426	0.853	22.5
Right cheek	20	QPSK 50_0	26140/1860	1:1	0.618	0.01	17.31	19.00	1.476	0.912	22.5
Right cheek	20	QPSK 50_0	26590/1905	1:1	0.522	-0.17	17.25	19.00	1.496	0.781	22.5
Right tilted	20	QPSK 50_0	26365/1882.5	1:1	0.440	0.04	17.46	19.00	1.426	0.627	22.5
				Head Te	est Data(1	00%RB)					
Right cheek	20	QPSK 100_0	26365/1882.5	1:1	0.562	0.03	17.32	19.00	1.472	0.827	22.5
			Body w	orn Test	data(Sepa	arate 15mi	m 1RB)				
Front side	20	QPSK 1_0	26365/1882.5	1:1	0.157	0.02	23.27	25.00	1.489	0.234	22.5
Back side	20	QPSK 1_0	26365/1882.5	1:1	0.281	-0.01	23.27	25.00	1.489	0.419	22.5
			Body wo	rn Test d	ata(Separa	ate 15mm	50%RB)				
Front side	20	QPSK 50_0	26365/1882.5	1:1	0.141	0.07	22.56	24.00	1.393	0.196	22.5
Back side	20	QPSK 50_0	26365/1882.5	1:1	0.216	-0.04	22.56	24.00	1.393	0.301	22.5
			Hotsp	ot Test da	ata(Separa	ate 10mm	1RB)				
Front side	20	QPSK 1_0	26365/1882.5	1:1	0.368	-0.04	23.27	25.00	1.489	0.548	22.5
Back side	20	QPSK 1_0	26365/1882.5	1:1	0.631	-0.14	23.27	25.00	1.489	0.940	22.5
Back side	20	QPSK 1_0	26140/1860	1:1	0.575	-0.08	23.27	25.00	1.489	0.856	22.5
Back side	20	QPSK 1_0	26590/1905	1:1	0.636	-0.08	23.27	25.00	1.489	0.947	22.5
Left side	20	QPSK 1_0	26365/1882.5	1:1	0.128	-0.09	23.27	25.00	1.489	0.191	22.5
Top side	20	QPSK 1_0	26365/1882.5	1:1	0.342	0.02	23.27	25.00	1.489	0.509	22.5
			Hotspot	Test dat	a(Separat	e 10mm 5	0%RB)				
Front side	20	QPSK 50_0	26365/1882.5	1:1	0.306	0.01	22.56	24.00	1.393	0.426	22.5
Back side	20	QPSK 50_0	26365/1882.5	1:1	0.476	0.05	22.56	24.00	1.393	0.663	22.5
Left side	20	QPSK 50_0	26365/1882.5	1:1	0.117	0.02	22.56	24.00	1.393	0.163	22.5
Top side	20	QPSK 50_0	26365/1882.5	1:1	0.326	0.02	22.56	24.00	1.393	0.454	22.5
			Hotspot	Test data	(Separate	10mm 10	00%RB)				
Back side	20	QPSK 100_0	26365/1882.5	1:1	0.536	-0.16	22.56	24.00	1.393	0.747	22.5

Table 16: SAR of LTE Band 25 for Head and Body.



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8.3.8 SAR Result of LTE Band 26

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (℃)
				Head	d Test Dat	a(1RB)					
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.119	0.04	23.23	25.00	1.503	0.179	22.3
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.068	0.02	23.23	25.00	1.503	0.103	22.3
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.234	-0.09	23.23	25.00	1.503	0.352	22.3
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.164	0.02	23.23	25.00	1.503	0.247	22.3
				Head	Test Data	(50%RB)					
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.102	0.02	22.38	24.00	1.452	0.148	22.3
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.060	0.06	22.38	24.00	1.452	0.087	22.3
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.185	0.05	22.38	24.00	1.452	0.269	22.3
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.132	0.02	22.38	24.00	1.452	0.192	22.3
			Body	worn Tes	t data(Sep	arate 15n	nm 1RB)				
Front side	15	QPSK 1_0	26865/831.5	1:1	0.141	0.01	23.23	25.00	1.503	0.212	22.3
Back side	15	QPSK 1_0	26865/831.5	1:1	0.209	0.14	23.23	25.00	1.503	0.314	22.3
			Body w	orn Test	data(Sepa	rate 15mn	n 50%RB)				
Front side	15	QPSK 36_0	26865/831.5	1:1	0.112	0.02	22.38	24.00	1.452	0.163	22.3
Back side	15	QPSK 36_0	26865/831.5	1:1	0.185	0.03	22.38	24.00	1.452	0.269	22.3
			Hots	pot Test o	data(Sepa	rate 10mn	n 1RB)				
Front side	15	QPSK 1_0	26865/831.5	1:1	0.129	0.05	23.23	25.00	1.503	0.194	22.3
Back side	15	QPSK 1_0	26865/831.5	1:1	0.242	-0.09	23.23	25.00	1.503	0.364	22.3
Left side	15	QPSK 1_0	26865/831.5	1:1	0.216	0.06	23.23	25.00	1.503	0.325	22.3
Rightt side	15	QPSK 1_0	26865/831.5	1:1	0.142	0.01	23.23	25.00	1.503	0.213	22.3
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.093	0.03	23.23	25.00	1.503	0.139	22.3
			Hotspo	ot Test da	ita(Separa	te 10mm	50%RB)				
Front side	15	QPSK 36_0	26865/831.5	1:1	0.105	-0.07	22.38	24.00	1.452	0.152	22.3
Back side	15	QPSK 36_0	26865/831.5	1:1	0.212	0.03	22.38	24.00	1.452	0.308	22.3
Left side	15	QPSK 36_0	26865/831.5	1:1	0.177	0.04	22.38	24.00	1.452	0.257	22.3
Rightt side	15	QPSK 36_0	26865/831.5	1:1	0.114	0.07	22.38	24.00	1.452	0.166	22.3
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.080	-0.09	22.38	24.00	1.452	0.116	22.3

Table 17: SAR of LTE Band 26 for Head and Body.



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8.3.9 SAR Result of LTE Band 30

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (℃)
				Head Te	est Data(1	RB)					
Left cheek	10	QPSK 1_0	27710/2310	1:1	0.072	0.09	22.99	24.00	1.262	0.091	22.3
Left tilted	10	QPSK 1_0	27710/2310	1:1	0.071	0.07	22.99	24.00	1.262	0.089	22.3
Right cheek	10	QPSK 1_0	27710/2310	1:1	0.121	0.01	22.99	24.00	1.262	0.153	22.3
Right tilted	10	QPSK 1_0	27710/2310	1:1	0.137	-0.01	22.99	24.00	1.262	0.173	22.3
			ŀ	Head Tes	t Data(50	%RB)					
Left cheek	10	QPSK 25_0	27710/2310	1:1	0.054	0.06	22.03	23.00	1.250	0.067	22.3
Left tilted	10	QPSK 25_0	27710/2310	1:1	0.062	0.04	22.03	23.00	1.250	0.078	22.3
Right cheek	10	QPSK 25_0	27710/2310	1:1	0.126	0.06	22.03	23.00	1.250	0.158	22.3
Right tilted	10	QPSK 25_0	27710/2310	1:1	0.119	0.11	22.03	23.00	1.250	0.149	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	27710/2310	1:1	0.221	0.05	22.99	24.00	1.262	0.279	22.3
Back side	10	QPSK 1_0	27710/2310	1:1	0.233	-0.07	22.99	24.00	1.262	0.294	22.3
			Body worn	Test data	a(Separate	e 15mm 50	0%RB)				
Front side	10	QPSK 25_0	27710/2310	1:1	0.187	0.08	22.03	23.00	1.250	0.234	22.3
Back side	10	QPSK 25_0	27710/2310	1:1	0.188	0.09	22.03	23.00	1.250	0.235	22.3
			Hotspot	Test data	a(Separate	10mm 1F	RB)				
Front side	10	QPSK 1_0	27710/2310	1:1	0.316	0.02	22.99	24.00	1.262	0.399	22.3
Back side	10	QPSK 1_0	27710/2310	1:1	0.419	-0.01	22.99	24.00	1.262	0.529	22.3
Left side	10	QPSK 1_0	27710/2310	1:1	0.015	0.08	22.99	24.00	1.262	0.019	22.3
Rightt side	10	QPSK 1_0	27710/2310	1:1	0.019	-0.07	22.99	24.00	1.262	0.024	22.3
Bottom side	10	QPSK 1_0	27710/2310	1:1	0.793	0.08	22.99	24.00	1.262	1.001	22.3
			Hotspot T	est data(Separate 1	10mm 50%	6RB)				
Front side	10	QPSK 25_0	27710/2310	1:1	0.267	0.04	22.03	23.00	1.250	0.334	22.3
Back side	10	QPSK 25_0	27710/2310	1:1	0.347	0.12	22.03	23.00	1.250	0.434	22.3
Left side	10	QPSK 25_0	27710/2310	1:1	0.179	0.06	22.03	23.00	1.250	0.224	22.3
Rightt side	10	QPSK 25_0	27710/2310	1:1	0.072	0.02	22.03	23.00	1.250	0.090	22.3
Bottom side	10	QPSK 25_0	27710/2310	1:1	0.659	0.09	22.03	23.00	1.250	0.824	22.3
			Hotspot Te	est data(S	Separate 1	0mm 100	%RB)				
Bottom side	10	QPSK 50_0	27710/2310	1:1	0.683	0.03	21.99	23.00	1.262	0.862	22.3

Table 18: SAR of LTE Band 30 for Head and Body.



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8.3.10SAR Result of LTE Band 66

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (℃)
				Head Tes	st Data(1R	B)			l.		
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.352	0.02	18.45	19.00	1.135	0.400	22.2
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.422	0.07	18.45	19.00	1.135	0.479	22.2
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.765	-0.05	18.45	19.00	1.135	0.868	22.2
Right cheek	20	QPSK 1_0	132072/1720	1:1	0.703	0.03	18.32	19.00	1.169	0.822	22.2
Right cheek	20	QPSK 1_0	132572/1770	1:1	0.788	0.06	18.36	19.00	1.159	0.913	22.2
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.390	0.06	18.45	19.00	1.135	0.443	22.2
		•	Н	ead Test	Data(50%	RB)	•		•		
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.368	-0.08	18.37	19.00	1.156	0.425	22.2
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.449	0.01	18.37	19.00	1.156	0.519	22.2
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.761	0.02	18.37	19.00	1.156	0.880	22.2
Right cheek	20	QPSK 50_0	132072/1720	1:1	0.723	0.16	18.35	19.00	1.161	0.840	22.2
Right cheek	20	QPSK 50_0	132572/1770	1:1	0.823	-0.09	18.31	19.00	1.172	0.965	22.2
Right cheek-repeat	20	QPSK 50_0	132572/1770	1:1	0.806	0.03	18.31	19.00	1.172	0.945	22.2
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.433	-0.04	18.37	19.00	1.156	0.501	22.2
		•	He	ead Test	Data(100%	6RB)	•				
Right cheek	20	QPSK 100_0	132322/1745	1:1	0.736	0.04	18.30	19.00	1.175	0.865	22.2
			Body worn	Test dat	a(Separate	e 15mm 1	RB)				
Front side	20	QPSK 1_0	132322/1745	1:1	0.367	0.15	23.68	24.50	1.208	0.443	22.2
Back side	20	QPSK 1_0	132322/1745	1:1	0.405	0.04	23.68	24.50	1.208	0.489	22.2
			Body worn 7	Test data(Separate	15mm 50%	%RB)				
Front side	20	QPSK 50_0	132322/1745	1:1	0.323	0.11	22.93	23.50	1.140	0.368	22.2
Back side	20	QPSK 50_0	132322/1745	1:1	0.346	0.08	22.93	23.50	1.140	0.395	22.2
			Hotspot T	est data(Separate	10mm 1RI	3)				
Front side	20	QPSK 1_0	132322/1745	1:1	0.460	0.04	23.68	24.50	1.208	0.556	22.2
Back side	20	QPSK 1_0	132322/1745	1:1	0.967	-0.05	23.68	24.50	1.208	1.168	22.2
Back side	20	QPSK 1_0	132072/1720	1:1	0.829	0.06	23.68	24.50	1.208	1.001	22.2
Back side	20	QPSK 1_0	132572/1770	1:1	0.975	0.05	23.68	24.50	1.208	1.178	22.2
Left side	20	QPSK 1_0	132322/1745	1:1	0.314	0.05	23.68	24.50	1.208	0.379	22.2
Top side	20	QPSK 1_0	132322/1745	1:1	0.436	0.17	23.68	24.50	1.208	0.527	22.2
			Hotspot Te	st data(S	eparate 10	0mm 50%l	RB)				
Front side	20	QPSK 50_0	132322/1745	1:1	0.394	0.01	22.93	23.50	1.140	0.449	22.2
Back side	20	QPSK 50_0	132322/1745	1:1	0.832	0.12	22.93	23.50	1.140	0.949	22.2
Back side	20	QPSK 50_0	132072/1720	1:1	0.728	0.11	22.93	23.50	1.140	0.830	22.2
Back side	20	QPSK 50_0	132572/1770	1:1	0.802	0.10	22.93	23.50	1.140	0.914	22.2
Left side	20	QPSK 50_0	132322/1745	1:1	0.266	0.01	22.93	23.50	1.140	0.303	22.2
Top side	20	QPSK 50_0	132322/1745	1:1	0.376	0.02	22.93	23.50	1.140	0.429	22.2
			Hotspot Tes	st data(Se	eparate 10	mm 100%	RB)				
Back side	20	QPSK 100_0	132322/1745	1:1	0.795	0.01	22.93	23.50	1.140	0.906	22.2

Table 19: SAR of LTE Band 14 for Head and Body.



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Test Position	Channel/ Frequency	Measured SAR (1g)	Ratio		2 nd Repeated	3 rd Repeated
	(MHz)	J (1 3)	SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	132572/1770	0.823	0.806	1.021	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

- 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was \ge 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.11SAR Result of LTE Band 71

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (℃)
				Head	d Test Dat	a(1RB)					
Left cheek	20	QPSK 1_0	133322/682	1:1	0.068	0.06	23.84	25.00	1.306	0.088	22.4
Left tilted	20	QPSK 1_0	133322/682	1:1	0.044	0.02	23.84	25.00	1.306	0.058	22.4
Right cheek	20	QPSK 1_0	133322/682	1:1	0.060	-0.11	23.84	25.00	1.306	0.079	22.4
Right tilted	20	QPSK 1_0	133322/682	1:1	0.037	0.04	23.84	25.00	1.306	0.048	22.4
				Head ¹	Test Data	(50%RB)					
Left cheek	20	QPSK 50_0	133322/682	1:1	0.051	0.03	22.78	24.00	1.324	0.068	22.4
Left tilted	20	QPSK 50_0	133322/682	1:1	0.033	0.07	22.78	24.00	1.324	0.044	22.4
Right cheek	20	QPSK 50_0	133322/682	1:1	0.052	0.09	22.78	24.00	1.324	0.068	22.4
Right tilted	20	QPSK 50_0	133322/682	1:1	0.032	0.07	22.78	24.00	1.324	0.042	22.4
			Body	worn Tes	t data(Sep	arate 15n	nm 1RB)				
Front side	20	QPSK 1_0	133322/682	1:1	0.082	0.02	23.84	25.00	1.306	0.107	22.4
Back side	20	QPSK 1_0	133322/682	1:1	0.153	0.05	23.84	25.00	1.306	0.200	22.4
			Body w	orn Test	data(Sepa	rate 15mn	n 50%RB)				
Front side	20	QPSK 50_0	133322/682	1:1	0.066	0.04	22.78	24.00	1.324	0.088	22.4
Back side	20	QPSK 50_0	133322/682	1:1	0.114	0.03	22.78	24.00	1.324	0.151	22.4
			Hots	pot Test o	data(Sepa	rate 10mn	n 1RB)				
Front side	20	QPSK 1_0	133322/682	1:1	0.084	-0.11	23.84	25.00	1.306	0.109	22.4
Back side	20	QPSK 1_0	133322/682	1:1	0.175	0.18	23.84	25.00	1.306	0.229	22.4
Left side	20	QPSK 1_0	133322/682	1:1	0.094	0.09	23.84	25.00	1.306	0.123	22.4
Rightt side	20	QPSK 1_0	133322/682	1:1	0.111	0.07	23.84	25.00	1.306	0.145	22.4
Bottom side	20	QPSK 1_0	133322/682	1:1	0.025	0.03	23.84	25.00	1.306	0.033	22.4
			Hotspo	ot Test da	ıta(Separa	ite 10mm	50%RB)				
Front side	20	QPSK 50_0	133322/682	1:1	0.064	0.06	22.78	24.00	1.324	0.084	22.4
Back side	20	QPSK 50_0	133322/682	1:1	0.147	0.05	22.78	24.00	1.324	0.195	22.4
Left side	20	QPSK 50_0	133322/682	1:1	0.076	-0.04	22.78	24.00	1.324	0.101	22.4
Rightt side	20	QPSK 50_0	133322/682	1:1	0.094	0.12	22.78	24.00	1.324	0.124	22.4
Bottom side	20	QPSK 50_0	133322/682	1:1	0.021	0.01	22.78	24.00	1.324	0.028	22.4

Table 20: SAR of LTE Band 71 for Head and Body.



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8.3.12 SAR Result of WIFI 2.4G

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head	d Test data	a				
Left cheek	802.11b	6/2437	99.64%	1.004	0.315	0.10	15.63	16.00	1.089	0.344	22.4
Left tilted	802.11b	6/2437	99.64%	1.004	0.250	-0.03	15.63	16.00	1.089	0.273	22.4
Right cheek	802.11b	6/2437	99.64%	1.004	0.240	0.01	15.63	16.00	1.089	0.262	22.4
Right tilted	802.11b	6/2437	99.64%	1.004	0.233	0.06	15.63	16.00	1.089	0.255	22.4
				Body v	worn Test	data(Sepa	arate 15mm)				
Front side	802.11b	6/2437	99.64%	1.004	0.052	0.14	20.45	21.00	1.135	0.059	22.4
Back side	802.11b	6/2437	99.64%	1.004	0.218	0.03	20.45	21.00	1.135	0.248	22.4
				Hotsp	oot Test da	ata (Sepai	rate 10mm)				
Front side	802.11b	6/2437	99.64%	1.004	0.092	0.05	20.45	21.00	1.135	0.105	22.4
Back side	802.11b	6/2437	99.64%	1.004	0.330	0.03	20.45	21.00	1.135	0.376	22.4
Right side	802.11b	6/2437	99.64%	1.004	0.051	0.04	20.45	21.00	1.135	0.058	22.4
Top side	802.11b	6/2437	99.64%	1.004	0.190	0.05	20.45	21.00	1.135	0.216	22.4

Table 21: SAR of WIFI 2.4G for Head and Body. Note:

1) As the 802.11b highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11b,therefore the adjusted SAR is \leq 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required.



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8.3.13SAR Result of WIFI 5G

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (℃)
					est data c	f U-NII-2A	\				
Left cheek	802.11ac 80M	58/5290	86.49%	1.156	0.501	0.15	11.54	12.00	1.112	0.644	22.1
Left tilted	802.11ac 80M	58/5290	86.49%	1.156	0.500	0.09	11.54	12.00	1.112	0.643	22.1
Right cheek	802.11ac 80M	58/5290	86.49%	1.156	0.367	0.12	11.54	12.00	1.112	0.472	22.1
Right tilted	802.11ac 80M	58/5290	86.49%	1.156	0.346	0.05	11.54	12.00	1.112	0.445	22.1
				Head T	est data c	f U-NII-2C	;				
Left cheek	802.11ac 80M	122/5610	86.49%	1.156	0.560	0.02	11.41	12.00	1.146	0.742	22.3
Left tilted	802.11ac 80M	122/5610	86.49%	1.156	0.471	-0.14	11.41	12.00	1.146	0.624	22.3
Right cheek	802.11ac 80M	122/5610	86.49%	1.156	0.406	-0.11	11.41	12.00	1.146	0.538	22.3
Right tilted	802.11ac 80M	122/5610	86.49%	1.156	0.424	0.08	11.41	12.00	1.146	0.562	22.3
				Head ⁻	Test data	of U-NII-3					
Left cheek	802.11ac 80M	155/5775	86.49%	1.156	0.417	0.08	11.49	12.00	1.125	0.542	22.4
Left tilted	802.11ac 80M	155/5775	86.49%	1.156	0.314	0.14	11.49	12.00	1.125	0.408	22.4
Right cheek	802.11ac 80M	155/5775	86.49%	1.156	0.333	0.15	11.49	12.00	1.125	0.433	22.4
Right tilted	802.11ac 80M	155/5775	86.49%	1.156	0.393	0.02	11.49	12.00	1.125	0.511	22.4
			Body wo	rn Test da	ta of U-NI	I-2A (Sepa	arate 15mm)				
Front side	802.11a	64/5320	96.53%	1.036	0.390	0.14	20.84	21.00	1.038	0.419	22.1
Back side	802.11a	64/5320	96.53%	1.036	0.772	0.01	20.84	21.00	1.038	0.830	22.1
Back side	802.11a	52/5260	96.53%	1.036	0.477	0.02	20.62	21.00	1.091	0.539	22.3
			Body wo	rn Test da	ta of U-NI	I-2C(Sepa	rate 15mm)				
Front side	802.11a	140/5700	96.53%	1.036	0.389	0.11	20.44	21.00	1.138	0.458	22.3
Back side	802.11a	140/5700	96.53%	1.036	0.738	0.05	20.44	21.00	1.138	0.870	22.3
Back side	802.11a	100/5500	96.53%	1.036	0.298	0.04	20.18	21.00	1.208	0.373	22.3
			Body w	orn Test d	ata of U-N	II-3(Separ	rate 15mm)				
Front side	802.11a	165/5825	96.53%	1.036	0.388	-0.16	20.81	21.00	1.045	0.420	22.4
Back side	802.11a	165/5825	96.53%	1.036	0.709	0.01	20.81	21.00	1.045	0.767	22.4
Back side	802.11a	149/5745	96.53%	1.036	0.319	0.09	20.76	21.00	1.057	0.349	22.4
			Hotsp	ot Test dat	a of U-NII	-1(Separa	te 10mm)				
Front side	802.11ac 80M	42/5210	86.49%	1.156	0.086	0.01	11.35	12.00	1.161	0.116	22.1
Back side	802.11ac 80M	42/5210	86.49%	1.156	0.170	0.01	11.35	12.00	1.161	0.228	22.1
Right side	802.11ac 80M	42/5210	86.49%	1.156	0.019	0.14	11.35	12.00	1.161	0.026	22.1
Top side	802.11ac 80M	42/5210	86.49%	1.156	0.164	0.02	11.35	12.00	1.161	0.220	22.1
			Hotspo	ot Test dat	a of U-NII	-3 (Separa	ite 10mm)				
Front side	802.11ac 80M	155/5775	86.49%	1.156	0.119	0.12	11.49	12.00	1.125	0.155	22.4
Back side	802.11ac 80M	155/5775	86.49%	1.156	0.208	0.02	11.49	12.00	1.125	0.270	22.4
Right side	802.11ac 80M	155/5775	86.49%	1.156	0.057	0.14	11.49	12.00	1.125	0.074	22.4
Top side	802.11ac 80M	155/5775	86.49%	1.156	0.178	0.02	11.49	12.00	1.125	0.231	22.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp. (°C)
		Prod	duct specifi	c 10gSAR	Test data	of U-NII-2	2A(Separate 0m	nm)			
Front side	802.11a	64/5320	96.53%	1.036	0.433	0.12	20.84	21.00	1.038	0.465	22.1
Back side	802.11a	64/5320	96.53%	1.036	1.100	-0.01	20.84	21.00	1.038	1.182	22.1
Right side	802.11a	64/5320	96.53%	1.036	0.069	0.03	20.84	21.00	1.038	0.074	22.1
Top side	802.11a	64/5320	96.53%	1.036	0.693	-0.08	20.84	21.00	1.038	0.745	22.1
	· <u> </u>	Prod	duct specifi	c 10gSAR	Test data	of U-NII-2	C(Separate 0n	nm)			-



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Front side	802.11a	140/5700	96.53%	1.036	0.470	-0.17	20.44	21.00	1.138	0.554	22.3
Back side	802.11a	140/5700	96.53%	1.036	1.250	0.08	20.44	21.00	1.138	1.473	22.3
Right side	802.11a	140/5700	96.53%	1.036	0.161	0.03	20.44	21.00	1.138	0.190	22.3
Top side	802.11a	140/5700	96.53%	1.036	1.210	0.07	20.44	21.00	1.138	1.426	22.3

Table 22: SAR of WIFI 5G for Head and Body. Note:

1) As the 802.11a highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11a,therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg, SAR test for the other 802.11 modes are also not required.



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8.3.14 SAR Result of BT

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				H	lead Test	data					
Left cheek	DH5	78/2480	76.86%	1.301	0.042	0.02	10.46	10.50	1.009	0.055	22.4
Left tilted	DH5	78/2480	76.86%	1.301	0.040	-0.05	10.46	10.50	1.009	0.053	22.4
Right cheek	DH5	78/2480	76.86%	1.301	0.032	0.01	10.46	10.50	1.009	0.041	22.4
Right tilted	DH5	78/2480	76.86%	1.301	0.037	0.09	10.46	10.50	1.009	0.048	22.4
			Во	dy worn T	est data(S	eparate 1	5mm)				
Front side	DH5	78/2480	76.86%	1.301	0.006	0.06	10.46	10.50	1.009	0.007	22.4
Back side	DH5	78/2480	76.86%	1.301	0.016	0.04	10.46	10.50	1.009	0.022	22.4
			H	lotspot Tes	st data (Se	parate 10	mm)				
Front side	DH5	78/2480	76.86%	1.301	0.010	0.01	10.46	10.50	1.009	0.013	22.4
Back side	DH5	78/2480	76.86%	1.301	0.041	-0.03	10.46	10.50	1.009	0.054	22.4
Right side	DH5	78/2480	76.86%	1.301	0.020	0.04	10.46	10.50	1.009	0.026	22.4
Top side	DH5	78/2480	76.86%	1.301	0.028	0.03	10.46	10.50	1.009	0.036	22.4

Table 23: SAR of BT for Head and Body



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

NO	Simultaneous TX Combination	Head	Body- worn	Hotspot
1	WWAN+BT	Υ	Υ	Υ
2	WWAN+WIFI 2.4G	Υ	Υ	Υ
3	WWAN+WIFI 5G	Υ	Υ	Υ
4	WIFI 5G+BT	Υ	Υ	Υ
5	WWAN+WIFI 5G+BT	Y	Υ	Y

Note:

- 1) The device does not support DTM function.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.



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8.4.2 Simultaneous Transmission SAR Summation Scenario Simultaneous Transmission SAR Summation Scenario for WLAN Head:

			SARmax				
Test p	osition	Main	WiFi 2.4G	WiFi 5G	ВТ	Summ	ed SAR
·		1	2	3	4	1+2	1+3+4
	Left cheek	0.228	0.344	0.742	0.055	0.572	1.025
0011.050	Left tilted	0.155	0.273	0.643	0.053	0.428	0.851
GSM 850	Right cheek	0.284	0.262	0.538	0.041	0.546	0.863
	Right tilted	0.162	0.255	0.562	0.048	0.417	0.772
	Left cheek	0.231	0.344	0.742	0.055	0.575	1.028
0014 4000	Left tilted	0.267	0.273	0.643	0.053	0.540	0.963
GSM 1900	Right cheek	0.327	0.262	0.538	0.041	0.589	0.906
	Right tilted	0.142	0.255	0.562	0.048	0.397	0.752
	Left cheek	0.477	0.344	0.742	0.055	0.821	1.274
WCDMA II	Left tilted	0.487	0.273	0.643	0.053	0.760	1.183
WCDIVIA II	Right cheek	0.673	0.262	0.538	0.041	0.935	1.252
	Right tilted	0.423	0.255	0.562	0.048	0.678	1.033
	Left cheek	0.400	0.344	0.742	0.055	0.744	1.197
WCDMA IV	Left tilted	0.441	0.273	0.643	0.053	0.714	1.137
VVCDIVIA IV	Right cheek	0.763	0.262	0.538	0.041	1.025	1.342
	Right tilted	0.000	0.255	0.562	0.048	0.255	0.610
	Left cheek	0.233	0.344	0.742	0.055	0.577	1.030
WCDMA V	Left tilted	0.141	0.273	0.643	0.053	0.414	0.837
VVCDIVIA V	Right cheek	0.268	0.262	0.538	0.041	0.530	0.847
	Right tilted	0.139	0.255	0.562	0.048	0.394	0.749
	Left cheek	0.070	0.344	0.742	0.055	0.414	0.867
LTE Band 12	Left tilted	0.070	0.273	0.643	0.053	0.343	0.766
LTL Balla 12	Right cheek	0.198	0.262	0.538	0.041	0.460	0.777
	Right tilted	0.134	0.255	0.562	0.048	0.389	0.744
	Left cheek	0.594	0.344	0.742	0.055	0.938	1.391
LTE Band 25	Left tilted	0.693	0.273	0.643	0.053	0.966	1.389
LTE Band 25	Right cheek	0.912	0.262	0.538	0.041	1.174	1.491
	Right tilted	0.627	0.255	0.562	0.048	0.882	1.237
	Left cheek	0.179	0.344	0.742	0.055	0.523	0.976
LTE Band 26	Left tilted	0.103	0.273	0.643	0.053	0.376	0.799
	Right cheek	0.352	0.262	0.538	0.041	0.614	0.931
	Right tilted	0.247	0.255	0.562	0.048	0.502	0.857
	Left cheek	0.091	0.344	0.742	0.055	0.435	0.888
LTE Band 30	Left tilted	0.089	0.273	0.643	0.053	0.362	0.785
	Right cheek	0.158	0.262	0.538	0.041	0.420	0.737
	Right tilted	0.173	0.255	0.562	0.048	0.428	0.783
	Left cheek	0.425	0.344	0.742	0.055	0.769	1.222
LTE Band 66	Left tilted	0.519	0.273	0.643	0.053	0.792	1.215
	Right cheek	0.965	0.262	0.538	0.041	1.227	1.544
	Right tilted	0.501	0.255	0.562	0.048	0.756	1.111
	Left cheek	0.088	0.344	0.742	0.055	0.432	0.885
LTE Band 71	Left tilted	0.058	0.273	0.643	0.053	0.331	0.754
	Right cheek	0.079	0.262	0.538	0.041	0.341	0.658
	Right tilted	0.048	0.255	0.562	0.048	0.303	0.658



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Simultaneous Transmission SAR Summation Scenario for WLAN Body-worn:

			SARmax	(W/kg)		C	-4 CAD
Test p	osition	Main	WiFi 2.4G	WiFi 5G	BT	Summ	ed SAR
		1	2	5	8	1+2	1+3+4
GSM 850	Front side	0.273	0.059	0.458	0.007	0.332	0.738
G2IVI 650	Back side	0.412	0.248	0.870	0.022	0.660	1.304
GSM 1900	Front side	0.367	0.059	0.458	0.007	0.426	0.832
GSW 1900	Back side	0.425	0.248	0.870	0.022	0.673	1.317
WCDMA II	Front side	0.430	0.059	0.458	0.007	0.489	0.895
WCDIVIA II	Back side	0.541	0.248	0.870	0.022	0.789	1.433
WCDMA IV	Front side	0.470	0.059	0.458	0.007	0.529	0.935
VVCDIVIA IV	Back side	0.505	0.248	0.870	0.022	0.753	1.397
WCDMA V	Front side	0.261	0.059	0.458	0.007	0.320	0.726
WCDIVIA V	Back side	0.388	0.248	0.870	0.022	0.636	1.280
LTE Band 12	Front side	0.187	0.059	0.458	0.007	0.246	0.652
LIE Band 12	Back side	0.257	0.248	0.870	0.022	0.505	1.149
LTE Band 25	Front side	0.234	0.059	0.458	0.007	0.293	0.699
LTE Band 25	Back side	0.419	0.248	0.870	0.022	0.667	1.311
LTE Band 26	Front side	0.212	0.059	0.458	0.007	0.271	0.677
LIE Band 20	Back side	0.314	0.248	0.870	0.022	0.562	1.206
LTE Band 30	Front side	0.279	0.059	0.458	0.007	0.338	0.744
LTE Ballu 30	Back side	0.294	0.248	0.870	0.022	0.542	1.186
LTE Bond 66	Front side	0.443	0.059	0.458	0.007	0.502	0.908
LTE Band 66	Back side	0.489	0.248	0.870	0.022	0.737	1.381
LTE Band 71	Front side	0.107	0.059	0.458	0.007	0.166	0.572
LIE Danu /1	Back side	0.200	0.248	0.870	0.022	0.448	1.092



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Simultaneous Transmission SAR Summation Scenario for WLAN Hotspot:

			i on Scenario for SARmax				
Test p	oosition	Main	WiFi 2.4G	WiFi 5G	BT	Summ	ed SAR
·		1	2	5	8	1+2	1+3+4
	Front side	0.266	0.105	0.155	0.013	0.371	0.434
	Back side	0.475	0.376	0.270	0.054	0.851	0.799
0014.050	Left side	0.227	0.000	0.000	0.000	0.227	0.227
GSM 850	Right side	0.454	0.058	0.190	0.026	0.512	0.670
	Top side	0.187	0.216	0.231	0.036	0.403	0.454
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.630	0.105	0.155	0.013	0.735	0.798
	Back side	0.951	0.376	0.270	0.054	1.327	1.275
0014 4000	Left side	0.331	0.000	0.000	0.000	0.331	0.331
GSM 1900	Right side	0.000	0.058	0.190	0.026	0.058	0.216
	Top side	0.738	0.216	0.231	0.036	0.954	1.005
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.703	0.105	0.155	0.013	0.808	0.871
	Back side	1.148	0.376	0.270	0.054	1.524	1.472
WODAA !!	Left side	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA II	Right side	0.000	0.058	0.190	0.026	0.058	0.216
	Top side	0.000	0.216	0.231	0.036	0.216	0.267
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.588	0.105	0.155	0.013	0.693	0.756
	Back side	0.952	0.376	0.270	0.054	1.328	1.276
WCDMA IV	Left side	0.376	0.000	0.000	0.000	0.376	0.376
	Right side	0.000	0.058	0.190	0.026	0.058	0.216
	Top side	0.796	0.216	0.231	0.036	1.012	1.063
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.280	0.105	0.155	0.013	0.385	0.448
	Back side	0.425	0.376	0.270	0.054	0.801	0.749
	Left side	0.175	0.000	0.000	0.000	0.175	0.175
WCDMA V	Right side	0.359	0.058	0.190	0.026	0.417	0.575
	Top side	0.000	0.216	0.231	0.036	0.216	0.267
	Bottom side	0.164	0.000	0.000	0.000	0.164	0.164
	Front side	0.161	0.105	0.155	0.013	0.266	0.329
	Back side	0.263	0.376	0.270	0.054	0.639	0.587
	Left side	0.182	0.000	0.000	0.000	0.182	0.182
LTE Band 12	Right side	0.138	0.058	0.190	0.026	0.196	0.354
	Top side	0.000	0.216	0.231	0.036	0.216	0.267
	Bottom side	0.049	0.000	0.000	0.000	0.049	0.049
	Front side	0.548	0.105	0.155	0.013	0.653	0.716
	Back side	0.940	0.376	0.270	0.054	1.316	1.264
LTER :	Left side	0.191	0.000	0.000	0.000	0.191	0.191
LTE Band 25	Right side	0.000	0.058	0.190	0.026	0.058	0.216
	Top side	0.509	0.216	0.231	0.036	0.725	0.776
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.194	0.105	0.155	0.013	0.299	0.362
	Back side	0.364	0.376	0.270	0.054	0.740	0.688
LTE Band 26	Left side	0.325	0.000	0.000	0.000	0.325	0.325
	Right side	0.213	0.058	0.190	0.026	0.271	0.429
	Top side	0.000	0.216	0.231	0.036	0.216	0.267



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	Bottom side	0.139	0.000	0.000	0.000	0.139	0.139
	Front side	0.399	0.105	0.155	0.013	0.504	0.567
	Back side	0.529	0.376	0.270	0.054	0.905	0.853
LTE Daniel 20	Left side	0.224	0.000	0.000	0.000	0.224	0.224
LTE Band 30	Right side	0.090	0.058	0.190	0.026	0.148	0.306
	Top side	0.000	0.216	0.231	0.036	0.216	0.267
	Bottom side	1.001	0.000	0.000	0.000	1.001	1.001
	Front side	0.556	0.105	0.155	0.013	0.661	0.724
	Back side	1.178	0.376	0.270	0.054	1.554	1.502
LTE Band 66	Left side	0.379	0.000	0.000	0.000	0.379	0.379
LIE Ballu 00	Right side	0.000	0.058	0.190	0.026	0.058	0.216
	Top side	0.527	0.216	0.231	0.036	0.743	0.794
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.109	0.105	0.155	0.013	0.214	0.277
	Back side	0.229	0.376	0.270	0.054	0.605	0.553
LTE Band 71	Left side	0.123	0.000	0.000	0.000	0.123	0.123
LIE Danu / I	Right side	0.145	0.058	0.190	0.026	0.203	0.361
	Top side	0.000	0.216	0.231	0.036	0.216	0.267
	Bottom side	0.033	0.000	0.000	0.000	0.033	0.033



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9 Equipment list

Test Platform	SPEAG DASY5 Professional
Description	SAR Test System (Frequency range 300MHz-6GHz)
Software Reference	DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Hardware Reference

Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
\boxtimes	Twin Phantom	SPEAG	SAM2	1563	NCR	NCR
\boxtimes	DAE	SPEAG	DAE4	1455	2021-12-29	2022-12-28
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3982	2021-12-29	2022-12-28
\boxtimes	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07
\boxtimes	Validation Kits	SPEAG	D835V2	4d256	2020-04-15	2023-04-14
\boxtimes	Validation Kits	SPEAG	D1750V2	1105	2020-08-29	2023-08-28
\boxtimes	Validation Kits	SPEAG	D1900V2	5d114	2020-08-27	2023-08-26
\boxtimes	Validation Kits	SPEAG	D2300V2	1072	2019-05-21	2022-05-20
\boxtimes	Validation Kits	SPEAG	D2450V2	1038	2020-04-08	2023-04-07
\boxtimes	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24
\boxtimes	Dielectric parameter probes	SPEAG	DAKS-3.5	0005	2021-07-15	2022-07-14
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0140913	2021-07-22	2022-07-21
\boxtimes	Universal Radio Communication Tester	R&S	CMW500	111637	2021-09-29	2022-09-28
\boxtimes	Universal Radio Communication Tester	Anritsu	MT8821C	62062257918	2021-12-04	2022-12-03
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
\boxtimes	Signal Generator	R&S	SMB100A	100379	2021-12-04	2022-12-03
\boxtimes	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
\boxtimes	Power Meter	Anritsu	ML2495A	2136003	2021-12-04	2022-12-03
\boxtimes	Power Sensor	Anritsu	MA2411B	1911376	2021-12-04	2022-12-03
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
\boxtimes	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
\boxtimes	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
\boxtimes	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2021-10-09	2022-10-08
\boxtimes	Humidity and	MingGao	MingGao	NA	2022-06-15	2023-06-14



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Attention: To check the authenticity of testing fungeration report & certificate, please contact us at technology.

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Temperature Indicator			
-			

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



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs



