

Report No.: SEWM2208000146RG01

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### FCC SAR TEST REPORT

Application No.: SEWM2208000146RG01

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

Product Name: Smart Phone

Model No.(EUT): SL004T
Brand Name: koobee

FCC ID: 2A28USL004T

Standards: FCC 47CFR §2.1093

**Date of Receipt:** 2022-08-22

**Date of Test**: 2022-08-22 to 2022-09-06

Date of Issue: 2022-09-16
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.

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### **REVISION HISTORY**

Report Number	Revision	Description	Issue Date
SEWM2208000146RG01	01	Original	2022-09-16



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#### **TEST SUMMARY**

Eroguanov Bond	Maxim	um Reported SAR(W	//kg)		
Frequency Band	Head	Body-worn	Hotspot		
GSM850	0.38	0.36	0.56		
GSM1900	0.66	0.48	0.80		
WCDMA Band II	0.74	0.98	0.98		
WCDMA Band IV	0.74	0.78	0.78		
WCDMA Band V	0.37	0.40	0.46		
LTE Band 12	0.23	0.35	0.41		
LTE Band 25&LTE Band 2	0.91	1.18	1.18		
LTE Band 26&LTE Band 5	0.42	0.47	0.63		
LTE Band 41	0.37	0.58	0.96		
LTE Band 66&LTE Band 4	0.79	0.80	0.88		
LTE Band 71	0.21	0.42	0.40		
WI-FI (2.4GHz)	0.70	0.33	0.37		
ВТ	<0.10	0.14	0.18		
SAR Limited(W/kg)		1.6			
Max	imum Simultaneous Transm	ission SAR (W/kg)			
Scenario	Head	Body-worn	Hotspot		
Sum SAR	1.42	1.51	1.56		
SPLSR	N/A	N/A	N/A		
SPLSR Limited	0.04				

#### Note:

- 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

Well Wei

**Prepared by** 

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:	Scola Zou, Leon Xu			



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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

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

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Test Firm Registration Number: 717327



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### 1.4 General Description of EUT

Device Type:	portable device					
Exposure Category:	uncontrolled environment / general population					
Product Name:	Smart Phone					
Model No.(EUT):	SL004T					
Trade Mark:	koobee					
FCC ID:	2A28USL004T					
Product Phase:	Identical Prototype					
IMEI:	354795200005756;35479	95200007091				
Hardware Version:	1.0					
Software Version:	SL004TT10004					
Antenna Type:	Integrated					
Device Operating Configuration	is:					
Modulation Mode:	GSM: GMSK, 8PSK; WC LTE: QPSK,16QAM,64Q	<b>DMA:</b> QPSK, HSPA+(16QAM); AM GFSK, π/4DQPSK,8DPSK				
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	<del>-</del>	•			
<u> </u>	4,tested with power level	5(GSM850)				
	1,tested with power level	0(GSM1900)				
Power Class:		3, tested with power control "all up"(WCDMA Bands)				
		rol Max Power(LTE FDD Band)				
	2, tested with power cont	rol Max Power(LTE TDD 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			
Frequency Bands:	LTE Band 5	824 - 849	869 - 894			
	LTE Band 12	699 - 716	729 - 746			
	LTE band 25	1850 - 1915	1930 - 1995			
	LTE Band 26	814 - 849	859 - 894			
	LTE Band 41	2496 - 2690	2496 - 2690			
	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			
RF Cable:	⊠ Provide	ed by the aplicant	laboratory			
	Model:	BL-A41CT				
D-#	Normal Voltage:	3.8V				
Battery Information:	Rated capacity:	2450mAh				
	rated dapacity.	Shenzhen Aerospace Electronic Co.,Ltd.				



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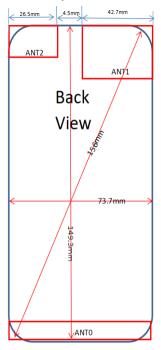
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#### 1.4.1 DUT Antenna Locations(Back View)



Antenna	Support Band
Ant 0	TX & PRX: LTE B5/26/12/41/71 WCDMA B5 GSM 850/900  DRX: LTE B2/B4/25/66 WCDMA B2/4
Ant 1	TX & PRX: LTE B2/B4/25/66 WCDMA B2/4 GSM1800/1900 DRX: LTE B5/26/12/71/41 WCDMA B5
Ant 2	WiFi 2.4G/BT/GPS

#### Note:

1) The test device is a smart phone. The overall diagonal dimension of this device is 156 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 Front Back Left Right Top Bot						Bottom
WWAN Ant0	Hotspot	Yes	Yes	Yes	Yes	No	Yes
WWAN Ant1	Hotspot	Yes	Yes	Yes	No	Yes	No
WiFi2.GHz/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

- 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.
- 2) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance (Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).

The detailed power reduction information can be referred to "8.1 Measurement of RF conducted Power".

Main antenna(Ant0) Power Level(dBm)						
Power Reduction Scenario	GSM1900   WCDMAIL   WCDMAIV   LTE B2/B25   LTE B4/B66					
Receiver off	31.00	24.50	24.50	25.50	25.00	
Receiver on	28.00	19.50	19.50	20.50	20.00	

Main antenna(Ant0) Power Level(dBm)						
Power Reduction Scenario	GSM1900 WCDMA II WCDMA IV LTE B2/B25 LTE B4/B66					
Sensor off	26.00	24.50	24.50	25.50	25.00	
Sensor on	24.00	20.50	21.50	21.50	22.00	

WiFi antenna Power Level(dBm)					
Power Reduction Scenario Receiver Off Receiver On					
	802.11b	21.00	17.00		
WiFi 2.4G	802.11g	18.50	17.00		
VVIF1 2.4G	802.11n 20M	18.50	17.00		
	802.11n 40M	14.50	14.50		

WiFi antenna Power Level(dBm)			
	Power Reduction Scenario	Sensor Off	Sensor On
WiFi 2.4G	802.11b	21.00	16.00
	802.11g	18.50	16.00
	802.11n 20M	18.50	16.00
	802.11n 40M	14.50	14.50



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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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<sup>\*</sup> 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

<sup>\*\*</sup> The Spatial Average value of the SAR averaged over the whole body.

<sup>\*\*\*</sup> 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 i	·

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=  $\sigma$  (|Ei|2)/  $\rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-Simulate.

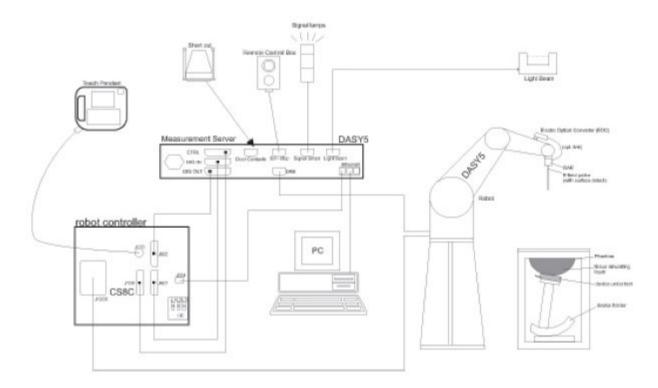
The DASY5 system for performing compliance tests consists of the following items:

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 <u>calibration service</u> available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 $\mu$ W/g to > 100 mW/g Linearity: $\pm$ 0.2 dB (noise: typically < 1 $\mu$ 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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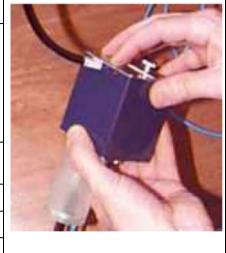


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### 3.3 Data Acquisition Electronics (DAE)

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)
<b>Liquid</b> 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  $\varepsilon$ =3 and loss tangent  $\delta$ =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			30° ± 1°	20° ± 1°
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	$3 - 4 \text{ GHz:} \le 12 \text{ mm}$ $4 - 6 \text{ GHz:} \le 10 \text{ mm}$
Maximum area scan spatial resolution: Δx <sub>Area</sub> , Δy <sub>Area</sub>			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	$3 - 4 \text{ GHz}$ : $\leq 5 \text{ mm}^{\circ}$ $4 - 6 \text{ GHz}$ : $\leq 4 \text{ mm}^{\circ}$
uniform grid		grid: $\Delta z_{Z_{\infty m}}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz <sub>Zoom</sub> (1): between 1 <sup>st</sup> 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 <sub>Zoom</sub> (n>1): between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

#### **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

ConvFi - Conversion factor - Diode compression point Dcpi

Device parameters: - Frequency - Crest factor

Media parameters: - Conductivity - Density

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.

3

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 DCtransmission 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:

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

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:

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

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

Normi = sensor sensitivity of channel I (i = x, y, z)

[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.

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

with SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

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

ε= equivalent tissue density in g/cm3

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

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

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

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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### 4 SAR measurement variability and uncertainty

### 4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq$  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  $\ge 1.45$  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

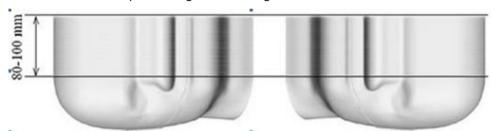
### 5.1 Head Exposure Condition

### 5.1.1 SAM Phantom Shape

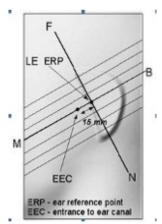


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

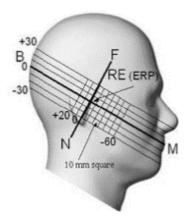
Note: The centre strip including the nose region has a different thickness tolerance.



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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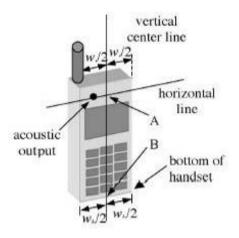
sgs.china@sgs.com

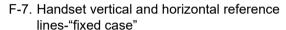


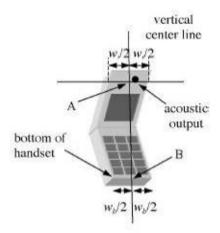
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#### 5.1.2 EUT constructions







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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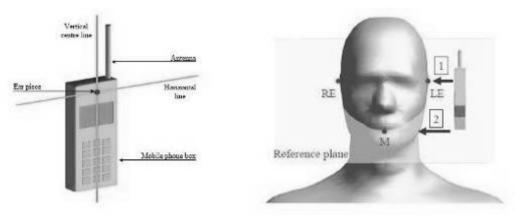
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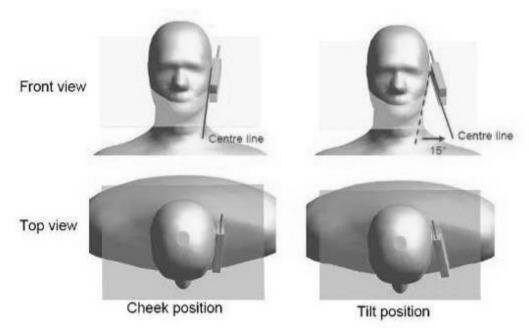
#### 5.1.4 Definition of the "tilted" position

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**

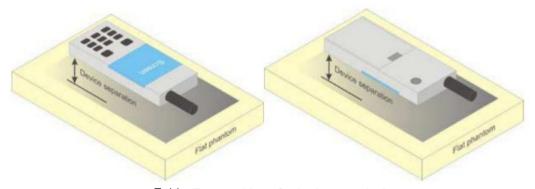
#### 5.2.1 Body-worn accessory exposure conditions

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.

#### 5.2.3 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".

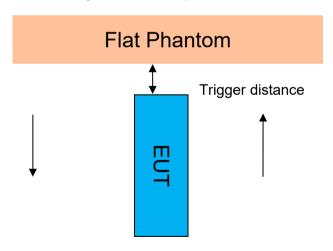
The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at  $\leq$  25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 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 overall diagonal dimension of this device is 15.6 cm, the device is not marketed as "Phablet".

### 5.3 Proximity Sensor Triggering Test

#### Proximity sensor triggering distances:

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



Proximity Sensor Triggering Distance(mm)							
Antenna	Ant 1						
Position	Front	Front Back Left Top					



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Minimum	13	25	17	23
Required SAR Test	12	24	16	22
Antenna		Ant	2	
	_			
Position	Front	Back	Right	Тор
Position Minimum	Front 14	Back 20	Right 15	Top 17

#### Note:

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



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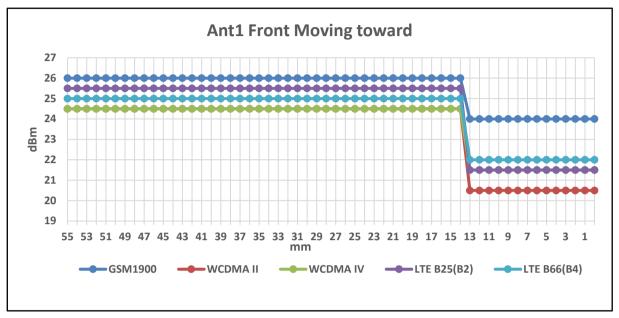


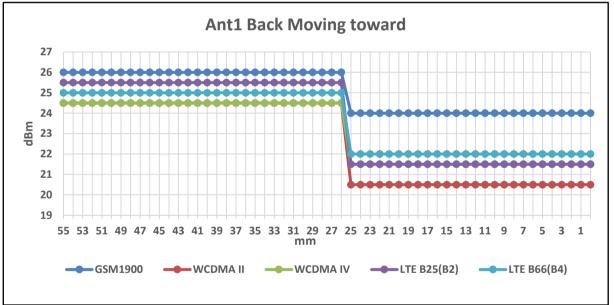
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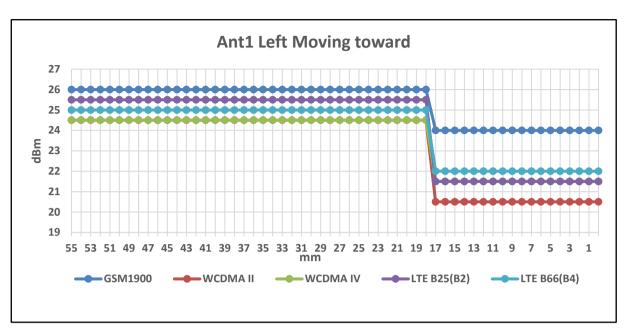
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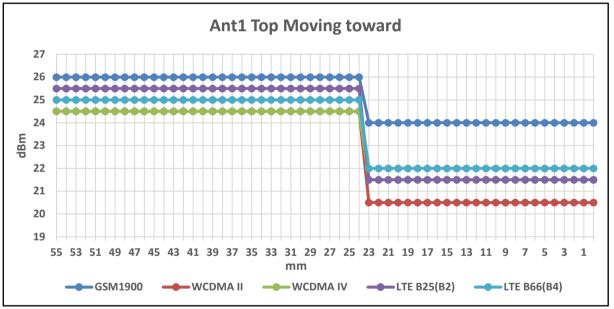
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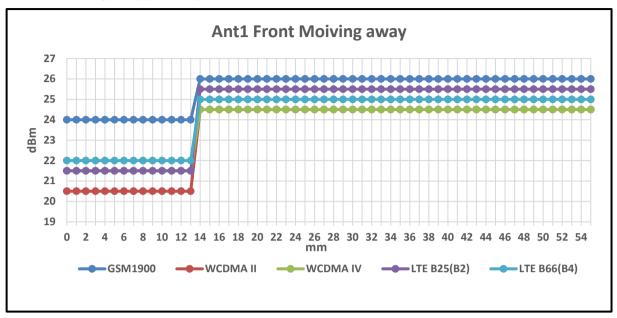
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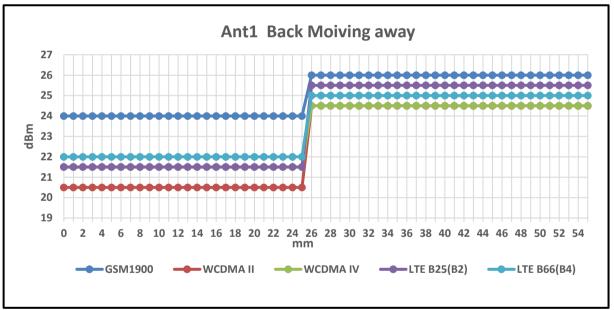


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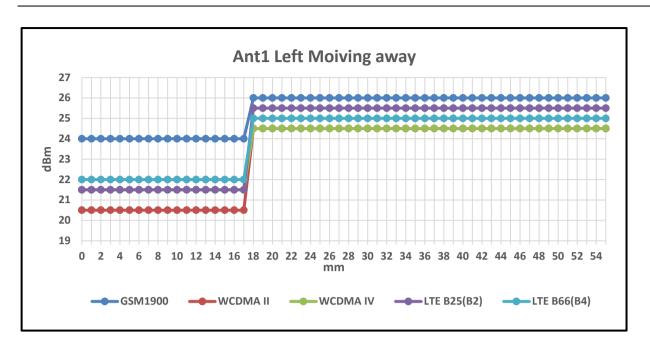
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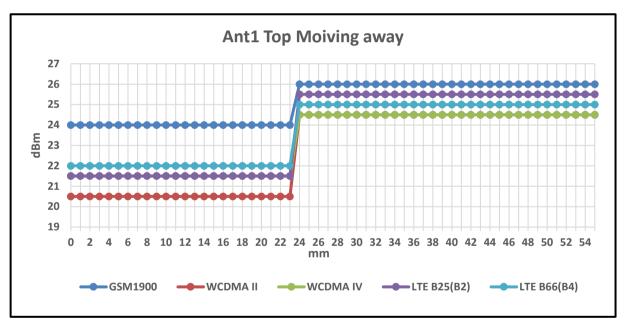
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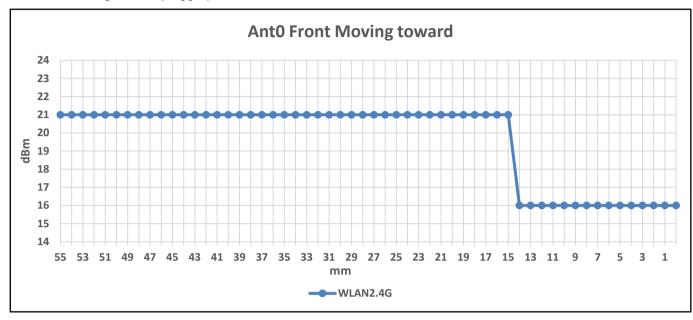


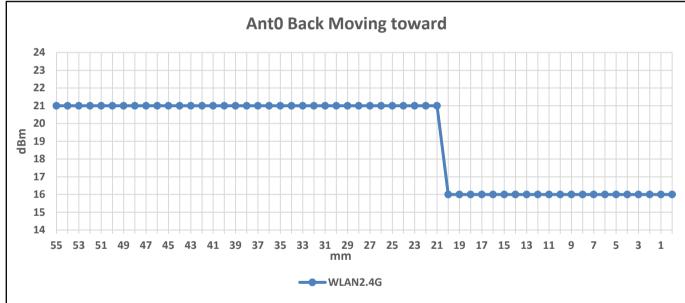
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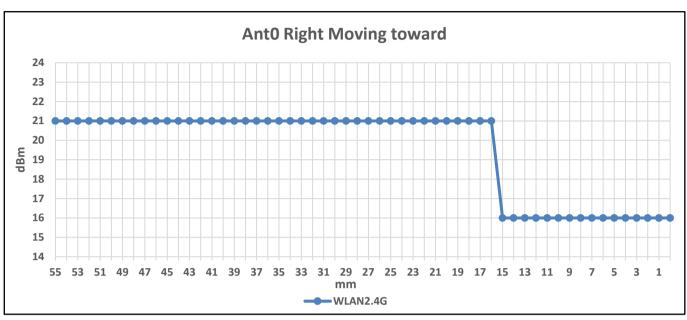
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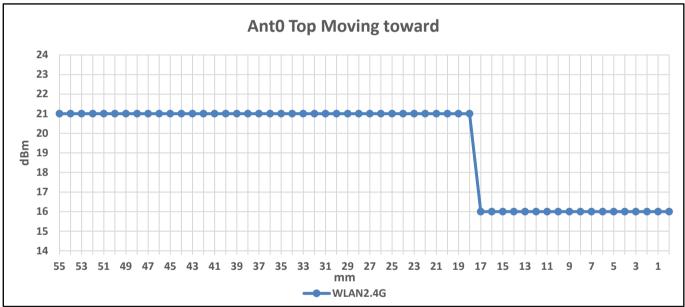
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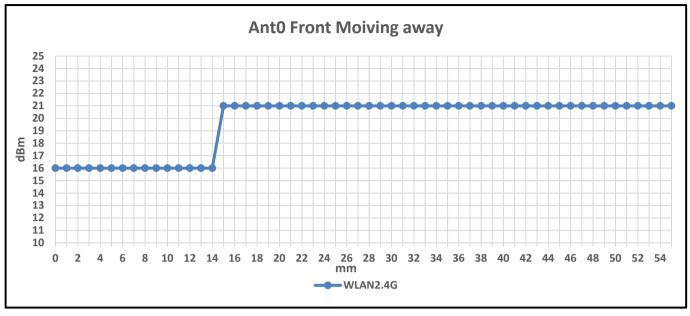
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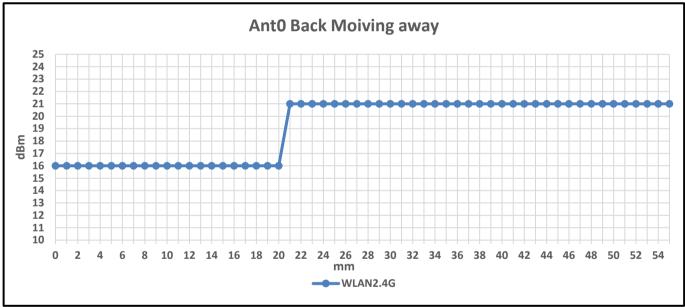


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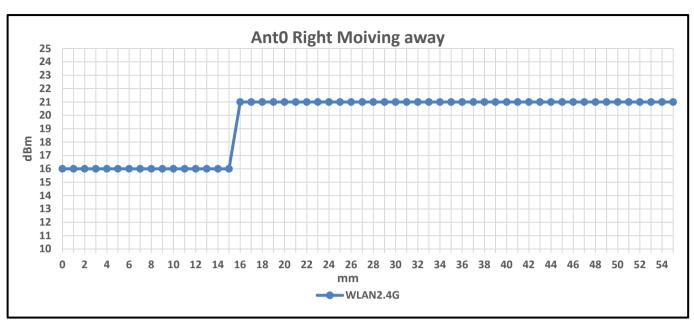
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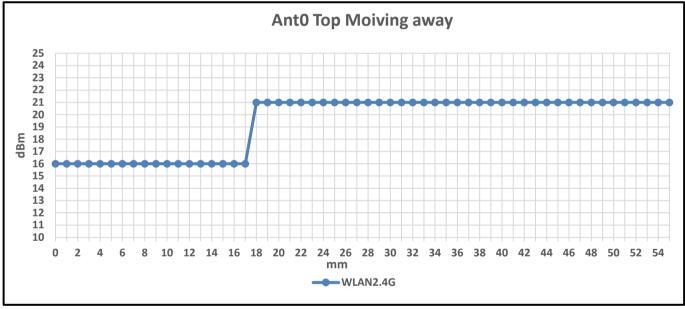
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### **Proximity sensor coverage**

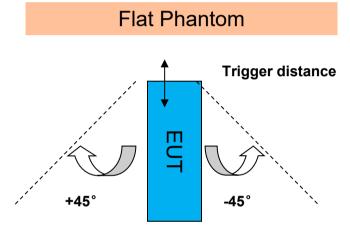
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing,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

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

#### Device tilt angle influences to proximity sensor triggering

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

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



	Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side												
Band (MHZ)	Minimum trigger distance Per	Minimum trigger distance at which				Po	wer Red	duction	Status				
	KDB616217§6.2	power reduction was maintained over ±45°	-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant0/2	Right/Bottom side:16mm	Right/Bottom side:16mm	on	on	on	on	on	on	on	on	on	on	on
Ant3/4/5/6/8	Left/Top side:6mm	Left/Bottom side:6mm	on	on	on	on	on	on	on	on	on	on	on



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Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

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## 6 SAR System Verification Procedure

### 6.1 Tissue Simulate Liquid

### 6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients			Frequency (MHz)		
(% by weight)	450	700-900	1750-2000	2300-2500	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%

Table 3: Recipe of Tissue Simulate Liquid



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### 6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity ( $\sigma$ ) and Permittivity ( $\rho$ ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tioner Terro	Measured Frequency	Target Tis	Target Tissue (±5%)		d Tissue	Liquid Temp.	Test Date
Tissue Type	(MHz)	ε <sub>r</sub>	σ(S/m)	ε <sub>r</sub>	σ(S/m)	(℃)	rest Date
750 Head	750	41.9 (39.81~44)	0.89 (0.85~0.94)	41.049	0.874	22.5	2022-08-25
835 Head	835	41.5 (39.43~43.58)	0.90 (0.86~0.95)	41.606	0.894	21.5	2022-08-22
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	40.304	1.305	22.3	2022-09-01
1900 Head	1900	40.0 (38.00~42.00)	1.40 (1.33~1.47)	40.118	1.404	22.5	2022-09-06
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.858	1.843	21.8	2022-08-29
2600 Head	2600	39.0 (37.05~40.95)	1.96 (1.86~2.06)	37.282	2.043	22.1	2022-09-02

Table 4: Measurement result of Tissue electric parameters



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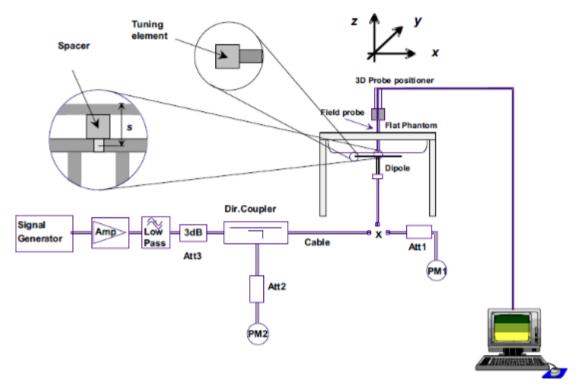


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### 6.2 SAR System Check

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  $5\Omega$  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)

Validatio			SAR 250mW SAR		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
			10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	` ,			
D750V3	Head	1.95	1.27	7.80	5.08	8.48 (7.63~9.33)	5.56 (5.00~6.12)	22.5	2022-08-25		
D835V2	Head	2.26	1.47	9.04	5.88	9.52 (8.57~10.47)	6.17 (5.55~6.79)	21.5	2022-08-22		
D1750V2	Head	9.50	5.04	38.00	20.16	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.3	2022-09-01		
D1900V2	Head	9.57	5.20	38.28	20.80	39.7 (35.73~43.67)	20.3 (18.27~22.33)	22.5	2022-09-06		
D2450V2	Head	12.20	5.68	48.80	22.72	52.2 (46.98~57.42)	24.5 (22.05~26.95)	21.8	2022-08-29		
D2600V2	Head	13.20	5.91	52.80	23.64	57.1 (51.12~62.48)	25.4 (22.41~27.39)	22.1	2022-09-02		

Table 5: 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  $\leq 1.2$  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

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.



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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 body-worn 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( $\beta$ c,  $\beta$ d), and HS-DPCCH power offset parameters ( $\Delta$ ACK,  $\Delta$ NACK,  $\Delta$ 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 =  $\beta$ hs/ $\beta$ c=30/15  $\beta$ hs=30/15\* $\beta$ 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  $\beta$ hs=30/15\* $\beta$ c,and  $\triangle$ CQI=

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

Note3: 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.

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



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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 6: 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 7: 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€	β <sub>d</sub> (SF ) <sub>e</sub>	β₀∕β⋴ℴ	β <sub>hs</sub> (1	βec⁴³	$eta_{ ext{ed}} arphi$	β <sub>e</sub> <sub>o+</sub> (SF	β <sub>ed</sub> ↔ (code	CM( 2)+ (dB )-	MP R↓ (dB)↓	AG <sup>(4</sup> )↔ Inde x↔	E- TFC I	4
1₽	11/15(3)+3	15/15(3)	64₽	11/15(3)+3	22/15₽	209/22 5 <sub>4</sub> 3	1039/225	<b>4</b> 0	1₽	1.0₽	0.0₽	20₽	75₽	4
20	6/15₽	15/15₽	64₽	6/15₽	12/15₽	12/15₽	94/75₽	4₽	1₽	3.0₽	2.0₽	12 <sub>0</sub>	67₽	-
3₽	15/150	9/154	64₽	15/94	30/15₽	30/15₽	β <sub>ad1</sub> :47/1 5 <sub>4</sub> β <sub>ed2:</sub> 47/1 5 <sub>4</sub>	4₽	2₽	2.0₽	1.0₽	150	92₽	4
4₽	2/15₽	15/15∉	64₽	2/15∉	4/15₽	2/150	56/75₽	4₽	1₽	3.0₄	2.0₽	17₽	71₽	4
5₽	15/15(4)43	15/15(4)	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4€	1₽	1.0∉	0.0₽	210	81₽	4

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

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

Note 3 : For subtest 1 the  $\beta_c/\beta_d$  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  $\beta_c/\beta_d$  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. Φ

Table 8: 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 9: 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 10: 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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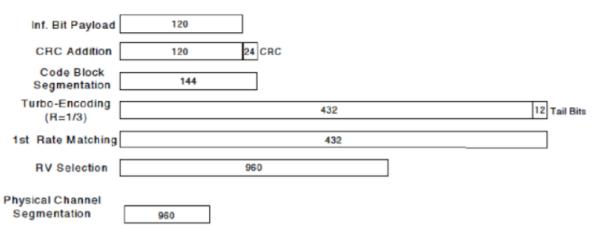


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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 <sub>d</sub> ·(SF)₽	$\beta_c \cdot / \beta_{d^{c}}$	β <sub>hs</sub> (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  $\beta_c/\beta_d$  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 <sub>c</sub> ₊∣	βd⁴	βнs⊬	β <sub>ec</sub> ₊	β <sub>ed</sub> ₊	β <sub>ed</sub> ₊	CM₽	MPR√	AG√	E-TFCI	E-TFCI	÷
	test₽	(Note3)₽		(Note1)₽	₽	(2xSF2) ↔		(dB) <i>⊷</i>	1/		(Note 5)	(boost)₽	ı
						(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:  $\Delta ACK$ ,  $\Delta NACK$  and  $\Delta COL = 30/15$  with  $\beta_{hs} = 30/15 * \beta_{c}$ .

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<sub>o</sub> is set to 1 and β<sub>d</sub> = 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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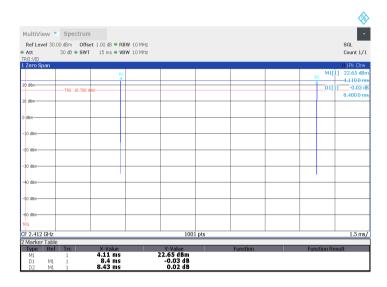
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### 7.2.3 WiFi Test Configuration

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%





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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:

- 1) . 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.

1) . 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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### 7.2.4 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.

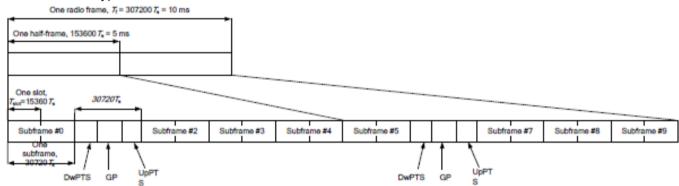
#### **TDD LTE test consideration**

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

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

#### Frame structure type 2:





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Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special	•	nal cyclic prefix in	downlink	Extended cyclic prefix in downlink				
subframe	DwPTS	Up	PTS	DwPTS	UpPTS			
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		
0	6592.Ts			7680.Ts				
1	19760.Ts			20480.Ts	2192.Ts	2560 To		
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts		2560.Ts		
3	24144.Ts			25600.Ts				
4	26336.Ts			7680.Ts				
5	6592.Ts			20480.Ts	4204 To	5120.Ts		
6	19760.Ts			23040.Ts	4384.Ts	5120.18		
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts				
8	24144.Ts			-	-	-		
9	13168.Ts			-	-	-		

#### Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				St	ubframe	e numb	er			
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	J	U	D	S	U	U	D

### Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

Uplink- Downlink Configurat	Downlink-to- Uplink Switch- point Periodicity	0				ame N				ı	ı	Calculated Duty Cycle (%)
ion	ion point onedicity		1	2	3	4	5	6	7	8	9	Gy 5.15 (75)
0	5 ms	D	S	U	U	U	D	S	U	U	C	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	J	U	D	53.33



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#### 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  $\leq$  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 >  $\frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

#### E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > 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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#### **Test Result** 8

### Measurement of RF conducted Power

### 8.1.1 Conducted Power of GSM

	GSM 850 All off												
В	urst Output Pov	ver(dBm)	)		T	District Franks	Frame-Ave	rage Output F	Power(dBm)	Tungun			
Chanr	nel	128	190	251	Tune up	Division Factors	128	190	251	Tune up			
GSM(GMSK)	GSM	32.71	32.74	32.72	34.00	-9.19	23.52	23.55	23.53	24.81			
	1 TX Slot	32.65	32.73	32.68	34.00	-9.19	23.46	23.54	23.49	24.81			
GPRS/EGPRS	2 TX Slots	31.64	31.71	31.62	32.00	-6.18	25.46	25.53	25.44	25.82			
(GMSK)	3 TX Slots	29.63	29.65	29.67	30.00	-4.42	25.21	25.23	25.25	25.58			
	4 TX Slots	28.47	28.51	28.48	29.00	-3.17	25.30	25.34	25.31	25.83			
	1 TX Slot	26.68	26.73	26.75	27.00	-9.19	17.49	17.54	17.56	17.81			
ECDDC(0DCK)	2 TX Slots	25.14	25.25	25.48	26.00	-6.18	18.96	19.07	19.30	19.82			
EGPRS(8PSK)	3 TX Slots	22.87	22.96	22.93	24.00	-4.42	18.45	18.54	18.51	19.58			
	4 TX Slots	21.73	21.78	21.82	23.00	-3.17	18.56	18.61	18.65	19.83			

GSM 1900 All off													
В	urst Output Pov	ver(dBm)			T	Division Foston	Frame-Ave	Power(dBm)	Tune up				
Chanr	Channel		661	810	Tune up	Division Factors	512	661		810			
GSM(GMSK)	GSM	29.80	29.81	29.24	31.00	-9.19	20.61	20.62	20.05	21.81			
	1 TX Slot	29.63	29.65	29.10	31.00	-9.19	20.44	20.46	19.91	21.81			
GPRS/EGPRS	2 TX Slots	28.36	28.37	27.94	29.00	-6.18	22.18	22.19	21.76	22.82			
(GMSK)	3 TX Slots	26.03	26.04	25.67	27.00	-4.42	21.61	21.62	21.25	22.58			
	4 TX Slots	24.89	24.92	24.58	26.00	-3.17	21.72	21.75	21.41	22.83			
	1 TX Slot	23.81	23.84	23.74	24.00	-9.19	14.62	14.65	14.55	14.81			
EODDO(ODO)()	2 TX Slots	22.81	22.86	22.67	23.00	-6.18	16.63	16.68	16.49	16.82			
EGPRS(8PSK)	3 TX Slots	20.86	20.94	20.78	21.00	-4.42	16.44	16.52	16.36	16.58			
	4 TX Slots	19.68	19.82	19.47	20.00	-3.17	16.51	16.65	16.30	16.83			

	GSM 1900 Receiver on												
В	urst Output Pov	ver(dBm)			T	Division Foston	Frame-Ave	rage Output F	Power(dBm)	Tune up			
Chann	nel	512	661	810	Tune up	Division Factors	512	661	810				
GSM(GMSK)	GSM	26.81	26.89	26.23	28.00	-9.19	17.62	17.70	17.04	18.81			
	1 TX Slot	26.58	26.72	26.20	28.00	-9.19	17.39	17.53	17.01	18.81			
GPRS/EGPRS	2 TX Slots	25.36	25.40	25.02	26.00	-6.18	19.18	19.22	18.84	19.82			
(GMSK)	3 TX Slots	23.04	23.14	22.75	24.00	-4.42	18.62	18.72	18.33	19.58			
	4 TX Slots	21.88	22.00	21.60	23.00	-3.17	18.71	18.83	18.43	19.83			
	1 TX Slot	20.87	20.90	20.76	21.00	-9.19	11.68	11.71	11.57	11.81			
ECDDC(ODCK)	2 TX Slots	19.90	19.87	19.64	20.00	-6.18	13.72	13.69	13.46	13.82			
EGPRS(8PSK)	3 TX Slots	17.92	18.00	17.79	18.00	-4.42	13.50	13.58	13.37	13.58			
	4 TX Slots	16.73	16.79	16.53	17.00	-3.17	13.56	13.62	13.36	13.83			



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	GSM 1900 Sensor on													
В	urst Output Pov	ver(dBm)			T	Division Factors	Frame-Ave	Power(dBm)	Tuna un					
Chanr	nel	512	661	810	Tune up	DIVISION FACIOIS	512	661	810	Tune up				
GSM(GMSK)	GSM	27.88	27.96	27.21	29.00	-9.19	18.69	18.77	18.02	19.81				
	1 TX Slot	27.54	27.80	27.17	29.00	-9.19	18.35	18.61	17.98	19.81				
GPRS/EGPRS	2 TX Slots	26.43	26.47	26.04	27.00	-6.18	20.25	20.29	19.86	20.82				
(GMSK)	3 TX Slots	24.01	24.18	23.71	25.00	-4.42	19.59	19.76	19.29	20.58				
	4 TX Slots	22.94	23.08	22.64	24.00	-3.17	19.77	19.91	19.47	20.83				
	1 TX Slot	21.87	21.89	21.83	22.00	-9.19	12.68	12.70	12.64	12.81				
E0000(000())	2 TX Slots	20.93	20.96	20.69	21.00	-6.18	14.75	14.78	14.51	14.82				
EGPRS(8PSK)	3 TX Slots	18.94	18.99	18.77	19.00	-4.42	14.52	14.57	14.35	14.58				
	4 TX Slots	17.72	17.74	17.51	18.00	-3.17	14.55	14.57	14.34	14.83				

#### 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:

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

WCDMA Band II All off												
	Average Conducted Power(dBm)											
Channel		9262	9400	9538	Tune up							
MODIMA	12.2kbps RMC	23.45	23.74	23.68	24.50							
WCDMA	12.2kbps AMR	23.42	23.73	23.66	24.50							
	Subtest 1	23.25	23.24	23.31	24.00							
LICDDA	Subtest 2	23.22	23.26	23.31	24.00							
HSDPA	Subtest 3	22.77	22.79	22.83	23.50							
	Subtest 4	22.77	22.69	22.82	23.50							
	Subtest 1	21.20	21.17	21.29	22.00							
	Subtest 2	21.28	21.22	21.30	22.00							
HSUPA	Subtest 3	21.94	21.87	21.78	22.50							
	Subtest 4	20.76	20.74	20.77	21.50							
	Subtest 5	22.20	22.20	22.30	23.00							
	Subtest 1	23.21	23.23	23.31	24.00							
DO HODDA	Subtest 2	23.20	23.22	23.35	24.00							
DC-HSDPA	Subtest 3	22.74	22.75	22.80	23.50							
	Subtest 4	22.75	22.65	22.81	23.50							
HSPA+	16QAM	22.73	22.69	22.51	23.50							

WCDMA Band II Receiver on										
	Av	erage Conducted Pov	ver(dBm)							
Channel		9262	9400	9538	Tune up					
MODMA	12.2kbps RMC	18.74	18.85	18.82	19.50					
WCDMA	12.2kbps AMR	18.68	18.67	18.61	19.50					
	Subtest 1	18.19	18.11	18.37	19.00					
110004	Subtest 2	18.14	18.51	18.45	19.00					
HSDPA	Subtest 3	17.69	17.80	17.70	18.50					
	Subtest 4	17.98	17.53	17.88	18.50					
	Subtest 1	17.23	17.26	17.18	19.00					
	Subtest 2	16.21	16.09	16.16	18.00					
HSUPA	Subtest 3	17.09	17.16	17.04	17.50					
	Subtest 4	15.87	15.85	15.62	17.50					
	Subtest 5	17.26	17.30	17.22	18.00					
	Subtest 1	18.46	18.28	18.59	19.00					
DO 110DD4	Subtest 2	18.13	18.36	18.37	19.00					
DC-HSDPA	Subtest 3	17.89	17.70	17.64	18.50					
	Subtest 4	17.69	17.45	17.76	18.50					
HSPA+	16QAM	17.66	17.72	17.54	18.50					



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	WCDMA Band II Sensor on											
	Average Conducted Power(dBm)											
Channel		9262	9400	9538	Tune up							
MODMA	12.2kbps RMC	19.37	19.54	19.51	20.50							
WCDMA	12.2kbps AMR	19.32	19.53	19.43	20.50							
	Subtest 1	18.93	18.91	18.97	20.00							
110004	Subtest 2	18.85	18.99	18.93	20.00							
HSDPA	Subtest 3	18.37	18.54	18.41	19.50							
	Subtest 4	18.64	18.33	18.61	19.50							
	Subtest 1	18.01	18.01	18.20	20.00							
	Subtest 2	17.31	17.23	17.41	19.00							
HSUPA	Subtest 3	18.03	18.19	18.21	18.50							
	Subtest 4	16.84	16.62	16.81	18.50							
	Subtest 5	18.02	17.80	18.14	19.00							
	Subtest 1	18.97	18.99	19.11	20.00							
DC HCDDA	Subtest 2	18.95	18.88	18.95	20.00							
DC-HSDPA	Subtest 3	18.52	18.47	18.52	19.50							
	Subtest 4	18.33	18.34	18.55	19.50							
HSPA+	16QAM	18.46	18.50	18.17	19.50							

	WCDMA Band IV All off										
Average Conducted Power(dBm)											
Channel		1312	1412	1513	Tune up						
MODIMA	12.2kbps RMC	23.64	23.66	23.59	24.50						
WCDMA	12.2kbps AMR	23.62	23.64	23.56	24.50						
	Subtest 1	22.97	22.93	23.00	24.00						
HCDDA	Subtest 2	22.94	22.97	23.04	24.00						
HSDPA	Subtest 3	22.46	22.53	22.55	23.50						
	Subtest 4	22.46	22.39	22.51	23.50						
	Subtest 1	20.91	20.88	21.01	22.00						
	Subtest 2	20.99	20.93	20.98	22.00						
HSUPA	Subtest 3	21.94	21.87	21.99	22.50						
	Subtest 4	20.49	20.46	20.48	21.50						
	Subtest 5	21.92	21.88	22.01	23.00						
	Subtest 1	22.90	22.95	23.04	24.00						
DO HODDA	Subtest 2	22.89	22.90	23.06	24.00						
DC-HSDPA	Subtest 3	22.43	22.44	22.50	23.50						
	Subtest 4	22.45	22.37	22.53	23.50						
HSPA+	16QAM	22.66	22.62	22.65	23.50						



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	WCDMA Band IV Receiver on  Average Conducted Power(dBm)											
Channel		1312	1412	1513	Tune up							
MCDMA	12.2kbps RMC	18.52	18.63	18.55	19.50							
WCDMA	12.2kbps AMR	18.54	18.44	18.52	19.50							
	Subtest 1	18.09	18.07	18.13	19.00							
110004	Subtest 2	18.20	18.18	18.18	19.00							
HSDPA	Subtest 3	17.68	17.67	17.77	18.50							
	Subtest 4	17.61	17.56	17.68	18.50							
	Subtest 1	17.52	17.6	17.52	19.00							
	Subtest 2	16.63	16.57	16.60	18.00							
HSUPA	Subtest 3	16.89	16.98	16.92	17.50							
	Subtest 4	16.13	16.01	16.12	17.50							
	Subtest 5	17.07	17.02	17.14	18.00							
	Subtest 1	18.03	18.13	18.20	19.00							
DO 110DD4	Subtest 2	18.12	18.04	18.10	19.00							
DC-HSDPA	Subtest 3	17.62	17.61	17.68	18.50							
	Subtest 4	17.46	17.62	17.76	18.50							
HSPA+	16QAM	17.75	17.72	17.76	18.50							

	WCDMA Band IV Sensor on											
	Average Conducted Power(dBm)											
Channel		1312	1412	1513	Tune up							
MODMA	12.2kbps RMC	20.76	20.82	20.73	21.50							
WCDMA	12.2kbps AMR	20.6	20.73	20.71	21.50							
	Subtest 1	20.40	20.22	20.48	21.00							
LIODDA	Subtest 2	20.29	20.33	20.19	21.00							
HSDPA	Subtest 3	19.85	19.83	20.06	20.50							
	Subtest 4	19.90	19.84	19.88	20.50							
	Subtest 1	19.31	19.17	19.40	21.00							
	Subtest 2	18.40	18.11	18.28	20.00							
HSUPA	Subtest 3	19.11	18.98	18.98	19.50							
	Subtest 4	17.91	17.67	17.82	19.50							
	Subtest 5	19.21	19.09	19.22	20.00							
	Subtest 1	20.27	20.41	20.48	21.00							
DO 110DDA	Subtest 2	20.16	20.37	20.35	21.00							
DC-HSDPA	Subtest 3	19.90	19.70	19.81	20.50							
	Subtest 4	19.80	20.01	20.08	20.50							
HSPA+	16QAM	19.82	19.88	19.86	20.50							



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	WCDMA Band V All off											
Average Conducted Power(dBm)												
С	hannel	4132	4182	4233	Tune up							
WCDMA	12.2kbps RMC	23.52	23.56	23.54	24.50							
WCDMA	12.2kbps AMR	23.50	23.53	23.51	24.50							
	Subtest 1	23.05	23.04	23.15	24.00							
110004	Subtest 2	23.01	23.04	23.13	24.00							
HSDPA	Subtest 3	22.57	22.60	22.65	23.50							
	Subtest 4	22.59	22.48	22.62	23.50							
	Subtest 1	21.01	20.99	21.10	22.00							
	Subtest 2	21.12	21.05	21.11	22.00							
HSUPA	Subtest 3	21.89	21.99	21.95	22.50							
	Subtest 4	20.56	20.57	20.56	21.50							
	Subtest 5	22.01	22.01	22.13	23.00							
	Subtest 1	22.99	23.02	23.10	24.00							
DO HODDA	Subtest 2	23.00	23.04	23.16	24.00							
DC-HSDPA	Subtest 3	22.53	22.58	22.58	23.50							
	Subtest 4	22.57	22.47	22.60	23.50							
HSPA+	16QAM	22.51	22.53	22.48	23.50							

#### 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

	LTE Band	I 2 All off		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18607	18900	19193	·	
		1	0	23.64	23.79	23.53	25.50	
		1	2	23.63	23.71	23.61	25.50	
		1	5	23.58	23.64	23.57	25.50	
	QPSK	3	0	22.80	22.85	22.54	24.50	
		3	2	22.78	22.76	22.63	24.50	
		3	3	22.80	22.74	22.56	24.50	
		6	0	22.69	22.78	22.50	24.50	
		1	0	22.58	22.61	22.58	24.50	
		1	2	22.53	22.62	22.57	24.50	
		1	5	22.65	22.58	22.59	24.50	
1.4MHz	16QAM	3	0	21.60	21.89	21.95	23.50	
		3	2	21.53	21.83	21.89	23.50	
		3	3	21.60	21.82	21.88	23.50	
		6	0	21.62	21.80	21.84	23.50	
		1	0	21.52	21.56	21.23	23.50	
		1	2	21.36	21.43	21.48	23.50	
		1	5	21.15	21.55	21.19	23.50	
	64QAM	3	0	20.19	20.44	20.34	22.50	
		3	2	20.36	20.62	20.17	22.50	
		3	3	20.44	20.70	20.40	22.50	
		6	0	20.14	20.20	20.32	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
	Wiodulation			18615	18900	19185	·	
		1	0	23.66	23.76	23.59	25.50	
		1	7	23.70	23.75	23.58	25.50	
		1	14	23.68	23.71	23.56	25.50	
	QPSK	8	0	22.84	22.83	22.66	24.50	
		8	4	22.78	22.72	22.52	24.50	
		8	7	22.72	22.70	22.55	24.50	
		15	0	22.58	22.75	22.58	24.50	
		1	0	22.61	22.69	22.56	24.50	
		1	7	22.57	22.66	22.59	24.50	
3MHz		1	14	22.54	22.55	22.52	24.50	
	16QAM	8	0	21.57	21.87	21.94	23.50	
		8	4	21.63	21.86	21.88	23.50	
	[	8	7	21.50	21.89	21.89	23.50	
		15	0	21.70	21.85	21.85	23.50	
		1	0	21.51	21.43	21.27	23.50	
		1	7	21.43	21.44	21.39	23.50	
	64QAM	1	14	21.14	21.49	21.20	23.50	
		8	0	20.17	20.47	20.45	22.50	
		8	4	20.34	20.53	20.21	22.50	



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		0	7	20.24	20.00	20.20	22.50
		8	7	20.31	20.68	20.36	22.50
		15	0	20.14	20.20	20.32	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	, a ap
		1	0	23.75	23.73	23.58	25.50
		1	13	23.62	23.76	23.56	25.50
		1	24	23.72	23.63	23.56	25.50
	QPSK	12	0	22.75	22.78	22.52	24.50
		12	6	22.78	22.69	22.55	24.50
		12	13	22.70	22.67	22.56	24.50
		25	0	22.62	22.78	22.50	24.50
		1	0	22.58	22.56	22.54	24.50
		1	13	22.60	22.61	22.60	24.50
		1	24	22.56	22.53	22.61	24.50
5MHz	16QAM	12	0	21.65	21.89	21.95	23.50
		12	6	21.53	21.83	21.87	23.50
		12	13	21.59	21.88	21.85	23.50
		25	0	21.69	21.79	21.81	23.50
		1	0	21.48	21.47	21.16	23.50
		1	13	21.44	21.44	21.48	23.50
		1	24	21.12	21.53	21.28	23.50
	64QAM	12	0	20.27	20.40	20.42	22.50
		12	6	20.29	20.61	20.13	22.50
		12	13	20.42	20.66	20.39	22.50
		25	0	20.14	20.20	20.32	22.50
		55 :	DD 65 1	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	23.76	23.77	23.60	25.50
		1	25	23.64	23.77	23.66	25.50
		1	49	23.71	23.68	23.51	25.50
	QPSK	25	0	22.70	22.81	22.62	24.50
		25	13	22.76	22.69	22.61	24.50
		25	25	22.75	22.68	22.62	24.50
		50	0	22.61	22.78	22.51	24.50
		1	0	22.54	22.59	22.53	24.50
		1	25	22.56	22.69	22.56	24.50
		1	49	22.54	22.57	22.58	24.50
10MHz	16QAM	25	0	21.58	21.87	21.91	23.50
		25	13	21.60	21.82	21.81	23.50
		25	25	21.53	21.81	21.98	23.50
		50	0	21.68	21.78	21.86	23.50
		1	0	21.59	21.46	21.29	23.50
		1	25	21.45	21.43	21.39	23.50
		1	49	21.17	21.58	21.27	23.50
	64QAM	25	0	20.15	20.42	20.34	22.50
		25	13	20.43	20.60	20.24	22.50
		25	25	20.45	20.63	20.42	22.50
	ŀ	50	0	20.14	20.20	20.32	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				19075	19000	10405	
		4	^	18675	18900	19125	05.50
		1	0	23.76	23.70	23.65	25.50
		1	38	23.71	23.76	23.62	25.50
		1	74	23.69	23.69	23.56	25.50
	QPSK	36	0	22.83	22.81	22.53	24.50
		36	18	22.66	22.73	22.60	24.50
		36	39	22.70	22.78	22.61	24.50
		75	0	22.60	22.67	22.52	24.50
		1	0	22.55	22.62	22.57	24.50
		1	38	22.56	22.60	22.58	24.50
		1	74	22.57	22.58	22.63	24.50
15MHz	16QAM	36	0	21.66	21.95	21.94	23.50
		36	18	21.50	21.83	21.83	23.50
		36	39	21.60	21.83	21.88	23.50
		75	0	21.64	21.75	21.77	23.50
		1	0	21.52	21.51	21.30	23.50
		1	38	21.39	21.41	21.39	23.50
		1	74	21.08	21.57	21.22	23.50
	64QAM	36	0	20.27	20.48	20.44	22.50
		36	18	20.32	20.63	20.18	22.50
		36	39	20.35	20.62	20.33	22.50
		75	0	20.43	20.60	20.24	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tuno un
Danuwium	Wodulation	KD SIZE	KD Ollset	18700	18900	19100	Tune up
		1	0	23.75	23.80	23.71	25.50
		1	50	23.60	23.79	23.68	25.50
		1	99	23.67	23.77	23.58	25.50
	QPSK	50	0	22.77	22.79	22.54	24.50
		50	25	22.78	22.68	22.62	24.50
		50	50	22.75	22.70	22.62	24.50
		100	0	22.60	22.74	22.57	24.50
		1	0	22.62	22.66	22.57	24.50
		1	50	22.57	22.58	22.59	24.50
		1	99	22.62	22.57	22.51	24.50
20MHz	16QAM	50	0	21.55	21.96	21.94	23.50
		50	25	21.63	21.91	21.94	23.50
		50	50	21.59	21.89	21.89	23.50
		100	0	21.59	21.76	21.78	23.50
		1	0	21.59	21.52	21.25	23.50
		1	50	21.36	21.39	21.41	23.50
		1	99	21.13	21.51	21.30	23.50
	64QAM	=-	0	20.15	20.43	20.35	22.50
	64QAM	50	0	20.10			
	64QAM	50 50		20.29	20.59		22.50
	64QAM	50 50 50	25 50			20.16 20.45	22.50 22.50



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	LTE Band 2	Receiver on		Conducted Power(dBm)				
				Channel	Channel	Channel		
Bandwidth	Modulation	RB size	RB offset	18607	18900	19193	Tune up	
		1	0	19.27	19.26	19.10	20.50	
		1	2	19.20	19.26	19.17	20.50	
		1	5	19.14	19.21	19.03	20.50	
	QPSK	3	0	19.19	19.37	19.08	20.50	
		3	2	19.23	19.17	19.13	20.50	
		3	3	19.23	19.23	19.13	20.50	
		6	0	19.20	19.26	19.15	20.50	
		1	0	19.18	19.18	19.19	20.50	
		1	2	19.12	19.16	19.13	20.50	
		1	5	19.24	19.32	19.19	20.50	
1.4MHz	16QAM	3	0	19.28	19.27	19.09	20.50	
		3	2	19.16	19.18	19.09	20.50	
		3	3	19.23	19.28	19.07	20.50	
		6	0	19.24	19.22	19.16	20.50	
		1	0	19.15	19.25	19.01	20.50	
		1	2	19.32	19.36	19.12	20.50	
		1	5	19.26	19.32	19.13	20.50	
	64QAM	3	0	19.16	19.29	19.00	20.50	
		3	2	19.23	19.27	19.20	20.50	
		3	3	19.15	19.33	19.22	20.50	
		6	0	19.13	19.29	19.09	20.50	
	Modulation		DD offerst	Channel	Channel	Channel	_	
Bandwidth		RB size	RB offset	18615	18900	19185	Tune up	
		1	0	19.26	19.24	19.12	20.50	
		1	7	19.13	19.25	19.11	20.50	
		1	14	19.26	19.29	19.05	20.50	
	QPSK	8	0	19.29	19.30	19.16	20.50	
		8	4	19.25	19.26	19.21	20.50	
		8	7	19.25	19.15	19.05	20.50	
		15	0	19.26	19.31	19.08	20.50	
		1	0	19.16	19.23	19.20	20.50	
		1	7	19.13	19.15	19.13	20.50	
		1	14	19.25	19.33	19.19	20.50	
3MHz	16QAM	8	0	19.24	19.33	19.19	20.50	
		8	4	19.20	19.16	19.12	20.50	
		8	7	19.21	19.26	19.20	20.50	
		15	0	19.25	19.31	19.19	20.50	
		1	0	19.12	19.23	19.12	20.50	
		1	7	19.25	19.34	19.07	20.50	
		1	14	19.26	19.18	19.21	20.50	
	64QAM	8	0	19.16	19.27	19.09	20.50	
		8	4	19.22	19.29	19.22	20.50	
		8	7	19.23	19.32	19.23	20.50	
		15	0	19.15	19.27	19.08	20.50	



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		1.2 2.22		18625	18900	19175	
		1	0	19.24	19.32	19.21	20.50
		1	13	19.21	19.32	19.22	20.50
		1	24	19.18	19.19	19.04	20.50
	QPSK	12	0	19.25	19.25	19.10	20.50
		12	6	19.26	19.25	19.23	20.50
		12	13	19.21	19.25	19.12	20.50
		25	0	19.30	19.38	19.10	20.50
		1	0	19.19	19.31	19.11	20.50
		1	13	19.20	19.23	19.07	20.50
		1	24	19.28	19.33	19.07	20.50
5MHz	16QAM	12	0	19.19	19.31	19.13	20.50
		12	6	19.20	19.18	19.04	20.50
		12	13	19.25	19.37	19.21	20.50
		25	0	19.29	19.18	19.10	20.50
		1	0	19.17	19.30	19.11	20.50
		1	13	19.30	19.27	19.09	20.50
		1	24	19.26	19.23	19.24	20.50
	64QAM	12	0	19.20	19.25	18.99	20.50
		12	6	19.32	19.38	19.19	20.50
		12	13	19.29	19.22	19.16	20.50
		25	0	19.13	19.19	19.01	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bunawian	Wodalation	TAB SIZE	TE OHOCE	18650	18900	19150	rane ap
		1	0	19.32	19.23	19.07	20.50
		1	25	19.27	19.24	19.14	20.50
		1	49	19.20	19.17	19.13	20.50
	QPSK	25	0	19.26	19.32	19.21	20.50
		25	13	19.18	19.25	19.12	20.50
		25	25	19.23	19.30	19.00	20.50
		50	0	19.32	19.37	19.10	20.50
		1	0	19.25	19.30	19.11	20.50
		1	25	19.21	19.19	19.10	20.50
		1	49	19.30	19.26	19.09	20.50
10MHz	16QAM	25	0	19.23	19.21	19.21	20.50
		25	13	19.15	19.27	19.11	20.50
		25	25	19.30	19.26	19.15	20.50
		50	0	19.29	19.26	19.24	20.50
		1	0	19.12	19.24	19.12	20.50
		1	25	19.31	19.32	19.15	20.50
		1	49	19.27	19.23	19.22	20.50
	64QAM	25	0	19.22	19.27	19.10	20.50
		25	13	19.26	19.25	19.09	20.50
		25	25	19.22	19.19	19.10	20.50
		50	0	19.12	19.23	19.12	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	19.18	19.38	19.10	20.50



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	<u> </u>			T	1	T	1
		1	38	19.23	19.33	19.22	20.50
		1	74	19.18	19.31	19.00	20.50
		36	0	19.21	19.34	19.08	20.50
		36	18	19.17	19.21	19.11	20.50
		36	39	19.17	19.20	19.02	20.50
		75	0	19.19	19.24	19.11	20.50
		1	0	19.22	19.18	19.15	20.50
		1	38	19.18	19.18	19.05	20.50
		1	74	19.31	19.38	19.09	20.50
	16QAM	36	0	19.28	19.25	19.24	20.50
		36	18	19.14	19.21	19.12	20.50
		36	39	19.29	19.38	19.09	20.50
		75	0	19.23	19.21	19.19	20.50
		1	0	19.13	19.27	19.05	20.50
		1	38	19.25	19.32	19.12	20.50
		1	74	19.28	19.29	19.19	20.50
	64QAM	36	0	19.12	19.18	19.03	20.50
		36	18	19.17	19.37	19.15	20.50
		36	39	19.14	19.26	19.24	20.50
		75	0	19.18	19.23	19.08	20.50
			DD affact	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
	QPSK	1	0	19.39	19.52	19.34	20.50
		1	50	19.16	19.47	19.09	20.50
		1	99	19.24	19.24	19.04	20.50
		50	0	19.20	19.32	19.18	20.50
		50	25	19.14	19.32	19.18	20.50
		50	50	19.11	19.22	19.09	20.50
		100	0	19.22	19.37	19.12	20.50
		1	0	19.28	19.23	19.10	20.50
		1	50	19.14	19.30	19.12	20.50
		1	99	19.22	19.27	19.13	20.50
20MHz	16QAM	50	0	19.14	19.32	19.24	20.50
		50	25	19.14	19.29	19.08	20.50
		50	50	19.21	19.27	19.18	20.50
		100	0	19.16	19.31	19.10	20.50
		1	0	19.12	19.23	19.10	20.50
		1	50	19.32	19.28	19.16	20.50
		1	99	19.15	19.18	19.20	20.50
	64QAM	50	0	19.22	19.27	19.04	20.50
		50	25	19.26	19.25	19.16	20.50
	-		t				
		50	50	19.17	19.32	19.20	20.50



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	LTE Band 2	Sensor on		Conducted Power(dBm)				
				Channel	Channel	Channel		
Bandwidth	Modulation	RB size	RB offset	18607	18900	19193	Tune up	
		1	0	20.40	20.28	20.16	21.50	
		1	2	20.19	20.41	20.19	21.50	
		1	5	20.13	20.26	20.08	21.50	
	QPSK	3	0	20.31	20.44	20.14	21.50	
		3	2	20.32	20.19	20.22	21.50	
		3	3	20.30	20.18	20.24	21.50	
		6	0	20.17	20.37	20.11	21.50	
		1	0	20.19	20.15	20.28	21.50	
		1	2	20.18	20.22	20.25	21.50	
		1	5	20.35	20.43	20.23	21.50	
1.4MHz	16QAM	3	0	20.43	20.31	20.08	21.50	
		3	2	20.30	20.13	20.19	21.50	
		3	3	20.22	20.31	20.03	21.50	
		6	0	20.34	20.21	20.15	21.50	
		1	0	20.21	20.32	20.12	21.50	
		1	2	20.34	20.38	20.14	21.50	
		1	5	20.33	20.45	20.25	21.50	
	64QAM	3	0	20.31	20.35	20.00	21.50	
		3	2	20.38	20.33	20.30	21.50	
		3	3	20.21	20.37	20.23	21.50	
		6	0	20.24	20.27	20.12	21.50	
Daniel dela	Modulation	DD -i	DD offeet	Channel	Channel	Channel	<b>T</b>	
Bandwidth		RB size	RB offset	18615	18900	19185	Tune up	
		1	0	20.40	20.23	20.10	21.50	
		1	7	20.31	20.23	20.12	21.50	
		1	14	20.14	20.16	20.14	21.50	
	QPSK	8	0	20.24	20.45	20.17	21.50	
		8	4	20.34	20.29	20.25	21.50	
		8	7	20.33	20.22	20.12	21.50	
		15	0	20.27	20.22	20.16	21.50	
		1	0	20.29	20.15	20.31	21.50	
		1	7	20.25	20.13	20.22	21.50	
		1	14	20.32	20.28	20.28	21.50	
3MHz	16QAM	8	0	20.33	20.36	20.04	21.50	
		8	4	20.22	20.18	20.10	21.50	
		8	7	20.22	20.32	20.15	21.50	
		15	0	20.31	20.20	20.12	21.50	
		1	0	20.18	20.25	20.13	21.50	
		1	7	20.41	20.44	20.14	21.50	
		1	14	20.33	20.44	20.26	21.50	
	64QAM	8	0	20.23	20.38	20.02	21.50	
		8	4	20.23	20.40	20.25	21.50	
	<u>[</u>	8	7	20.29	20.34	20.21	21.50	
		15	0	20.27	20.30	20.16	21.50	



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18625	18900	19175		
5MHz	QPSK	1	0	20.29	20.34	20.12	21.50	
		1	13	20.15	20.37	20.14	21.50	
		1	24	20.16	20.34	20.04	21.50	
		12	0	20.22	20.39	20.18	21.50	
		12	6	20.26	20.21	20.08	21.50	
		12	13	20.29	20.34	20.20	21.50	
		25	0	20.21	20.36	20.29	21.50	
	16QAM	1	0	20.26	20.20	20.30	21.50	
		1	13	20.10	20.15	20.23	21.50	
		1	24	20.39	20.39	20.17	21.50	
		12	0	20.28	20.42	20.19	21.50	
		12	6	20.26	20.22	20.20	21.50	
		12	13	20.26	20.38	20.15	21.50	
		25	0	20.30	20.27	20.28	21.50	
	64QAM	1	0	20.11	20.33	20.07	21.50	
		1	13	20.28	20.35	20.20	21.50	
		1	24	20.31	20.31	20.20	21.50	
		12	0	20.22	20.35	20.12	21.50	
		12	6	20.19	20.31	20.25	21.50	
		12	13	20.11	20.38	20.29	21.50	
		25	0	20.24	20.36	20.23	21.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18650	18900	19150		
10MHz	QPSK	1	0	20.41	20.34	20.11	21.50	
		1	25	20.15	20.37	20.18	21.50	
		1	49	20.15	20.21	20.14	21.50	
		25	0	20.34	20.34	20.06	21.50	
		25	13	20.36	20.21	20.20	21.50	
		25	25	20.33	20.22	20.19	21.50	
		50	0	20.32	20.34	20.15	21.50	
	16QAM	1	0	20.28	20.23	20.33	21.50	
		1	25	20.22	20.22	20.09	21.50	
		1	49	20.26	20.35	20.20	21.50	
		25	0	20.36	20.31	20.14	21.50	
		25	13	20.15	20.28	20.18	21.50	
		25	25	20.24	20.36	20.13	21.50	
		50	0	20.31	20.31	20.28	21.50	
	64QAM	1	0	20.22	20.36	20.11	21.50	
		1	25	20.43	20.45	20.14	21.50	
		1	49	20.28	20.38	20.28	21.50	
		25	0	20.14	20.37	19.95	21.50	
		25	13	20.29	20.25	20.34	21.50	
		25	25	20.26	20.37	20.33	21.50	
		50	0	20.16	20.28	20.08	21.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				18675	18900	19125		
15MHz	QPSK	1	0	20.33	20.25	20.05	21.50	



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			T	T	1	T	1
		1	38	20.31	20.40	20.20	21.50
		1	74	20.16	20.30	20.07	21.50
		36	0	20.25	20.43	20.06	21.50
		36	18	20.26	20.17	20.27	21.50
		36	39	20.31	20.26	20.12	21.50
		75	0	20.34	20.25	20.16	21.50
		1	0	20.25	20.23	20.33	21.50
		1	38	20.21	20.13	20.12	21.50
		1	74	20.26	20.33	20.16	21.50
	16QAM	36	0	20.35	20.31	20.06	21.50
		36	18	20.31	20.26	20.04	21.50
		36	39	20.21	20.24	20.06	21.50
		75	0	20.34	20.18	20.25	21.50
		1	0	20.24	20.34	20.11	21.50
		1	38	20.35	20.31	20.23	21.50
		1	74	20.23	20.45	20.16	21.50
	64QAM	36	0	20.15	20.31	20.01	21.50
		36	18	20.30	20.22	20.24	21.50
		36	39	20.29	20.44	20.35	21.50
		75	0	20.16	20.27	20.06	21.50
			55 %	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
		1	0	20.43	20.49	20.32	21.50
		1	50	20.18	20.35	20.30	21.50
		1	99	20.11	20.25	20.08	21.50
	QPSK	50	0	20.27	20.48	20.22	21.50
		50	25	20.22	20.21	20.10	21.50
		50	50	20.35	20.21	20.21	21.50
		100	0	20.15	20.30	20.27	21.50
		1	0	20.18	20.17	20.30	21.50
		1	50	20.07	20.30	20.23	21.50
		1	99	20.38	20.35	20.23	21.50
20MHz	16QAM	50	0	20.28	20.30	20.07	21.50
		50	25	20.27	20.28	20.15	21.50
		50	50	20.23	20.40	20.16	21.50
		100	0	20.20	20.20	20.30	21.50
		1	0	20.11	20.20	19.97	21.50
		1	50	20.28	20.42	20.11	21.50
		1	99	20.25	20.27	20.23	21.50
	64QAM	50	0	20.25	20.38	19.98	21.50
		50	25	20.19	20.23	20.28	21.50
		50	50	20.14	20.30	20.37	21.50
		อบ		20 14	20.00	ZU 31	Z [ 30



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	LTE Band	d 4 All off			Conducted	Power(dBm)	
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up
		1	0	23.29	23.37	23.25	25.00
		<u>.</u> 1	2	23.26	23.26	23.26	25.00
		<u>.</u> 1	5	23.25	23.36	23.25	25.00
	QPSK	3	0	22.47	22.60	22.56	24.00
		3	2	22.53	22.51	22.54	24.00
		3	3	22.59	22.53	22.55	24.00
		6	0	22.35	22.28	22.35	24.00
		1	0	22.41	22.58	22.47	24.00
		1	2	22.33	22.40	22.39	24.00
		1	5	22.44	22.53	22.43	24.00
1.4MHz	16QAM	3	0	21.53	21.41	21.48	23.00
		3	2	21.38	21.54	21.55	23.00
		3	3	21.47	21.45	21.51	23.00
		6	0	21.29	21.33	21.34	23.00
		1	0	20.84	20.91	20.86	23.00
		1	2	21.17	20.86	20.90	23.00
		1	5	21.20	21.37	21.02	23.00
	64QAM	3	0	20.08	20.21	19.89	22.00
		3	2	20.14	20.20	20.32	22.00
		3	3	19.93	20.31	19.80	22.00
		6	0	20.16	20.14	20.23	22.00
Daniel dela	NA - ded - ti	DD -i	DD -#	Channel	Channel	Channel	<b>T</b>
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	23.24	23.41	23.26	25.00
		1	7	23.36	23.30	23.36	25.00
		1	14	23.28	23.27	23.26	25.00
	QPSK	8	0	22.44	22.57	22.63	24.00
		8	4	22.48	22.58	22.60	24.00
		8	7	22.48	22.51	22.59	24.00
		15	0	22.34	22.32	22.22	24.00
		1	0	22.37	22.59	22.52	24.00
		1	7	22.36	22.44	22.36	24.00
		11	14	22.46	22.47	22.39	24.00
3MHz	16QAM	8	0	21.54	21.44	21.47	23.00
		8	4	21.44	21.41	21.43	23.00
		8	7	21.48	21.45	21.45	23.00
		15	0	21.34	21.32	21.33	23.00
		1	0	20.89	20.86	20.89	23.00
		1	7	21.18	20.86	20.94	23.00
		1	14	21.22	21.27	21.04	23.00
	64QAM	8	0	20.06	20.27	19.80	22.00
		8	4	20.10	20.13	20.27	22.00
		8	7	20.00	20.19	19.81	22.00
		15	0	20.15	20.23	20.29	22.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		1.2 2.22		19975	20175	20375	•
		1	0	23.29	23.44	23.35	25.00
		1	13	23.39	23.35	23.26	25.00
		1	24	23.30	23.26	23.22	25.00
	QPSK	12	0	22.41	22.61	22.54	24.00
		12	6	22.41	22.56	22.47	24.00
		12	13	22.48	22.58	22.49	24.00
		25	0	22.28	22.33	22.29	24.00
		1	0	22.40	22.51	22.48	24.00
		1	13	22.43	22.51	22.45	24.00
		1	24	22.42	22.57	22.47	24.00
5MHz	16QAM	12	0	21.46	21.48	21.50	23.00
		12	6	21.42	21.43	21.56	23.00
		12	13	21.37	21.44	21.51	23.00
		25	0	21.26	21.39	21.31	23.00
		1	0	20.86	20.85	20.90	23.00
		1	13	21.20	20.94	21.01	23.00
		1	24	21.10	21.28	21.09	23.00
	64QAM	12	0	20.04	20.21	19.76	22.00
		12	6	20.14	20.17	20.31	22.00
		12	13	19.91	20.31	19.74	22.00
		25	0	20.14	20.15	20.17	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bunawian	Wodalation	TAB SIZE	TE OHOCE	20000	20175	20350	Tane ap
		1	0	23.28	23.44	23.34	25.00
		1	25	23.37	23.32	23.22	25.00
		1	49	23.33	23.31	23.34	25.00
	QPSK	25	0	22.47	22.59	22.54	24.00
		25	13	22.48	22.59	22.49	24.00
		25	25	22.58	22.49	22.50	24.00
		50	0	22.28	22.32	22.27	24.00
		1	0	22.32	22.54	22.46	24.00
		1	25	22.35	22.45	22.38	24.00
		1	49	22.37	22.51	22.39	24.00
10MHz	16QAM	25	0	21.42	21.42	21.42	23.00
		25	13	21.44	21.43	21.50	23.00
		25	25	21.47	21.52	21.41	23.00
		50	0	21.34	21.31	21.27	23.00
		1	0	20.80	20.97	20.88	23.00
		1	25	21.20	20.86	20.97	23.00
		1	49	21.23	21.27	21.10	23.00
	64QAM	25	0	20.02	20.30	19.80	22.00
		25	13	20.11	20.22	20.27	22.00
		25	25	20.02	20.25	19.85	22.00
		50	0	20.12	20.12	20.24	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	23.22	23.41	23.24	25.00



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	T		Т	T	1	T	1
		1	38	23.35	23.34	23.26	25.00
		1	74	23.31	23.37	23.34	25.00
		36	0	22.55	22.54	22.52	24.00
		36	18	22.45	22.46	22.58	24.00
		36	39	22.48	22.54	22.51	24.00
		75	0	22.35	22.40	22.31	24.00
		1	0	22.35	22.47	22.40	24.00
		1	38	22.43	22.47	22.47	24.00
		1	74	22.46	22.46	22.45	24.00
	16QAM	36	0	21.44	21.40	21.52	23.00
		36	18	21.46	21.43	21.47	23.00
		36	39	21.42	21.40	21.45	23.00
		75	0	21.35	21.41	21.36	23.00
		1	0	20.82	20.86	20.81	23.00
		1	38	21.18	20.97	20.89	23.00
		1	74	21.09	21.32	21.06	23.00
	64QAM	36	0	20.03	20.30	19.83	22.00
		36	18	20.11	20.17	20.31	22.00
		36	39	19.94	20.31	19.84	22.00
		75	0	20.15	20.14	20.29	22.00
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	23.30	23.47	23.35	25.00
		1	50	23.32	23.37	23.35	25.00
		1	99	23.33	23.26	23.29	25.00
	QPSK	50	0	22.53	22.51	22.59	24.00
		50	25	22.49	22.57	22.53	24.00
		50	50	22.55	22.51	22.56	24.00
		100	0	22.30	22.41	22.26	24.00
		1	0	22.38	22.49	22.48	24.00
		1	50	22.34	22.43	22.41	24.00
		1	99	22.39	22.47	22.43	24.00
20MHz	16QAM	50	0	21.42	21.41	21.43	23.00
		50	25	21.44	21.42	21.57	23.00
		50	50	21.45	21.48	21.41	23.00
		100	0	21.34	21.34	21.23	23.00
		1	0	20.77	20.85	20.82	23.00
		1	50	21.23	20.94	20.98	23.00
		1	99	21.11	21.31	21.11	23.00
	64QAM	50	0	20.15	20.23	19.89	22.00
	0.100.111	50	25	20.12	20.18	20.23	22.00
		50	50	19.96	20.28	19.79	22.00



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	LTE Band 4	Receiver on			Conducted	Power(dBm)	
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up
		1	0	18.33	18.47	18.34	20.00
		<u>.</u> 1	2	18.09	18.13	18.10	20.00
		1	5	18.02	18.18	18.04	20.00
	QPSK	3	0	18.19	18.22	18.05	20.00
		3	2	18.10	18.20	18.01	20.00
		3	3	18.12	18.15	18.05	20.00
		6	0	18.05	18.10	18.26	20.00
		1	0	18.18	18.21	18.25	20.00
		1	2	18.11	18.23	18.02	20.00
		1	5	18.24	18.35	18.08	20.00
1.4MHz	16QAM	3	0	18.21	18.22	18.09	20.00
		3	2	18.01	18.10	18.10	20.00
		3	3	18.26	18.28	18.12	20.00
		6	0	18.07	18.20	18.11	20.00
		1	0	18.12	18.25	17.96	20.00
		1	2	18.28	18.13	18.04	20.00
		1	5	18.18	18.13	18.06	20.00
	64QAM	3	0	18.21	18.09	18.06	20.00
		3	2	18.11	18.15	18.13	20.00
		3	3	18.20	18.24	18.19	20.00
		6	0	18.11	18.15	18.00	20.00
Daniel del	NA - ded - ti	DD -i	DD -#	Channel	Channel	Channel	<b>T</b>
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	18.41	18.45	18.31	20.00
		1	7	18.10	18.22	18.11	20.00
		1	14	18.03	18.18	18.04	20.00
	QPSK	8	0	18.19	18.24	18.05	20.00
		8	4	18.07	18.27	18.09	20.00
		8	7	18.07	18.15	18.09	20.00
		15	0	18.13	18.15	18.28	20.00
		1	0	18.16	18.19	18.27	20.00
		1	7	18.18	18.25	18.07	20.00
		1	14	18.18	18.27	18.05	20.00
3MHz	16QAM	8	0	18.16	18.16	18.03	20.00
		8	4	18.09	18.10	18.06	20.00
		8	7	18.22	18.37	18.05	20.00
		15	0	18.13	18.32	18.09	20.00
		11	0	18.11	18.26	18.03	20.00
		1	7	18.23	18.19	18.02	20.00
		1	14	18.07	18.11	18.06	20.00
	64QAM	8	0	18.11	18.11	18.04	20.00
		8	4	18.18	18.16	18.15	20.00
		8	7	18.19	18.24	18.08	20.00
		15	0	18.02	18.16	18.02	20.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		112 212		19975	20175	20375	·
		1	0	18.43	18.49	18.37	20.00
		1	13	18.03	18.13	18.09	20.00
		1	24	18.11	18.08	18.04	20.00
	QPSK	12	0	18.07	18.35	18.24	20.00
		12	6	18.04	18.26	18.15	20.00
		12	13	18.16	18.19	18.03	20.00
		25	0	18.11	18.21	18.18	20.00
		1	0	18.11	18.23	18.15	20.00
		1	13	18.14	18.25	18.01	20.00
		1	24	18.32	18.30	18.16	20.00
5MHz	16QAM	12	0	18.19	18.12	18.07	20.00
		12	6	18.06	18.10	18.01	20.00
		12	13	18.27	18.31	18.14	20.00
		25	0	18.07	18.17	18.06	20.00
		1	0	18.18	18.22	18.02	20.00
		1	13	18.14	18.14	18.05	20.00
		1	24	18.09	18.20	17.97	20.00
	64QAM	12	0	18.07	18.10	18.02	20.00
		12	6	18.15	18.24	18.12	20.00
		12	13	18.10	18.27	18.09	20.00
		25	0	18.08	18.19	18.07	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bunawian	Wodalation	TAB SIZE	TE OHOCE	20000	20175	20350	Tane ap
		1	0	18.30	18.50	18.38	20.00
		1	25	18.12	18.15	18.10	20.00
		1	49	18.09	18.10	18.04	20.00
	QPSK	25	0	18.11	18.32	18.25	20.00
		25	13	18.11	18.27	18.18	20.00
		25	25	18.10	18.24	18.00	20.00
		50	0	18.16	18.10	18.20	20.00
		1	0	18.06	18.24	18.13	20.00
		1	25	18.24	18.25	18.07	20.00
		1	49	18.20	18.37	18.28	20.00
10MHz	16QAM	25	0	18.20	18.14	18.08	20.00
		25	13	18.07	18.11	18.07	20.00
		25	25	18.15	18.37	18.08	20.00
		50	0	18.09	18.30	18.12	20.00
		1	0	18.08	18.20	17.95	20.00
		1	25	18.17	18.22	18.04	20.00
		1	49	18.08	18.23	17.97	20.00
	64QAM	25	0	18.12	18.16	18.03	20.00
		25	13	18.11	18.27	18.08	20.00
		25	25	18.24	18.20	18.11	20.00
		50	0	18.09	18.13	17.96	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	18.39	18.51	18.28	20.00



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				I	1	I	T
		1	38	18.08	18.23	18.01	20.00
		1	74	18.02	18.06	18.04	20.00
		36	0	18.17	18.23	18.17	20.00
		36	18	18.00	18.19	18.06	20.00
		36	39	18.13	18.21	18.06	20.00
		75	0	18.18	18.22	18.23	20.00
		1	0	18.11	18.16	18.14	20.00
		1	38	18.12	18.30	18.09	20.00
		1	74	18.31	18.35	18.29	20.00
	16QAM	36	0	18.17	18.13	18.08	20.00
		36	18	18.03	18.21	18.06	20.00
		36	39	18.14	18.29	18.15	20.00
		75	0	18.18	18.19	18.08	20.00
		1	0	18.04	18.29	17.92	20.00
		1	38	18.19	18.24	18.00	20.00
		1	74	18.06	18.10	18.08	20.00
	64QAM	36	0	18.20	18.21	18.08	20.00
		36	18	18.16	18.20	18.09	20.00
		36	39	18.17	18.29	18.09	20.00
		75	0	18.00	18.10	18.08	20.00
		55 .	55 %	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	18.37	18.55	18.40	20.00
		1	50	18.02	18.32	18.06	20.00
		1	99	18.09	18.11	18.00	20.00
	QPSK	50	0	18.10	18.35	18.13	20.00
		50	25	18.06	18.24	18.20	20.00
		50	50	18.17	18.22	18.05	20.00
		100	0	18.17	18.16	18.24	20.00
		1	0	18.18	18.21	18.15	20.00
		1	50	18.22	18.15	18.09	20.00
		1	99	18.25	18.34	18.16	20.00
20MHz	16QAM	50	0	18.18	18.18	18.04	20.00
		50	25	18.02	18.07	18.03	20.00
		50	50	18.17	18.39	18.10	20.00
		100	0	18.12	18.31	18.05	20.00
		1	0	18.15	18.15	18.00	20.00
		1	50	18.18	18.20	18.05	20.00
		1	99	18.11	18.16	18.10	20.00
	64QAM	50	0	18.10	18.18	18.10	20.00
		50	25	18.11	18.13	18.18	20.00
							1
		50	50	18.18	18.27	18.16	20.00



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	LTE Band 4	Senosr on			Conducted	Power(dBm)	
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up
		1	0	21.25	21.38	21.38	22.00
		1	2	21.38	21.33	21.39	22.00
		1	5	21.37	21.30	21.34	22.00
	QPSK	3	0	21.06	21.25	21.23	22.00
		3	2	21.18	21.09	21.22	22.00
		3	3	21.21	21.17	21.22	22.00
		6	0	20.97	20.93	20.97	22.00
		1	0	21.06	21.22	21.04	22.00
		1	2	20.93	21.07	21.03	22.00
		1	5	21.02	21.19	21.05	22.00
1.4MHz	16QAM	3	0	21.16	21.08	21.16	22.00
		3	2	20.95	21.15	21.23	22.00
		3	3	21.13	21.02	21.09	22.00
		6	0	20.94	20.98	21.04	22.00
		1	0	20.52	20.56	20.54	22.00
		1	2	20.72	20.44	20.46	22.00
		1	5	20.77	21.05	20.67	22.00
	64QAM	3	0	20.69	20.89	20.45	22.00
		3	2	20.71	20.83	20.99	22.00
		3	3	20.61	20.98	20.44	22.00
		6	0	20.84	20.78	20.80	22.00
			DD (f. )	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	21.31	21.39	21.43	22.00
		1	7	21.43	21.33	21.34	22.00
		1	14	21.46	21.42	21.31	22.00
	QPSK	8	0	21.03	21.24	21.23	22.00
		8	4	21.09	21.06	21.23	22.00
		8	7	21.27	21.13	21.20	22.00
		15	0	20.98	20.95	20.94	22.00
		1	0	21.09	21.24	21.10	22.00
		1	7	20.93	21.01	21.06	22.00
		1	14	21.06	21.12	21.12	22.00
3MHz	16QAM	8	0	21.17	21.09	21.06	22.00
		8	4	20.98	21.15	21.11	22.00
		8	7	21.02	21.10	21.08	22.00
		15	0	20.98	20.99	20.91	22.00
		1	0	20.45	20.51	20.41	22.00
		1	7	20.74	20.47	20.53	22.00
		1	14	20.85	20.98	20.70	22.00
	64QAM	8	0	20.64	20.85	20.46	22.00
		8	4	20.84	20.78	20.93	22.00
		8	7	20.54	20.97	20.40	22.00
		15	0	20.76	20.73	20.82	22.00



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset				Tune up
		4	•	19975	20175	20375	00.00
		1	0	21.25	21.37	21.44	22.00
		1	13	21.38	21.29	21.30	22.00
		1	24	21.41	21.43	21.37	22.00
	QPSK	12	0	21.03	21.28	21.14	22.00
		12	6	21.11	21.08	21.22	22.00
		12	13	21.28	21.11	21.12	22.00
		25	0	20.95	20.94	21.04	22.00
		1	0	21.05	21.23	21.11	22.00
		1	13	20.99	20.98	21.02	22.00
		1	24	21.03	21.21	21.01	22.00
5MHz	16QAM	12	0	21.08	20.97	21.05	22.00
		12	6	20.94	21.11	21.21	22.00
		12	13	21.08	21.03	21.17	22.00
		25	0	20.95	21.02	21.00	22.00
		1	0	20.53	20.53	20.45	22.00
		1	13	20.80	20.55	20.51	22.00
		1	24	20.84	20.97	20.65	22.00
	64QAM	12	0	20.66	20.82	20.45	22.00
		12	6	20.84	20.84	20.88	22.00
		12	13	20.57	20.87	20.40	22.00
		25	0	20.76	20.77	20.83	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiatii	Wodulation	IND SIZE	IND Offset	20000	20175	20350	rune up
		1	0	21.32	21.40	21.40	22.00
		1	25	21.35	21.31	21.30	22.00
		1	49	21.38	21.28	21.36	22.00
	QPSK	25	0	21.03	21.20	21.15	22.00
		25	13	21.08	21.12	21.11	22.00
		25	25	21.19	21.22	21.20	22.00
		50	0	20.90	20.90	21.00	22.00
		1	0	21.04	21.20	21.02	22.00
		1	25	20.94	21.02	21.04	22.00
		1	49	21.04	21.19	21.00	22.00
10MHz	16QAM	25	0	21.20	20.99	21.17	22.00
		25	13	21.04	21.24	21.11	22.00
		25	25	21.03	21.08	21.10	22.00
		50	0	20.94	20.94	21.00	22.00
		1	0	20.49	20.48	20.52	22.00
		1	25	20.82	20.49	20.47	22.00
		1	49	20.77	21.06	20.70	22.00
	64QAM	25	0	20.64	20.85	20.57	22.00
		25	13	20.73	20.77	20.88	22.00
		25	25	20.61	20.89	20.49	22.00
		50	0	20.74	20.75	20.89	22.00
Don't 110	Marshall C		DD " 1	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20025	20175	20325	Tune up
15MHz	QPSK	1	0	21.23	21.44	21.40	22.00



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				I	1	I	
		1	38	21.33	21.41	21.36	22.00
		1	74	21.34	21.34	21.32	22.00
		36	0	21.12	21.30	21.16	22.00
		36	18	21.10	21.17	21.24	22.00
		36	39	21.16	21.10	21.24	22.00
		75	0	20.90	20.92	20.95	22.00
		1	0	21.07	21.26	21.14	22.00
		1	38	20.96	21.08	21.06	22.00
		1	74	21.13	21.17	21.06	22.00
	16QAM	36	0	21.15	21.02	21.11	22.00
		36	18	21.00	21.12	21.13	22.00
		36	39	21.08	21.10	21.09	22.00
		75	0	20.97	20.95	21.00	22.00
		1	0	20.49	20.51	20.56	22.00
		1	38	20.74	20.44	20.59	22.00
		1	74	20.77	21.02	20.63	22.00
	64QAM	36	0	20.74	20.77	20.46	22.00
		36	18	20.71	20.89	20.96	22.00
		36	39	20.56	20.91	20.41	22.00
		75	0	20.75	20.80	20.90	22.00
		55 .	55 %	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	21.31	21.49	21.33	22.00
		1	50	21.33	21.39	21.37	22.00
		1	99	21.42	21.35	21.32	22.00
	QPSK	50	0	21.10	21.26	21.26	22.00
		50	25	21.17	21.18	21.21	22.00
		50	50	21.18	21.21	21.13	22.00
		100	0	20.93	21.02	20.98	22.00
		1	0	20.97	21.25	21.05	22.00
		1	50	20.98	21.06	21.01	22.00
		1	99	21.04	21.11	21.07	22.00
20MHz	16QAM	50	0	21.10	21.08	21.18	22.00
		50	25	21.01	21.20	21.17	22.00
		50	50	21.05	21.01	21.11	22.00
		100	0	20.96	21.08	20.94	22.00
		1	0	20.41	20.58	20.52	22.00
		1	50	20.86	20.52	20.51	22.00
		1	99	20.86	20.94	20.71	22.00
	64QAM	50	0	20.78	20.90	20.47	22.00
		50	25	20.80	20.76	21.00	22.00
			1				22.00
		50	50	20.60	20.93	20.37	22 00



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	LTE Band	i 5 All off			Conducted	Conducted Power(dBm)				
				Channel	Channel	Channel				
Bandwidth	Modulation	RB size	RB offset	20407	20525	20643	Tune up			
		1	0	23.87	23.90	23.79	25.00			
		 1	2	23.80	23.86	23.80	25.00			
		1	5	23.83	23.83	23.77	25.00			
	QPSK	3	0	22.99	22.95	22.91	24.00			
		3	2	22.98	22.95	22.94	24.00			
		3	3	22.98	22.90	22.90	24.00			
		6	0	22.98	22.95	22.88	24.00			
		1	0	22.97	22.93	22.86	24.00			
		1	2	22.98	22.95	22.89	24.00			
		1	5	22.96	22.96	22.89	24.00			
1.4MHz	16QAM	3	0	21.96	21.92	21.92	23.00			
		3	2	21.98	21.98	21.92	23.00			
		3	3	21.99	21.96	21.88	23.00			
		6	0	21.94	21.95	21.91	23.00			
		1	0	21.62	21.39	21.34	23.00			
		1	2	21.47	21.56	21.79	23.00			
		1	5	21.49	21.43	21.38	23.00			
	64QAM	3	0	20.68	20.44	20.61	22.00			
		3	2	20.49	20.69	20.54	22.00			
		3	3	20.39	20.47	20.44	22.00			
		6	0	20.68	20.40	20.52	22.00			
			55 %	Channel	Channel	Channel	_			
Bandwidth	Modulation	RB size	RB offset	20415	20525	20635	Tune up			
		1	0	23.87	23.88	23.76	25.00			
		1	7	23.86	23.86	23.79	25.00			
		1	14	23.84	23.86	23.76	25.00			
	QPSK	8	0	22.96	22.93	22.93	24.00			
		8	4	22.97	22.93	22.90	24.00			
		8	7	22.99	22.91	22.92	24.00			
		15	0	22.98	22.96	22.89	24.00			
		1	0	22.98	22.93	22.88	24.00			
		1	7	22.97	22.93	22.90	24.00			
		1	14	23.00	22.96	22.89	24.00			
3MHz	16QAM	8	0	21.97	21.98	21.89	23.00			
		8	4	21.99	21.93	21.92	23.00			
		8	7	21.95	21.95	21.89	23.00			
		15	0	21.96	21.93	21.91	23.00			
		11	0	21.48	21.57	21.68	23.00			
		1	7	21.86	21.42	21.52	23.00			
		11	14	21.72	21.56	21.40	23.00			
	64QAM	8	0	20.49	20.52	20.56	22.00			
		8	4	20.61	20.70	20.55	22.00			
		8	7	20.78	20.63	20.74	22.00			
		15	0	20.76	20.43	20.61	22.00			



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	23.84	23.85	23.79	25.00
		1	13	23.87	23.85	23.75	25.00
		1	24	23.84	23.86	23.77	25.00
	QPSK	12	0	22.98	22.95	22.95	24.00
		12	6	22.98	22.90	22.90	24.00
		12	13	22.96	22.92	22.93	24.00
		25	0	23.00	22.95	22.88	24.00
		1	0	23.00	22.98	22.91	24.00
		1	13	22.98	22.98	22.90	24.00
		1	24	22.97	22.96	22.89	24.00
5MHz	16QAM	12	0	21.98	21.96	21.92	23.00
		12	6	21.99	21.97	21.91	23.00
		12	13	22.00	21.94	21.92	23.00
		25	0	21.95	21.97	21.89	23.00
		1	0	21.43	21.51	21.70	23.00
		1	13	21.84	21.65	21.39	23.00
		1	24	21.84	21.61	21.65	23.00
	64QAM	12	0	20.83	20.70	20.42	22.00
		12	6	20.41	20.44	20.67	22.00
		12	13	20.61	20.67	20.50	22.00
		25	0	20.53	20.41	20.39	22.00
Dander delta				Channel	Channel	Channel	_
- Rangwigth	Modulation	RR ciza	RR offect				Tungun
Bandwidth	Modulation	RB size	RB offset	20450	20525	20600	Tune up
Bandwidth	Modulation	RB size	RB offset		20525 23.96		25.00
Bandwidth	Modulation		0 25	20450		20600	·
Bandwidth	Modulation	1 1 1	0 25 49	20450 23.83 23.87 23.86	23.96 23.86 23.87	20600 23.79 23.78 23.76	25.00 25.00 25.00
Bandwidth	Modulation QPSK	1 1 1 25	0 25 49 0	20450 23.83 23.87	23.96 23.86	20600 23.79 23.78	25.00 25.00 25.00 24.00
Banowioth		1 1 1 25 25	0 25 49 0 13	20450 23.83 23.87 23.86 22.98 23.00	23.96 23.86 23.87	20600 23.79 23.78 23.76	25.00 25.00 25.00 24.00 24.00
Banowioth		1 1 1 25 25 25	0 25 49 0 13 25	20450 23.83 23.87 23.86 22.98 23.00 22.98	23.96 23.86 23.87 22.98 22.96	20600 23.79 23.78 23.76 22.94 22.93 22.93	25.00 25.00 25.00 24.00 24.00 24.00
Banowioth		1 1 1 25 25 25 25 50	0 25 49 0 13 25	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94	23.96 23.86 23.87 22.98 22.96 22.96 22.90	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86	25.00 25.00 25.00 24.00 24.00 24.00 24.00
Bandwidth		1 1 1 25 25 25 25 50	0 25 49 0 13 25 0	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97	23.96 23.86 23.87 22.98 22.96 22.96 22.90 22.97	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00
Banowioth		1 1 1 25 25 25 25 50 1	0 25 49 0 13 25 0 0	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97	23.96 23.86 23.87 22.98 22.96 22.96 22.90 22.97	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00
	QPSK	1 1 1 25 25 25 50 1 1	0 25 49 0 13 25 0 0 25 49	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.98	23.96 23.86 23.87 22.98 22.96 22.96 22.90 22.97 22.97	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87 22.90	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00
Bandwidth 10MHz		1 1 1 25 25 25 25 50 1 1 1 25	0 25 49 0 13 25 0 0 25 49	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.97 22.98 21.94	23.96 23.86 23.87 22.98 22.96 22.96 22.90 22.97 22.97 22.97 21.93	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87 22.90 21.87	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00
	QPSK	1 1 1 25 25 25 25 50 1 1 1 25 25	0 25 49 0 13 25 0 0 25 49 0	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.97 22.98 21.94 22.00	23.96 23.86 23.87 22.98 22.96 22.96 22.90 22.97 22.97 22.97 21.93 21.97	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87 22.90 21.87 21.86	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00
	QPSK	1 1 1 25 25 25 50 1 1 1 25 25 25	0 25 49 0 13 25 0 0 25 49 0	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.97 22.98 21.94 22.00 21.97	23.96 23.86 23.87 22.98 22.96 22.90 22.97 22.97 22.97 21.93 21.97 21.96	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87 22.90 21.87 21.86 21.92	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00
	QPSK	1 1 1 25 25 25 50 1 1 1 25 25 25 50	0 25 49 0 13 25 0 0 25 49 0 13 25 0	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.98 21.94 22.00 21.97 22.00	23.96 23.86 23.87 22.98 22.96 22.96 22.97 22.97 22.97 21.93 21.97 21.96 21.95	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.87 22.87 22.90 21.87 21.86 21.92 21.90	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00
	QPSK	1 1 1 25 25 25 50 1 1 1 25 25 25 25 50 1 1	0 25 49 0 13 25 0 0 25 49 0 13 25 0	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.98 21.94 22.00 21.97 22.00 21.47	23.96 23.86 23.87 22.98 22.96 22.96 22.97 22.97 22.97 21.93 21.97 21.96 21.95 21.73	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87 22.90 21.87 21.86 21.92 21.90 21.34	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00
	QPSK	1 1 1 25 25 25 25 50 1 1 1 25 25 25 25 25 25	0 25 49 0 13 25 0 0 25 49 0 13 25 0 0	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.98 21.94 22.00 21.97 22.00 21.47 21.80	23.96 23.86 23.87 22.98 22.96 22.96 22.97 22.97 22.97 21.93 21.97 21.96 21.95 21.73 21.57	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87 22.90 21.87 21.86 21.92 21.34 21.53	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
	QPSK 16QAM	1 1 1 25 25 25 50 1 1 1 25 25 25 25 25 25 1 1 1 1 1 25 25 25 25 25 25 25 25 25 25 25 25 25	0 25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.98 21.94 22.00 21.97 22.00 21.47 21.80 21.65	23.96 23.86 23.87 22.98 22.96 22.96 22.97 22.97 21.93 21.97 21.96 21.95 21.73 21.57 21.56	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87 22.90 21.87 21.86 21.92 21.90 21.34 21.53 21.71	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
	QPSK	1 1 1 25 25 25 50 1 1 1 25 25 25 50 1 1 1 25 25 25	0 25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49 0	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.98 21.94 22.00 21.97 22.00 21.47 21.80 21.65 20.70	23.96 23.86 23.87 22.98 22.96 22.96 22.97 22.97 22.97 21.93 21.97 21.96 21.95 21.56 20.64	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87 22.90 21.87 21.86 21.92 21.90 21.34 21.53 21.71 20.35	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
	QPSK 16QAM	1 1 1 25 25 25 50 1 1 1 25 25 50 1 1 1 25 25 50 1 1 1 1 25 25	0 25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49 0 25	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.98 21.94 22.00 21.97 22.00 21.47 21.80 21.65 20.70 20.76	23.96 23.86 23.87 22.98 22.96 22.96 22.97 22.97 22.97 21.93 21.97 21.96 21.73 21.57 21.56 20.64 20.36	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87 22.90 21.87 21.86 21.92 21.90 21.34 21.53 21.71 20.35 20.73	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00
	QPSK 16QAM	1 1 1 25 25 25 50 1 1 1 25 25 25 50 1 1 1 25 25 25	0 25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49 0	20450 23.83 23.87 23.86 22.98 23.00 22.98 22.94 22.97 22.97 22.98 21.94 22.00 21.97 22.00 21.47 21.80 21.65 20.70	23.96 23.86 23.87 22.98 22.96 22.96 22.97 22.97 22.97 21.93 21.97 21.96 21.95 21.56 20.64	20600 23.79 23.78 23.76 22.94 22.93 22.93 22.86 22.89 22.87 22.90 21.87 21.86 21.92 21.90 21.34 21.53 21.71 20.35	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00



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	LTE FDD Ba	nd 12 All off		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173	Tune up	
		1	0	24.31	24.46	24.33	25.50	
		1	2	24.48	24.28	24.45	25.50	
		1	5	24.33	24.37	24.41	25.50	
	QPSK	3	0	23.38	23.47	23.38	24.50	
		3	2	23.33	23.40	23.47	24.50	
		3	3	23.43	23.47	23.36	24.50	
		6	0	23.49	23.47	23.36	24.50	
		1	0	23.50	23.35	23.41	24.50	
		1	2	23.44	23.39	23.34	24.50	
		1	5	23.45	23.37	23.47	24.50	
1.4MHz	16QAM	3	0	22.39	22.33	22.34	23.50	
		3	2	22.41	22.47	22.37	23.50	
		3	3	22.43	22.36	22.25	23.50	
		6	0	22.43	22.43	22.38	23.50	
		1	0	22.03	21.98	22.22	23.50	
		1	2	22.44	21.96	22.18	23.50	
		1	5	21.98	22.10	22.33	23.50	
	64QAM	3	0	21.14	21.05	21.06	22.50	
		3	2	21.07	20.98	21.34	22.50	
		3	3	21.00	21.13	21.20	22.50	
		6	0	21.22	20.95	21.14	22.50	
Bandwidth	Modulation	DD size	RB offset	Channel	Channel	Channel	Tuna un	
Dandwidth	Modulation	RB size	RD Ollset	23025	23095	23165	Tune up	
		1	0	24.36	24.48	24.45	25.50	
			_	24.40	04.40	24.39	25.50	
		1	7	24.40	24.42	24.39	20.00	
		1 1	7 14	24.40	24.42	24.39	25.50	
	QPSK	-	-					
	QPSK	1	14	24.39	24.36	24.39	25.50	
	QPSK	1 8 8 8	14 0 4 7	24.39 23.39 23.35 23.33	24.36 23.42 23.45 23.49	24.39 23.44 23.47 23.46	25.50 24.50 24.50 24.50	
	QPSK	1 8 8	14 0 4	24.39 23.39 23.35 23.33 23.47	24.36 23.42 23.45 23.49 23.37	24.39 23.44 23.47 23.46 23.45	25.50 24.50 24.50 24.50 24.50	
	QPSK	1 8 8 8	14 0 4 7	24.39 23.39 23.35 23.33	24.36 23.42 23.45 23.49	24.39 23.44 23.47 23.46	25.50 24.50 24.50 24.50	
	QPSK	1 8 8 8 8	14 0 4 7 0	24.39 23.39 23.35 23.33 23.47	24.36 23.42 23.45 23.49 23.37	24.39 23.44 23.47 23.46 23.45	25.50 24.50 24.50 24.50 24.50	
		1 8 8 8 8 15	14 0 4 7 0 0 0 7	24.39 23.39 23.35 23.33 23.47 23.45 23.50 23.40	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37	25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50	
ЗМНz	QPSK 16QAM	1 8 8 8 8 15 1 1 1	14 0 4 7 0 0 7 14 0	24.39 23.39 23.35 23.47 23.45 23.50 23.40 22.47	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24	25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50	
3MHz		1 8 8 8 8 15 1 1 1 1 8 8	14 0 4 7 0 0 0 7 14 0 4	24.39 23.39 23.35 23.33 23.47 23.45 23.50 23.40 22.47 22.34	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46 22.45	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24 22.42	25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50	
ЗМНz		1 8 8 8 15 1 1 1 1 8 8	14 0 4 7 0 0 0 7 14 0 4 7	24.39 23.39 23.35 23.33 23.47 23.45 23.50 23.40 22.47 22.34 22.47	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46 22.45 22.41	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24 22.42 22.28	25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50	
ЗМН		1 8 8 8 8 15 1 1 1 1 8 8	14 0 4 7 0 0 0 7 14 0 4 7	24.39 23.39 23.35 23.33 23.47 23.45 23.50 23.40 22.47 22.34 22.47 22.43	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46 22.45 22.41 22.41	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24 22.42 22.28 22.40	25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50	
ЗМНz		1 8 8 8 8 15 1 1 1 1 8 8 8 8	14 0 4 7 0 0 0 7 14 0 4 7 0	24.39 23.39 23.35 23.33 23.47 23.45 23.50 23.40 22.47 22.34 22.47 22.43 22.02	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46 22.45 22.41 22.41 21.93	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24 22.42 22.28 22.40 22.21	25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50	
3MHz		1 8 8 8 8 15 1 1 1 8 8 8 15 15 1	14 0 4 7 0 0 0 7 14 0 4 7 0 0	24.39 23.39 23.35 23.33 23.47 23.45 23.50 23.40 22.47 22.34 22.47 22.43 22.02 22.49	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46 22.45 22.41 22.41 21.93 21.97	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24 22.42 22.28 22.40 22.21 22.03	25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50	
ЗМНz	16QAM	1 8 8 8 8 15 1 1 1 8 8 8 8 15 1 1 1 1	14 0 4 7 0 0 0 7 14 0 4 7 0 0 0 7	24.39 23.39 23.35 23.33 23.47 23.45 23.50 23.40 22.47 22.34 22.47 22.43 22.02 22.49 22.09	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46 22.45 22.41 21.93 21.97 22.12	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24 22.42 22.28 22.40 22.21 22.03 22.22	25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50	
ЗМН		1 8 8 8 8 15 1 1 1 1 8 8 8 15 1 1 1 1 1	14 0 4 7 0 0 0 7 14 0 4 7 0 0 0 7	24.39 23.39 23.35 23.33 23.47 23.45 23.50 23.40 22.47 22.34 22.47 22.43 22.02 22.49 22.09 21.17	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46 22.45 22.41 21.93 21.97 22.12 21.13	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24 22.28 22.40 22.21 22.03 22.22 20.96	25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50	
3MHz	16QAM	1 8 8 8 15 1 1 1 1 8 8 8 15 1 1 1 1 1 1	14 0 4 7 0 0 0 7 14 0 4 7 0 0 7 14 0 0 4 7 0 0 4 7 0 0 4 7 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	24.39 23.39 23.35 23.33 23.47 23.45 23.50 23.40 22.47 22.34 22.47 22.43 22.02 22.49 22.09 21.17 21.11	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46 22.45 22.41 21.93 21.97 22.12 21.13 20.99	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24 22.42 22.28 22.40 22.21 22.03 22.22 20.96 21.30	25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50	
ЗМН2	16QAM	1 8 8 8 15 1 1 1 1 8 8 8 15 1 1 1 1 1 1	14 0 4 7 0 0 7 14 0 4 7 0 0 7 14 0 4 7 0 0 4 7 0 0 4 7 0 0 0 4 7 0 0 0 0 0 0 0 0 0 0 0 0 0	24.39 23.39 23.35 23.35 23.47 23.45 23.50 23.40 22.47 22.34 22.47 22.43 22.02 22.49 22.09 21.17 21.11 20.93	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46 22.45 22.41 21.93 21.97 22.12 21.13 20.99 21.09	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24 22.42 22.28 22.40 22.21 22.03 22.22 20.96 21.30 21.15	25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50	
3MHz Bandwidth	16QAM	1 8 8 8 15 1 1 1 1 8 8 8 15 1 1 1 1 1 1	14 0 4 7 0 0 0 7 14 0 4 7 0 0 7 14 0 0 4 7 0 0 4 7 0 0 4 7 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	24.39 23.39 23.35 23.33 23.47 23.45 23.50 23.40 22.47 22.34 22.47 22.43 22.02 22.49 22.09 21.17 21.11	24.36 23.42 23.45 23.49 23.37 23.48 23.48 23.43 22.46 22.45 22.41 21.93 21.97 22.12 21.13 20.99	24.39 23.44 23.47 23.46 23.45 23.36 23.43 23.37 22.24 22.42 22.28 22.40 22.21 22.03 22.22 20.96 21.30	25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50	



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				23035	22005	23155	
		1	0	23035	23095 24.45	23155	25.50
		1	13 24	24.37	24.36 24.45	24.38 24.41	25.50 25.50
	ODCK			24.33			
	QPSK	12 12	0	23.34	23.44	23.45	24.50
			6	23.41	23.45	23.47	24.50
		12	13	23.50	23.34	23.49	24.50
		25	0	23.48	23.44	23.46	24.50
		1	0	23.48	23.44	23.41	24.50
		1	13	23.48	23.45	23.44	24.50
58411-	400 414	1	24	23.39	23.44	23.49	24.50
5MHz	16QAM	12	0	22.38	22.37	22.41	23.50
		12	6	22.39	22.43	22.30	23.50
		12	13	22.44	22.43	22.26	23.50
		25	0	22.34	22.38	22.29	23.50
		1	0	21.90	21.93	22.09	23.50
		1	13	22.47	21.95	22.17	23.50
		1	24	22.08	22.18	22.26	23.50
	64QAM	12	0	21.18	20.99	21.04	22.50
		12	6	21.05	21.00	21.27	22.50
		12	13	20.94	21.05	21.23	22.50
		25	0	21.21	21.06	21.23	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				23060	23095	23130	
		1			0.1.10	24.00	05.50
		1	0	24.40	24.49	24.39	25.50
		1	25	24.40 24.43	24.43	24.42	25.50
	9504	1 1	25 49	24.40 24.43 24.43	24.43 24.35	24.42 24.26	25.50 25.50
	QPSK	1 1 25	25 49 0	24.40 24.43 24.43 23.42	24.43 24.35 23.46	24.42 24.26 23.40	25.50 25.50 24.50
	QPSK	1 1 25 25	25 49 0 13	24.40 24.43 24.43 23.42 23.47	24.43 24.35 23.46 23.38	24.42 24.26 23.40 23.49	25.50 25.50 24.50 24.50
	QPSK	1 1 25 25 25	25 49 0 13 25	24.40 24.43 24.43 23.42 23.47 23.35	24.43 24.35 23.46 23.38 23.36	24.42 24.26 23.40 23.49 23.45	25.50 25.50 24.50 24.50 24.50
	QPSK	1 1 25 25 25 25 50	25 49 0 13 25 0	24.40 24.43 24.43 23.42 23.47 23.35 23.42	24.43 24.35 23.46 23.38 23.36 23.48	24.42 24.26 23.40 23.49 23.45 23.38	25.50 25.50 24.50 24.50 24.50 24.50
	QPSK	1 1 25 25 25 25 50	25 49 0 13 25 0	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39	24.43 24.35 23.46 23.38 23.36 23.48 23.46	24.42 24.26 23.40 23.49 23.45 23.38 23.42	25.50 25.50 24.50 24.50 24.50 24.50 24.50
	QPSK	1 1 25 25 25 25 50 1	25 49 0 13 25 0 0 25	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50
40		1 1 25 25 25 25 50 1 1	25 49 0 13 25 0 0 25 49	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50
10MHz	QPSK 16QAM	1 1 25 25 25 25 50 1 1 1 25	25 49 0 13 25 0 0 25 49 0	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45 22.46	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39 22.44	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48 22.32	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50
10MHz		1 1 25 25 25 50 1 1 1 25 25	25 49 0 13 25 0 0 25 49 0 13	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45 22.46 22.37	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39 22.44 22.47	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48 22.32 22.27	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50
10MHz		1 1 25 25 25 50 1 1 1 25 25 25	25 49 0 13 25 0 0 25 49 0 13 25	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45 22.46 22.37 22.46	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39 22.44 22.47 22.37	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48 22.32 22.27 22.24	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50
10MHz		1 1 25 25 25 50 1 1 1 25 25 25 25 25	25 49 0 13 25 0 0 25 49 0 13 25 0	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45 22.46 22.37 22.46 22.45	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39 22.44 22.47 22.37 22.44	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48 22.32 22.27 22.24 22.29	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50
10MHz		1 1 25 25 25 50 1 1 1 25 25 25 25 25 25	25 49 0 13 25 0 0 25 49 0 13 25 0	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45 22.46 22.37 22.46 22.45 21.91	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39 22.44 22.47 22.37 22.44 21.91	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48 22.32 22.27 22.24 22.29 22.10	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50
10MHz		1 1 25 25 25 50 1 1 1 25 25 25 25 50 1 1 1 1 1 25	25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49 0 25	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45 22.46 22.37 22.46 22.45 21.91 22.40	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39 22.44 22.47 22.37 22.44 21.91 21.95	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48 22.32 22.27 22.24 22.29 22.10 22.16	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50
10MHz	16QAM	1 1 25 25 25 50 1 1 1 25 25 25 50 1 1 1 1 1 1 25 25 25 25 25 25 25 25 25 25 25 25 25	25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49 0 13 25 49 0 13 25 49 0 13 25 49 0 13 25 49 49 49 40 40 40 40 40 40 40 40 40 40	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45 22.46 22.37 22.46 22.45 21.91 22.40 22.05	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39 22.44 22.47 22.37 22.44 21.91 21.95 22.19	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48 22.32 22.27 22.24 22.29 22.10 22.16 22.19	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50
10MHz		1 1 25 25 25 50 1 1 1 25 25 25 50 1 1 1 25 25	25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49 0 13 25 0	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45 22.46 22.37 22.46 22.45 21.91 22.40 22.05 21.29	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39 22.44 22.47 22.37 22.44 21.91 21.95 22.19 21.09	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48 22.32 22.27 22.24 22.29 22.10 22.16 22.19 20.96	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50
10MHz	16QAM	1 1 25 25 25 50 1 1 1 25 25 50 1 1 1 25 25 50 1 1 1 25 25 50 50 50 50 50 50 50 50 50 50 50 50 50	25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49 0 13 25 0 0 13 25 0 13 25 0 13 25 49 0 13 13 13 13 13 13 13 13 13 13	24.40 24.43 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45 22.46 22.37 22.46 22.45 21.91 22.40 22.05 21.29 21.14	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39 22.44 22.47 22.37 22.47 22.37 22.44 21.91 21.95 22.19 21.09 21.02	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48 22.32 22.27 22.24 22.29 22.10 22.16 22.19 20.96 21.21	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50
10MHz	16QAM	1 1 25 25 25 50 1 1 1 25 25 25 50 1 1 1 25 25	25 49 0 13 25 0 0 25 49 0 13 25 0 0 25 49 0 13 25 0	24.40 24.43 24.43 23.42 23.47 23.35 23.42 23.39 23.42 23.45 22.46 22.37 22.46 22.45 21.91 22.40 22.05 21.29	24.43 24.35 23.46 23.38 23.36 23.48 23.46 23.41 23.39 22.44 22.47 22.37 22.44 21.91 21.95 22.19 21.09	24.42 24.26 23.40 23.49 23.45 23.38 23.42 23.40 23.48 22.32 22.27 22.24 22.29 22.10 22.16 22.19 20.96	25.50 25.50 24.50 24.50 24.50 24.50 24.50 24.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50 23.50



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	LTE Band	25 All off			Conducted	Power(dBm)	
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	26047	26365	26683	Tune up
		1	0	23.65	23.82	23.65	25.50
		<u>.</u> 1	2	23.65	23.75	23.69	25.50
		1	5	23.67	23.64	23.68	25.50
	QPSK	3	0	22.91	22.88	22.91	24.50
		3	2	22.82	22.92	22.88	24.50
		3	3	22.82	22.87	22.94	24.50
		6	0	22.73	22.76	22.77	24.50
		1	0	22.78	22.83	22.83	24.50
		1	2	22.80	22.74	22.71	24.50
		1	5	22.79	22.84	22.76	24.50
1.4MHz	16QAM	3	0	21.92	21.95	21.86	23.50
		3	2	21.87	21.85	21.99	23.50
		3	3	21.96	21.88	21.96	23.50
		6	0	21.86	21.87	22.04	23.50
		1	0	21.53	21.64	21.24	23.50
		1	2	21.47	21.46	21.23	23.50
		1	5	21.44	21.58	21.66	23.50
	64QAM	3	0	20.53	20.46	20.24	22.50
		3	2	20.63	20.39	20.68	22.50
		3	3	20.40	20.25	20.59	22.50
		6	0	20.40	20.56	20.33	22.50
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	26055	26365	26675	Tune up
		1	0	23.75	23.83	23.69	25.50
		1	7	23.77	23.66	23.67	25.50
		1	14	23.75	23.67	23.59	25.50
	QPSK	8	0	22.89	22.91	22.83	24.50
		8	4	22.91	22.91	22.87	24.50
		8	7	22.90	22.93	22.88	24.50
		15	0	22.65	22.74	22.72	24.50
		1	0	22.78	22.76	22.77	24.50
		1	7	22.69	22.84	22.73	24.50
		1	14	22.77	22.78	22.80	24.50
3MHz	16QAM	8	0	21.89	21.82	21.96	23.50
		8	4	21.98	21.83	21.99	23.50
		8	7	21.96	21.86	21.93	23.50
		15	0	21.94	21.88	22.02	23.50
		1	0	21.52	21.67	21.20	23.50
		1	7	21.40	21.48	21.17	23.50
		1	14	21.41	21.63	21.55	23.50
	64QAM	8	0	20.53	20.53	20.15	22.50
		8	4	20.69	20.44	20.57	22.50
		8	7	20.42	20.30	20.57	22.50
		15	0	20.37	20.62	20.33	22.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		112 312		26065	26365	26665	
		1	0	23.67	23.82	23.70	25.50
		1	13	23.66	23.66	23.66	25.50
		1	24	23.73	23.69	23.69	25.50
	QPSK	12	0	22.78	23.00	22.84	24.50
		12	6	22.92	22.89	22.89	24.50
		12	13	22.88	22.83	22.82	24.50
		25	0	22.76	22.69	22.74	24.50
		1	0	22.72	22.70	22.80	24.50
		1	13	22.80	22.77	22.68	24.50
		1	24	22.83	22.80	22.77	24.50
5MHz	16QAM	12	0	21.92	21.92	21.96	23.50
		12	6	21.90	21.91	21.86	23.50
		12	13	21.99	21.85	21.84	23.50
		25	0	21.89	21.81	21.98	23.50
		1	0	21.51	21.74	21.23	23.50
		1	13	21.40	21.48	21.15	23.50
		1	24	21.44	21.58	21.60	23.50
	64QAM	12	0	20.55	20.57	20.20	22.50
		12	6	20.70	20.40	20.70	22.50
		12	13	20.42	20.33	20.65	22.50
		25	0	20.32	20.58	20.28	22.50
Dan duri déla	Madulatian	DD size	DD affect	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	26090	26365	26640	Tune up
		1	0	23.75	23.72	23.62	25.50
		1	25	23.77	23.73	23.66	25.50
		1	49	23.76	23.74	23.74	25.50
	QPSK	25	0	22.92	22.87	22.89	24.50
		25	13	22.86	22.88	22.81	24.50
		25	25	22.85	22.87	22.81	24.50
		50	0	22.78	22.72	22.70	24.50
		1	0	22.72	22.72	22.77	24.50
		1	25	22.68	22.73	22.76	24.50
		1	49	22.71	22.76	22.76	24.50
10MHz	16QAM	25	0	21.86	21.86	21.95	23.50
		25	13	21.90	21.84	21.97	23.50
		25	25	21.88	21.90	21.91	23.50
		50	0	21.87	21.90	21.98	23.50
		1	0	21.54	21.64	21.15	23.50
		1	25	21.49	21.38	21.17	23.50
		1	49	21.44	21.58	21.64	23.50
	64QAM	25	0	20.54	20.44	20.13	22.50
		25	13	20.73	20.36	20.65	22.50
		25	25	20.39	20.37	20.71	22.50
		50	0	20.35	20.67	20.28	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
Danuwium	wodulation	IND SIZE	ND UIISEL	26115	26365	26615	Tune up
15MHz	QPSK	1	0	23.78	23.79	23.69	25.50



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	<u> </u>		1	I	T	I	T
		1	38	23.79	23.83	23.69	25.50
		1	74	23.71	23.76	23.70	25.50
		36	0	22.84	23.05	22.93	24.50
		36	18	22.92	22.88	22.90	24.50
		36	39	22.83	23.00	22.98	24.50
		75	0	22.78	22.75	22.73	24.50
		1	0	22.73	22.79	22.79	24.50
		1	38	22.78	22.88	22.79	24.50
		1	74	22.89	22.87	22.72	24.50
	16QAM	36	0	21.91	21.88	21.99	23.50
		36	18	22.01	21.96	21.97	23.50
		36	39	21.96	21.97	22.00	23.50
		75	0	22.01	21.87	22.01	23.50
		1	0	21.68	21.70	21.22	23.50
		1	38	21.50	21.40	21.18	23.50
		1	74	21.52	21.66	21.60	23.50
	64QAM	36	0	20.72	20.51	20.23	22.50
		36	18	20.78	20.47	20.64	22.50
		36	39	20.45	20.34	20.66	22.50
		75	0	20.43	20.74	20.32	22.50
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	26140	26365	26590	Tune up
		1	0	23.76	23.85	23.70	25.50
		1	50	23.75	23.78	23.70	25.50
		1	99	23.75	23.80	23.65	25.50
	QPSK	50	0	22.95	22.96	22.95	24.50
		50	25	22.84	22.92	22.83	24.50
		50	50	22.95	22.90	23.00	24.50
		100	0	22.70	22.80	22.80	24.50
		1	0	22.69	22.89	22.86	24.50
		1	50	22.82	22.87	22.71	24.50
		1	99	22.79	22.81	22.76	24.50
20MHz	16QAM	50	0	21.96	22.01	22.01	23.50
		50	25	21.99	21.98	22.02	23.50
		50	50	21.89	21.92	21.96	23.50
		100	0	22.03	21.99	22.01	23.50
		1	0	21.57	21.81	21.21	23.50
		1	50	21.55	21.52	21.24	23.50
		1	99	21.50	21.68	21.72	23.50
	1						22.50
	64QAM	50	0	1 20.61	20.49	/// /5	
	64QAM	50 50	0 25	20.61	20.49	20.25	
	64QAM	50 50 50	0 25 50	20.61 20.67 20.38	20.49 20.46 20.40	20.25 20.75 20.64	22.50 22.50 22.50



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	LTE Band 25	Receiver on			Conducted	Power(dBm)	
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	26047	26365	26683	Tune up
		1	0	19.47	19.66	19.49	20.50
		1	2	19.50	19.55	19.42	20.50
		1	5	19.42	19.38	19.51	20.50
	QPSK	3	0	19.60	19.61	19.44	20.50
		3	2	19.53	19.61	19.39	20.50
		3	3	19.44	19.58	19.33	20.50
		6	0	19.54	19.53	19.44	20.50
		1	0	19.52	19.55	19.52	20.50
		1	2	19.54	19.45	19.31	20.50
		1	5	19.53	19.65	19.45	20.50
1.4MHz	16QAM	3	0	19.54	19.53	19.53	20.50
		3	2	19.44	19.53	19.38	20.50
		3	3	19.51	19.62	19.37	20.50
		6	0	19.45	19.51	19.44	20.50
		1	0	19.55	19.53	19.40	20.50
		1	2	19.56	19.65	19.48	20.50
		1	5	19.58	19.59	19.43	20.50
	64QAM	3	0	19.56	19.55	19.28	20.50
		3	2	19.52	19.55	19.45	20.50
		3	3	19.45	19.61	19.54	20.50
		6	0	19.16	19.28	18.98	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwium	Modulation	KD SIZE	RB oliset	26055	26365	26675	Tune up
		1	0	19.42	19.54	19.46	20.50
		1	7	19.43	19.47	19.42	20.50
		1	14	19.46	19.47	19.49	20.50
	QPSK	8	0	19.61	19.59	19.42	20.50
		8	4	19.46	19.54	19.53	20.50
		8	7	19.42	19.56	19.41	20.50
		15	0	19.52	19.68	19.37	20.50
		1	0	19.55	19.54	19.55	20.50
		1	7	19.43	19.55	19.33	20.50
		1	14	19.61	19.59	19.43	20.50
3MHz	16QAM	8	0	19.49	19.63	19.45	20.50
		8	4	19.51	19.49	19.42	20.50
		8	7	19.49	19.57	19.44	20.50
		15	0	19.47	19.55	19.53	20.50
		1	0	19.50	19.47	19.44	20.50
		1	7	19.57	19.55	19.37	20.50
		1	14	19.57	19.48	19.41	20.50
	64QAM	8	0	19.51	19.53	19.34	20.50
		8	4	19.47	19.64	19.47	20.50
		8	7	19.59	19.48	19.51	20.50
		15	0	19.41	19.47	19.34	20.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		1.2 2.22		26065	26365	26665	·
		1	0	19.41	19.64	19.38	20.50
		1	13	19.55	19.39	19.52	20.50
		1	24	19.51	19.52	19.46	20.50
	QPSK	12	0	19.61	19.59	19.49	20.50
		12	6	19.47	19.51	19.48	20.50
		12	13	19.56	19.45	19.36	20.50
		25	0	19.53	19.64	19.40	20.50
		1	0	19.44	19.60	19.52	20.50
		1	13	19.47	19.55	19.33	20.50
		1	24	19.47	19.55	19.50	20.50
5MHz	16QAM	12	0	19.49	19.55	19.39	20.50
		12	6	19.55	19.49	19.44	20.50
		12	13	19.53	19.61	19.46	20.50
		25	0	19.46	19.51	19.45	20.50
		1	0	19.41	19.46	19.42	20.50
		1	13	19.62	19.59	19.45	20.50
		1	24	19.49	19.51	19.51	20.50
	64QAM	12	0	19.47	19.48	19.35	20.50
		12	6	19.55	19.62	19.50	20.50
		12	13	19.45	19.56	19.48	20.50
		25	0	19.46	19.48	19.39	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Banawiath	Woddiation	TAB SIZE	TAB Oliset	26090	26365	26640	Tune up
		1	0	19.46	19.60	19.49	20.50
		1	25	19.56	19.52	19.42	20.50
		1	49	19.46	19.47	19.39	20.50
	QPSK	25	0	19.51	19.66	19.41	20.50
		25	13	19.53	19.62	19.52	20.50
		25	25	19.52	19.60	19.37	20.50
		50	0	19.48	19.66	19.49	20.50
		1	0	19.49	19.56	19.41	20.50
		1	25	19.41	19.46	19.37	20.50
		1	49	19.60	19.64	19.48	20.50
10MHz	16QAM	25	0	19.55	19.59	19.53	20.50
		25	13	19.41	19.46	19.30	20.50
		25	25	19.54	19.59	19.48	20.50
		50	0	19.56	19.55	19.43	20.50
		1	0	19.48	19.56	19.40	20.50
		1	25	19.60	19.68	19.51	20.50
		1	49	19.47	19.60	19.39	20.50
	64QAM	25	0	19.46	19.54	19.42	20.50
		25	13	19.51	19.68	19.45	20.50
		25	25	19.43	19.56	19.47	20.50
		50	0	19.40	19.58	19.40	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26115	26365	26615	
15MHz	QPSK	1	0	19.46	19.65	19.53	20.50



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	<u> </u>			T	T	T	Т
		1	38	19.52	19.52	19.40	20.50
		1	74	19.54	19.51	19.43	20.50
		36	0	19.53	19.63	19.49	20.50
		36	18	19.46	19.62	19.41	20.50
		36	39	19.50	19.46	19.44	20.50
		75	0	19.60	19.64	19.51	20.50
		1	0	19.51	19.61	19.43	20.50
		1	38	19.49	19.52	19.34	20.50
		1	74	19.56	19.67	19.44	20.50
	16QAM	36	0	19.50	19.61	19.54	20.50
		36	18	19.47	19.52	19.31	20.50
		36	39	19.61	19.57	19.49	20.50
		75	0	19.58	19.58	19.47	20.50
		1	0	19.47	19.46	19.38	20.50
		1	38	19.52	19.66	19.49	20.50
		1	74	19.50	19.54	19.42	20.50
	64QAM	36	0	19.52	19.51	19.36	20.50
		36	18	19.56	19.64	19.37	20.50
		36	39	19.56	19.60	19.41	20.50
		75	0	19.42	19.51	19.36	20.50
			55 %	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	26140	26365	26590	Tune up
		1	0	19.57	19.70	19.61	20.50
		1	50	19.48	19.40	19.38	20.50
		1	99	19.40	19.53	19.47	20.50
	QPSK	50	0	19.53	19.63	19.45	20.50
		50	25	19.49	19.48	19.43	20.50
		50	50	19.43	19.54	19.33	20.50
		100	0	19.55	19.58	19.46	20.50
		1	0	19.52	19.54	19.49	20.50
		1	50	19.48	19.60	19.31	20.50
		1	99	19.50	19.56	19.49	20.50
20MHz	16QAM	50	0	19.43	19.57	19.53	20.50
		50	25	19.42	19.52	19.32	20.50
		50	50	19.59	19.64	19.49	20.50
		100	0	19.51	19.55	19.40	20.50
		1	0	19.45	19.59	19.37	20.50
		1	50	19.49	19.54	19.51	20.50
		1	99	19.53	19.55	19.53	20.50
	64QAM	50	0	19.44	19.54	19.39	20.50
		50	25	19.54	19.55	19.42	20.50
		50	50	19.45	19.62	19.40	20.50



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	LTE Band 2	5 Sensor on		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				26047	26365	26683	'	
		1	0	20.49	20.50	20.32	21.50	
		1	2	20.47	20.44	20.54	21.50	
		1	5	20.32	20.49	20.38	21.50	
	QPSK	3	0	20.53	20.58	20.37	21.50	
		3	2	20.45	20.49	20.49	21.50	
		3	3	20.43	20.42	20.59	21.50	
		6	0	20.40	20.49	20.43	21.50	
		1	0	20.39	20.42	20.46	21.50	
		1	2	20.38	20.38	20.55	21.50	
		1	5	20.42	20.53	20.50	21.50	
1.4MHz	16QAM	3	0	20.61	20.63	20.38	21.50	
		3	2	20.52	20.46	20.35	21.50	
		3	3	20.49	20.65	20.35	21.50	
		6	0	20.48	20.57	20.41	21.50	
		1	0	20.44	20.60	20.25	21.50	
		1	2	20.67	20.70	20.41	21.50	
		1	5	20.46	20.49	20.49	21.50	
	64QAM	3	0	20.40	20.62	20.34	21.50	
		3	2	20.44	20.57	20.55	21.50	
		3	3	20.47	20.65	20.51	21.50	
		6	0	20.38	20.65	20.35	21.50	
				Channel	Channel	Channel		
Bandwidth	Modulation	RB size	RB offset	26055	26365	26675	Tune up	
		1	0	20.60	20.50	20.30	21.50	
			_	20.57	22.12	20.40	21.50	
		1	7	20.57	20.49	20.40	21.50	
		<u> </u>	14	20.57	20.49	20.40	21.50	
	QPSK		+					
	QPSK	1	14	20.47	20.58	20.37	21.50 21.50	
	QPSK	1 8	14	20.47 20.48	20.58 20.62	20.37 20.42	21.50	
	QPSK	1 8 8	14 0 4	20.47 20.48 20.59	20.58 20.62 20.35	20.37 20.42 20.34	21.50 21.50 21.50	
	QPSK	1 8 8 8	14 0 4 7 0	20.47 20.48 20.59 20.55 20.42	20.58 20.62 20.35 20.53 20.44	20.37 20.42 20.34 20.37 20.38	21.50 21.50 21.50 21.50 21.50	
	QPSK	1 8 8 8 8 15	14 0 4 7 0	20.47 20.48 20.59 20.55 20.42 20.45	20.58 20.62 20.35 20.53 20.44 20.39	20.37 20.42 20.34 20.37 20.38 20.52	21.50 21.50 21.50 21.50 21.50 21.50	
	QPSK	1 8 8 8 15 1	14 0 4 7 0 0 0 7	20.47 20.48 20.59 20.55 20.42 20.45 20.43	20.58 20.62 20.35 20.53 20.44 20.39 20.36	20.37 20.42 20.34 20.37 20.38 20.52 20.47	21.50 21.50 21.50 21.50 21.50 21.50 21.50	
3MHz		1 8 8 8 15 1 1	14 0 4 7 0	20.47 20.48 20.59 20.55 20.42 20.45 20.43 20.52	20.58 20.62 20.35 20.53 20.44 20.39 20.36 20.68	20.37 20.42 20.34 20.37 20.38 20.52 20.47 20.42	21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	
3MHz	QPSK 16QAM	1 8 8 8 15 1 1 1 1 8	14 0 4 7 0 0 7 14 0	20.47 20.48 20.59 20.55 20.42 20.45 20.43 20.52 20.65	20.58 20.62 20.35 20.53 20.44 20.39 20.36	20.37 20.42 20.34 20.37 20.38 20.52 20.47 20.42 20.45	21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	
3MHz		1 8 8 8 15 1 1 1 1 8 8	14 0 4 7 0 0 7 14 0 4	20.47 20.48 20.59 20.55 20.42 20.45 20.43 20.52 20.65 20.45	20.58 20.62 20.35 20.53 20.44 20.39 20.36 20.68 20.55	20.37 20.42 20.34 20.37 20.38 20.52 20.47 20.42	21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	
3MHz		1 8 8 8 15 1 1 1 1 8 8	14 0 4 7 0 0 0 7 14 0 4 7	20.47 20.48 20.59 20.55 20.42 20.45 20.43 20.52 20.65 20.45 20.60	20.58 20.62 20.35 20.53 20.44 20.39 20.36 20.68 20.55 20.36 20.46	20.37 20.42 20.34 20.37 20.38 20.52 20.47 20.42 20.45 20.44 20.35	21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	
3MHz		1 8 8 8 15 1 1 1 1 8 8 8	14 0 4 7 0 0 0 7 14 0 4 7	20.47 20.48 20.59 20.55 20.42 20.45 20.43 20.52 20.65 20.65 20.60 20.61	20.58 20.62 20.35 20.53 20.44 20.39 20.36 20.68 20.55 20.46 20.53	20.37 20.42 20.34 20.37 20.38 20.52 20.47 20.42 20.45 20.44 20.35 20.40	21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	
ЗМНZ		1 8 8 8 15 1 1 1 1 8 8 8	14 0 4 7 0 0 0 7 14 0 4 7 0	20.47 20.48 20.59 20.55 20.42 20.43 20.52 20.65 20.45 20.60 20.61 20.50	20.58 20.62 20.35 20.53 20.44 20.39 20.36 20.68 20.55 20.36 20.46 20.53 20.54	20.37 20.42 20.34 20.37 20.38 20.52 20.47 20.42 20.45 20.44 20.35 20.40 20.25	21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	
ЗМНz		1 8 8 8 8 15 1 1 1 8 8 8 8 15	14 0 4 7 0 0 0 7 14 0 4 7 0 0	20.47 20.48 20.59 20.55 20.42 20.45 20.43 20.52 20.65 20.45 20.60 20.61 20.50 20.58	20.58 20.62 20.35 20.53 20.44 20.39 20.36 20.68 20.55 20.36 20.46 20.53 20.54 20.56	20.37 20.42 20.34 20.37 20.38 20.52 20.47 20.42 20.45 20.44 20.35 20.40 20.25 20.36	21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	
ЗМН	16QAM	1 8 8 8 15 1 1 1 1 8 8 8 8 15 1 1	14 0 4 7 0 0 0 7 14 0 4 7 0 0 0 7	20.47 20.48 20.59 20.55 20.42 20.45 20.43 20.52 20.65 20.60 20.61 20.50 20.58 20.51	20.58 20.62 20.35 20.53 20.44 20.39 20.36 20.68 20.55 20.36 20.46 20.53 20.54 20.56 20.58	20.37 20.42 20.34 20.37 20.38 20.52 20.47 20.42 20.45 20.44 20.35 20.40 20.25 20.36 20.34	21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	
3MHz		1 8 8 8 15 1 1 1 1 8 8 8 15 1 1 1 1 1 8 8	14 0 4 7 0 0 0 7 14 0 4 7 0 0 0 7	20.47 20.48 20.59 20.55 20.42 20.45 20.43 20.52 20.65 20.60 20.61 20.50 20.58 20.51	20.58 20.62 20.35 20.53 20.44 20.39 20.36 20.68 20.55 20.36 20.46 20.53 20.54 20.56 20.58 20.53	20.37 20.42 20.34 20.37 20.38 20.52 20.47 20.42 20.45 20.44 20.35 20.40 20.25 20.36 20.34 20.25	21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	
3MHz	16QAM	1 8 8 8 15 1 1 1 1 8 8 8 8 15 1 1	14 0 4 7 0 0 0 7 14 0 4 7 0 0 0 7	20.47 20.48 20.59 20.55 20.42 20.45 20.43 20.52 20.65 20.60 20.61 20.50 20.58 20.51	20.58 20.62 20.35 20.53 20.44 20.39 20.36 20.68 20.55 20.36 20.46 20.53 20.54 20.56 20.58	20.37 20.42 20.34 20.37 20.38 20.52 20.47 20.42 20.45 20.44 20.35 20.40 20.25 20.36 20.34	21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50 21.50	



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		1.2		26065	26365	26665	·
		1	0	20.60	20.60	20.38	21.50
		1	13	20.48	20.47	20.51	21.50
		1	24	20.41	20.42	20.31	21.50
	QPSK	12	0	20.49	20.66	20.34	21.50
		12	6	20.58	20.37	20.50	21.50
		12	13	20.40	20.50	20.37	21.50
		25	0	20.52	20.54	20.33	21.50
		1	0	20.42	20.53	20.56	21.50
		1	13	20.39	20.37	20.46	21.50
		1	24	20.51	20.61	20.56	21.50
5MHz	16QAM	12	0	20.60	20.51	20.41	21.50
		12	6	20.39	20.46	20.44	21.50
		12	13	20.58	20.51	20.44	21.50
		25	0	20.53	20.54	20.41	21.50
		1	0	20.47	20.50	20.21	21.50
		1	13	20.50	20.71	20.34	21.50
		1	24	20.49	20.51	20.44	21.50
	64QAM	12	0	20.41	20.54	20.31	21.50
		12	6	20.49	20.56	20.56	21.50
		12	13	20.39	20.58	20.40	21.50
		25	0	20.46	20.54	20.35	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Banawiath	Woddiation	TAB SIZE	TAB Oliset	26090	26365	26640	Tune up
		1	0	20.59	20.44	20.39	21.50
		1	25	20.43	20.60	20.56	21.50
		1	49	20.33	20.51	20.44	21.50
	QPSK	25	0	20.39	20.57	20.39	21.50
		25	13	20.45	20.46	20.34	21.50
		25	25	20.44	20.40	20.36	21.50
		50	0	20.56	20.56	20.48	21.50
		1	0	20.37	20.38	20.53	21.50
		1	25	20.46	20.50	20.49	21.50
		1	49	20.57	20.53	20.41	21.50
10MHz	16QAM	25	0	20.47	20.54	20.45	21.50
		25	13	20.46	20.35	20.37	21.50
		25	25	20.42	20.44	20.38	21.50
		50	0	20.60	20.58	20.47	21.50
		1	0	20.51	20.58	20.23	21.50
		1	25	20.65	20.60	20.36	21.50
		1	49	20.54	20.57	20.46	21.50
	64QAM	25	0	20.52	20.48	20.33	21.50
		25	13	20.47	20.53	20.38	21.50
		25	25	20.50	20.59	20.44	21.50
		50	0	20.40	20.65	20.45	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26115	26365	26615	
15MHz	QPSK	1	0	20.61	20.55	20.41	21.50



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			T	T	1	T	Т
		1	38	20.42	20.55	20.46	21.50
		1	74	20.31	20.45	20.37	21.50
		36	0	20.40	20.58	20.39	21.50
		36	18	20.59	20.51	20.47	21.50
		36	39	20.50	20.52	20.41	21.50
		75	0	20.46	20.59	20.46	21.50
		1	0	20.47	20.44	20.53	21.50
		1	38	20.31	20.33	20.32	21.50
		1	74	20.43	20.58	20.43	21.50
	16QAM	36	0	20.61	20.45	20.39	21.50
		36	18	20.39	20.53	20.36	21.50
		36	39	20.58	20.50	20.35	21.50
		75	0	20.49	20.56	20.50	21.50
		1	0	20.37	20.48	20.19	21.50
		1	38	20.66	20.65	20.44	21.50
		1	74	20.63	20.58	20.45	21.50
	64QAM	36	0	20.48	20.47	20.18	21.50
		36	18	20.58	20.53	20.41	21.50
		36	39	20.47	20.51	20.53	21.50
		75	0	20.43	20.47	20.36	21.50
		55 .	55 %	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	26140	26365	26590	Tune up
		1	0	20.47	20.69	20.47	21.50
		1	50	20.44	20.61	20.53	21.50
		1	99	20.34	20.44	20.33	21.50
	QPSK	50	0	20.41	20.62	20.37	21.50
		50	25	20.43	20.51	20.48	21.50
		50	50	20.52	20.59	20.46	21.50
		100	0	20.45	20.48	20.52	21.50
		1	0	20.43	20.37	20.55	21.50
		1	50	20.43	20.39	20.54	21.50
		1	99	20.57	20.62	20.63	21.50
20MHz	16QAM	50	0	20.50	20.51	20.36	21.50
		50	25	20.49	20.52	20.44	21.50
		50	50	20.50	20.52	20.36	21.50
		100	0	20.42	20.43	20.49	21.50
		1	0	20.48	20.43	20.22	21.50
		1	50	20.60	20.67	20.43	21.50
		1	99	20.48	20.68	20.45	21.50
	64QAM	50	0	20.39	20.51	20.17	21.50
		50	25	20.54	20.60	20.43	21.50
		50	50	20.47	20.66	20.44	21.50



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	LTE Band	I 26 All off		Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26865	Channel 27033	Tune up
		1	0	23.73	23.87	23.68	25.00
		1	2	23.80	23.81	23.67	25.00
		1	5	23.76	23.86	23.74	25.00
	QPSK	3	0	22.89	22.97	22.85	24.00
		3	2	22.88	22.90	22.84	24.00
		3	3	22.91	22.97	22.85	24.00
		6	0	22.95	22.92	22.83	24.00
		1	0	22.87	22.97	22.84	24.00
		1	2	22.89	22.89	22.87	24.00
		1	5	22.87	22.94	22.79	24.00
1.4MHz	16QAM	3	0	21.99	21.94	21.98	23.00
		3	2	21.98	21.92	21.99	23.00
		3	3	21.98	21.93	22.00	23.00
		6	0	21.99	21.98	21.95	23.00
		1	0	21.57	21.38	21.54	23.00
		1	2	21.71	21.50	21.44	23.00
		1	5	21.78	21.79	21.50	23.00
	64QAM	3	0	20.37	20.38	20.27	22.00
		3	2	20.33	20.74	20.27	22.00
		3	3	20.34	20.54	20.34	22.00
		6	0	20.65	20.68	20.67	22.00
Bandwidth	Modulation	DD size	RB offset	Channel	Channel	Channel	Tuna un
Dandwidth	Wodulation	RB size	RD Ollset	26705	26865	27025	Tune up
		1	0	23.74	23.90	23.75	25.00
		1	7	23.73	23.76	23.70	25.00
		1	14	23.74	23.85	23.75	25.00
	QPSK	8	0	00.04	00.00	00.04	04.00
				22.91	22.99	22.84	24.00
		8	4	22.91	22.99	22.84 22.86	24.00
		8	4 7	22.85 22.85	22.94 22.96	22.86 22.87	24.00 24.00
			4	22.85 22.85 22.92	22.94 22.96 22.90	22.86 22.87 22.85	24.00 24.00 24.00
		8	4 7	22.85 22.85	22.94 22.96	22.86 22.87	24.00 24.00
		8 15 1	4 7 0 0 7	22.85 22.85 22.92 22.93 22.95	22.94 22.96 22.90 22.96 22.96 22.92	22.86 22.87 22.85 22.88 22.90	24.00 24.00 24.00 24.00 24.00
		8 15 1	4 7 0 0 7 14	22.85 22.85 22.92 22.93 22.95 22.91	22.94 22.96 22.90 22.96 22.92 22.92	22.86 22.87 22.85 22.88 22.90 22.83	24.00 24.00 24.00 24.00 24.00 24.00
3MHz	16QAM	8 15 1 1 1 8	4 7 0 0 7 14	22.85 22.85 22.92 22.93 22.95 22.91 21.93	22.94 22.96 22.90 22.96 22.92 22.92 21.93	22.86 22.87 22.85 22.88 22.90 22.83 21.98	24.00 24.00 24.00 24.00 24.00 24.00 23.00
3MHz	16QAM	8 15 1 1 1 1 8 8	4 7 0 0 7 14 0 4	22.85 22.85 22.92 22.93 22.95 22.91 21.93 21.97	22.94 22.96 22.90 22.96 22.92 22.92 21.93 21.92	22.86 22.87 22.85 22.88 22.90 22.83 21.98 21.89	24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00
ЗМНz	16QAM	8 15 1 1 1 1 8 8	4 7 0 0 7 14 0 4 7	22.85 22.85 22.92 22.93 22.95 22.91 21.93 21.97 21.90	22.94 22.96 22.90 22.96 22.92 22.92 21.93 21.92 22.00	22.86 22.87 22.85 22.88 22.90 22.83 21.98 21.89 21.97	24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00
ЗМН	16QAM	8 15 1 1 1 1 8 8	4 7 0 0 7 14 0 4 7	22.85 22.85 22.92 22.93 22.95 22.91 21.93 21.97 21.90 21.97	22.94 22.96 22.90 22.96 22.92 22.92 21.93 21.92 22.00 21.98	22.86 22.87 22.85 22.88 22.90 22.83 21.98 21.89 21.97 22.00	24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00
ЗМНz	16QAM	8 15 1 1 1 8 8 8 8 15	4 7 0 0 7 14 0 4 7 0	22.85 22.85 22.92 22.93 22.95 22.91 21.93 21.97 21.90 21.97 21.60	22.94 22.96 22.90 22.96 22.92 22.92 21.93 21.92 22.00 21.98 21.35	22.86 22.87 22.85 22.88 22.90 22.83 21.98 21.89 21.97 22.00 21.53	24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00
ЗМНΖ	16QAM	8 15 1 1 1 8 8 8 8 15	4 7 0 0 7 14 0 4 7 0 0	22.85 22.85 22.92 22.93 22.95 22.91 21.93 21.97 21.90 21.97 21.60 21.68	22.94 22.96 22.90 22.96 22.92 21.93 21.92 22.00 21.98 21.35 21.54	22.86 22.87 22.85 22.88 22.90 22.83 21.98 21.99 21.97 22.00 21.53 21.53	24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
ЗМНz		8 15 1 1 1 8 8 8 8 15 1 1	4 7 0 0 7 14 0 4 7 0 0 7 14	22.85 22.85 22.92 22.93 22.95 22.91 21.93 21.97 21.90 21.97 21.60 21.68 21.78	22.94 22.96 22.90 22.96 22.92 21.93 21.92 22.00 21.98 21.35 21.54 21.75	22.86 22.87 22.85 22.88 22.90 22.83 21.98 21.97 22.00 21.53 21.53 21.53	24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
3MHz	16QAM 64QAM	8 15 1 1 1 8 8 8 8 15 1 1 1	4 7 0 0 7 14 0 4 7 0 0 7 14 0	22.85 22.85 22.92 22.93 22.95 22.91 21.93 21.97 21.90 21.97 21.60 21.68 21.78 20.41	22.94 22.96 22.90 22.96 22.92 21.93 21.92 22.00 21.98 21.35 21.54 21.75 20.42	22.86 22.87 22.85 22.88 22.90 22.83 21.98 21.97 22.00 21.53 21.53 21.53 20.26	24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
3MHz		8 15 1 1 1 1 8 8 8 15 1 1 1 1 8	4 7 0 0 7 14 0 4 7 0 0 7 14 0 4	22.85 22.85 22.92 22.93 22.95 22.91 21.93 21.97 21.90 21.97 21.60 21.68 21.78 20.41 20.38	22.94 22.96 22.90 22.96 22.92 21.93 21.92 22.00 21.98 21.35 21.54 21.75 20.42 20.66	22.86 22.87 22.85 22.88 22.90 22.83 21.98 21.97 22.00 21.53 21.53 21.53 20.26 20.19	24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
3MHz		8 15 1 1 1 1 8 8 8 15 1 1 1 1 1 8 8	4 7 0 0 7 14 0 4 7 0 0 7 14 0 4 7	22.85 22.85 22.92 22.93 22.95 22.91 21.93 21.97 21.90 21.97 21.60 21.68 21.78 20.41 20.38 20.37	22.94 22.96 22.90 22.96 22.92 21.93 21.92 22.00 21.98 21.35 21.54 21.75 20.42 20.66 20.58	22.86 22.87 22.85 22.88 22.90 22.83 21.98 21.99 21.53 21.53 21.53 20.26 20.19 20.33	24.00 24.00 24.00 24.00 24.00 23.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
3MHz Bandwidth		8 15 1 1 1 1 8 8 8 15 1 1 1 1 8	4 7 0 0 7 14 0 4 7 0 0 7 14 0 4	22.85 22.85 22.92 22.93 22.95 22.91 21.93 21.97 21.90 21.97 21.60 21.68 21.78 20.41 20.38	22.94 22.96 22.90 22.96 22.92 21.93 21.92 22.00 21.98 21.35 21.54 21.75 20.42 20.66	22.86 22.87 22.85 22.88 22.90 22.83 21.98 21.97 22.00 21.53 21.53 21.53 20.26 20.19	24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00



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				20745	20005	07045	
		4	_	26715	26865	27015	05.00
		1	0	23.74	23.93	23.76	25.00
		1	13	23.81	23.82	23.67	25.00
	ODOK	1	24	23.73	23.85	23.71	25.00
	QPSK	12	0	22.85	22.97	22.89	24.00
		12	6	22.90	22.93	22.87	24.00
		12	13	22.95	22.97	22.81	24.00
		25	0	22.94	22.94	22.81	24.00
		1	0	22.91	22.87	22.85	24.00
		1	13	22.88	22.91	22.87	24.00
	400.04	1	24	22.85	22.93	22.83	24.00
5MHz	16QAM	12	0	21.92	21.98	21.97	23.00
		12	6	21.99	21.98	21.98	23.00
		12	13	21.94	21.99	22.00	23.00
		25	0	22.00	21.99	21.94	23.00
		1	0	21.54	21.34	21.54	23.00
		1	13	21.69	21.56	21.51	23.00
		1	24	21.73	21.73	21.54	23.00
	64QAM	12	0	20.42	20.41	20.29	22.00
		12	6	20.36	20.73	20.18	22.00
		12	13	20.38	20.52	20.38	22.00
		25	0	20.62	20.71	20.72	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danaman	Wodalation	112 0.20	TAB GHOOL	26750	26865	26990	Tano ap
		1	0	23.74	23.86	23.74	25.00
		1	25	23.77	23.83	23.72	25.00
		1	49	23.77	23.83	23.76	25.00
	QPSK	25	0	22.83	22.97	22.92	24.00
		25	13	22.89	22.89	22.88	24.00
		25	25	22.91	22.96	22.83	24.00
		50	0	22.92	22.99	22.84	24.00
		1	0	22.89	22.94	22.87	24.00
		1	25	22.92	22.92	22.85	24.00
		1	49	22.85	22.90	22.83	24.00
10MHz	16QAM	25	0	21.97	22.00	21.97	23.00
		25	13	21.97	21.95	21.98	23.00
		25	25	21.94	22.00	21.99	23.00
		50	0	21.97	21.97	21.95	23.00
		1	0	21.52	21.31	21.55	23.00
		1	25	21.67	21.57	21.47	23.00
		1	49	21.70	21.72	21.51	23.00
	64QAM	25	0	20.40	20.39	20.23	22.00
		25	13	20.34	20.72	20.28	22.00
		25	25	20.36	20.56	20.41	22.00
		50	0	20.58	20.67	20.70	22.00
Donali dalah	Madelatian	DD -:	DD official	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	26775	26865	26965	Tune up
		1	0	23.80	23.93	23.68	25.00
15MHz	QPSK			20.00	20.00	20.00	20.00



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	1	74	23.74	23.82	23.71	25.00
	36	0	22.90	22.98	22.91	24.00
	36	18	22.87	22.96	22.85	24.00
	36	39	22.85	22.96	22.88	24.00
	75	0	22.93	22.98	22.79	24.00
	1	0	22.95	22.94	22.84	24.00
	1	38	22.92	22.88	22.86	24.00
	1	74	22.86	22.96	22.83	24.00
16QAM	36	0	21.98	21.99	21.97	23.00
	36	18	21.97	21.95	21.95	23.00
	36	39	21.92	21.99	21.99	23.00
	75	0	22.00	21.94	21.95	23.00
	1	0	21.50	21.36	21.50	23.00
	1	38	21.72	21.51	21.50	23.00
	1	74	21.76	21.75	21.53	23.00
64QAM	36	0	20.43	20.41	20.25	22.00
	36	18	20.39	20.76	20.19	22.00
	36	39	20.35	20.52	20.36	22.00
	75	0	20.60	20.66	20.72	22.00

LTE	Band 41 Pow	er Class 3 Al	l off			Conducted	Power(dBm)		
Dan dud didi	Madulatian	DD -:	DD affect	Channel	Channel	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	39675	40148	40620	41093	41565	Tune up
		1	0	23.36	23.43	23.47	23.39	23.33	24.50
		1	13	23.41	23.34	23.39	23.46	23.27	24.50
		1	24	23.46	23.38	23.41	23.37	23.38	24.50
	QPSK	12	0	23.24	23.06	22.49	22.34	23.08	23.50
		12	6	22.97	22.97	22.63	22.51	23.01	23.50
		12	13	23.16	23.04	22.51	22.39	23.02	23.50
		25	0	23.25	23.04	22.53	22.47	22.95	23.50
		1	0	23.17	23.11	22.54	22.34	22.95	23.50
		1	13	23.24	23.06	22.49	22.37	22.98	23.50
		1	24	23.14	23.04	22.43	22.39	22.96	23.50
5MHz	16QAM	12	0	22.22	22.11	21.56	21.54	21.92	22.50
		12	6	22.04	22.08	21.61	21.37	21.97	22.50
		12	13	22.09	22.09	21.57	21.34	21.93	22.50
		25	0	22.13	22.15	21.63	21.49	21.94	22.50
		1	0	22.07	22.09	21.27	21.02	21.67	22.50
		1	13	22.08	22.02	21.12	20.92	21.66	22.50
		1	24	22.12	22.16	21.18	21.14	21.58	22.50
	64QAM	12	0	21.12	21.04	20.11	20.16	20.55	21.50
		12	6	20.96	21.06	20.18	20.05	20.70	21.50
		12	13	20.96	20.96	20.16	20.03	20.51	21.50
		25	0	21.11	21.15	20.31	20.21	20.49	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tungur
Bandwidth	wodulation	KD SIZE	RD Oliset	39700	40160	40620	41080	41540	Tune up
10MHz	QPSK	1	0	23.33	23.21	23.49	23.44	23.02	24.50
TUIVITZ	UPSN	11	25	23.16	23.17	23.17	23.49	23.24	24.50



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 $\begin{array}{ll} t \; (86-512) \, 62992980 & \quad \text{www.sgsgroup.com.cn} \\ t \; (86-512) \, 62992980 & \quad \text{sgs.china@sgs.com} \end{array}$ 



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	· · · · · · · · · · · · · · · · · · ·		1		Ī				
		1	49	23.2	23.23	23.33	23.48	23.46	24.50
		25	0	23.32	22.15	22.67	22.46	23.27	23.50
		25	13	23.15	22.15	22.73	22.63	23.16	23.50
		25	25	23.29	22.19	22.69	22.55	23.21	23.50
		50	0	23.35	22.22	22.7	22.59	23.14	23.50
		1	0	23.29	22.19	22.74	22.47	23.09	23.50
		1	25	23.36	22.18	22.6	22.46	23.15	23.50
		1	49	23.22	22.18	22.57	22.47	23.06	23.50
	16QAM	25	0	22.4	21.24	21.7	21.61	22.03	22.50
		25	13	22.18	21.23	21.69	21.47	22.17	22.50
		25	25	22.16	21.23	21.73	21.49	22.06	22.50
		50	0	22.31	21.34	21.8	21.62	22.12	22.50
		1	0	21.99	21.05	21.20	21.08	21.70	22.50
		1	25	22.00	20.94	21.24	20.96	21.56	22.50
		1	49	22.05	21.02	21.28	21.13	21.55	22.50
	64QAM	25	0	21.25	20.02	20.26	20.10	20.60	21.50
		25	13	21.02	20.05	20.27	20.07	20.62	21.50
		25	25	21.10	19.95	20.13	19.89	20.64	21.50
		50	0	21.14	20.06	20.24	20.20	20.53	21.50
Pandwidth	Modulation	DP size	DP offeet	Channel	Channel	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	39725	40173	40620	41068	41515	Tune up
		1	0	23.34	23.34	23.36	23.51	23.22	24.50
		1	38	23.35	23.35	23.17	23.16	23.31	24.50
		1	74	23.36	23.36	23.25	23.48	23.15	24.50
	QPSK	36	0	22.24	22.24	22.75	22.35	23.24	23.50
		36	18	22.31	22.31	22.73	22.63	23.05	23.50
		36	39	22.32	22.32	22.69	22.57	23.17	23.50
		75	0	22.39	22.39	22.74	22.48	23.04	23.50
		1	0	22.33	22.33	22.71	22.43	23.1	23.50
		1	38	22.28	22.28	22.69	22.47	23.17	23.50
		1	74	22.35	22.35	22.67	22.51	23.04	23.50
15MHz	16QAM	36	0	21.37	21.37	21.69	21.59	21.95	22.50
		36	18	21.44	21.44	21.64	21.39	22.09	22.50
		36	39	21.32	21.32	21.78	21.4	22.02	22.50
		75	0	21.46	21.46	21.83	21.55	22.14	22.50
		1	0	21.01	21.01	21.29	20.96	21.67	22.50
		1	38	20.96	20.96	21.14	20.92	21.55	22.50
		1	74	21.07	21.07	21.22	21.19	21.62	22.50
	64QAM	36	0	20.11	20.11	20.15	20.12	20.65	21.50
		36	18	20.07	20.07	20.33	19.97	20.63	21.50
		36	39	20.10	20.10	20.18	19.89	20.64	21.50
		75	0	20.14	20.14	20.25	20.11	20.58	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune un
Danuwiutil	iviouulatiori	IVD SIZE	IVD Ollser	39750	40185	40620	41055	41490	Tune up
		1	0	23.38	23.4	23.56	23.34	23.42	24.50
		1	50	23.33	23.37	23.52	23.48	23.51	24.50
20MHz	QPSK	1	99	23.34	23.3	23.46	23.39	23.4	24.50
		50	0	22.45	22.14	22.71	22.18	22.7	23.50
		50	25	22.25	22.33	22.53	22.46	22.5	23.50



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I								
	50	50	22.33	22.23	22.53	22.44	22.69	23.50
	100	0	22.37	22.29	22.62	22.33	22.49	23.50
	1	0	22.5	22.25	22.53	22.33	22.59	23.50
	1	50	22.48	22.18	22.53	22.35	22.65	23.50
	1	99	22.28	22.28	22.52	22.39	22.48	23.50
16QAM	50	0	21.44	21.4	21.61	21.49	21.37	22.50
	50	25	21.26	21.43	21.58	21.28	21.49	22.50
	50	50	21.28	21.25	21.7	21.21	21.56	22.50
	100	0	21.34	21.41	21.62	21.44	21.63	22.50
	1	0	20.91	20.99	21.30	21.02	21.21	22.50
	1	50	20.98	21.09	21.29	20.97	21.22	22.50
	1	99	21.01	21.02	21.29	21.16	21.17	22.50
64QAM	50	0	20.25	20.14	20.22	20.20	20.25	21.50
	50	25	20.02	19.99	20.27	20.06	20.25	21.50
	50	50	19.96	20.08	20.29	19.99	20.13	21.50
	100	0	20.06	20.01	20.33	20.15	20.13	21.50

LTE	Band 41 Pow	er class 2 Al	l off			Conducted	Power(dBm)		
			55 %	Channel	Channel	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	39675	40148	40620	41093	41565	Tune up
		1	0	26.49	26.46	26.42	26.34	26.42	27.50
		1	13	26.35	26.42	26.12	26.47	26.4	27.50
		1	24	26.39	26.44	26.12	26.48	26.12	27.50
	QPSK	12	0	25.56	25.36	25.83	25.63	26.05	26.50
		12	6	25.56	25.32	25.64	25.83	26.09	26.50
		12	13	25.42	25.15	25.66	25.72	26.1	26.50
		25	0	25.48	25.24	25.87	25.62	26.19	26.50
		1	0	25.31	25.17	25.61	25.42	25.83	26.50
		1	13	25.56	25.32	25.97	25.78	26.23	26.50
		1	24	25.52	25.48	25.83	25.7	26.11	26.50
5MHz	16QAM	12	0	24.39	24.35	24.9	24.51	25.13	25.50
	IIIZ TOQAW	12	6	24.53	24.24	24.84	24.63	25.01	25.50
		12	13	24.39	24.06	24.65	24.58	25.15	25.50
		25	0	24.5	24.21	24.74	24.6	25.08	25.50
		1	0	24.42	24.13	24.52	24.21	24.71	25.50
		1	13	24.25	24.03	24.34	24.19	24.84	25.50
		1	24	24.50	24.17	24.39	24.29	24.76	25.50
	64QAM	12	0	23.14	23.20	23.28	23.25	23.62	24.50
		12	6	23.29	23.05	23.32	23.04	23.65	24.50
		12	13	23.16	23.19	23.26	23.21	23.59	24.50
		25	0	23.15	23.04	23.36	23.03	23.71	24.50
Donahulatt	Mandulation	DD -i-r	DD affact	Channel	Channel	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	39700	40160	40620	41080	41540	Tune up
		1	0	26.42	26.49	26.46	26.44	26.53	27.50
		1	25	26.34	26.44	26.23	26.23	26.23	27.50
10MHz	QPSK	1	49	26.24	26.22	26.23	26.23	26.23	27.50
		25	0	25.41	25.43	25.93	25.69	26.21	26.50
		25	13	25.37	25.38	25.81	25.88	26.21	26.50



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SO		T		Т	1	T	Т	Т	Т	
Table   Tabl			25	25	25.32	25.26	25.82	25.84	26.15	26.50
1			50	0	25.4	25.33	25.92	25.72	26.26	26.50
Table   Tabl			1	0	25.2	25.28	25.68	25.48	25.96	26.50
Bandwidth			1	25	25.49	25.4	26.01	25.83	26.34	26.50
Part			1	49	25.41	25.57	26.01	25.86	26.25	26.50
Part		16QAM	25	0	24.29	24.41	25	24.69	25.25	25.50
Table   Figure   Fi			25	13	24.34	24.42	24.92	24.71	25.13	25.50
Bandwidth			25	25	24.28	24.18	24.82	24.69	25.2	25.50
Bandwidth			50	0	24.42	24.37	24.81	24.71	25.14	25.50
Bandwidth   Family   Family			1	0	24.48	24.13	24.52	24.19	24.66	25.50
Bandwidth   Page   Pa			1	25	24.41	23.97	24.25	24.28	24.71	25.50
Bandwidth   Page   Pa			1	49	24.51	24.12	24.43	24.18	24.70	25.50
Bandwidth   RB size   RB offset   RB off		64QAM	25	0		23.17	23.36		23.70	24.50
Pandwidth   Pand			25	13					23.56	24.50
Bandwidth   Modulation   RB size   RB offset   Channel   Channel				İ						24.50
Bandwidth   Modulation   RB size   RB offset   Channel   Channel   Channel   Channel   Channel   Channel   Channel   39725   40173   40620   41068   41515   Tune										24.50
Table   Modulation   RB size   RB offset   39725   40173   40620   41068   41515   Tune   1										
Table   Part	Bandwidth	Modulation	RB size	RB offset	39725	40173	40620	41068	41515	Tune up
Part			1	0	26.37	26.33	26.37	26.32	26.08	27.50
APSK         36         0         25.48         25.5         25.78         25.56         26.06         26.56           36         18         25.5         25.5         25.71         25.69         26.09         26.5           36         39         25.46         25.31         25.73         25.69         26         26.5           75         0         25.47         25.44         25.81         25.58         26.12         26.5           1         0         25.37         25.42         25.6         25.34         25.85         26.5           1         38         25.44         25.43         25.84         25.63         26.22         26.5           1         74         25.49         25.45         25.85         25.73         26.15         26.5           36         18         24.45         24.46         24.82         24.61         25.1         25.5           36         39         24.47         24.29         24.73         24.51         25.5         25.5           75         0         24.48         24.45         24.76         24.59         25.07         25.5           75         0         24.48			1	38	26.34	26.31	26.03	26.42	26.38	27.50
Table   Tabl			1	74	26.35	26.33	26.08	26.41	26.38	27.50
Teach   Teac		QPSK	36	0	25.48	25.5	25.78	25.56	26.06	26.50
Table   Tabl			36	18	25.5	25.5	25.71	25.69	26.09	26.50
Total Part			36	39	25.46	25.31	25.73	25.69	26	26.50
Table   Tabl			75	0					26.12	26.50
Tabhata   Tabh			1	0						26.50
Table   Tabl			1	38	25.44	25.43			26.22	26.50
15MHz         16QAM         36         0         24.36         24.44         24.82         24.61         25.1         25.5           36         18         24.45         24.46         24.82         24.57         25.02         25.5           36         39         24.47         24.29         24.73         24.51         25         25.5           75         0         24.48         24.45         24.76         24.59         25.07         25.5           1         0         24.29         24.01         24.42         24.31         24.71         25.5           1         38         24.31         23.87         24.26         24.17         24.81         25.5           1         74         24.40         24.10         24.37         24.24         24.68         25.5           36         18         23.15         22.92         23.3         23.03         23.57         24.5           36         39         22.99         23.00         23.34         23.24         23.60         24.5           36         39         22.99         23.00         23.33         23.06         23.79         24.5           36			1	74	25.49				26.15	26.50
Bandwidth   Modulation   RB size   RB offset   RB of	15MHz	16QAM	36	0	1	24.44				25.50
Second			36	18						25.50
To   To   To   To   To   To   To   To										25.50
Tune   Resize   Res										25.50
Hamilton									25.50	
Handwidth   Hand										25.50
64QAM     36     0     23.12     23.05     23.33     23.23     23.60     24.5       36     18     23.15     22.92     23.3     23.03     23.57     24.5       36     39     22.99     23.00     23.34     23.24     23.60     24.5       75     0     23.00     23.09     23.33     23.06     23.79     24.5       Bandwidth     Modulation     RB size     RB offset     Channel     C										25.50
Bandwidth     Modulation     RB size     RB offset     23.15     22.92     23.3     23.03     23.57     24.5       2.99     23.00     23.34     23.24     23.60     24.5       24.5     23.00     23.09     23.33     23.06     23.79     24.5       24.5     23.00     23.09     23.33     23.06     23.79     24.5       24.5     23.00     23.00     23.00     23.00     23.00     23.79     24.5       24.5     23.00     23.00     23.00     23.00     23.00     23.00     23.00     23.00     23.79     24.5       24.5     23.00     23.00     23.00     23.33     23.06     23.79     24.5       24.5     23.00     23.00     23.00     23.33     23.06     23.79     24.5       24.5     23.00     23.00     23.00     23.33     23.06     23.79     24.5       24.5     23.00     23.00     23.33     23.06     23.79     24.5       24.5     23.00     23.00     23.33     23.06     23.79     24.5       24.5     23.00     23.00     23.00     23.33     23.06     23.79     24.5       24.5     23.00     23.00     <		64QAM			1					
Bandwidth     Modulation     RB size     RB offset     Channel 39     22.99     23.00     23.30     23.34     23.24     23.60     24.5       Channel     Channel     Channel     Channel     Channel     Channel     Channel     Channel     Channel       39750     40185     40620     41055     41490     Tune		0 · Q/ ····								
Bandwidth         Modulation         RB size         RB offset         Channel 39750         Channel 40185         Channel 4020         Channel 41055         Channel 41490         Tune										
Bandwidth         Modulation         RB size         RB offset         Channel         Channel         Channel         Channel         Channel         Channel         Channel         Tune										
Bandwidth         Modulation         RB size         RB offset         39750         40185         40620         41055         41490										
	Bandwidth	Modulation	RB size	RB offset						Tune up
1 0 26.32 26.41 26.62 26.52 26.46 27.5			1	0						27.50
				İ						27.50
										27.50
OPSK 50 0 25.49 25.39 25.85 25.49 25.82 26.5		QPSK								26.50
20MHZ	20MHz	٠, ٥,٠		İ						26.50
				İ						26.50
100 0 25.41 25.33 25.88 25.48 25.83 26.5										
16QAM 1 0 25.21 25.31 25.46 25.24 25.67 26.5			1()()	()	25.41	ZD 33	ZƏ 00	20.40	ี	



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	1	50	25.45	25.42	25.75	25.53	25.94	26.50
	1	99	25.07	24.85	25.47	25.19	25.63	26.50
	50	0	24.28	24.34	24.63	24.43	24.83	25.50
	50	25	24.42	24.39	24.66	24.42	24.84	25.50
	50	50	24.39	24.19	24.66	24.35	24.76	25.50
	100	0	24.34	24.33	24.67	24.46	24.87	25.50
	1	0	24.02	24.05	24.22	24.04	24.50	25.50
	1	50	24.06	23.82	24.38	23.97	24.40	25.50
	1	99	23.99	24.01	24.26	24.13	24.43	25.50
64QAM	50	0	23.04	23.08	23.39	23.24	23.61	24.50
	50	25	23.15	22.89	23.28	22.97	23.47	24.50
	50	50	22.95	22.95	23.28	23.14	23.53	24.50
	100	0	23.00	22.94	23.38	23.03	23.57	24.50

	LTE Band	66 All off			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel 131979	Channel 132322	Channel 132665	Tune up
		1	0	23.45	23.51	23.47	25.00
		1	2	23.42	23.48	23.35	25.00
		1	5	23.41	23.49	23.44	25.00
	QPSK	3	0	22.33	22.51	22.32	24.00
	·	3	1	22.46	22.44	22.44	24.00
		3	3	22.42	22.41	22.40	24.00
		6	0	22.38	22.44	22.40	24.00
		1	0	22.34	22.31	22.36	24.00
		1	2	22.36	22.37	22.44	24.00
		1	5	22.47	22.45	22.31	24.00
1.4MHz	16QAM	3	0	21.33	21.32	21.38	23.00
		3	1	21.45	21.33	21.37	23.00
		3	3	21.40	21.32	21.40	23.00
		6	0	21.35	21.31	21.36	23.00
		1	0	20.99	21.42	21.38	23.00
		1	2	21.29	21.24	21.15	23.00
		1	5	20.89	21.23	21.09	23.00
	64QAM	3	0	20.11	20.17	20.09	22.00
		3	2	20.25	20.07	20.05	22.00
		3	3	20.15	20.13	20.28	22.00
		6	0	20.17	20.42	20.03	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Balluwidili	Modulation	ND SIZE	IND Offset	131987	132322	132657	rune up
		1	0	23.42	23.49	23.37	25.00
		1	7	23.45	23.44	23.44	25.00
		1	14	23.36	23.42	23.40	25.00
3MHz	QPSK	8	0	22.35	22.59	22.37	24.00
JIVITIZ		8	4	22.35	22.47	22.44	24.00
		8	7	22.42	22.39	22.33	24.00
		15	0	22.32	22.53	22.45	24.00
	16QAM	1	0	22.39	22.41	22.34	24.00



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	T		1	1	T		T
		1	7	22.34	22.38	22.36	24.00
		1	14	22.43	22.31	22.40	24.00
		8	0	21.38	21.35	21.47	23.00
		8	4	21.36	21.34	21.42	23.00
		8	7	21.46	21.34	21.35	23.00
		15	0	21.42	21.39	21.30	23.00
		1	0	21.05	21.36	21.36	23.00
		1	7	21.24	21.21	21.06	23.00
		1	14	20.87	21.30	21.12	23.00
	64QAM	8	0	20.06	20.28	20.08	22.00
		8	4	20.19	20.06	20.06	22.00
		8	7	20.09	20.10	20.36	22.00
		15	0	20.15	20.44	20.02	22.00
Dan duri déla	Madulation	DD cize	DD offeet	Channel	Channel	Channel	Tunatun
Bandwidth	Modulation	RB size	RB offset	131997	132322	132647	Tune up
		1	0	23.33	23.52	23.36	25.00
		1	13	23.36	23.49	23.48	25.00
		1	24	23.43	23.50	23.43	25.00
	QPSK	12	0	22.32	22.52	22.40	24.00
		12	6	22.34	22.39	22.45	24.00
		12	13	22.40	22.39	22.42	24.00
		25	0	22.36	22.45	22.47	24.00
		1	0	22.43	22.31	22.33	24.00
		1	13	22.47	22.33	22.46	24.00
		1	24	22.44	22.41	22.39	24.00
5MHz	16QAM	12	0	21.39	21.34	21.46	23.00
		12	6	21.40	21.44	21.43	23.00
		12	13	21.42	21.45	21.31	23.00
		25	0	21.38	21.44	21.32	23.00
		1	0	21.01	21.46	21.35	23.00
		1	13	21.22	21.21	21.03	23.00
		1	24	20.99	21.24	21.14	23.00
	64QAM	12	0	20.08	20.22	20.15	22.00
		12	6	20.21	19.97	20.06	22.00
		12	13	20.11	20.22	20.29	22.00
		25	0	20.10	20.40	20.06	22.00
Dan duri déla	Modulation	DD cize	DD offeet	Channel	Channel	Channel	Tunatun
Bandwidth	Modulation	RB size	RB offset	132022	132322	132622	Tune up
		1	0	23.43	23.50	23.38	25.00
		1	25	23.35	23.35	23.47	25.00
		1	49	23.30	23.45	23.40	25.00
	QPSK	25	0	22.46	22.62	22.36	24.00
		25	13	22.43	22.40	22.42	24.00
10MHz		25	25	22.41	22.39	22.43	24.00
		50	0	22.37	22.48	22.39	24.00
		1	0	22.34	22.30	22.39	24.00
	40044	1	25	22.33	22.44	22.44	24.00
	16QAM	1	49	22.47	22.33	22.38	24.00
		25	0	21.39	21.39	21.33	23.00



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	1
25 13 21.43 21.40 21.46	23.00
25         25         21.48         21.37         21.34	23.00
50 0 21.42 21.43 21.33	23.00
1 0 21.00 21.41 21.36	23.00
1 25 21.22 21.28 21.06	23.00
1 49 20.88 21.22 21.10	23.00
64QAM 25 0 20.12 20.18 20.16	22.00
25         13         20.27         19.98         20.08	22.00
25 25 20.14 20.16 20.43	22.00
50 0 20.18 20.38 20.06	22.00
Bandwidth Modulation RB size RB offset Channel Channel Channel	Tuna un
BandwidthModulationRB sizeRB offset132047132322132597	Tune up
1 0 23.44 23.46 23.44	25.00
1 38 23.45 23.37 23.38	25.00
1 74 23.41 23.44 23.37	25.00
QPSK 36 0 22.39 22.56 22.37	24.00
36 18 22.46 22.44 22.36	24.00
36 39 22.44 22.49 22.43	24.00
75 0 22.43 22.41 22.39	24.00
1 0 22.36 22.38 22.41	24.00
1 38 22.35 22.33 22.36	24.00
1 74 22.35 22.32 22.37	24.00
<b>15MHz</b> 16QAM 36 0 21.39 21.32 21.38	23.00
36 18 21.34 21.38 21.40	23.00
36 39 21.34 21.38 21.42	23.00
75 0 21.35 21.45 21.39	23.00
1 0 21.00 21.43 21.37	23.00
1 38 21.17 21.21 21.10	23.00
1 74 20.88 21.19 21.02	23.00
64QAM 36 0 20.17 20.28 20.11	22.00
36 18 20.16 20.08 20.09	22.00
36 39 20.18 20.16 20.38	22.00
75 0 20.10 20.44 19.95	22.00
Channel Channel Channel	_
Bandwidth Modulation RB size RB offset 132072 132322 132572	Tune up
1 0 23.38 23.55 23.42	25.00
1 50 23.31 23.48 23.44	25.00
1 99 23.32 23.44 23.34	25.00
QPSK 50 0 22.32 22.53 22.39	24.00
50 25 22.37 22.41 22.35	24.00
50 50 22.41 22.37 22.39	24.00
100 0 22.38 22.53 22.39	24.00
20MHz 1 0 22.43 22.40 22.29	24.00
1 50 22.41 22.34 22.39	24.00
1 99 22.43 22.38 22.38	24.00
16QAM 50 0 21.39 21.31 21.39	
	23.00
50 25 21.37 21.42 21.44	23.00
50         25         21.37         21.42         21.44           50         50         21.42         21.37         21.41	



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		1	0	21.00	21.39	21.32	23.00
	64QAM	1	50	21.20	21.17	21.10	23.00
		1	99	21.01	21.19	21.15	23.00
		50	0	20.13	20.20	20.19	22.00
		50	25	20.25	20.00	20.11	22.00
		50	50	20.09	20.16	20.36	22.00
		100	0	20.11	20.38	20.04	22.00

LTE Band 66 Receiver on				Conducted Power(dBm)			
Bandwidth		RB size	55 %	Channel	Channel	Channel	_
	Modulation		RB offset	131979	132322	132665	Tune up
		1	0	18.87	18.90	18.86	20.00
		1	2	18.59	18.63	18.54	20.00
		1	5	18.72	18.69	18.69	20.00
	QPSK	3	0	18.72	18.85	18.72	20.00
		3	1	18.75	18.75	18.73	20.00
		3	3	18.82	18.90	18.59	20.00
		6	0	18.86	18.95	18.64	20.00
		1	0	18.85	18.74	18.79	20.00
		1	2	18.79	18.79	18.70	20.00
		1	5	18.74	18.73	18.72	20.00
1.4MHz	16QAM	3	0	18.86	18.82	18.64	20.00
		3	1	18.81	18.83	18.58	20.00
		3	3	18.79	18.82	18.75	20.00
		6	0	18.72	18.73	18.65	20.00
	64QAM	1	0	18.73	18.74	18.74	20.00
		1	2	18.83	18.87	18.76	20.00
		1	5	18.80	18.73	18.77	20.00
		3	0	18.74	18.76	18.75	20.00
		3	2	18.77	18.76	18.76	20.00
		3	3	18.81	18.82	18.58	20.00
		6	0	18.76	18.86	18.55	20.00
Danish dalah		RB size	RB offset	Channel	Channel	Channel	T
Bandwidth	Modulation			131987	132322	132657	Tune up
	QPSK	1	0	18.87	18.92	18.80	20.00
		1	7	18.64	18.60	18.54	20.00
		1	14	18.79	18.76	18.79	20.00
		8	0	18.68	18.98	18.80	20.00
		8	4	18.78	18.82	18.71	20.00
3MHz		8	7	18.80	18.76	18.64	20.00
		15	0	18.93	18.86	18.70	20.00
	16QAM	1	0	18.85	18.79	18.68	20.00
		1	7	18.72	18.75	18.72	20.00
		1	14	18.69	18.83	18.78	20.00
		8	0	18.80	18.80	18.78	20.00
		8	4	18.75	18.80	18.53	20.00
		8	7	18.78	18.79	18.70	20.00



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	1		1	T	T	T	T
		15	0	18.73	18.76	18.61	20.00
		1	0	18.77	18.78	18.68	20.00
		1	7	18.79	18.86	18.77	20.00
		1	14	18.80	18.75	18.70	20.00
	64QAM	8	0	18.81	18.72	18.76	20.00
		8	4	18.76	18.78	18.68	20.00
		8	7	18.77	18.84	18.58	20.00
		15	0	18.83	18.85	18.56	20.00
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	131997	132322	132647	Tune up
		1	0	18.84	18.94	18.85	20.00
		1	13	18.68	18.67	18.56	20.00
		1	24	18.73	18.64	18.75	20.00
	QPSK	12	0	18.73	18.96	18.81	20.00
		12	6	18.80	18.72	18.72	20.00
		12	13	18.76	18.89	18.61	20.00
		25	0	18.94	18.90	18.68	20.00
		1	0	18.90	18.84	18.70	20.00
		1	13	18.71	18.76	18.62	20.00
	16QAM	1	24	18.70	18.74	18.75	20.00
5MHz		12	0	18.81	18.88	18.70	20.00
		12	6	18.79	18.75	18.50	20.00
		12	13	18.72	18.85	18.76	20.00
		25	0	18.75	18.72	18.64	20.00
	64QAM	1	0	18.83	18.84	18.77	20.00
		1	13	18.84	18.88	18.77	20.00
		1	24	18.92	18.70	18.83	20.00
		12	0	18.85	18.75	18.73	20.00
		12	6	18.84	18.79	18.74	20.00
		12	13	18.75	18.79	18.68	20.00
		25	0	18.86	18.75	18.65	20.00
			DD " 1	Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	132022	132322	132622	Tune up
		1	0	18.82	18.95	18.85	20.00
	QPSK	1	25	18.60	18.61	18.62	20.00
		1	49	18.67	18.69	18.69	20.00
10MHz		25	0	18.70	18.93	18.79	20.00
		25	13	18.83	18.76	18.70	20.00
		25	25	18.75	18.78	18.51	20.00
		50	0	18.88	18.85	18.57	20.00
	16QAM	1	0	18.83	18.75	18.80	20.00
		1	25	18.74	18.66	18.60	20.00
		1	49	18.75	18.78	18.72	20.00
		25	0	18.86	18.83	18.68	20.00
		25	13	18.82	18.79	18.57	20.00
		25	25	18.77	18.86	18.72	20.00
		50	0	18.80	18.74	18.68	20.00
	010111	1	0	18.73	18.82	18.75	20.00
	64QAM	1	25	18.74	18.88	18.75	20.00



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	I	ı	1	T	T		T
		1	49	18.87	18.72	18.75	20.00
		25	0	18.87	18.80	18.67	20.00
		25	13	18.77	18.82	18.68	20.00
		25	25	18.84	18.76	18.65	20.00
		50	0	18.76	18.81	18.55	20.00
Daniel dele	NA - stock - 45 - m	DD -i	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	132047	132322	132597	Tune up
		1	0	18.92	18.97	18.81	20.00
		1	38	18.67	18.58	18.55	20.00
		1	74	18.66	18.65	18.75	20.00
	QPSK	36	0	18.68	18.86	18.74	20.00
		36	18	18.79	18.73	18.76	20.00
		36	39	18.74	18.85	18.55	20.00
		75	0	18.92	18.86	18.67	20.00
		1	0	18.88	18.84	18.67	20.00
		1	38	18.72	18.69	18.65	20.00
		1	74	18.77	18.73	18.75	20.00
15MHz	16QAM	36	0	18.89	18.84	18.68	20.00
		36	18	18.80	18.80	18.54	20.00
		36	39	18.68	18.74	18.67	20.00
		75	0	18.79	18.68	18.73	20.00
	64QAM	1	0	18.84	18.88	18.68	20.00
		1	38	18.75	18.96	18.77	20.00
		1	74	18.82	18.80	18.76	20.00
		36	0	18.79	18.74	18.76	20.00
		36	18	18.72	18.84	18.73	20.00
		36	39	18.82	18.71	18.68	20.00
		75	0	18.83	18.76	18.66	20.00
	Modulation	RB size		Channel	Channel	Channel	Tune up
Bandwidth			RB offset	132072	132322	132572	
		1	0	18.84	19.02	18.75	20.00
	QPSK	1	50	18.64	18.71	18.66	20.00
		1	99	18.68	18.74	18.78	20.00
		50	0	18.71	18.99	18.67	20.00
		50	25	18.83	18.73	18.67	20.00
		50	50	18.74	18.83	18.51	20.00
		100	0	18.90	18.94	18.66	20.00
		1	0	18.80	18.87	18.77	20.00
	16QAM	1	50	18.82	18.74	18.61	20.00
20MHz		1	99	18.71	18.74	18.72	20.00
		50	0	18.77	18.77	18.67	20.00
		50	25	18.75	18.84	18.55	20.00
		50	50	18.70	18.82	18.74	20.00
		100	0	18.76	18.80	18.64	20.00
		1	0	18.82	18.88	18.77	20.00
		1	50	18.78	18.85	18.73	20.00
	64QAM	1	99	18.91	18.77	18.73	20.00
		50	0	18.78	18.73	18.76	20.00
		50	25	18.84	18.83	18.71	20.00
	<u> </u>	J-0	20	10.04	10.03	10.7 1	20.00



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50	50	18.78	18.75	18.56	20.00
100	0	18.80	18.87	18.61	20.00

LTE Band 66 Sensor on			Conducted Power(dBm)				
Danish dela	M 110	DD :	55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	131979	132322	132665	Tune up
		1	0	20.97	21.15	21.04	22.00
		1	2	21.01	21.07	21.09	22.00
		1	5	21.03	21.19	21.16	22.00
	QPSK	3	0	20.83	21.01	20.82	22.00
		3	1	20.96	20.94	20.94	22.00
		3	3	20.92	20.91	20.90	22.00
		6	0	20.88	20.94	20.90	22.00
		1	0	20.84	20.81	20.86	22.00
		1	2	20.86	20.87	20.94	22.00
		1	5	20.97	20.95	20.81	22.00
1.4MHz	16QAM	3	0	20.83	20.82	20.88	22.00
		3	1	20.95	20.83	20.87	22.00
		3	3	20.90	20.82	20.90	22.00
		6	0	20.85	20.81	20.86	22.00
		1	0	20.49	20.92	20.88	22.00
		1	2	20.79	20.74	20.65	22.00
	64QAM	1	5	20.39	20.73	20.59	22.00
		3	0	20.61	20.67	20.59	22.00
		3	2	20.75	20.57	20.55	22.00
		3	3	20.65	20.63	20.78	22.00
		6	0	20.67	20.92	20.53	22.00
	Modulation	RB size	RB offset	Channel	Channel	Channel	
Bandwidth				131987	132322	132657	Tune up
		1	0	21.15	21.19	21.07	22.00
	QPSK	1	7	21.18	21.18	21.07	22.00
		1	14	21.12	21.12	21.17	22.00
		8	0	20.85	21.09	20.87	22.00
		8	4	20.85	20.97	20.94	22.00
		8	7	20.92	20.89	20.83	22.00
		15	0	20.82	21.03	20.95	22.00
		1	0	20.89	20.91	20.84	22.00
01411		1	7	20.84	20.88	20.86	22.00
3MHz	16QAM	1	14	20.93	20.81	20.90	22.00
		8	0	20.88	20.85	20.97	22.00
		8	4	20.86	20.84	20.92	22.00
		8	7	20.96	20.84	20.85	22.00
		15	0	20.92	20.89	20.80	22.00
		1	0	20.55	20.86	20.86	22.00
	040444	1	7	20.74	20.71	20.56	22.00
	64QAM	1	14	20.37	20.80	20.62	22.00
		8	0	20.56	20.78	20.58	22.00



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			1 .				
		8	4	20.69	20.56	20.56	22.00
		8	7	20.59	20.60	20.86	22.00
		15	0	20.65	20.94	20.52	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel 132647	Tune up
		4	0	131997	132322		00.00
		1	0	21.08	21.14	21.13	22.00
		1	13	20.98	21.16	20.97	22.00
	OPOL	1	24	21.10	21.03	21.01	22.00
	QPSK	12	0	20.82	21.02	20.90	22.00
		12	6	20.84	20.89	20.95	22.00
		12	13	20.90	20.89	20.92	22.00
		25	0	20.86	20.95	20.97	22.00
		1	0	20.93	20.81	20.83	22.00
		1	13	20.97	20.83	20.96	22.00
		1	24	20.94	20.91	20.89	22.00
5MHz	16QAM	12	0	20.89	20.84	20.96	22.00
		12	6	20.90	20.94	20.93	22.00
		12	13	20.92	20.95	20.81	22.00
		25	0	20.88	20.94	20.82	22.00
		1	0	20.51	20.96	20.85	22.00
		1	13	20.72	20.71	20.53	22.00
		1	24	20.49	20.74	20.64	22.00
	64QAM	12	0	20.58	20.72	20.65	22.00
		12	6	20.71	20.47	20.56	22.00
		12	13	20.61	20.72	20.79	22.00
		25	0	20.60	20.90	20.56	22.00
Pandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tuno un
Bandwidth	Modulation	RD SIZE	RD Ollset	132022	132322	132622	Tune up
		1	0	21.01	21.15	21.12	22.00
		1	25	21.17	21.04	21.09	22.00
		1	49	21.18	21.19	21.13	22.00
	QPSK	25	0	20.96	21.12	20.86	22.00
		25	13	20.93	20.90	20.92	22.00
		25	25	20.91	20.89	20.93	22.00
		50	0	20.87	20.98	20.89	22.00
		1	0	20.84	20.80	20.89	22.00
		1	25	20.83	20.94	20.94	22.00
		1	49	20.97	20.83	20.88	22.00
10MHz							
	16QAM	25	0	20.89	20.89	20.83	22.00
	16QAM	25 25		20.89 20.93	20.89 20.90	20.83 20.96	22.00 22.00
	16QAM		0				
	16QAM	25	0 13	20.93	20.90	20.96	22.00
	16QAM	25 25	0 13 25	20.93 20.98	20.90 20.87	20.96 20.84	22.00 22.00
	16QAM	25 25 50	0 13 25 0	20.93 20.98 20.92	20.90 20.87 20.93	20.96 20.84 20.83	22.00 22.00 22.00
	16QAM	25 25 50 1	0 13 25 0	20.93 20.98 20.92 20.50 20.72	20.90 20.87 20.93 20.91	20.96 20.84 20.83 20.86	22.00 22.00 22.00 22.00
		25 25 50 1 1	0 13 25 0 0 25	20.93 20.98 20.92 20.50 20.72 20.38	20.90 20.87 20.93 20.91 20.78 20.72	20.96 20.84 20.83 20.86 20.56 20.60	22.00 22.00 22.00 22.00 22.00 22.00
	16QAM 64QAM	25 25 50 1 1 1 25	0 13 25 0 0 25 49	20.93 20.98 20.92 20.50 20.72 20.38 20.62	20.90 20.87 20.93 20.91 20.78 20.72 20.68	20.96 20.84 20.83 20.86 20.56 20.60 20.66	22.00 22.00 22.00 22.00 22.00 22.00 22.00
		25 25 50 1 1	0 13 25 0 0 25 49	20.93 20.98 20.92 20.50 20.72 20.38	20.90 20.87 20.93 20.91 20.78 20.72	20.96 20.84 20.83 20.86 20.56 20.60	22.00 22.00 22.00 22.00 22.00 22.00



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Bandwidth Modulation				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	132047	132322	132597	Tune up
		1	0	21.03	21.07	21.17	22.00
		1	38	21.12	21.12	21.00	22.00
		1	74	21.18	20.99	21.11	22.00
	QPSK	36	0	20.89	21.06	20.87	22.00
	·	36	18	20.96	20.94	20.86	22.00
		36	39	20.94	20.99	20.93	22.00
		75	0	20.93	20.91	20.89	22.00
		1	0	20.86	20.88	20.91	22.00
		1	38	20.85	20.83	20.86	22.00
		1	74	20.85	20.82	20.87	22.00
15MHz	16QAM	36	0	20.89	20.82	20.88	22.00
		36	18	20.84	20.88	20.90	22.00
		36	39	20.84	20.88	20.92	22.00
		75	0	20.85	20.95	20.89	22.00
		1	0	20.50	20.93	20.87	22.00
		1	38	20.67	20.71	20.60	22.00
	64QAM	1	74	20.38	20.69	20.52	22.00
		36	0	20.67	20.78	20.61	22.00
		36	18	20.66	20.58	20.59	22.00
		36	39	20.68	20.66	20.88	22.00
		75	0	20.60	20.94	20.45	22.00
Dondwidth	Madulation	DD cize	DR offeet	Channel	Channel	Channel	Tunatun
Bandwidth	Modulation	RB size	RB offset	132072	132322	132572	Tune up
		1	0	21.07	21.21	21.17	22.00
			50				22.00
		1	50	21.09	21.20	21.16	22.00
		1	99	21.09 21.05	21.20 20.99	21.16 21.05	22.00
	QPSK						
	QPSK	1	99	21.05	20.99	21.05	22.00
	QPSK	1 50	99 0	21.05 21.02	20.99 21.13	21.05 21.09	22.00 22.00
	QPSK	1 50 50	99 0 25	21.05 21.02 20.87	20.99 21.13 20.91	21.05 21.09 20.85	22.00 22.00 22.00
	QPSK	1 50 50 50	99 0 25 50	21.05 21.02 20.87 20.91	20.99 21.13 20.91 20.87	21.05 21.09 20.85 20.89	22.00 22.00 22.00 22.00
	QPSK	1 50 50 50 50	99 0 25 50 0	21.05 21.02 20.87 20.91 20.88	20.99 21.13 20.91 20.87 21.03	21.05 21.09 20.85 20.89 20.89	22.00 22.00 22.00 22.00 22.00
	QPSK	1 50 50 50 100	99 0 25 50 0	21.05 21.02 20.87 20.91 20.88 20.93 20.91 20.93	20.99 21.13 20.91 20.87 21.03 20.90	21.05 21.09 20.85 20.89 20.89 20.79	22.00 22.00 22.00 22.00 22.00 22.00
20MHz	QPSK 16QAM	1 50 50 50 100 1	99 0 25 50 0 0 50	21.05 21.02 20.87 20.91 20.88 20.93 20.91	20.99 21.13 20.91 20.87 21.03 20.90 20.84	21.05 21.09 20.85 20.89 20.89 20.79 20.89	22.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz		1 50 50 50 100 1 1 1	99 0 25 50 0 0 50 99	21.05 21.02 20.87 20.91 20.88 20.93 20.91 20.93	20.99 21.13 20.91 20.87 21.03 20.90 20.84 20.88	21.05 21.09 20.85 20.89 20.89 20.79 20.89 20.88	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz		1 50 50 50 100 1 1 1 1 50	99 0 25 50 0 0 50 99	21.05 21.02 20.87 20.91 20.88 20.93 20.91 20.93 20.93	20.99 21.13 20.91 20.87 21.03 20.90 20.84 20.88 20.81	21.05 21.09 20.85 20.89 20.89 20.79 20.89 20.88 20.89	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz		1 50 50 50 100 1 1 1 1 50	99 0 25 50 0 0 50 99 0 25 50	21.05 21.02 20.87 20.91 20.88 20.93 20.91 20.93 20.89 20.89	20.99 21.13 20.91 20.87 21.03 20.90 20.84 20.88 20.81 20.92	21.05 21.09 20.85 20.89 20.79 20.89 20.88 20.89 20.94	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz		1 50 50 50 100 1 1 1 1 50 50	99 0 25 50 0 0 50 99 0 25 50 0	21.05 21.02 20.87 20.91 20.88 20.93 20.91 20.93 20.89 20.87 20.92	20.99 21.13 20.91 20.87 21.03 20.90 20.84 20.88 20.81 20.92 20.87	21.05 21.09 20.85 20.89 20.79 20.89 20.88 20.89 20.94 20.91	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz		1 50 50 50 100 1 1 1 1 50 50 50	99 0 25 50 0 0 50 99 0 25 50	21.05 21.02 20.87 20.91 20.88 20.93 20.91 20.93 20.89 20.87 20.92 20.95	20.99 21.13 20.91 20.87 21.03 20.90 20.84 20.88 20.81 20.92 20.87	21.05 21.09 20.85 20.89 20.89 20.79 20.89 20.88 20.89 20.94 20.91	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz		1 50 50 50 100 1 1 1 1 50 50 50 100	99 0 25 50 0 0 50 99 0 25 50 0	21.05 21.02 20.87 20.91 20.88 20.93 20.91 20.93 20.89 20.87 20.92 20.95 20.50	20.99 21.13 20.91 20.87 21.03 20.90 20.84 20.88 20.81 20.92 20.87 20.87	21.05 21.09 20.85 20.89 20.89 20.89 20.88 20.89 20.94 20.91 20.87 20.82	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz		1 50 50 50 100 1 1 1 1 50 50 50 100 1	99 0 25 50 0 0 50 99 0 25 50 0	21.05 21.02 20.87 20.91 20.88 20.93 20.91 20.93 20.89 20.87 20.92 20.95 20.50 20.70	20.99 21.13 20.91 20.87 21.03 20.90 20.84 20.88 20.81 20.92 20.87 20.87 20.89 20.67	21.05 21.09 20.85 20.89 20.79 20.89 20.88 20.89 20.94 20.91 20.87 20.82 20.60	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz	16QAM	1 50 50 50 100 1 1 1 50 50 50 100 1 1	99 0 25 50 0 0 50 99 0 25 50 0 0	21.05 21.02 20.87 20.91 20.88 20.93 20.91 20.93 20.89 20.87 20.92 20.95 20.50 20.70 20.51	20.99 21.13 20.91 20.87 21.03 20.90 20.84 20.88 20.81 20.92 20.87 20.87 20.89 20.67 20.69	21.05 21.09 20.85 20.89 20.79 20.89 20.88 20.89 20.94 20.91 20.87 20.82 20.60 20.65	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00
20MHz	16QAM	1 50 50 50 100 1 1 1 1 50 50 100 1 1 1 1	99 0 25 50 0 0 50 99 0 25 50 0 0 0 50	21.05 21.02 20.87 20.91 20.88 20.93 20.91 20.93 20.89 20.87 20.92 20.95 20.50 20.70 20.51 20.63	20.99 21.13 20.91 20.87 21.03 20.90 20.84 20.88 20.81 20.92 20.87 20.87 20.89 20.67 20.69 20.70	21.05 21.09 20.85 20.89 20.89 20.89 20.88 20.89 20.94 20.91 20.87 20.82 20.60 20.65 20.69	22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00 22.00



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	LTE Band	71 All off			Conducted	Power(dBm)	
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	133147	133322	133447	Tune up
		1	0	23.27	23.42	23.29	25.00
		1	13	23.25	23.31	23.27	25.00
		1	24	23.29	23.27	23.25	25.00
	QPSK	12	0	22.34	22.32	22.24	24.00
		12	6	22.32	22.25	22.23	24.00
		12	13	22.30	22.31	22.21	24.00
		25	0	22.31	22.18	22.29	24.00
		1	0	22.22	22.29	22.32	24.00
		1	13	22.32	22.26	22.23	24.00
		1	24	22.23	22.25	22.24	24.00
5MHz	16QAM	12	0	21.32	21.33	21.29	23.00
		12	6	21.27	21.31	21.26	23.00
		12	13	21.31	21.23	21.25	23.00
		25	0	21.25	21.23	21.19	23.00
		1	0	20.79	21.33	20.88	23.00
	64QAM  Modulation	1	13	21.11	21.17	20.98	23.00
		1	24	21.14	20.82	20.85	23.00
		12	0	20.15	19.86	19.83	22.00
		12	6	20.12	20.32	19.81	22.00
		12	13	20.06	20.12	20.08	22.00
		25	0	19.74	19.97	20.22	22.00
Bandwidth		RB size	RB offset	Channel	Channel	Channel	Tune up
				133172	133322	133422	•
		1	0	23.20	23.48	23.23	25.00
	-	1	25	23.28	23.29	23.20	25.00
	0.0014	1	49	23.30	23.39	23.16	25.00
	QPSK	25	0	22.21	22.44	22.20	24.00
	-	25	13	22.33	22.23	22.22	24.00
		25	25	22.20	22.17	22.25	24.00
		50	0	22.20	22.31	22.34	24.00
		1	0	22.27	22.30	22.24	24.00
		1	25	22.26	22.33	22.27	24.00
40844-	160 4 14	1 25	49 0	22.17	22.19	22.31	24.00
10MHz	16QAM	25 25		21.20	21.23	21.28	23.00 23.00
		25 25	13	21.24	21.14	21.32	
		25 50	25 0	21.17	21.20	21.16	23.00
		1	0	21.19 20.79	21.30 21.34	21.25 20.81	23.00
		<u> </u>	25			20.61	23.00
		<u> </u>	49	21.21 21.26	21.16 20.86	20.94	23.00
	64QAM	<u> </u> 25	0	20.18	19.80	19.82	22.00
	UTQAW	25 25	13	20.18	20.26	19.62	22.00
		25 25	25	20.04	20.26	20.00	22.00
		50	0	19.78	19.97	20.00	22.00



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Randwidth Modulation				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	133197	133322	133397	Tune up
		1	0	23.16	23.51	23.33	25.00
		<u></u>	38	23.32	23.21	23.28	25.00
		<u></u>	74	23.32	23.30	23.31	25.00
	QPSK	36	0	22.23	22.38	22.24	24.00
	QISK	36	18	22.29	22.18	22.14	24.00
		36	39	22.29	22.16	22.14	24.00
		75	0	22.30	22.25	22.14	24.00
		1	0	22.28	22.25	22.23	24.00
		1	38	22.15	22.23	22.25	24.00
		1	74	22.25	22.16	22.33	24.00
15MHz	16QAM	36	0	21.29	21.16	21.23	23.00
1 JIVII 12	TOQAW	36	18	21.30	21.10	21.22	23.00
		36	39	21.31	21.19	21.24	23.00
		75	0	21.16	21.25	21.20	23.00
	64QAM	1	0	20.74	21.28	20.83	23.00
		1	50	21.23	21.14	20.89	23.00
		1	99	21.12	20.87	20.95	23.00
		50	0	20.03	19.87	19.91	22.00
		50	25	20.14	20.21	19.80	22.00
		50	50	20.03	20.16	20.02	22.00
		100	0	19.77	19.92	20.08	22.00
					01 1	01 1	
Daniel dela	Marshalladian	DD -:	DD - # 4	Channel	Channel	Channel	<b>T</b>
Bandwidth	Modulation	RB size	RB offset	133222	133322	133372	Tune up
Bandwidth	Modulation	RB size	RB offset				Tune up 25.00
Bandwidth	Modulation			133222	133322	133372	·
Bandwidth	Modulation	1	0	133222 23.24	133322 23.52	133372 23.34	25.00
Bandwidth	Modulation QPSK	1	0 50	133222 23.24 23.17	133322 23.52 23.31	133372 23.34 23.18	25.00 25.00
Bandwidth		1 1 1	0 50 99	133222 23.24 23.17 23.18	133322 23.52 23.31 23.24	133372 23.34 23.18 23.16	25.00 25.00 25.00
Bandwidth		1 1 1 50	0 50 99 0	133222 23.24 23.17 23.18 22.32	133322 23.52 23.31 23.24 22.32	133372 23.34 23.18 23.16 22.24	25.00 25.00 25.00 24.00
Bandwidth		1 1 1 50 50	0 50 99 0 25	133222 23.24 23.17 23.18 22.32 22.20	133322 23.52 23.31 23.24 22.32 22.20	133372 23.34 23.18 23.16 22.24 22.16	25.00 25.00 25.00 24.00 24.00
Bandwidth		1 1 1 50 50 50	0 50 99 0 25 50	133222 23.24 23.17 23.18 22.32 22.20 22.19	133322 23.52 23.31 23.24 22.32 22.20 22.31	133372 23.34 23.18 23.16 22.24 22.16 22.23	25.00 25.00 25.00 24.00 24.00 24.00
Bandwidth		1 1 1 50 50 50 50	0 50 99 0 25 50	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25	25.00 25.00 25.00 24.00 24.00 24.00 24.00
Bandwidth		1 1 1 50 50 50 100	0 50 99 0 25 50 0	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24 22.22	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.28	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00
Bandwidth 20MHz		1 1 1 50 50 50 100 1	0 50 99 0 25 50 0	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15 22.23	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24 22.22 22.27	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.28 22.18	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00
	QPSK	1 1 1 50 50 50 100 1 1 1 1 50 50	0 50 99 0 25 50 0 0 50	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15 22.23 22.17	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24 22.22 22.27 22.22	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.25 22.28 22.17	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00
	QPSK	1 1 1 50 50 50 100 1 1 1 1 50 50	0 50 99 0 25 50 0 0 50 99 0	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15 22.23 22.17 21.18 21.28 21.18	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24 22.22 22.27 22.22 21.26 21.23 21.20	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.28 22.18 22.17 21.30 21.19 21.17	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00
	QPSK	1 1 1 50 50 50 100 1 1 1 1 50 50	0 50 99 0 25 50 0 0 50 99 0 25 50	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15 22.23 22.17 21.18 21.28 21.28 21.23	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24 22.22 22.27 22.22 21.26 21.23 21.20 21.25	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.28 22.18 22.17 21.30 21.19	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00
	QPSK	1 1 1 50 50 50 100 1 1 1 1 50 50 50	0 50 99 0 25 50 0 0 50 99 0 25 50	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15 22.23 22.17 21.18 21.28 21.28 21.23 20.66	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24 22.22 22.27 22.22 21.26 21.23 21.20 21.25 21.27	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.28 22.17 21.30 21.19 21.17 21.30 20.74	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00
	QPSK	1 1 1 50 50 50 100 1 1 1 1 50 50 50	0 50 99 0 25 50 0 0 50 99 0 25 50 0	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15 22.23 22.17 21.18 21.28 21.18 21.23 20.66 21.13	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24 22.22 22.27 22.22 21.26 21.23 21.20 21.25 21.27 21.16	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.28 22.18 22.17 21.30 21.19 21.17 21.30	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
	QPSK 16QAM	1 1 1 50 50 50 100 1 1 1 1 50 50 50 100 1 1 1 1	0 50 99 0 25 50 0 0 50 99 0 25 50 0 0 25	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15 22.23 22.17 21.18 21.28 21.18 21.23 20.66 21.13 21.21	133322 23.52 23.31 23.24 22.32 22.31 22.24 22.22 22.27 22.22 21.26 21.23 21.20 21.25 21.27 21.16 20.89	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.28 22.18 22.17 21.30 21.19 21.17 21.30 20.74 20.92 20.87	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
	QPSK	1 1 1 50 50 50 100 1 1 1 1 50 50 100 1 1 1 1	0 50 99 0 25 50 0 0 50 99 0 25 50 0 0 0 25 50	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15 22.23 22.17 21.18 21.28 21.18 21.28 21.18 21.23 20.66 21.13 21.21 20.15	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24 22.22 22.27 22.22 21.26 21.23 21.20 21.25 21.27 21.16 20.89 19.87	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.28 22.18 22.17 21.30 21.19 21.17 21.30 20.74 20.92 20.87 19.86	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00
	QPSK 16QAM	1 1 1 1 50 50 100 1 1 1 1 50 50 100 1 1 1 1	0 50 99 0 25 50 0 0 50 99 0 25 50 0 0 0 25 50 99	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15 22.23 22.17 21.18 21.28 21.18 21.23 20.66 21.13 21.21 20.15 20.18	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24 22.22 22.27 22.22 21.26 21.23 21.20 21.25 21.27 21.16 20.89 19.87 20.24	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.28 22.18 22.17 21.30 21.19 21.17 21.30 20.74 20.92 20.87 19.86 19.90	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00
	QPSK 16QAM	1 1 1 50 50 50 100 1 1 1 1 50 50 100 1 1 1 1	0 50 99 0 25 50 0 0 50 99 0 25 50 0 0 0 25 50	133222 23.24 23.17 23.18 22.32 22.20 22.19 22.21 22.15 22.23 22.17 21.18 21.28 21.18 21.28 21.18 21.23 20.66 21.13 21.21 20.15	133322 23.52 23.31 23.24 22.32 22.20 22.31 22.24 22.22 22.27 22.22 21.26 21.23 21.20 21.25 21.27 21.16 20.89 19.87	133372 23.34 23.18 23.16 22.24 22.16 22.23 22.25 22.28 22.18 22.17 21.30 21.19 21.17 21.30 20.74 20.92 20.87 19.86	25.00 25.00 25.00 24.00 24.00 24.00 24.00 24.00 24.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00 23.00



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#### 8.1.4 Conducted Power of WIFI

		WIFI 2.4	GHz All off			
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	1	2412		19.55	21.00	Yes
802.11b	6	2437	1	20.13	21.00	Yes
	11	2462		20.18	21.00	Yes
	1	2412		16.67	18.50	No
802.11g	6	2437	6	16.89	18.50	No
	11	2462		16.88	18.50	No
	1	2412		16.98	18.50	No
802.11n	6	2437	6.5	17.01	18.50	No
HT20	11	2462		17.03	18.50	No
	3	2422		13.06	14.50	No
802.11n	6	2437	6.5	13.48	14.50	No
HT40	9	2452		13.51	14.50	No

		WIFI 2.4GHz	z Receiver on			
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	1	2412		15.72	15.72 17.00	
802.11b	6	2437	1	16.18	17.00	Yes
	11	2462		16.16	17.00	Yes
	1	2412		15.23	17.00	No
802.11g	6	2437	6	15.37	17.00	No
	11	2462		15.31	17.00	No
	1	2412		15.52	17.00	No
802.11n HT20	6	2437	6.5	15.55	17.00	No
11120	11	2462		15.53	17.00	No
	3	2422		13.06	14.50	No
802.11n HT40	6	2437	6.5	13.48	14.50	No
	9	2452		13.51	14.50	No

	WIFI 2.4GHz Sensor on											
Mode	Channel Frequency(MHz)		Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test						
	1	2412		14.79	16.00	Yes						
802.11b	6	2437	1	15.17	16.00	Yes						
	11	2462		15.13	16.00	Yes						
000 44 =	1	2412		14.43	16.00	No						
802.11g	6	2437	6	14.49	16.00	No						



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	11	2462		14.33	16.00	No
	1	2412		14.56	16.00	No
802.11n HT20	6	2437	6.5	14.51	16.00	No
20	11	2462		14.50	16.00	No
	3	2422		13.06	14.50	No
802.11n HT40	6	2437	6.5	13.48	14.50	No
	9	2452		13.51	14.50	No

#### 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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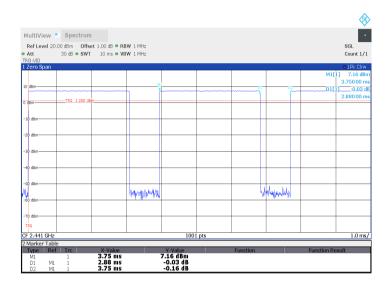


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#### 8.1.5 Conducted Power of BT

BT DH5 Duty Cycle=76.80%



Е	ВТ	Average Conducted Power(dBm)						
Band	Channel	0	39	78	Tune up			
	GFSK	6.65	7.71	6.76	8.00			
BT	π/4DQPSK	3.21	4.11	3.23	5.00			
	8DPSK	3.34	4.13	3.25	5.00			
Band	Channel	0	19	39	Tune up			
BLE 1M	GFSK	6.03	7.18	6.24	8.00			

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	Position	Average Power		Test Separation	Calculate	Exclusion	Exclusion
	(GHz)		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
		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	Υ

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)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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.



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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.(℃)
					Hea	nd Test Data				
Left cheek	GSM	190/836.6	1:8.3	0.215	-0.17	32.74	34.00	1.337	0.287	21.5
Left tilted	GSM	190/836.6	1:8.3	0.140	0.06	32.74	34.00	1.337	0.187	21.5
Right cheek	GSM	190/836.6	1:8.3	0.284	0.04	32.74	34.00	1.337	0.380	21.5
Right tilted	GSM	190/836.6	1:8.3	0.180	0.13	32.74	34.00	1.337	0.241	21.5
				Body	worn Tes	t data(Separate 15n	nm)			
Front side	GSM	190/836.6	1:8.3	0.237	-0.06	32.74	34.00	1.337	0.317	21.5
Back side	GSM	190/836.6	1:8.3	0.267	0.12	32.74	34.00	1.337	0.357	21.5
				Hot	spot Test	data(Separate 10mr	n)			
Front side	GPRS 4TS	190/836.6	1:2.075	0.400	0.05	28.51	29.00	1.119	0.448	21.5
Back side	GPRS 4TS	190/836.6	1:2.075	0.499	0.02	28.51	29.00	1.119	0.559	21.5
Left side	GPRS 4TS	190/836.6	1:2.075	0.237	0.16	28.51	29.00	1.119	0.265	21.5
Right side	GPRS 4TS	190/836.6	1:2.075	0.416	-0.02	28.51	29.00	1.119	0.466	21.5
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.171	0.14	28.51	29.00	1.119	0.191	21.5

Table 11: SAR of GSM 850 for Head and Body



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#### 8.3.2 SAR Result of GSM 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	0.361	0.06	26.89	28.00	1.291	0.466	22.5		
Left tilted	GSM	661/1880	1:8.3	0.414	-0.03	26.89	28.00	1.291	0.535	22.5		
Right cheek	GSM	661/1880	1:8.3	0.507	-0.04	26.89	28.00	1.291	0.655	22.5		
Right tilted	GSM	661/1880	1:8.3	0.489	0.05	26.89	28.00	1.291	0.631	22.5		
				Body wor	n Test da	ıta(Separate 15mm	ı)					
Front side	GSM	661/1880	1:8.3	0.281	-0.05	29.81	31.00	1.315	0.370	22.5		
Back side	GSM	661/1880	1:8.3	0.363	0.18	29.81	31.00	1.315	0.477	22.5		
				Hotspot	Test data	a(Separate 10mm)						
Front side	GPRS 4TS	661/1880	1:2.075	0.280	0.14	23.08	24.00	1.236	0.346	22.5		
Back side	GPRS 4TS	661/1880	1:2.075	0.647	0.05	23.08	24.00	1.236	0.800	22.5		
Back side	GPRS 4TS	512/1850.2	1:2.075	0.558	0.01	22.94	24.00	1.276	0.712	22.5		
Back side	GPRS 4TS	810/1909.8	1:2.075	0.560	0.06	22.64	24.00	1.368	0.766	22.5		
Left side	GPRS 4TS	661/1880	1:2.075	0.185	0.05	23.08	24.00	1.236	0.229	22.5		
Top side	GPRS 4TS	661/1880	1:2.075	0.378	0.05	23.08	24.00	1.236	0.467	22.5		
				Hots	pot Test c	lata(Sensor off)						
Front side-12mm	GPRS 4TS	661/1880	1:2.075	0.334	0.03	24.92	26.00	1.282	0.428	22.5		
Back side-15mm	GPRS 4TS	661/1880	1:2.075	0.355	0.09	24.92	26.00	1.282	0.455	22.5		
Left side-16mm	GPRS 4TS	661/1880	1:2.075	0.134	0.01	24.92	26.00	1.282	0.172	22.5		
Top side-22mm	GPRS 4TS	661/1880	1:2.075	0.194	0.05	24.92	26.00	1.282	0.249	22.5		

Table 12: 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 Test Data									
Left cheek	RMC	9400/1880	1:1	0.474	0.04	18.85	19.50	1.161	0.551	22.5
Left tilted	RMC	9400/1880	1:1	0.548	0.08	18.85	19.50	1.161	0.636	22.5
Right cheek	RMC	9400/1880	1:1	0.568	0.01	18.85	19.50	1.161	0.660	22.5
Right tilted	RMC	9400/1880	1:1	0.634	0.05	18.85	19.50	1.161	0.736	22.5
			Body w	orn Test c	lata(Sepa	rate 15mm)				
Front side	RMC	9400/1880	1:1	0.455	0.02	23.74	24.50	1.191	0.542	22.5
Back side	RMC	9400/1880	1:1	0.748	0.13	23.74	24.50	1.191	0.891	22.5
Back side	RMC	9262/1852.4	1:1	0.768	0.05	23.45	24.50	1.274	0.978	22.5
Back side	RMC	9538/1907.6	1:1	0.725	0.17	23.68	24.50	1.208	0.876	22.5
			Hotsp	ot Test da	ta(Separa	ate 10mm)				
Front side	RMC	9400/1880	1:1	0.208	0.14	19.54	20.50	1.247	0.259	22.5
Back side	RMC	9400/1880	1:1	0.482	-0.06	19.54	20.50	1.247	0.601	22.5
Left side	RMC	9400/1880	1:1	0.123	0.12	19.54	20.50	1.247	0.153	22.5
Top side	RMC	9400/1880	1:1	0.316	-0.09	19.54	20.50	1.247	0.394	22.5
			Hot	tspot Test	data(Ser	sor off)				
Front side-12mm	RMC	9400/1880	1:1	0.494	0.01	23.74	24.50	1.191	0.588	22.5
Back side-15mm	RMC	9262/1852.4	1:1	0.768	0.05	23.45	24.50	1.274	0.978	22.5
Left side-16mm	RMC	9400/1880	1:1	0.128	-0.05	23.74	24.50	1.191	0.152	22.5
Top side-22mm	RMC	9400/1880	1:1	0.287	0.03	23.74	24.50	1.191	0.342	22.5

Table 13: SAR of WCDMA Band II for Head and Body



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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)
				Н	ead Test [	Data				
Left cheek	RMC	1412/1732.4	1:1	0.370	0.01	18.63	19.50	1.222	0.452	22.3
Left tilted	RMC	1412/1732.4	1:1	0.475	0.05	18.63	19.50	1.222	0.580	22.3
Right cheek	RMC	1412/1732.4	1:1	0.603	0.14	18.63	19.50	1.222	0.737	22.3
Right tilted	RMC	1412/1732.4	1:1	0.520	0.03	18.63	19.50	1.222	0.635	22.3
			Во	dy worn T	est data(S	eparate 15mm)				
Front side	RMC	1412/1732.4	1:1	0.438	0.08	23.66	24.50	1.213	0.531	22.3
Back side	RMC	1412/1732.4	1:1	0.640	0.11	23.66	24.50	1.213	0.777	22.3
			Н	otspot Tes	st data(Se	parate 10mm)				
Front side	RMC	1412/1732.4	1:1	0.289	0.12	20.82	21.50	1.169	0.338	22.3
Back side	RMC	1412/1732.4	1:1	0.528	0.04	20.82	21.50	1.169	0.617	22.3
Left side	RMC	1412/1732.4	1:1	0.150	0.07	20.82	21.50	1.169	0.175	22.3
Top side	RMC	1412/1732.4	1:1	0.315	-0.13	20.82	21.50	1.169	0.368	22.3
				Hotspot	Test data(	Sensor off)				
Front side-12mm	RMC	1412/1732.4	1:1	0.485	0.02	23.66	24.50	1.213	0.588	22.5
Back side-15mm	RMC	1412/1732.4	1:1	0.640	0.11	23.66	24.50	1.213	0.777	22.5
Left side-16mm	RMC	1412/1732.4	1:1	0.146	0.09	23.66	24.50	1.213	0.177	22.5
Top side-22mm	RMC	1412/1732.4	1:1	0.321	-0.05	23.66	24.50	1.213	0.389	22.5

Table 14: SAR of WCDMA 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.(℃)
					Head To	est Data				
Left cheek	RMC	4182/836.4	1:1	0.279	0.14	23.56	24.50	1.242	0.346	21.5
Left tilted	RMC	4182/836.4	1:1	0.176	-0.12	23.56	24.50	1.242	0.219	21.5
Right cheek	RMC	4182/836.4	1:1	0.294	0.14	23.56	24.50	1.242	0.365	21.5
Right tilted	RMC	4182/836.4	1:1	0.169	0.06	23.56	24.50	1.242	0.210	21.5
				Body wo	rn Test da	ta(Separate 15mn	n)			
Front side	RMC	4182/836.4	1:1	0.283	0.04	23.56	24.50	1.242	0.351	21.5
Back side	RMC	4182/836.4	1:1	0.322	0.14	23.56	24.50	1.242	0.400	21.5
				Hotspo	t Test data	(Separate 10mm)	1			
Front side	RMC	4182/836.4	1:1	0.295	0.03	23.56	24.50	1.242	0.366	21.5
Back side	RMC	4182/836.4	1:1	0.368	0.15	23.56	24.50	1.242	0.457	21.5
Left side	RMC	4182/836.4	1:1	0.211	0.09	23.56	24.50	1.242	0.262	21.5
Right side	RMC	4182/836.4	1:1	0.313	0.10	23.56	24.50	1.242	0.389	21.5
Bottom side	RMC	4182/836.4	1:1	0.104	0.02	23.56	24.50	1.242	0.129	21.5

Table 15: SAR of WCDAM V 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)		Scaled	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head Te	st Data(1I	RB)					
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.155	0.09	24.49	25.50	1.262	0.196	22.5
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.073	-0.14	24.49	25.50	1.262	0.092	22.5
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.178	0.01	24.49	25.50	1.262	0.225	22.5
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.071	0.05	24.49	25.50	1.262	0.090	22.5
				Head Test	Data(509	6RB)					
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.135	0.02	23.46	24.50	1.271	0.172	22.5
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.059	0.12	23.46	24.50	1.271	0.075	22.5
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.142	0.03	23.46	24.50	1.271	0.180	22.5
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.060	0.14	23.46	24.50	1.271	0.077	22.5
			Body wo	rn Test da	ta(Separa	te 15mm	1RB)				
Front side	10	QPSK 1_0	23095/707.5	1:1	0.198	0.14	24.49	25.50	1.262	0.250	22.5
Back side	10	QPSK 1_0	23095/707.5	1:1	0.279	-0.05	24.49	25.50	1.262	0.352	22.5
			Body worn	Test data	(Separate	15mm 5	0%RB)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.165	-0.07	23.46	24.50	1.271	0.210	22.5
Back side	10	QPSK 25_0	23095/707.5	1:1	0.223	0.04	23.46	24.50	1.271	0.283	22.5
			Hotspot	Test data	(Separate	10mm 1	RB)				
Front side	10	QPSK 1_0	23095/707.5	1:1	0.231	0.07	24.49	25.50	1.262	0.291	22.5
Back side	10	QPSK 1_0	23095/707.5	1:1	0.322	0.12	24.49	25.50	1.262	0.406	22.5
Left side	10	QPSK 1_0	23095/707.5	1:1	0.257	0.03	24.49	25.50	1.262	0.324	22.5
Rightt side	10	QPSK 1_0	23095/707.5	1:1	0.232	-0.16	24.49	25.50	1.262	0.293	22.5
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.029	0.18	24.49	25.50	1.262	0.036	22.5
			Hotspot T	est data(S	Separate 1	0mm 50°	%RB)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.185	0.14	23.46	24.50	1.271	0.235	22.5
Back side	10	QPSK 25_0	23095/707.5	1:1	0.274	0.02	23.46	24.50	1.271	0.348	22.5
Left side	10	QPSK 25_0	23095/707.5	1:1	0.155	0.19	23.46	24.50	1.271	0.197	22.5
Rightt side	10	QPSK 25_0	23095/707.5	1:1	0.217	0.13	23.46	24.50	1.271	0.276	22.5
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.043	-0.11	23.46	24.50	1.271	0.055	22.5

Table 16: SAR of LTE band 12 for Head and Body.



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#### 8.3.7 SAR Result of LTE Band 25

0.0	0.3.7 SAR Result of LTE Datiu 23										
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.(℃
			L			t Data(1RE	3)			, , ,	,
Left cheek	20	QPSK 1 0	26365/1882.5	1:1	0.540	-0.01	19.70	20.50	1.202	0.649	22.5
Left tilted	20		26365/1882.5	1:1	0.602	0.02	19.70	20.50	1.202	0.724	22.5
Right cheek	20	_	26365/1882.5	1:1	0.711	0.01	19.70	20.50	1.202	0.855	22.5
Right cheek	20	QPSK 1 0	26140/1860	1:1	0.685	0.07	19.57	20.50	1.239	0.849	22.5
Right cheek	20	QPSK 1 0	26590/1905	1:1	0.719	-0.02	19.61	20.50	1.227	0.883	22.5
Right tilted	20	QPSK 1 0	26365/1882.5	1:1	0.721	0.11	19.70	20.50	1.202	0.867	22.5
Right tilted	20	QPSK 1 0	26140/1860	1:1	0.696	0.01	19.57	20.50	1.239	0.862	22.5
Right tilted	20	QPSK 1 0	26590/1905	1:1	0.702	0.02	19.61	20.50	1.227	0.862	22.5
J		_			Head Test	Data(50%F	RB)	•	•	•	
Left cheek	20	QPSK 50_0	26365/1882.5	1:1	0.591	0.08	19.63	20.50	1.222	0.722	22.5
Left tilted	20	QPSK 50 0	26365/1882.5	1:1	0.655	0.05	19.63	20.50	1.222	0.800	22.5
Left tilted	20	QPSK 50_0	26365/1882.5	1:1	0.694	0.03	19.53	20.50	1.250	0.868	22.5
Left tilted	20	QPSK 50_0	26365/1882.5	1:1	0.658	0.02	19.45	20.50	1.274	0.838	22.5
Right cheek	20	QPSK 50_0	26365/1882.5	1:1	0.703	0.02	19.63	20.50	1.222	0.859	22.5
Right cheek	20	QPSK 50_0	26140/1860	1:1	0.712	0.11	19.53	20.50	1.250	0.890	22.5
Right cheek	20	QPSK 50_0	26590/1905	1:1	0.670	0.01	19.45	20.50	1.274	0.853	22.5
Right tilted	20	QPSK 50_0	26365/1882.5	1:1	0.744	0.07	19.63	20.50	1.222	0.909	22.5
Right tilted	20	QPSK 50_0	26140/1860	1:1	0.721	0.01	19.53	20.50	1.250	0.901	22.5
Right tilted	20	QPSK 50_0	26590/1905	1:1	0.702	0.03	19.45	20.50	1.274	0.894	22.5
				H	lead Test D	Data(100%	RB)				
Left tilted	20	QPSK 100_0	26365/1882.5	1:1	0.672	0.02	19.58	20.50	1.236	0.831	22.5
Right cheek	20	QPSK 100_0	26365/1882.5	1:1	0.686	0.01	19.58	20.50	1.236	0.848	22.5
Right tilted	20	QPSK 100_0	26365/1882.5	1:1	0.721	0.01	19.58	20.50	1.236	0.891	22.5
				Body wor	n Test data	a(Separate	15mm 1RB)				
Front side	20	QPSK 1_0	26365/1882.5	1:1	0.464	-0.02	23.85	25.50	1.462	0.678	22.5
Back side	20	QPSK 1_0	26365/1882.5	1:1	0.726	0.05	23.85	25.50	1.462	1.062	22.5
Back side	20	QPSK 1_0	26140/1860	1:1	0.791	0.10	23.76	25.50	1.493	1.181	22.5
Back side	20	QPSK 1_0	26590/1905	1:1	0.745	0.04	23.70	25.50	1.514	1.128	22.5
	ļ 1		E	Body worn	Test data(	Separate 1	5mm 50%RB)	T	T	1	T
Front side	20	QPSK 50_0	26365/1882.5	1:1	0.402	-0.01	22.96	24.50	1.426	0.573	22.5
Back side			26365/1882.5	1:1	0.712	0.03	22.96	24.50	1.426	1.015	22.5
Back side	20	QPSK 50_0	26140/1860	1:1	0.645	0.09	22.95	24.50	1.429	0.922	22.5
Back side	20	QPSK 50_0	26590/1905	1:1	0.707	-0.08	22.95	24.50	1.429	1.010	22.5
	1 1						5mm 100%RB)	Ι	1		1
Back side	20	QPSK 100_0	26365/1882.5	1:1	0.658	0.19	22.80	24.50	1.479	0.973	22.5
				Hotspot	,		0mm 1RB)	l	1		
Front side	20		26365/1882.5	1:1	0.269	0.09	20.69	21.50	1.205	0.324	22.5
Back side	20		26365/1882.5	1:1	0.574	0.01	20.69	21.50	1.205	0.692	22.5
Left side	20		26365/1882.5	1:1	0.129	0.14	20.69	21.50	1.205	0.155	22.5
Top side	20	QPSK 1_0	26365/1882.5	1:1	0.337	-0.08	20.69	21.50	1.205	0.406	22.5
	Hotspot Test data(Separate 10mm 50%RB)										



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1		1							•		
Front side	20	QPSK 50_0	26365/1882.5	1:1	0.302	0.02	20.62	21.50	1.225	0.370	22.5
Back side	20	QPSK 50_0	26365/1882.5	1:1	0.521	0.06	20.62	21.50	1.225	0.638	22.5
Left side	20	QPSK 50_0	26365/1882.5	1:1	0.141	-0.03	20.62	21.50	1.225	0.173	22.5
Top side	20	QPSK 50_0	26365/1882.5	1:1	0.369	0.04	20.62	21.50	1.225	0.452	22.5
	Hotspot Test data(Sensor off 1RB)										
Front side-12mm	20	QPSK 1_0	26365/1882.5	1:1	0.447	0.04	22.96	24.50	1.426	0.637	22.5
Back side-15mm	20	QPSK 1_0	26365/1882.5	1:1	0.726	0.05	23.85	25.50	1.462	1.062	22.5
Back side-15mm	20	QPSK 1_0	26140/1860	1:1	0.791	0.10	23.76	25.50	1.493	1.181	22.5
Back side-15mm	20	QPSK 1_0	26590/1905	1:1	0.745	0.04	23.70	25.50	1.514	1.128	22.5
Left side-16mm	20	QPSK 1_0	26365/1882.5	1:1	0.158	0.02	22.96	24.50	1.426	0.225	22.5
Top side-22mm	20	QPSK 1_0	26365/1882.5	1:1	0.278	0.09	22.96	24.50	1.426	0.396	22.5
				Hotspo	t Test data	(Sensor of	f 50%RB)				
Front side-12mm	20	QPSK 50_0	26365/1882.5	1:1	0.395	0.03	22.96	24.50	1.426	0.563	22.5
Back side-15mm	20	QPSK 50_0	26365/1882.5	1:1	0.712	0.03	22.96	24.50	1.426	1.015	22.5
Back side-15mm	20	QPSK 50_0	26140/1860	1:1	0.645	0.09	22.95	24.50	1.429	0.922	22.5
Back side-15mm	20	QPSK 50_0	26590/1905	1:1	0.707	-0.08	22.95	24.50	1.429	1.010	22.5
Left side-16mm	20	QPSK 50_0	26365/1882.5	1:1	0.133	-0.09	22.96	24.50	1.426	0.190	22.5
Top side-22mm	20	QPSK 50_0	26365/1882.5	1:1	0.216	0.07	22.96	24.50	1.426	0.308	22.5
	Hotspot Test data(Sensor off 100%RB)										
Back side-15mm	20	QPSK 100_0	26365/1882.5	1:1	0.658	0.19	22.80	24.50	1.479	0.973	22.5

Table 17: 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)		Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
				Head Te	est Data(1	RB)					
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.309	0.15	23.93	25.00	1.279	0.395	21.5
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.155	0.01	23.93	25.00	1.279	0.198	21.5
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.326	0.07	23.93	25.00	1.279	0.417	21.5
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.177	0.12	23.93	25.00	1.279	0.226	21.5
				Head Tes	t Data(50	%RB)					
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.259	0.09	22.98	24.00	1.265	0.328	21.5
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.150	0.06	22.98	24.00	1.265	0.190	21.5
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.273	0.08	22.98	24.00	1.265	0.345	21.5
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.190	-0.13	22.98	24.00	1.265	0.240	21.5
			Body wo	rn Test da	ta(Separa	ite 15mm	1RB)				
Front side	15	QPSK 1_0	26865/831.5	1:1	0.321	-0.17	23.93	25.00	1.279	0.411	21.5
Back side	15	QPSK 1_0	26865/831.5	1:1	0.369	0.02	23.93	25.00	1.279	0.472	21.5
			Body worr	n Test data	(Separate	e 15mm 5	50%RB)				
Front side	15	QPSK 36_0	26865/831.5	1:1	0.275	0.09	22.98	24.00	1.265	0.348	21.5
Back side	15	QPSK 36_0	26865/831.5	1:1	0.338	0.05	22.98	24.00	1.265	0.427	21.5
			Hotspo	t Test data	(Separate	e 10mm 1	RB)				
Front side	15	QPSK 1_0	26865/831.5	1:1	0.376	0.16	23.93	25.00	1.279	0.481	21.5
Back side	15	QPSK 1_0	26865/831.5	1:1	0.490	-0.08	23.93	25.00	1.279	0.627	21.5
Left side	15	QPSK 1_0	26865/831.5	1:1	0.250	0.18	23.93	25.00	1.279	0.320	21.5
Rightt side	15	QPSK 1_0	26865/831.5	1:1	0.384	-0.03	23.93	25.00	1.279	0.491	21.5
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.093	0.04	23.93	25.00	1.279	0.119	21.5
			Hotspot <sup>7</sup>	Γest data(S	Separate	10mm 50	%RB)				
Front side	15	QPSK 36_0	26865/831.5	1:1	0.269	0.17	22.98	24.00	1.265	0.340	21.5
Back side	15	QPSK 36_0	26865/831.5	1:1	0.373	0.02	22.98	24.00	1.265	0.472	21.5
Left side	15	QPSK 36_0	26865/831.5	1:1	0.226	-0.06	22.98	24.00	1.265	0.286	21.5
Rightt side	15	QPSK 36_0	26865/831.5	1:1	0.313	-0.19	22.98	24.00	1.265	0.396	21.5
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.083	0.07	22.98	24.00	1.265	0.105	21.5

Table 18: SAR of LTE Band 26 for Head and Body.



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#### 8.3.9 SAR Result of LTE Band 41

					SAR	Power		_		Scaled	
Test position	BW.	Test mode	Test ch./Freq.	Duty	(W/kg)	drift	Conducted	Tune up	Scaled	SAR 1-g	Liquid
				Cycle	1-g	(dB)	Power(dBm)	Limit(dBm)	factor	(W/kg)	Temp.(℃)
				Не	ad Test [	Data(1RB	)				
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.219	0.18	23.56	24.50	1.242	0.272	22.1
Left cheek-PC2	20	QPSK 1_0	40620/2593	1:2.33	0.301	0.08	26.62	27.50	1.225	0.369	22.1
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.049	0.03	23.56	24.50	1.242	0.060	22.1
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.158	-0.14	23.56	24.50	1.242	0.196	22.1
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.044	0.16	23.56	24.50	1.242	0.055	22.1
		T	1	Hea	d Test Da	ata(50%F	(B)	1	ı	1	
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.177	0.01	22.71	23.50	1.199	0.212	22.1
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.041	0.14	22.71	23.50	1.199	0.049	22.1
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.139	0.08	22.71	23.50	1.199	0.167	22.1
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.036	-0.11	22.71	23.50	1.199	0.043	22.1
		T	Body	/ worn Te	est data(S	Separate	15mm 1RB)	T	T	1	
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.278	-0.16	23.56	24.50	1.242	0.345	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.329	-0.20	23.56	24.50	1.242	0.409	22.1
Back side-PC2	20	QPSK 1_0	40620/2593	1:2.33	0.472	-0.04	26.62	27.50	1.225	0.578	22.1
		T	Body v	worn Tes	t data(Se	parate 15	mm 50%RB)	I	ı	1	
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.217	0.17	22.71	23.50	1.199	0.260	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.250	-0.02	22.71	23.50	1.199	0.300	22.1
		T	Hot	tspot Tes	t data(Se	parate 10	Omm 1RB)	T	T		
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.435	0.12	23.56	24.50	1.242	0.540	22.1
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.562	-0.03	23.56	24.50	1.242	0.698	22.1
Back side-PC2	20	QPSK 1_0	40620/2593	1:2.33	0.783	0.06	26.62	27.50	1.225	0.959	22.1
Back side-PC2	20	QPSK 1_0	40620/2593	1:2.33	0.711	0.03	26.32	27.50	1.312	0.933	22.1
Back side-PC2	20	QPSK 1_0	40620/2593	1:2.33	0.731	0.09	26.41	27.50	1.285	0.940	22.1
Back side-PC2	20	QPSK 1_0	40620/2593	1:2.33	0.762	-0.01	26.52	27.50	1.253	0.955	22.1
Back side-PC2	20	QPSK 1_0	40620/2593	1:2.33	0.746	0.02	26.46	27.50	1.271	0.948	22.1
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.511	0.03	23.38	24.50	1.294	0.661	22.1
Back side	20	QPSK 1_0	40185/2549.5	1:1.58	0.506	0.09	23.40	24.50	1.288	0.652	22.1
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.533	-0.11	23.34	24.50	1.306	0.696	22.1
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.531	0.07	23.42	24.50	1.282	0.681	22.1
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.236	0.09	23.56	24.50	1.242	0.293	22.1
Rightt side	20	QPSK 1_0	40620/2593	1:1.58	0.237	-0.14	23.56	24.50	1.242	0.294	22.1
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.542	-0.08	23.56	24.50	1.242	0.673	22.1
Bottom side	20	QPSK 1_0	39750/2506	1:1.58	0.507	0.05	23.38	24.50	1.294	0.656	22.1
Bottom side	20	QPSK 1_0	40185/2549.5	1:1.58	0.493	0.14	23.40	24.50	1.288	0.635	22.1
Bottom side	20	QPSK 1_0	41055/2636.5	1:1.58	0.516	0.03	23.34	24.50	1.306	0.674	22.1
Bottom side	20	QPSK 1_0	41490/2680	1:1.58	0.524	0.02	23.42	24.50	1.282	0.672	22.1
					_ <u>`                                     </u>		nm 50%RB)				
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.339	-0.16	23.56	24.50	1.242	0.421	22.1
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.505	0.02	23.56	24.50	1.242	0.627	22.1
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.461	0.03	23.38	23.50	1.028	0.474	22.1
Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.477	0.08	23.40	23.50	1.023	0.488	22.1



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Back side	20	QPSK 50_0	41055/2636.5	1:1.58	0.431	-0.09	23.34	23.50	1.038	0.447	22.1
Back side	20	QPSK 50_0	41490/2680	1:1.58	0.501	0.04	23.42	23.50	1.019	0.510	22.1
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.195	0.03	23.56	24.50	1.242	0.242	22.1
Rightt side	20	QPSK 50_0	40620/2593	1:1.58	0.250	0.11	23.56	24.50	1.242	0.310	22.1
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.453	-0.07	23.56	24.50	1.242	0.562	22.1
Bottom side	20	QPSK 50_0	39750/2506	1:1.58	0.411	0.13	23.38	23.50	1.028	0.423	22.1
Bottom side	20	QPSK 50_0	40185/2549.5	1:1.58	0.433	0.01	23.40	23.50	1.023	0.443	22.1
Bottom side	20	QPSK 50_0	41055/2636.5	1:1.58	0.402	0.09	23.34	23.50	1.038	0.417	22.1
Bottom side	20	QPSK 50_0	41490/2680	1:1.58	0.456	-0.08	23.42	23.50	1.019	0.464	22.1
			Hotsp	ot Test o	lata(Sepa	rate 10m	m 100%RB)				
Back side	20	QPSK 100_0	40620/2593	1:1.58	0.339	-0.16	23.56	24.50	1.242	0.421	22.1
Back side-PC2	20	QPSK 100_0	40620/2593	1:2.33	0.651	0.01	25.88	26.50	1.153	0.751	22.1
Bottom side	20	QPSK 100_0	40620/2593	1:1.58	0.505	0.02	23.56	24.50	1.242	0.627	22.1

Table 19: SAR of LTE Band 41 for Head and Body.

#### General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required

LTE Band 41(HPUE)-Linearity Data for Head								
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)						
Maximum Tune up Power (dBm)	24.50	27.50						
Reported 1g SAR (W/kg)	0.272	0.369						
Duty Cycle	63.30%	43.30%						
Frame Averaged (mW)	178.40	243.49						
Linearity SAR (W/kg)	0.371	1						
% deviation from expected linearity	1	-0.60%						

LTE Band 41	LTE Band 41(HPUE)-Linearity Data for Hotspot								
	LTE Band 41 (Power Class 3)	LTE Band 41 (Power Class 2)							
Maximum Tune up Power (dBm)	24.50	27.50							
Reported 1g SAR (W/kg)	0.698	0.959							
Duty Cycle	63.30%	43.30%							
Frame Averaged (mW)	178.40	243.49							
Linearity SAR (W/kg)	0.953	/							
% deviation from expected linearity	1	0.67%							

LTE Band 41(HPUE)-Linearity Data for Body-worn								
	LTE Band 41	LTE Band 41						
(Power Class 3) (Power Class 2)								



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Maximum Tune up Power (dBm)	24.50	27.50
Reported 1g SAR (W/kg)	0.409	0.578
Duty Cycle	63.30%	43.30%
Frame Averaged (mW)	178.40	243.49
Linearity SAR (W/kg)	0.558	1
% deviation from expected linearity	1	3.54%



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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.(℃)	
				Hea	d Test Da	ata(1RB)			ľ	•		
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.398	0.01	19.02	20.00	1.253	0.499	22.3	
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.471	0.01	19.02	20.00	1.253	0.590	22.3	
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.632	0.13	19.02	20.00	1.253	0.792	22.3	
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.546	0.06	19.02	20.00	1.253	0.684	22.3	
Head Test Data(50%RB)												
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.439	0.09	18.99	20.00	1.262	0.554	22.3	
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.508	0.01	18.99	20.00	1.262	0.641	22.3	
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.609	0.05	18.99	20.00	1.262	0.768	22.3	
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.585	0.05	18.99	20.00	1.262	0.738	22.3	
		I	Body	worn Tes	st data(Se	eparate 1	5mm 1RB)		T			
Front side	20	QPSK 1_0	132322/1745	1:1	0.400	-0.02	23.55	25.00	1.396	0.559	22.3	
Back side	20	QPSK 1_0	132322/1745	1:1	0.571	-0.07	23.55	25.00	1.396	0.797	22.3	
	1	1	Body wo	orn Test	data(Sep	arate 15	mm 50%RB)	Т	1	1		
Front side	20	QPSK 50_0	132322/1745	1:1	0.341	0.15	22.53	24.00	1.403	0.478	22.3	
Back side	20	QPSK 50_0	132322/1745	1:1	0.497	0.15	22.53	24.00	1.403	0.697	22.3	
		T .	Hots	oot Test	data(Sep	arate 10	mm 1RB)	T	ı	1		
Front side	20	QPSK 1_0	132322/1745	1:1	0.308	0.08	21.21	22.00	1.199	0.369	22.3	
Back side	20	QPSK 1_0	132322/1745	1:1	0.584	0.04	21.21	22.00	1.199	0.701	22.3	
Left side	20	QPSK 1_0	132322/1745	1:1	0.202	0.02	21.21	22.00	1.199	0.242	22.3	
Top side	20	QPSK 1_0	132322/1745	1:1	0.326	0.06	21.21	22.00	1.199	0.391	22.3	
	1	1	Hotspo	t Test da	ata(Sepa	rate 10m	m 50%RB)	T	ı	1		
Front side	20	QPSK 50_0	132322/1745	1:1	0.336	0.06	21.13	22.00	1.222	0.411	22.3	
Back side	20	QPSK 50_0	132322/1745	1:1	0.721	0.14	21.13	22.00	1.222	0.881	22.3	
Back side	20	QPSK 50_0	132072/1720	1:1	0.621	0.01	21.02	22.00	1.253	0.778	22.3	
Back side	20	QPSK 50_0	132572/1770	1:1	0.683	0.04	21.09	22.00	1.233	0.842	22.3	
Left side	20	QPSK 50_0	132322/1745	1:1	0.224	0.04	21.13	22.00	1.222	0.274	22.3	
Top side	20	QPSK 50_0	132322/1745	1:1	0.352	0.02	21.13	22.00	1.222	0.430	22.3	
		I					n 100%RB)	T	ı			
Back side	20	QPSK 100_0	132322/1745	1:1	0.608	0.08	21.03	22.00	1.250	0.760	22.3	
		I	Ho	otspot Te	est data(S	Sensor of	f 1RB)		ı	1		
Front side-12mm	20	QPSK 1_0	132322/1745	1:1	0.394	0.02	22.53	24.00	1.403	0.553	22.5	
Back side-15mm	20	QPSK 1_0	132322/1745	1:1	0.571	-0.07	23.55	25.00	1.396	0.797	22.3	
Left side-16mm	20	QPSK 1_0	132322/1745	1:1	0.134	0.03	22.53	24.00	1.403	0.188	22.5	
Top side-22mm	20	QPSK 1_0	132322/1745	1:1	0.297	-0.04	22.53	24.00	1.403	0.417	22.5	
	Hotspot Test data(Sensor off 50RB)											
Front side-12mm	20	QPSK 50_0	132322/1745	1:1	0.331	0.05	22.53	24.00	1.403	0.464	22.5	
Back side-15mm	20	QPSK 50_0	132322/1745	1:1	0.497	0.15	22.53	24.00	1.403	0.697	22.3	
Left side-16mm	20	QPSK 50_0	132322/1745	1:1	0.116	-0.04	22.53	24.00	1.403	0.163	22.5	
Top side-22mm	20	QPSK 50_0	132322/1745	1:1	0.211	0.01	22.53	24.00	1.403	0.296	22.5	

Table 20: SAR of LTE Band 66 for Head and Body.



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#### 8.3.11SAR Result of LTE Band 71

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycl e	SAR (W/kg ) 1-g	Powe r drift (dB)	Conducted Power(dBm	Tune up Limit(dBm )	Scale d factor	Scale d SAR 1-g (W/kg)	Liquid Temp.(℃
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	133322/683	1:1	0.149	0.01	23.81	24.50	1.172	0.175	22.5
Left tilted	20	QPSK 1_0	133322/683	1:1	0.091	0.02	23.81	24.50	1.172	0.106	22.5
Right cheek	20	QPSK 1_0	133322/683	1:1	0.175	0.09	23.81	24.50	1.172	0.205	22.5
Right tilted	20	QPSK 1_0	133322/683	1:1	0.089	0.05	23.81	24.50	1.172	0.104	22.5
			H	ead Test	Data(50%	6RB)					
Left cheek	20	QPSK 50_0	133322/683	1:1	0.147	-0.02	22.73	23.50	1.194	0.176	22.5
Left tilted	20	QPSK 50_0	133322/683	1:1	0.084	0.01	22.73	23.50	1.194	0.100	22.5
Right cheek	20	QPSK 50_0	133322/683	1:1	0.163	-0.11	22.73	23.50	1.194	0.195	22.5
Right tilted	20	QPSK 50_0	133322/683	1:1	0.083	0.04	22.73	23.50	1.194	0.099	22.5
			Body worn	Test dat	a(Separat	te 15mm <sup>-</sup>	IRB)				
Front side	20	QPSK 1_0	133322/683	1:1	0.221	0.01	23.81	24.50	1.172	0.259	22.5
Back side	20	QPSK 1_0	133322/683	1:1	0.358	0.03	23.81	24.50	1.172	0.420	22.5
			Body worn T	est data	(Separate	15mm 50	%RB)				
Front side	20	QPSK 50_0	133322/683	1:1	0.296	0.01	22.73	23.50	1.194	0.353	22.5
Back side	20	QPSK 50_0	133322/683	1:1	0.318	0.04	22.73	23.50	1.194	0.380	22.5
			Hotspot T	est data	Separate	10mm 1F	RB)				
Front side	20	QPSK 1_0	133322/683	1:1	0.235	0.08	23.81	24.50	1.172	0.275	22.5
Back side	20	QPSK 1_0	133322/683	1:1	0.339	0.03	23.81	24.50	1.172	0.397	22.5
Left side	20	QPSK 1_0	133322/683	1:1	0.166	0.01	23.81	24.50	1.172	0.195	22.5
Rightt side	20	QPSK 1_0	133322/683	1:1	0.260	0.06	23.81	24.50	1.172	0.305	22.5
Bottom side	20	QPSK 1_0	133322/683	1:1	0.060	0.01	23.81	24.50	1.172	0.070	22.5
			Hotspot Te	st data(S	eparate 1	0mm 50%	RB)				
Front side	20	QPSK 50_0	133322/683	1:1	0.216	0.06	22.73	23.50	1.194	0.258	22.5
Back side	20	QPSK 50_0	133322/683	1:1	0.299	0.23	22.73	23.50	1.194	0.357	22.5
Left side	20	QPSK 50_0	133322/683	1:1	0.146	0.06	22.73	23.50	1.194	0.174	22.5
Rightt side	20	QPSK 50_0	133322/683	1:1	0.230	0.03	22.73	23.50	1.194	0.275	22.5
Bottom side	20	QPSK 50_0	133322/683	1:1	0.053	0.01	22.73	23.50	1.194	0.063	22.5

Table 21: 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 <sup>-</sup>	Test data					
Left cheek	802.11b	6-2437	99.64%	1.004	0.579	0.05	16.18	17.00	1.208	0.702	21.8
Left tilted	802.11b	6-2437	99.64%	1.004	0.343	0.06	16.18	17.00	1.208	0.416	21.8
Right cheek	802.11b	6-2437	99.64%	1.004	0.250	-0.03	16.18	17.00	1.208	0.303	21.8
Right tilted	802.11b	6-2437	99.64%	1.004	0.313	0.060	16.18	17.00	1.208	0.379	21.8
				Body wo	orn Test d	ata(Separa	ate 15mm)				
Front side	802.11b	6-2437	99.64%	1.004	0.138	0.12	20.13	21.00	1.222	0.169	21.8
Back side	802.11b	6-2437	99.64%	1.004	0.270	-0.04	15.17	16.00	1.211	0.328	21.8
				Hotspo	t Test dat	a (Separa	te 10mm)				
Front side	802.11b	6-2437	99.64%	1.004	0.119	0.12	15.17	16.00	1.211	0.145	21.8
Back side	802.11b	6-2437	99.64%	1.004	0.308	0.19	15.17	16.00	1.211	0.374	21.8
Right side	802.11b	6-2437	99.64%	1.004	0.119	0.06	15.17	16.00	1.211	0.145	21.8
Top side	802.11b	6-2437	99.64%	1.004	0.193	0.03	15.17	16.00	1.211	0.234	21.8
				Hot	spot Test	data(Sens	or off)				
Front side- 13mm	802.11b	6-2437	99.64%	1.004	0.245	0.01	20.13	21.00	1.222	0.299	21.8
Back side - 19mm	802.11b	6-2437	99.64%	1.004	0.301	-0.05	20.13	21.00	1.222	0.369	21.8
Right side- 14mm	802.11b	6-2437	99.64%	1.004	0.198	0.06	20.13	21.00	1.222	0.242	21.8
Top side- 16mm	802.11b	6-2437	99.64%	1.004	0.294	0.07	20.13	21.00	1.222	0.359	21.8

Table 22: 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 ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required.



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#### 8.3.13 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.(℃)
					Head	d Test dat	а				
Left cheek	DH5	39/2441	76.80%	1.302	0.046	0.05	7.71	8.00	1.069	0.063	21.8
Left tilted	DH5	39/2441	76.80%	1.302	0.042	0.07	7.71	8.00	1.069	0.058	21.8
Right cheek	DH5	39/2441	76.80%	1.302	0.028	-0.15	7.71	8.00	1.069	0.038	21.8
Right tilted	DH5	39/2441	76.80%	1.302	0.030	0.02	7.71	8.00	1.069	0.042	21.8
				Body	worn Test	data(Sep	arate 15mm)				
Front side	DH5	39/2441	76.80%	1.302	0.044	-0.09	7.71	8.00	1.069	0.061	21.8
Back side	DH5	39/2441	76.80%	1.302	0.101	0.01	7.71	8.00	1.069	0.141	21.8
				Hots	pot Test d	ata (Sepa	rate 10mm)				
Front side	DH5	39/2441	76.80%	1.302	0.048	0.16	7.71	8.00	1.069	0.067	21.8
Back side	DH5	39/2441	76.80%	1.302	0.130	0.02	7.71	8.00	1.069	0.181	21.8
Right side	DH5	39/2441	76.80%	1.302	0.039	-0.04	7.71	8.00	1.069	0.055	21.8
Top side	DH5	39/2441	76.80%	1.302	0.046	0.18	7.71	8.00	1.069	0.064	21.8

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	Y	Υ	Υ
3	WWAN+WIFI 2.4G+BT	No	No	No

#### Note:

1) The device does not support DTM function.



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

			SARmax (W/kg)			
Test	position	Main	WiFi 2.4G Ant3	ВТ	Summe	ed SAR
		1	2	3	1+2	1+3
	Left cheek	0.287	0.702	0.063	0.99	0.35
0014.050	Left tilted	0.187	0.416	0.058	0.60	0.25
GSM 850	Right cheek	0.380	0.303	0.038	0.68	0.42
	Right tilted	0.241	0.379	0.042	0.62	0.28
	Left cheek	0.466	0.702	0.063	1.17	0.53
0014 4000	Left tilted	0.535	0.416	0.058	0.95	0.59
GSM 1900	Right cheek	0.655	0.303	0.038	0.96	0.69
	Right tilted	0.631	0.379	0.042	1.01	0.67
	Left cheek	0.551	0.702	0.063	1.25	0.61
\A(ODAAA II	Left tilted	0.636	0.416	0.058	1.05	0.69
WCDMA II	Right cheek	0.660	0.303	0.038	0.96	0.70
	Right tilted	0.736	0.379	0.042	1.12	0.78
	Left cheek	0.452	0.702	0.063	1.15	0.52
WODAA N/	Left tilted	0.580	0.416	0.058	1.00	0.64
WCDMA IV	Right cheek	0.737	0.303	0.038	1.04	0.78
	Right tilted	0.635	0.379	0.042	1.01	0.68
	Left cheek	0.346	0.702	0.063	1.05	0.41
14/00444.1/	Left tilted	0.219	0.416	0.058	0.64	0.28
WCDMA V	Right cheek	0.365	0.303	0.038	0.67	0.40
	Right tilted	0.210	0.379	0.042	0.59	0.25
	Left cheek	0.196	0.702	0.063	0.90	0.26
1.TE D 1.40	Left tilted	0.092	0.416	0.058	0.51	0.15
LIE Band 12	Right cheek	0.225	0.303	0.038	0.53	0.26
LTE Band 12	Right tilted	0.090	0.379	0.042	0.47	0.13
	Left cheek	0.722	0.702	0.063	1.42	0.79
	Left tilted	0.868	0.416	0.058	1.28	0.93
LTE Band 25	Right cheek	0.890	0.303	0.038	1.19	0.93
	Right tilted	0.909	0.379	0.042	1.29	0.95
	Left cheek	0.395	0.702	0.063	1.10	0.46
LTE D 1 00	Left tilted	0.198	0.416	0.058	0.61	0.26
LTE Band 26	Right cheek	0.417	0.303	0.038	0.72	0.46
	Right tilted	0.240	0.379	0.042	0.62	0.28
	Left cheek	0.369	0.702	0.063	1.07	0.43
LTE David 44	Left tilted	0.060	0.416	0.058	0.48	0.12
LTE Band 41	Right cheek	0.196	0.303	0.038	0.50	0.23
	Right tilted	0.055	0.379	0.042	0.43	0.10
	Left cheek	0.554	0.702	0.063	1.26	0.62
LTE Day 100	Left tilted	0.641	0.416	0.058	1.06	0.70
LTE Band 66	Right cheek	0.792	0.303	0.038	1.10	0.83
	Right tilted	0.738	0.379	0.042	1.12	0.78
	Left cheek	0.176	0.702	0.063	0.88	0.24
LTE D 174	Left tilted	0.106	0.416	0.058	0.52	0.16
LTE Band 71	Right cheek	0.205	0.303	0.038	0.51	0.24
	Right tilted	0.104	0.379	0.042	0.48	0.15



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Simultaneous Transmission SAR Summation Scenario for WLAN Body-worn:

			SARmax (W/kg)			
Test p	osition	Main	wiri 2.4G Ant3		Summed SAR	
		1	2	3	1+2	1+3
CSM 950	Front side	0.317	0.169	0.061	0.49	0.38
GSM 850	Back side	0.357	0.328	0.141	0.69	0.50
GSM 1900	Front side	0.370	0.169	0.061	0.54	0.43
GSW 1900	Back side	0.477	0.328	0.141	0.81	0.62
WCDMA II	Front side	0.542	0.169	0.061	0.71	0.60
WCDIVIA II	Back side	0.978	0.328	0.141	1.31	1.12
WCDMA IV	Front side	0.531	0.169	0.061	0.70	0.59
VVCDIVIA IV	Back side	0.777	0.328	0.141	1.11	0.92
WCDMA V	Front side	0.351	0.169	0.061	0.52	0.41
WCDIVIA V	Back side	0.400	0.328	0.141	0.73	0.54
LTE Bond 10	Front side	0.250	0.169	0.061	0.42	0.31
LTE Band 12	Back side	0.352	0.328	0.141	0.68	0.49
LTE Band 25	Front side	0.678	0.169	0.061	0.85	0.74
LTE Ballu 25	Back side	1.181	0.328	0.141	1.51	1.32
LTE Band 26	Front side	0.411	0.169	0.061	0.58	0.47
LIE Band 20	Back side	0.472	0.328	0.141	0.80	0.61
LTE Band 41	Front side	0.345	0.169	0.061	0.51	0.41
LIE Dallu 41	Back side	0.578	0.328	0.141	0.91	0.72
LTE Band 66	Front side	0.559	0.169	0.061	0.73	0.62
LIE Dallu 00	Back side	0.797	0.328	0.141	1.13	0.94
LTE Band 71	Front side	0.353	0.169	0.061	0.52	0.41
LIE Dallu / I	Back side	0.420	0.328	0.141	0.75	0.56

Simultaneous Transmission SAR Summation Scenario for WLAN Hotspot:

Silliultarieous Tre	ansmission SAR Sur			λοι.		
			SARmax (W/kg)			
Tes	t position	Main	WiFi 2.4G Ant3	ВТ	Summed SAR	
	Frank side		2	3	1+2	1+3
	Front side	0.448	0.299	0.067	0.75	0.52
	Back side	0.559	0.374	0.181	0.93	0.74
GSM 850	Left side	0.265	0.000	0.000	0.27	0.27
	Right side	0.466	0.242	0.055	0.71	0.52
	Top side	0.000	0.359	0.064	0.36	0.06
	Bottom side	0.191	0.000	0.000	0.19	0.19
	Front side	0.428	0.299	0.067	0.73	0.50
	Back side	0.800	0.374	0.181	1.17	0.98
GSM 1900	Left side	0.229	0.000	0.000	0.23	0.23
G2M 1900	Right side	0.000	0.242	0.055	0.24	0.06
	Top side	0.467	0.359	0.064	0.83	0.53
	Bottom side	0.000	0.000	0.000	0.00	0.00
	Front side	0.588	0.299	0.067	0.89	0.66
	Back side	0.978	0.374	0.181	1.35	1.16
WCDMA II	Left side	0.153	0.000	0.000	0.15	0.15
	Right side	0.000	0.242	0.055	0.24	0.06
	Top side	0.394	0.359	0.064	0.75	0.46



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	Bottom side	0.000	0.000	0.000	0.00	0.00
	Front side	0.588	0.299	0.067	0.89	0.66
	Back side	0.777	0.374	0.181	1.15	0.96
	Left side	0.177	0.000	0.000	0.18	0.18
WCDMA IV	Right side	0.000	0.242	0.055	0.24	0.06
	Top side	0.389	0.359	0.064	0.75	0.45
	Bottom side	0.000	0.000	0.000	0.00	0.00
	Front side	0.366	0.299	0.067	0.67	0.43
	Back side	0.457	0.374	0.181	0.83	0.64
	Left side	0.262	0.000	0.000	0.26	0.26
WCDMA V	Right side	0.389	0.242	0.055	0.63	0.44
	Top side	0.000	0.359	0.064	0.36	0.06
	Bottom side	0.129	0.000	0.000	0.13	0.13
	Front side	0.291	0.299	0.067	0.59	0.36
	Back side	0.406	0.374	0.181	0.78	0.59
	Left side	0.324	0.000	0.000	0.32	0.32
LTE Band 12	Right side	0.293	0.242	0.055	0.54	0.35
	Top side	0.000	0.359	0.064	0.36	0.06
	Bottom side	0.055	0.000	0.000	0.06	0.06
	Front side	0.637	0.299	0.067	0.94	0.70
	Back side	1.181	0.374	0.181	1.56	1.36
	Left side	0.225	0.000	0.000	0.23	0.23
LTE Band 25	Right side	0.000	0.242	0.055	0.24	0.06
	Top side	0.452	0.359	0.064	0.81	0.52
	Bottom side	0.000	0.000	0.000	0.00	0.00
	Front side	0.481	0.299	0.067	0.78	0.55
	Back side	0.627	0.374	0.181	1.00	0.81
	Left side	0.320	0.000	0.000	0.32	0.32
LTE Band 26	Right side	0.491	0.242	0.055	0.73	0.55
	Top side	0.000	0.359	0.064	0.36	0.06
	Bottom side	0.119	0.000	0.000	0.12	0.12
	Front side	0.540	0.299	0.067	0.84	0.61
	Back side	0.959	0.374	0.181	1.33	1.14
LTE Daniel 44	Left side	0.293	0.000	0.000	0.29	0.29
LTE Band 41	Right side	0.310	0.242	0.055	0.55	0.37
	Top side	0.000	0.359	0.064	0.36	0.06
	Bottom side	0.674	0.000	0.000	0.67	0.67
	Front side	0.553	0.299	0.067	0.85	0.62
	Back side	0.881	0.374	0.181	1.26	1.06
LTE Band 66	Left side	0.274	0.000	0.000	0.27	0.27
ETE DANG 00	Right side	0.000	0.242	0.055	0.24	0.06
	Top side	0.430	0.359	0.064	0.79	0.49
	Bottom side	0.000	0.000	0.000	0.00	0.00
	Front side	0.275	0.299	0.067	0.57	0.34
	Back side	0.397	0.374	0.181	0.77	0.58
LTE Band 71	Left side	0.195	0.000	0.000	0.20	0.20
LIL Dallu / I	Right side	0.305	0.242	0.055	0.55	0.36
	Top side	0.000	0.359	0.064	0.36	0.06
	Bottom side	0.070	0.000	0.000	0.07	0.07



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### 9 Equipment list

<u> </u>	Equipment na	, ,										
	Test Platform	SPEAG DASY5	Professional									
	Description	SAR Test Systen	n (Frequency rar	nge 300MHz-6GHz)								
	Software Reference	DASY52 52.10.4	(1527); SEMCAI	O X 14.6.14(7483)								
	Hardware Reference											
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration						
$\boxtimes$	Twin Phantom	SPEAG	SAM1	1410	NCR	NCR						
$\boxtimes$	Twin Phantom	SPEAG	SAM5	1481	NCR	NCR						
$\boxtimes$	DAE	SPEAG	DAE4	1374	2021-11-05	2022-11-04						
$\boxtimes$	DAE	SPEAG	DAE4	1428	2022-04-27	2023-04-26						
$\boxtimes$	E-Field Probe	SPEAG	EX3DV4	3982	2021-12-29	2022-12-28						
$\boxtimes$	E-Field Probe	SPEAG	EX3DV4	3962	2022-05-26	2022-05-25						
$\boxtimes$	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	D2450V2	1038	2020-04-08	2023-04-07						
	Dielectric parameter probes	SPEAG	DAKS-3.5	0005	2022-07-15	2023-07-14						
$\boxtimes$	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0140913	2022-07-22	2023-07-21						
	Universal Radio Communication Tester	R&S	CMW500	111637	2021-09-29	2022-09-28						
	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	Aglient	E4419B	6843318103	2022-06-08	2023-06-07						
$\boxtimes$	Power Sensor	Aglient	E9301A	MY41496508	2021-09-09	2022-09-08						
$\boxtimes$	Power Sensor	Aglient	E9301H	MY41495605	2022-06-08	2023-06-07						
$\boxtimes$	Attenuator	SHX	TS2-3dB	30704	NCR	NCR						

VLF-2500(+)

LA-F13

SK1730SL5A

DTM3000



Coaxial low pass filter

Coaxial low pass filter

DC POWER SUPPLY

Speed reading

thermometer

 $\boxtimes$ 

 $\boxtimes$ 

 $\boxtimes$ 

 $\boxtimes$ 

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NCR

2021-10-09

**NCR** 

NCR

NCR

2022-10-08



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$\boxtimes$	Humidity and Temperature Indicator	MingGao	MingGao	NA	2022-06-16	2023-06-15
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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** 



