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CERTIFICATE OF COMPLIANCE SAR EVALUATION

Dejero Labs Inc. 412 Albert St., Suite 100 Waterloo, ON N2L 3V3 Canada Dates of Test: Test Report Number: October 7-30, 2019 SAR.20191024

Revision A

 FCC ID:
 Y99DEJ565

 IC Certificate:
 12762A-DEJ565

 Model(s):
 EG2xxx

Contains Module: Sierra Wireless Model EM7565 & EM7511
Test Sample: Engineering Unit Same as Production

Serial Number: Eng 1

Equipment Type: Wireless Video Transceiver
Classification: Portable Transmitter Next to Body

TX Frequency Range: 699 – 716 MHz, 777 – 787 MHz, 788 – 798 MHz, 814 – 849 MHz, 1710 – 1780 MHz, 1850 – 1910 MHz,

2496 - 2690 MHz, 3550 - 3625 MHz, 2412 - 2462 MHz; 5180 - 5320 MHz; 5500 - 5700 MHz;

5745 - 5825 MHz

Frequency Tolerance: ± 2.5 ppm

Maximum RF Output: 750 MHz (LTE) – 24.00 dBm, 835 MHz (UMTS) – 24.00 dBm, 835 MHz (LTE) – 24.00 dBm, 1750 MHz (UMTS) – 24.00 dBm; 1750 MHz (LTE) – 24.00 dBm, 1900 MHz (UMTS) – 24.00 dBm, 1900 MHz (LTE) – 24.00 dBm, 2500 MHz (LTE) – 23.00 dBm, 3600 MHz (LTE) – 23.00 dBm,

2450 MHz (b) – 24.00 dBm, 2450 MHz (g) – 19.50 dBm, 2450 MHz (n20) – 19.50 dBm, 5250 MHz (n20) – 19.00 dBm, 5600 MHz (n20) – 19.00 dBm, 5600 MHz (n20) – 19.00 dBm, 5600 MHz (n20) – 19.00 dBm, 5800 MHz (n20) – 19.00 dBm, 5800 MHz (n20) – 18.50 dBm, 5800 MHz (n20) – 18.50 dBm,

5800 MHz (ac) – 18.50 dBm Conducted

Signal Modulation: WCDMA, QPSK, 16QAM

Antenna Type: Internal
Application Type: Certification
FCC Rule Parts: Part 2, 22, 24

KDB Test Methodology: KDB 447498 D01 v06, KDB 941225 D01 v03r01, KDB 941225 D05 v02r01

Industry Canada: RSS-102 Issue 5, Safety Code 6

Maximum SAR Value: 1.13 W/kg Reported Max. Simultaneous: 0.04 Separation Ratio

Separation Distance: 0 mm

This wireless mobile and/or portable device has been shown to be compliant for localized specific absorption rate (SAR) for uncontrolled environment/general exposure limits specified in ANSI/IEEE Std. C95.1-1992 and had been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and IEC 62209-2:2010 (See test report).

I attest to the accuracy of the data. All measurements were performed by myself or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RF Exposure Lab, LLC certifies that no party to this application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a).

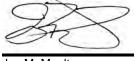






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Comment/Revision	Date
Original Release	November 9, 2019
Incorporate TCB comments dated November 21, 2019	November 21, 2019

Note: The latest version supersedes all previous versions listed in the above table. The latest version shall be used.



1. Introduction

This measurement report shows compliance of the Dejero Labs Inc. Model EG2xxx FCC ID: Y99DEJ565 with FCC Part 2, 1093, ET Docket 93-62 Rules for mobile and portable devices and IC Certificate: 12762A-DEJ565 with RSS102 Issue 5 & Safety Code 6. The FCC have adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on August 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC regulated portable devices. [1], [6]

The test results recorded herein are based on a single type test of Dejero Labs Inc. Model EG2xxx and therefore apply only to the tested sample.

The test procedures and limits, as described in ANSI C95.1 – 1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [2], ANSI C95.3 – 2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields [3], IEEE Std.1528 – 2003 Recommended Practice [4], and Industry Canada Safety Code 6 Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3kHz to 300 GHz were employed.

The following table indicates all the wireless technologies operating in the EG2xxx Wireless Video Transceiver. The table also shows the tolerance for the power level for each mode (if applicable).

Band	Technology	Class	3GPP Nominal Power dBm	Tolerance dBm	Lower Tolerance dBm	Upper Tolerance dBm
Band 2 – 1900 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 12 – 700 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 13 – 782 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 14 – 793 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 5 – 850 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 26 – 850 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 4 – 1750 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 66 – 1750 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 7 – 2600 MHz	LTE – FDD	3	22	±1.0	21.0	23.0
Band 41 – 2500 MHz	LTE – TDD	3	22	±1.0	21.0	23.0
Band 48 – 3600 MHz	LTE – TDD	3	22	±1.0	21.0	23.0
Band 5 – 850 MHz	UMTS	3	23	±1.0	22.0	24.0
Band 4 – 1750 MHz	UMTS	3	23	±1.0	22.0	24.0
Band 2 – 1900 MHz	UMTS	3	23	±1.0	22.0	24.0
WLAN – 2.4 GHz	802.11b	N/A	N/A	N/A	N/A	20.5
WLAN – 2.4 GHz	802.11gn20	N/A	N/A	N/A	N/A	19.5
WLAN – 2.4 GHz	802.11n40	N/A	N/A	N/A	N/A	18.5
WLAN – 5 GHz Band I	802.11an20n40/ac	N/A	N/A	N/A	N/A	15.0
WLAN - 5 GHz Band IIA, IIC, III	802.11an20/ac	N/A	N/A	N/A	N/A	19.0
WLAN - 5 GHz Band IIA, IIC, III	802.11n40/ac	N/A	N/A	N/A	N/A	18.5



SAR Definition [5]

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ).

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

SAR is expressed in units of watts per kilogram (W/kg). SAR can be related to the electric field at a point by

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

where:

 σ = conductivity of the tissue (S/m)

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

E = rms electric field strength (V/m)



2. SAR Measurement Setup

Robotic System

These measurements are performed using the DASY52 automated dosimetric assessment system. The DASY52 is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland and consists of high precision robotics system (Staubli), robot controller, Intel Core2 computer, near-field probe, probe alignment sensor, and the generic twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Fig. 2.1).

System Hardware

A cell controller system contains the power supply, robot controller teach pendant (Joystick), and a remote control used to drive the robot motors. The PC consists of the HP Intel Core2 computer with Windows XP system and SAR Measurement Software DASY52, A/D interface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit that performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

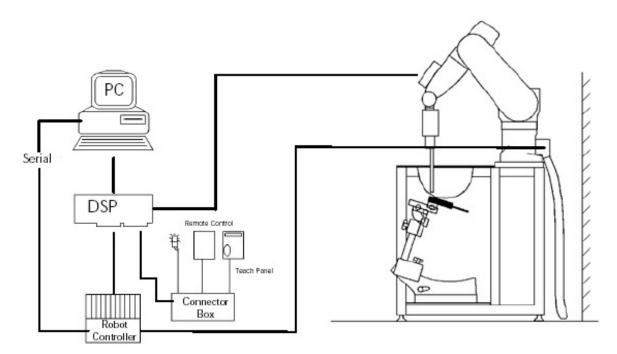


Figure 2.1 SAR Measurement System Setup



System Electronics

The DAE4 consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail in.

Probe Measurement System

The SAR measurements were conducted with the dosimetric probe EX3DV4, designed in the classical triangular configuration (see Fig. 2.2) and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multi fiber line ending at the front of the probe tip. (see Fig. 2.3) It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY52 software reads the reflection during a software approach and looks for the maximum using a 2nd order fitting. The approach is stopped at reaching the maximum.



DAE System



Probe Specifications

Calibration: In air from 10 MHz to 6.0 GHz

In brain and muscle simulating tissue at Frequencies of 450 MHz, 835 MHz, 1750 MHz, 1900 MHz, 2450 MHz, 2600 MHz, 3500 MHz, 5200

MHz, 5300 MHz, 5600 MHz, 5800 MHz

Frequency: 10 MHz to 6 GHz

Linearity: ±0.2dB (30 MHz to 6 GHz)

Dynamic: 10 mW/kg to 100 W/kg

Range: Linearity: ±0.2dB

Dimensions: Overall length: 330 mm

Tip length: 20 mm

Body diameter: 12 mm

Tip diameter: 2.5 mm

Distance from probe tip to sensor center: 1 mm

Application: SAR Dosimetry Testing

Compliance tests of wireless device

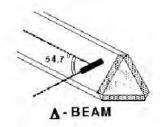


Figure 2.2 Triangular Probe Configurations



Figure 2.3 Probe Thick-Film Technique



Probe Calibration Process

Dosimetric Assessment Procedure

Each probe is calibrated according to a dosimetric assessment procedure described in with accuracy better than +/- 10%. The spherical isotropy was evaluated with the procedure described in and found to be better than +/-0.25dB. The sensitivity parameters (Norm X, Norm Y, Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe is tested.

Free Space Assessment

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a waveguide above 1GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity at the proper orientation with the field. The probe is then rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1 mW/cm².

Temperature Assessment *

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium, correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor based temperature probe is used in conjunction with the E-field probe

$$SAR = C \frac{\Delta T}{\Delta t}$$

$$SAR = \frac{\left|E\right|^2 \cdot \sigma}{\rho}$$

where: where:

 Δt = exposure time (30 seconds), σ = simulated tissue conductivity,

C = heat capacity of tissue (brain or muscle), ρ = Tissue density (1.25 g/cm³ for brain tissue)

 ΔT = temperature increase due to RF exposure.

SAR is proportional to ΔT / Δt , the initial rate of tissue heating, before thermal diffusion takes place.

Now it's possible to quantify the electric field in the simulated tissue by equating the thermally derived SAR to the E- field;

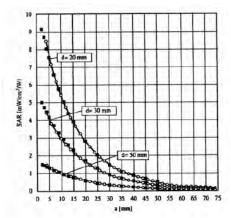


Figure 2.4 E-Field and Temperature Measurements at 900MHz

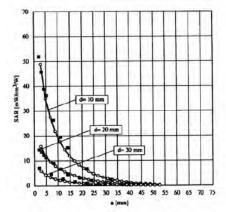


Figure 2.5 E-Field and Temperature Measurements at 1800MHz



Data Extrapolation

The DASY52 software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given like below:

with
$$V_i = \text{compensated signal of channel i}$$
 $(i=x,y,z)$

$$U_i = \text{input signal of channel i} \qquad (i=x,y,z)$$

$$U_i = \text{input signal of channel i} \qquad (i=x,y,z)$$

$$cf = \text{crest factor of exciting field} \qquad (DASY parameter)$$

$$dcp_i = \text{diode compression point} \qquad (DASY parameter)$$

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

E-field probes: with
$$V_i$$
 = compensated signal of channel i (i = x,y,z) Norm_i = sensor sensitivity of channel i (i = x,y,z) $\mu V/(V/m)^2$ for E-field probes ConvF = sensitivity of enhancement in solution E_i = electric field strength of channel i in V/m

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

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

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

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$
 with SAR = local specific absorption rate in W/g = total field strength in V/m = conductivity in [mho/m] or [Siemens/m] ρ = equivalent tissue density in g/cm³

The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pur} = \frac{E_{hot}^2}{3770}$$
 with $P_{pwe} = \text{equivalent power density of a plane wave in W/cm}^2$ = total electric field strength in V/m



Scanning procedure

- The DASY installation includes predefined files with recommended procedures for measurements and system check. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.
- 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. The indicated drift is mainly the variation of the DUT's output power and should vary max. +/- 5 %.
- The highest integrated SAR value is the main concern in compliance test applications. These values can mostly be found at the inner surface of the phantom and cannot be measured directly due to the sensor offset in the probe. To extrapolate the surface values, the measurement distances to the surface must be known accurately. A distance error of 0.5mm could produce SAR errors of 6% at 1800 MHz. Using predefined locations for measurements is not accurate enough. Any shift of the phantom (e.g., slight deformations after filling it with liquid) would produce high uncertainties. For an automatic and accurate detection of the phantom surface, the DASY5 system uses the mechanical surface detection. The detection is always at touch, but the probe will move backward from the surface the indicated distance before starting the measurement.
- The "area scan" measures the SAR above the DUT or verification dipole on a parallel plane to the surface. It is used to locate the approximate location of the peak SAR with 2D spline interpolation. The robot performs a stepped movement along one grid axis while the local electrical field strength is measured by the probe. The probe is touching the surface of the SAM during acquisition of measurement values. The scan uses different grid spacings for different frequency measurements. Standard grid spacing for head measurements in frequency ranges 2GHz is 15 mm in x and y- dimension. For higher frequencies a finer resolution is needed, thus for the grid spacing is reduced according the following table:

Area scan grid spacing for different frequency ranges				
Frequency range	Grid spacing			
≤ 2 GHz	≤ 15 mm			
2 – 4 GHz	≤ 12 mm			
4 – 6 GHz	≤ 10 mm			

Grid spacing and orientation have no influence on the SAR result. For special applications where the standard scan method does not find the peak SAR within the grid, e.g. mobile phones with flip cover, the grid can be adapted in orientation. Results of this coarse scan are shown in annex B.



• A "zoom scan" measures the field in a volume around the 2D peak SAR value acquired in the previous "coarse" scan. It uses a fine meshed grid where the robot moves the probe in steps along all the 3 axis (x,y and z-axis) starting at the bottom of the Phantom. The grid spacing for the cube measurement is varied according to the measured frequency range, the dimensions are given in the following table:

Zoom scan grid spacing and volume for different frequency ranges						
Frequency range	Grid spacing	Grid spacing	Minimum zoom			
i requericy rarige	for x, y axis	for z axis	scan volume			
≤ 2 GHz	≤ 8 mm	≤ 5 mm	≥ 30 mm			
2 – 3 GHz	≤ 5 mm	≤ 5 mm	≥ 28 mm			
3 – 4 GHz	≤ 5 mm	≤ 4 mm	≥ 28 mm			
4 – 5 GHz	≤ 4 mm	≤ 3 mm	≥ 25 mm			
5 – 6 GHz	≤ 4 mm	≤ 2 mm	≥ 22 mm			

DASY is also able to perform repeated zoom scans if more than 1 peak is found during area scan. In this document, the evaluated peak 1g and 10g averaged SAR values are shown in the 2D-graphics in annex B. Test results relevant for the specified standard (see section 3) are shown in table form in section 7.



Spatial Peak SAR Evaluation

The spatial peak SAR - value for 1 and 10 g is evaluated after the Cube measurements have been done. The basis of the evaluation are the SAR values measured at the points of the fine cube grid consisting of all points in the three directions x, y and z. The algorithm that finds the maximal averaged volume is separated into three different stages.

- The data between the dipole center of the probe and the surface of the phantom are extrapolated. This data cannot be measured since the center of the dipole is 1 to 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is about 1 mm (see probe calibration sheet). The extrapolated data from a cube measurement can be visualized by selecting 'Graph Evaluated'.
- The maximum interpolated value is searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10 g) are computed using the 3d-spline interpolation algorithm. If the volume cannot be evaluated (i.e., if a part of the grid was cut off by the boundary of the measurement area) the evaluation will be started on the corners of the bottom plane of the cube.
- All neighbouring volumes are evaluated until no neighbouring volume with a higher average value is found.

Extrapolation

The extrapolation is based on a least square algorithm [W. Gander, Computermathematik, p.168-180]. Through the points in the first 3 cm along the z-axis, polynomials of order four are calculated. These polynomials are then used to evaluate the points between the surface and the probe tip. The points, calculated from the surface, have a distance of 1 mm from each other.

Interpolation

The interpolation of the points is done with a 3d-Spline. The 3d-Spline is composed of three one-dimensional splines with the "Not a knot"-condition [W. Gander, Computermathematik, p.141-150] (x, y and z -direction) [Numerical Recipes in C, Second Edition, p.123ff].

Volume Averaging

At First the size of the cube is calculated. Then the volume is integrated with the trapezoidal algorithm. 8000 points (20x20x20) are interpolated to calculate the average.

Advanced Extrapolation

DASY uses the advanced extrapolation option which is able to compensate boundary effects on Efield probes.



SAM PHANTOM

The SAM Twin Phantom V4.0 is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is based on data from an anatomical study designed to determine the maximum exposure in at least 90% of all users. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. (see Fig. 2.6)

Phantom Specification

Phantom: SAM Twin Phantom (V4.0) **Shell Material:** Vivac Composite

Thickness: $2.0 \pm 0.2 \text{ mm}$

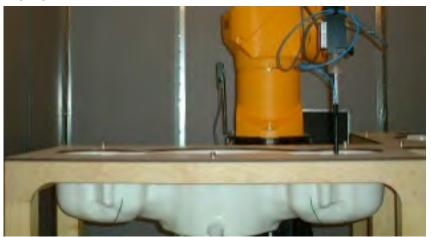


Figure 2.6 SAM Twin Phantom

Device Holder for Transmitters

In combination with the SAM Twin Phantom V4.0 the Mounting Device (see Fig. 2.7), enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation point is the ear opening. The devices can be easily, accurately, and repeat ably be positioned according to the FCC, CENELEC, IEC and IEEE specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).



Figure 2.7 Mounting Device

Note: A simulating human hand is not used due to the complex anatomical and geometrical structure of the hand that may produce infinite number of configurations. To produce the worst-case condition (the hand absorbs antenna output power), the hand is omitted during the tests.



3. Probe and Dipole Calibration

See Appendix D and E.



4. Phantom & Simulating Tissue Specifications

Head & Body Simulating Mixture Characterization

The head and body mixtures consist of the material based on the table listed below. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. Body tissue parameters that have not been specified in P1528 are derived from the issue dielectric parameters computed from the 4-Cole-Cole equations.

Table 4.1 Typical Composition of Ingredients for Tissue

la ava di a ata		Simulating Tissue						
ingredients	Ingredients		835 MHz Head	1750 MHz Head	1900 MHz Head	2550 MHz Head	3600 MHz Head	
Mixing Percentage								
Water								
Sugar		Purchased from Purc		Proprietary Purchased from Speag	Proprietary Purchased from Speag	Proprietary Purchased from Speag	Proprietary Purchased from Speag	
Salt			Proprietary Purchased from Speag					
HEC								
Bactericide								
DGBE								
Dielectric Constant	Target	41.94	41.52	40.08	40.00	39.07	37.81	
Conductivity (S/m)	Target	0.89	0.91	1.37	1.40	1.91	3.02	

Ingredients		Simulating Tissue				
		2450 MHz Head	5250 MHz Head	5600 MHz Head	5785 MHz Head	
Mixing Percentage						
Water						
Sugar		Proprietary Mixture Procured from Speag				
Salt						
HEC						
Bactericide						
DGBE						
Dielectric Constant	Target	39.20	35.93	35.53	35.36	
Conductivity (S/m)	Target	1.80	4.71	5.07	5.22	



5. ANSI/IEEE C95.1 – 1992 RF Exposure Limits [2]

Uncontrolled Environment

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

Controlled Environment

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

Table 5.1 Human Exposure Limits

	UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)	CONTROLLED ENVIROMENT Professional Population (W/kg) or (mW/g)
SPATIAL PEAK SAR ¹ Head	1.60	8.00
SPATIAL AVERAGE SAR ² Whole Body	0.08	0.40
SPATIAL PEAK SAR ³ Hands, Feet, Ankles, Wrists	4.00	20.00

¹ 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.

² The Spatial Average value of the SAR averaged over the whole body.

³ 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.



6. Measurement Uncertainty

Measurement uncertainty table is not required per KDB 865664 D01 v01r04 section 2.8.2 page 12. SAR measurement uncertainty analysis is required in the SAR report only when the highest measured SAR in a frequency band is \geq 1.5 W/kg for 1-g SAR. The equivalent ratio (1.5/1.6) should be applied to extremity and occupational exposure conditions. The highest reported value is less than 1.5 W/kg. Therefore, the measurement uncertainty table is not required.



7. System Validation

Tissue Verification

Table 7.1 Measured Tissue Parameters

	750 MHz Head				835 MHz Head	
	Oct.	. 7, 2019	, ,		Oct. 10, 2019	
20.0	Target	Measured	Target	Measured	Target	Measured
	41.94	41.46	41.94	41.19	41.52	41.45
	0.89	0.90	0.89	0.89	0.91	0.92
	835 N	ЛHz Head	1750 N	MHz Head	1750 l	MHz Head
	Oct.	17, 2019		15, 2019		19, 2019
20.0	Target	Measured	Target	Measured	Target	Measured
	41.52	41.13	40.08	39.93	40.08	39.61
	0.91	0.93	1.37	1.39	1.37	1.42
						MHz Head
					Oct. 23, 2019	
20.0	Target	Measured	Target	Measured	Target	Measured
	40.00	40.37	40.00	39.87	39.07	38.95
	1.40	1.43	1.40	1.39	1.91	1.94
						MHz Head
					Oct. 28, 2019	
20.0	Target	Measured	Target	Measured	Target	Measured
	39.07	38.94	37.93	37.59	37.70	37.30
	1.91	1.92	2.91	2.93	3.13	3.13
			3700 MHz Head		2450 MHz Head	
		,	Oct. 25, 2019		Oct. 25, 2019	
20.0	Target	Measured	Target	Measured	Target	Measured
Dielectric Constant: ε		37.41	37.70	37.12	39.20	38.96
Conductivity: σ		2.92	3.13	3.12	1.80	1.84
Date(s)			5600 MHz Head		5750 MHz Head	
	_					25, 2019
Liquid Temperature (°C) 20.0		Measured	Target	Measured	Target	Measured
Dielectric Constant: ε		35.95	35.53	35.53	35.36	35.36
	4.71	4.81	5.07	5.19	5.22	5.36
	20.0	Oct 20.0 Target 41.94 0.89 835 Oct. 20.0 Target 41.52 0.91 1900 Oct. 20.0 Target 40.00 1.40 2550 Oct. 20.0 Target 39.07 1.91 3500 Oct. 20.0 Target 37.93 2.91 5250 Oct. 20.0 Target 35.93 35.93	41.94 41.46 0.89 0.90 835 MHz Head Oct. 17, 2019 20.0 Target Measured 41.52 41.13 0.91 0.93 1900 MHz Head Oct. 19, 2019 20.0 Target Measured 40.00 40.37 1.40 1.43 2550 MHz Head Oct. 23, 2019 20.0 Target Measured 39.07 38.94 1.91 1.92 3500 MHz Head Oct. 25, 2019 20.0 Target Measured 37.93 37.41 2.91 2.92 5250 MHz Head Oct. 25, 2019 20.0 Target Measured 37.93 37.41 2.91 2.92 5250 MHz Head Oct. 25, 2019 20.0 Target Measured	Oct. 7, 2019 Oct.	Oct. 7, 2019 Oct. 16, 2019 20.0 Target Measured Target Measured 41.94 41.46 41.94 41.19 0.89 0.90 0.89 0.89 835 MHz Head 1750 MHz Head Oct. 15, 2019 20.0 Target Measured Target Measured 41.52 41.13 40.08 39.93 0.91 0.93 1.37 1.39 1900 MHz Head 1900 MHz Head 1900 MHz Head Oct. 19, 2019 Oct. 21, 2019 20.0 Target Measured 40.00 40.37 40.00 39.87 1.40 1.43 1.40 1.39 2550 MHz Head 3500 MHz Head 3500 MHz Head Oct. 23, 2019 Oct. 28, 2019 20.0 Target Measured 39.07 38.94 37.93 37.59 1.91 1.92 2.91 2.93 3500 MHz Head 37.00 MHz Head Oct. 25, 2019 <	Oct. 7, 2019 Oct. 16, 2019 Oct. 20.0 Target Measured Target Measured Target 41.94 41.94 41.19 41.52 0.89 0.90 0.89 0.89 0.91 835 MHz Head 1750 MHz Head 1750 M Oct. 17, 2019 Oct. 15, 2019 Oct. 20.0 Target Measured Target 41.52 41.13 40.08 39.93 40.08 0.91 0.93 1.37 1.39 1.37 1900 MHz Head 1900 MHz Head 2550 M Oct. 21, 2019 Oct. 20.0 Target Measured Target Measured Target 40.00 40.37 40.00 39.87 39.07 39.07 1.40 1.43 1.40 1.39 1.91 2550 MHz Head 3500 MHz Head 3700 M Oct. 28, 2019 Oct. 20.0 Target Measured Target Measured Target </td

See Appendix A for data printout.



Test System Verification

Prior to assessment, the system is verified to the $\pm 10\%$ of the specifications at the test frequency by using the system kit. Power is normalized to 1 watt. (Graphic Plots Attached)

Table 7.2 System Dipole Validation Target & Measured

	Test Frequency	Targeted SAR _{1g} (W/kg)	Measure SAR _{1g} (W/kg)	Tissue Used for Verification	Deviation Target and Fast SAR to SAR (%)	Plot Number
07-Oct-2019	750 MHz	8.23	8.28	Head	+ 0.61	1
07-Oct-2019	750 MHz	8.23	8.26	Head	+ 0.36	2
07-Oct-2019	835 MHz	9.44	9.41	Head	- 0.32	3
07-Oct-2019	835 MHz	9.44	9.43	Head	- 0.11	4
07-Oct-2019	1750 MHz	36.10	37.10	Head	+ 2.77	5
07-Oct-2019	1750 MHz	36.10	36.90	Head	+ 2.22	6
07-Oct-2019	1900 MHz	40.60	41.20	Head	+ 1.48	7
07-Oct-2019	1900 MHz	40.60	41.10	Head	+ 1.23	8
07-Oct-2019	2550 MHz	55.60	57.10	Head	+ 2.70	9
07-Oct-2019	2550 MHz	55.60	56.40	Head	+ 1.44	10
07-Oct-2019	3500 MHz	68.90	69.50	Head	+ 0.87	11
07-Oct-2019	3700 MHz	70.00	71.20	Head	+ 1.71	12
07-Oct-2019	3500 MHz	68.90	65.50	Head	- 4.93	13
07-Oct-2019	3700 MHz	70.00	71.90	Head	+ 2.71	14
07-Oct-2019	2450 MHz	51.70	52.90	Head	+ 2.32	15
07-Oct-2019	5250 MHz	82.80	84.10	Head	+ 1.57	16
07-Oct-2019	5600 MHz	85.40	85.30	Head	- 0.12	17
07-Oct-2019	5750 MHz	83.90	82.30	Head	- 1.91	18

See Appendix A for data plots.

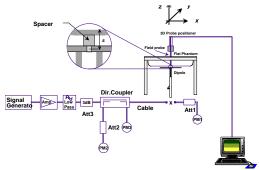


Figure 7.1 Dipole Validation Test Setup



8. SAR Test Data Summary See Measurement Result Data Pages

See Appendix B for SAR Test Data Plots. See Appendix C for SAR Test Setup Photos.

Procedures Used To Establish Test Signal

The device was either placed into simulated transmit mode using the manufacturer's test codes or the actual transmission is activated through a base station simulator or similar equipment. See data pages for actual procedure used in measurement.

Device Test Condition

In order to verify that the device was tested at full power, conducted output power measurements were performed before and after each SAR measurement to confirm the output power unless otherwise noted. If a conducted power deviation of more than 5% occurred, the test was repeated. The power drift of each test is measured at the start of the test and again at the end of the test. The drift percentage is calculated by the formula ((end/start)-1)*100 and rounded to three decimal places. The drift percentage is calculated into the resultant SAR value on the data sheet for each test.

The EUT was tested on the end of the device where the antennas are located and on each side next to the antenna. All measurements for the device were conducted with the side of the device 10 mm from the phantom. The 10 mm gap was to simulate the closest distance the side can get to the user when installed in the carrying bag which is the normal use for the device. The carrying bag is made of all nylon and Styrofoam.

This device can contain two different cellular modems and one WiFi modem. The primary cellular modem is the Sierra Wireless model EM7565 modem. The EM7565 modem had a change in ID issued to the FCC and ISED IDs listed in this report. The second modem is the Sierra Wireless model EM7511 modem. The EM7511 modem is listed as a "Contains FCC ID: N7NEM75S and ISED Certificate: 2417C-EM75S." The two modems are identical with the exception of the EM7511 had LTE Band 14 turned on by software control. The WiFi modem is Qualcomm model QCNFA364A. The WiFi modem is a 2x2 configuration. The WiFi modem is listed as a "Contain FCC ID: PPD-QCNFA364AH and IC: 4104A-QCNFA364A."

The EM7565 module was tested for all 8 antennas as this module can be installed in any slot and be attached to any one of the 8 antennas. The EM7511 module will only be installed and used with B1 and B2 antennas and was tested on only these two antennas. Please see the pictures below showing the antenna locations.

The device was on a minimum of 10 cm of Styrofoam during each test.

The WCDMA testing was conducted using 12.2 kbps RMC configured in Test Loop Mode 1. The HSPA testing was conducted with HS-DPCCH, E-DPCCH and E-DPDCH all enabled and a 12.2 kbps RMC. FRC was configured according to HS-DPCCH Sub-Test 1 using H-set 1 and QPSK.





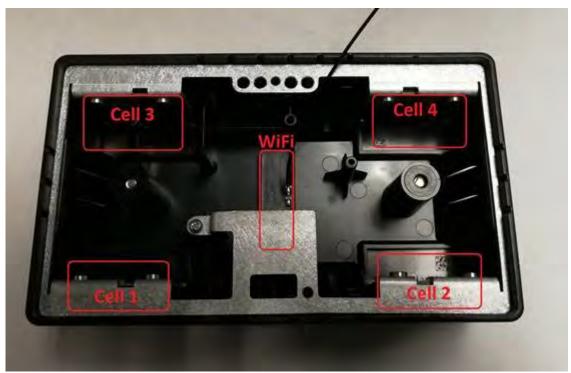
Antennas Located at the Bottom of the Unit





Antennas Located at the Top of the Unit





Antenna Location Within Each End. The number correspond to the numbers above. The two WiFi antennas are located as shown above. The Tx0 is on the bottom end and the Tx1 is on the top end.



9. LTE Document Checklist

1) Identify the operating frequency range of each LTE transmission band used by the device

LTE Operating	Uplink (transmit)	Downlink (Receive)	Duplex mode
Band	Low - high	Low - high	(FDD/TDD)
4 & 66	1710-1780	2110-2200	FDD
5 & 26	814-849	859-894	FDD
13	777-787	746-756	FDD
12	704-716	734-746	FDD
14	788-798	758-768	FDD
2	1850-1910	1930-1990	FDD
48	3550-3700	3550-3700	TDD
7	2500-2570	2620-2690	FDD
41	2496-2690	2496-2690	TDD

2) Identify the channel bandwidths used in each frequency band; 1.4, 3, 5, 10, 15, 20 MHz etc

LTE Band Class	Bandwidth (MHz)	Frequency or Freq. Band (MHz)
4	1.4, 3, 5, 10, 15, 20	1710-1755
66	5, 10, 15, 20	1710-1780
5	1.4, 3, 5, 10	824-849
26	1.4, 3, 5, 10, 15	814-849
13	5, 10	777-787
12	1.4, 3, 5, 10	704-716
14	5, 10	788-798
2	1.4, 3, 5, 10, 15, 20	1850-1915
48	5, 10, 15, 20	3550-3700
7	5, 10, 15, 20	2500-2570
41	5, 10, 15, 20	2496-2690

3) Identify the high, middle and low (H, M, L) channel numbers and frequencies in each LTE frequency band

LTE Band	Bandwidth	Frequency (MHz)/Channel #					
Class	(MHz)	L	ow	M	lid	Hi	gh
4	1.4	1710.7	19957	1732.5	20175	1754.3	20393
4	3	1711.5	19965	1732.5	20175	1753.5	20385
4	5	1712.5	19975	1732.5	20175	1752.5	20375
4	10	1715.0	20000	1732.5	20175	1750.0	20350
4	15	1717.5	20025	1732.5	20175	1747.5	20325
4	20	1720.0	20050	1732.5	20175	1745.0	20300
66	5	1712.5	131997	1755.0	132422	1777.4	132646
66	10	1716.1	132033	1755.0	132422	1774.9	132621
66	15	1717.5	132047	1755.0	132422	1772.4	132596
66	20	1720.0	132072	1755.0	132422	1769.9	132571



5	1.4	824.7	20407	836.5	20525	848.3	20643
5	3	825.5	20415	836.5	20525	847.5	20635
5	5	826.5	20425	836.5	20525	846.5	20625
5	10	829.0	20450	836.5	20525	844.0	20600
26	1.4	814.7	26697	831.5	26865	848.3	27033
26	3	815.5	26705	831.5	26865	847.5	27025
26	5	816.5	26715	831.5	26865	846.5	27015
26	10	819.0	26740	831.5	26865	844.0	26990
26	15	821.5	24765	831.5	26865	841.5	26995
13	5	779.5	23205	782.0	23230	784.5	23255
13	10			782.0	23230		
12	1.4	699.7	23017	707.5	23095	715.3	23173
12	3	700.5	23025	707.5	23095	714.5	23165
12	5	701.5	23035	707.5	23095	713.5	23155
12	10	704.0	23060	707.5	23095	711.0	23130
14	5	790.5	23305	793.0	23330	795.5	23355
14	10			793.0	23330		
2	1.4	1850.7	18607	1880.0	18900	1909.3	19193
2	3	1851.5	18615	1880.0	18900	1908.5	19185
2	5	1852.5	18625	1880.0	18900	1907.5	19175
2	10	1855.0	18650	1880.0	18900	1905.0	19150
2	15	1857.5	18675	1880.0	18900	1902.5	19125
2	20	1860.0	18700	1880.0	18900	1900.0	19100
48	5	3552.5	55265	3526.0	55990	3697.5	56715
48	10	3555.0	55290	3526.0	55990	3695.0	56690
48	15	3557.5	55315	3526.0	55990	3692.5	56665
48	20	3560.0	55340	3526.0	55990	3690.0	56640
7	5	2502.5	20775	2535	21100	2567.5	21425
7	10	2505.0	20800	2535	21100	2565.0	21400
7	15	2507.5	20825	2535	21100	2562.5	21375
7	20	2510.0	20850	2535	21100	2560.0	21350
41	5	2498.5	39675	2593	40620	2687.5	41565
41	10	2501.0	39700	2593	40620	2685.0	41540
41	15	2503.5	39725	2593	40620	2682.5	41515
41	20	2506.0	39750	2593	40620	2680.0	41490

- 4) Specify the UE category and uplink modulations used:
 - UE Category: 3
 - Uplink modulations: QPSK and 16QAM
- 5) Include descriptions of the LTE transmitter and antenna implementation; and also identify whether it is a standalone transmitter operating independently of other wireless transmitters in the device or sharing hardware components and/or antenna(s) with other transmitters etc

The device has 10 antennas:

- WWAN Main (6-Transmit and 8-Receive) Antenna
- WiFi Antenna (2-Transmit/Receive)



6) Identify the LTE voice/data requirements in each operating mode and exposure condition with respect to head and body test configurations, antenna locations, handset flip-cover or slide positions, antenna diversity conditions etc

The device is a data only device. Data mode was tested in each operating mode and exposure condition in the body configuration. See test setup photos to see all configurations tested.

- 7) Identify if Maximum Power Reduction (MPR) is optional or mandatory, i.e. built-in by design:
 - a) Only mandatory MPR may be considered during SAR testing, when the maximum output power is permanently limited by the MPR implemented within the UE; and only for the applicable RB (resource block) configurations specified in LTE standards

MPR is mandatory, built-in by design on all production units. It was enabled during testing.

Modulation	Ch	Channel Bandwidth/transmission Bandwidth Configuration						
		(RB)						
	1.4	1.4 3.0 5 10 15 20						
	MHz	MHZ	MHz	MHz	MHz	MHz		
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	

b) A-MPR (additional MPR) must be disabled

A-MPR was disabled during testing.

8) Include the maximum average conducted output power on the required test channels for each channel bandwidth and UL modulation used in each frequency band:

The maximum average conducted output power for the testing is listed on pages 42-112 of this report. The below table shows the factory set point with the allowable tolerance.

Band	Technology	Class	3GPP Nominal Power dBm	Tolerance dBm	Lower Tolerance dBm	Upper Tolerance dBm
Band 2 – 1900 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 12 – 700 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 13 – 782 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 14 - 793 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 5 – 850 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 26 – 850 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 4 – 1750 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 66 – 1750 MHz	LTE – FDD	3	23	±1.0	22.0	24.0
Band 7 – 2600 MHz	LTE – FDD	3	22	±1.0	21.0	23.0
Band 41 – 2500 MHz	LTE – TDD	3	22	±1.0	21.0	23.0
Band 48 – 3600 MHz	LTE – TDD	3	22	±1.0	21.0	23.0



9) Identify all other U.S. wireless operating modes (3G, Wi-Fi, WiMax, Bluetooth etc), device/exposure configurations (head and body, antenna and handset flip-cover or slide positions, antenna diversity conditions etc.) and frequency bands used for these modes

Other wireless modes:

Band	Technology	Class	3GPP Nominal Power dBm	Tolerance dBm	Lower Tolerance dBm	Upper Tolerance dBm
Band 5 – 850 MHz	UMTS	3	23	±1.0	22.0	24.0
Band 4 – 1750 MHz	UMTS	3	23	±1.0	22.0	24.0
Band 2 – 1900 MHz	UMTS	3	23	±1.0	22.0	24.0
WLAN – 2.4 GHz	802.11b	N/A	N/A	N/A	N/A	20.5
WLAN – 2.4 GHz	802.11gn20	N/A	N/A	N/A	N/A	19.5
WLAN – 2.4 GHz	802.11n40	N/A	N/A	N/A	N/A	18.5
WLAN – 5 GHz Band I	802.11an20n40/ac	N/A	N/A	N/A	N/A	15.0
WLAN - 5 GHz Band IIA, IIC, III	802.11an20/ac	N/A	N/A	N/A	N/A	19.0
WLAN – 5 GHz Band IIA, IIC, III	802.11n40/ac	N/A	N/A	N/A	N/A	18.5

10) Include the maximum average conducted output power measured for the other wireless modes and frequency bands.

The maximum average conducted output power measured for the testing is listed on pages 27-31 of this report. The table in item 9 shows the factory set point with the allowable tolerance.

11) When power reduction is applied to certain wireless modes to satisfy SAR compliance for simultaneous transmission conditions, other equipment certification or operating requirements, include the maximum average conducted output power measured in each power reduction mode applicable to the simultaneous voice/data transmission configurations for such wireless configurations and frequency bands; and also include details of the power reduction implementation and measurement setup

Power reduction is not required to satisfy SAR compliance.

12) Include descriptions of the test equipment, test software, built-in test firmware etc. required to support testing the device when power reduction is applied to one or more transmitters/antennas for simultaneous voice/data transmission

Power reduction is not required to satisfy SAR compliance.

13) When appropriate, include a SAR test plan proposal with respect to the above

Power reduction is not required to satisfy SAR compliance.

14) If applicable, include preliminary SAR test data and/or supporting information in laboratory testing inquiries to address specific issues and concerns or for requesting further test reduction considerations appropriate for the device; for example, simultaneous transmission configurations.

Not applicable.



10. FCC 3G Measurement Procedures

Power measurements were performed using a base station simulator under average power.

10.1 Procedures Used to Establish RF Signal for SAR

The device was placed into a simulated call using a base station simulator in a screen room. Such test signals offer a consistent means for testing SAR and recommended for evaluating SAR. The SAR measurement software calculates a reference point at the start and end of the test to check for power drifts. If conducted power deviations of more than 5% occurred, the tests were repeated.

10.2 SAR Measurement Conditions for WCDMA/HSDPA/HSUPA

Configure the call box 8960 to support all WCDMA tests in respect to the 3GPP 34.121 (listed in Table below). Measure the power at Ch4132, 4182 and 4233 for US cell; Ch9262, 9400 and 9538 for US PCS band.

For Rel99

- Set a Test Mode 1 loop back with a 12.2kbps Reference Measurement Channel (RMC).
- Set and send continuously Up power control commands to the device
- Measure the power at the device antenna connector using the power meter with average detector.

For HSDPA Rel 6

- Establish a Test Mode 1 look back with both 1 12.2kbps RMC channel and a H-Set1 Fixed Reference Channel (FRC). With the 8960 this is accomplished by setting the signal Channel Coding to "Fixed Reference Channel" and configuring for HSET-1 QKSP.
- Set beta values and HSDPA settings for HSDPA Subtest1 according to Table below.
- Send continuously Up power control commands to the device
- Measure the power at the device antenna connector using the power meter with modulated average detector.
- Repeat the measurement for the HSDPA Subtest2, 3 and 4 as given in Table below.

For HSUPA Rel 6

- Use UL RMC 12.2kbps and FRC H-Set1 QPSK, Test Mode 1 loop back. With the 8960 this is accomplished by setting the signal Channel Coding to "E-DCH Test Channel" and configuring the equipment category to Cat5_10ms.
- Set the Absolute Grant for HSUPA Subtest1 according to Table below.
- Set the device power to be at least 5dB lower than the Maximum output power
- Send power control bits to give one TPC_cmd = +1 command to the device. If device doesn't send any E-DPCH data with decreased E-TFCI within 500ms, then repeat this process until the decreased E-TFCI is reported.
- Confirm that the E-TFCI transmitted by the device is equal to the target E-TFCI in Table below. If the E-TFCI transmitted by the device is not equal to the target E-TFCI, then send power control bits to give one TPC_cmd = -1 command to the UE. If UE sends any E-DPCH data with decreased E-TFCI within 500 ms, send new power control bits to give one TPC_cmd = -1 command to the UE. Then confirm that the E-TFCI transmitted by the UE is equal to the target E-TFCI in Table below.
- Measure the power using the power meter with modulated average detector.
- Repeat the measurement for the HSUPA Subtest2, 3, 4 and 5 as given in Table below.



EM7565 Conducted Powers

3GPP Release	Mode	Cellular Band [dBm]			Sub-Test (See Table	MPR
Version		4132	4183	4233	`Below)	
99	WCDMA	23.52	23.79	23.75	-	-
6		23.99	23.65	23.53	1	0
6	HSDPA	23.95	23.96	23.73	2	0
6	порга	23.33	23.10	23.12	3	0.5
6		23.03	23.47	23.03	4	0.5
6		23.68	23.67	23.55	1	0
6		21.75	21.83	21.97	2	2
6	HSUPA	22.98	22.74	22.95	3	1
6		21.99	21.56	21.75	4	2
6		23.79	23.63	23.71	5	0

3GPP Release	Mode	PCS Band [dBm]			Sub-Test (See Table	MPR
Version		9262	9400	9538	Below)	
99	WCDMA	23.76	23.91	23.80	-	-
6		23.99	23.80	23.74	1	0
6	HSDPA	23.65	23.50	23.61	2	0
6	ПЗДРА	23.32	23.13	23.38	3	0.5
6		23.13	23.20	23.21	4	0.5
6		23.62	23.73	23.93	1	0
6		21.98	21.77	21.74	2	2
6	HSUPA	22.84	22.58	22.91	3	1
6		21.84	21.89	21.72	4	2
6		23.60	23.63	23.87	5	0

3GPP Release	Mode	AWS	Band [d	IBm]	Sub-Test (See Table	MPR
Version		1312	1413	1513	Below)	
99	WCDMA	23.73	23.78	23.62	-	-
6		24.00	23.80	23.91	1	0
6	HSDPA	23.98	23.66	23.76	2	0
6	ПЗДРА	23.35	23.03	23.44	3	0.5
6		23.41	23.46	23.39	4	0.5
6		23.96	23.65	23.95	1	0
6		21.79	21.51	21.60	2	2
6	HSUPA	22.62	22.63	22.68	3	1
6		21.86	21.71	21.88	4	2
6		23.89	23.60	23.54	5	0



EM7511 Conducted Powers

3GPP Release	Mode	Cellular Band [dBm]			Sub-Test (See Table	MPR
Version		4132	4183	4233	Below)	
99	WCDMA	23.59	23.58	23.50	-	-
6		23.79	23.74	23.74	1	0
6	HSDPA	23.79	23.96	23.75	2	0
6	ПЗДРА	23.06	23.11	23.03	3	0.5
6		23.30	23.28	23.14	4	0.5
6		23.99	23.90	23.96	1	0
6		21.53	21.58	21.57	2	2
6	HSUPA	22.96	22.77	22.54	3	1
6		21.63	21.99	21.52	4	2
6		23.72	23.57	23.83	5	0

3GPP Release	Mode	PCS Band [dBm]			Sub-Test (See Table	MPR
Version		9262	9400	9538	Below)	
99	WCDMA	23.80	23.89	23.84	-	-
6		23.81	23.89	23.73	1	0
6	HSDPA	23.84	23.89	23.74	2	0
6	ПЗДРА	23.27	23.42	23.02	3	0.5
6		23.16	23.13	23.35	4	0.5
6		23.97	23.58	23.54	1	0
6		21.94	21.65	21.64	2	2
6	HSUPA	22.82	22.86	22.79	3	1
6		21.78	21.98	21.83	4	2
6		23.73	23.88	23.54	5	0

3GPP Release	Mode	AWS	Band [d	Bm]	Sub-Test (See Table	MPR
Version		1312	1413	1513	Below)	
99	WCDMA	23.76	23.99	23.73	-	-
6		23.74	23.52	23.96	1	0
6	HSDPA	23.70	23.81	23.90	2	0
6	порга	23.23	23.31	23.24	3	0.5
6		23.12	23.34	23.39	4	0.5
6		23.85	23.65	23.79	1	0
6		21.94	21.97	21.76	2	2
6	HSUPA	22.56	22.73	22.91	3	1
6		21.52	21.54	21.76	4	2
6		23.87	23.82	23.50	5	0



Sub-Test Setup for Release 6 HSDPA

Sub-Test	βc	β_d	B _c / β _d	β_{hs}
1	2/15	15/15	2/15	4/15
2	12/15	15/15	15/15	24/15
3	15/15	8/15	15/8	30/15
4	15/15	4/15	15/4	30/15
$\Delta_{ m ack},\Delta_{ m nack}$ a	and $\Delta_{cqi} =$	8		

Sub-Test Setup for Release 6 HSUPA

Sub-Test	βc	β_d	B _c / β _d	β_{hs}	B_{ec}	B_{ed}	MPR	AG Index	E-TFCI
1	11/15	15/15	11/15	22/15	209/225	1039/225	0.0	20	75
2	6/15	15/15	6/15	12/15	12/15	94/75	2.0	12	67
3	15/15	9/15	15/9	30/15	30/15	47/15	1.0	15	92
4	2/15	15/15	2/15	4/15	2/15	56/15	2.0	17	71
5	15/15	15/15	15/15	30/15	24/15	134/15	0.0	21	81
Δ_{ack} , Δ_{nack} and $\Delta_{\text{cqi}} = 8$									



Band	Mode	Bandwidth	Channel	Frequency	Data	Antenna	Avg Power	Tune-up
		(MHz)		(MHz)	Rate		(dBm)	Pwr (dBm)
			1	2412			19.95	20.50
			6	2437	1	Tx0	20.00	20.50
	802.11b	20	11	2462	1 Mbps		20.00	20.50
			<u>1</u>	2412 2437		Tx1	19.94 20.00	20.50 20.50
			11	2462	1	171	20.00	20.50
			1	2412			18.87	19.50
			6	2437		Tx0	18.84	19.50
	802.11g	20	11	2462	6 Mbps		18.84	19.50
			1	2412	-	T. 4	18.89	19.50
			6 11	2437 2462	1	Tx1	18.86 18.92	19.50 19.50
2450 MHz			1	2412			18.80	19.50
			6	2437	1	Tx0	18.37	19.50
	802.11n	20	11	2462	нто		18.35	19.50
	802.1111	20	1	2412	1110		18.91	19.50
			6	2437	<u> </u>	Tx1	18.88	19.50
			11	2462			18.89	19.50
			<u>3</u>	2422 2437	1	Tx0	17.45 17.42	18.50 18.50
			9	2442	1	120	17.46	18.50
	802.11n	40	3	2422	HT0		17.41	18.50
			6	2437		Tx1	17.89	18.50
			9	2442			17.86	18.50
			36	5180	4	Tx0	13.92	15.00
			40 44	5200 5220	1		14.00 14.00	15.00 15.00
			48	5240	1 .		13.97	15.00
	802.11a	20	36	5180	6 Mbps		13.99	15.00
			40	5200			14.00	15.00
			44	5220			14.00	15.00
			48	5240			13.94	15.00
			36	5180	HT0	Tx0	13.91	15.00
	802.11n		40 44	5200 5220			13.96 13.87	15.00 15.00
5.15-5.25 GHz			48	5240			13.85	15.00
		20	36	5180		Tx1	13.84	15.00
			40	5200			13.87	15.00
			44	5220			13.90	15.00
			48	5240			13.83	15.00
	802.11n	40	38	5190	HT0	Tx0	13.42	15.00
			46 38	5230 5190			13.41 13.43	15.00 15.00
			46	5230	HT0	Tx1	13.38	15.00
	802.11ac	80	42		VHT0	Tx0	13.42	15.00
	802.11aC	80	42	5210	VIIIU	Tx1	13.44	15.00
		20	52	5260	4		17.95	19.00
			56	5280	-	Tx0	18.00	19.00
			60	5300	-		18.00	19.00
	802.11a		64 52	5320 5260	6 Mbps	T.4	17.97 17.94	19.00 19.00
			56	5280	1		18.00	19.00
			60	5300]	Tx1	18.00	19.00
			64	5320			17.98	19.00
		20	54	5270	_		17.92	19.00
			56	5280	-	Tx0	17.89	19.00
5.25-5.35 GHz			60	5300	-		17.88	19.00
	802.11n		64 52	5320 5260	HT0		17.90 17.91	19.00 19.00
			56	5280 5280	1	T. 4	17.88	19.00
			60	5300		Tx1	17.96	19.00
			64	5320			17.89	19.00
			54	5270	нто	Tx0	17.43	18.50
	802.11n	40	62	5310	 		17.34	18.50
			54	5270	HT0	Tx1	17.39	18.50
			62	5310		Tx0	17.40 12.35	18.50 14.00
	802.11ac	80	58	5290	VHT0	Tx1	12.41	14.00



		Bandwidth		Frequency	Data		Avg Power	Tune-up
Band	Mode	(MHz)	Channel	(MHz)	Rate	Antenna	(dBm)	Pwr (dBm)
		(101112)	100	5500			17.92	19.00
			104	5520			18.00	19.00
			108	5540			17.95	19.00
			112	5560			17.97	19.00
			116	5580			18.00	19.00
			120	5600		Tx0	17.91	19.00
			124 128	5620 5640			18.00 17.98	19.00 19.00
			132	5660			17.94	19.00
			136	5680			18.00	19.00
	002.11-	20	140	5700	CAAbaa		17.90	19.00
	802.11a	20	100	5500	6 Mbps		17.89	19.00
			104	5520			18.00	19.00
			108	5540			17.92	19.00
			112 116	5560 5580			17.97 18.00	19.00 19.00
			120	5600		Tx1	17.93	19.00
			124	5620		1x1	18.00	19.00
			128	5640			17.91	19.00
			132	5660			17.88	19.00
			136	5680			18.00	19.00
			140	5700			17.94	19.00
			100	5500		Tx0	17.88	19.00
			104 108	5520 5540			17.83 17.85	19.00 19.00
			112	5560			17.86	19.00
			116	5580			17.84	19.00
			120	5600			17.90	19.00
			124	5620			17.91	19.00
5600 MHz			128	5640			17.94	19.00
			132	5660			17.81	19.00
			136 140	5680 5700			17.89 17.88	19.00 19.00
	802.11n	20	100	5500	HT0	Tx1	17.92	19.00
			104	5520			17.90	19.00
			108	5540			17.87	19.00
			112	5560			17.89	19.00
			116	5580			17.83	19.00
			120	5600			17.86	19.00
			124 128	5620 5640			17.90 17.94	19.00 19.00
			132	5660			17.91	19.00
			136	5680			17.86	19.00
			140	5700			17.89	19.00
			102	5510		Tx0	17.45	18.50
		40	110	5550			17.40	18.50
			118	5580			17.42	18.50
			126 136	5610 5680			17.37 17.38	18.50 18.50
	802.11n		102	5510	HT0	Tx1	17.44	18.50
			110	5550	1		17.40	18.50
			118	5580]		17.43	18.50
			126	5610			17.38	18.50
			136	5680			17.35	18.50
			106	5530		T 0	17.38	18.00
)2.11ac 80	122 138	5610 5690	VHT0	Tx0	17.42	18.00 18.00
	802.11ac		138	5690 5530			17.36 17.32	18.00
			122	5610		Tx1	17.41	18.00
			138	5690	1		17.38	18.00



Band	Mode	Bandwidth (MHz)	Channel	Frequency (MHz)	Data Rate	Antenna	Avg Power (dBm)	Tune-up Pwr (dBm)
			149	5745		Tx0	18.00	19.00
			153	5765			17.92	19.00
			157	5785			18.00	19.00
			161	5805			17.94	19.00
	802.11a	20	165	5825	6 Mbps		18.00	19.00
	802.11a	20	149	5745	6 IVIDPS	Tx1	18.00	19.00
			153	5765			17.93	19.00
			157	5785			18.00	19.00
			161	5805			17.94	19.00
			165	5825			18.00	19.00
	802.11n	20	149	5745	нто	Tx0	17.88	19.00
			153	5765			17.87	19.00
5000 1411			157	5785			17.90	19.00
5800 MHz			161	5805			17.92	19.00
			165	5825			17.94	19.00
			149	5745		Tx1	17.95	19.00
			153	5765			17.90	19.00
			157	5785			17.89	19.00
			161	5805			17.85	19.00
			165	5825			17.87	19.00
		40	152	5760		Tx0	17.42	18.50
	802.11n		159	5795	НТО		17.45	18.50
			152	5760		Tx1	17.43	18.50
			159	5795			17.40	18.50
	902 1100	80	155	F77F	VHT0	Tx0	17.42	18.50
	802.11ac			5775		Tx1	17.44	18.50



Figure 10.1 Test Reduction Table - WCDMA EM7565

			WCDMA EM7565			
Band/	Technology	Position/Antenna	Required	Tested/		
Frequency (MHz)			Channel	Reduced		
			4132	Reduced ¹		
Band 5		AII/AII	4183	Tested		
824-849 MHz	141001442	·	4233	Reduced ¹		
	WCDMA ²	T D " 1 "	9262	Reduced ¹		
		Top, Bottom, Left,	9400	Tested		
		Right/All	9538	Reduced ¹		
			9262	Reduced ¹		
		Front, Back/T1	9400	Tested		
			9538	Reduced ¹		
			9262	Tested		
		Front, Back /T2	9400	Tested		
			9538	Tested		
			9262	Reduced ¹		
		Front, Back /T3	9400	Tested		
			9538	Reduced ¹		
Dond O			9262	Reduced ¹		
Band 2 1850-1910 MHz		Front, Back /T4	9400	Tested		
1000-1910 MUZ	MCDMA		9538	Reduced ¹		
	WCDMA		9262	Reduced ¹		
		Front, Back /B1	9400	Tested		
			9538	Reduced ¹		
			9262	Reduced ¹		
		Front, Back /B2	9400	Tested		
			9538	Reduced ¹		
			9262	Reduced ¹		
		Front, Back /B3	9400	Tested		
			9538	Reduced ¹		
		Front, Back /B4	9262	Reduced ¹		
			9400	Tested		
			9538	Reduced ¹		
		Ton Dottom Loft	1312	Reduced ¹		
	WCDMA ²	Top, Bottom, Left, Right/All	1413	Tested		
		Night/All	1513	Reduced ¹		
		Front, Back/T1	1312	Reduced ¹		
			1413	Tested		
			1513	Reduced ¹		
			1312	Tested		
		Front, Back /T2	1413	Tested		
			1513	Tested		
			1312	Reduced ¹		
		Front, Back /T3	1413	Tested		
			1513	Reduced ¹		
Band 4			1312	Reduced ¹		
1710-1755 MHz		Front, Back /T4	1413	Tested		
	WCDMA		1513	Reduced ¹		
			1312	Reduced ¹		
		Front, Back /B1	1413	Tested		
			1513	Reduced ¹		
			1312	Tested		
		Front, Back /B2	1413	Tested		
			1513	Tested		
		F . B . /5.	1312	Reduced ¹		
		Front, Back /B3	1413	Tested		
			1513	Reduced ¹		
			1312	Reduced ¹		
		Front, Back /B4	1413	Tested		
han the mid channel is 2			1513	Reduced ¹		

Reduced¹ – When the mid channel is 3 dB (0.8 W/kg) below the limit, the remaining channels are not required per KDB 447498 D01 v06 section 4.3.3 page 14.

Reduced² – All reductions were the same for each side listed where the antenna was close enough to require testing. For all other sides, the testing was reduced per KDB447498 D01 v06 section 4.3.1 1) page 11.



Figure 10.2 Test Reduction Table - WCDMA EM7511

David Toll	D'	T (- 1/		
Band/	Technology	Position/Antenna	Required	Tested/
Frequency (MHz)			Channel	Reduced
Band 5			4132	Reduced ¹
824-849 MHz		AII/B1 & B2	4183	Tested
024-049 IVII IZ	WCDMA ²		4233	Reduced ¹
	VVCDIVIA-	Ton Pottom Loft	9262	Reduced ¹
		Top, Bottom, Left, Right/B1 & B2	9400	Tested
		Right/DT & DZ	9538	Reduced ¹
Band 2			9262	Reduced ¹
1850-1910 MHz	WCDMA	Front, Back/B1	9400	Tested
1030-1910 101112			9538	Reduced ¹
		Front, Back /B2	9262	Tested
			9400	Tested
			9538	Tested
	WCDMA ² Top, Bottom, I Right/B1 & E	Top Bottom Loft	1312	Reduced ¹
			1413	Tested
		Trigition & bz	1513	Reduced ¹
Band 4			1312	Reduced ¹
1710-1755 MHz		Front, Back/B1	1413	Tested
	WCDMA		1513	Reduced ¹
	WCDIVIA		1312	Tested
		Front, Back /B2	1413	Tested
			1513	Tested

Reduced¹ – When the mid channel is 3 dB (0.8 W/kg) below the limit, the remaining channels are not required per KDB 447498 D01 v06 section 4.3.3 page 14.

Reduced² – All reductions were the same for each side listed where the antenna was close enough to require testing. For all other sides, the testing was reduced per KDB447498 D01 v06 section 4.3.1 1) page 11.



Figure 10.3 Test Reduction Table – 2.4 GHz Tx0

Mode	Side	Required Channel	Tested/Reduced
		2 – 2417 MHz	Reduced ²
802.11b	Bottom	6 – 2437 MHz	Tested
		10 – 2457 MHz	Tested
		2 – 2417 MHz	Reduced ³
802.11g	Bottom	6 – 2437 MHz	Reduced ³
		10 – 2457 MHz	Reduced ³
		2 – 2417 MHz	Reduced ³
802.11n	Bottom	6 – 2437 MHz	Reduced ³
		10 – 2457 MHz	Reduced ³

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.

Reduced² – When the reported SAR is >0.4 W/kg, test the next highest configuration until the SAR value is ≤ 0.8 W/kg per KDB 248227 D01 v02r02 section 5.1.1 2) page 9.

Reduced³ – 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 is not required per KDB 248227 D01 v02r02 section 5.2.2 2) page 10.

Figure 10.4 Test Reduction Table – 2.4 GHz Tx1

Mode	Side	Required Channel	Tested/Reduced
		2 – 2417 MHz	Reduced ¹
802.11b	Тор	6 – 2437 MHz	Tested
		10 – 2457 MHz	Reduced ¹
		2 – 2417 MHz	Reduced ³
802.11g	Тор	6 – 2437 MHz	Reduced ³
	·	10 – 2457 MHz	Reduced ³
		2 – 2417 MHz	Reduced ³
802.11n	Тор	6 – 2437 MHz	Reduced ³
		10 – 2457 MHz	Reduced ³

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.

Reduced² – When the reported SAR is >0.4 W/kg, test the next highest configuration until the SAR value is ≤ 0.8 W/kg per KDB 248227 D01 v02r02 section 5.1.1 2) page 9.

Reduced³ – 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 is not required per KDB 248227 D01 v02r02 section 5.2.2 2) page 10.



Figure 10.5 Test Reduction Table – 5.1 GHz Tx0

Mode	Side	Required Channel	Tested/Reduced
		36 – 5180 MHz	Reduced ¹
802.11a	Lanton Mada	40 – 5200 MHz	Reduced ¹
5150 MHz	Laptop Mode	44 – 5220 MHz	Reduced ¹
		48 – 5240 MHz	Reduced ¹
		36 – 5180 MHz	Reduced ¹
802.11n	Laptop Mode	40 – 5200 MHz	Reduced ¹
5150 MHz	Laptop widde	44 – 5220 MHz	Reduced ¹
		48 – 5240 MHz	Reduced ¹
802.11ac 5210 MHz	Laptop Mode	42 – 5210 MHz	Reduced ¹

Reduced¹ – When the adjusted SAR is ≤ 1.2 W/kg for UNII-2A, SAR is not required for the UNII-1 band with lower or equal maximum output power in that test configuration per KDB 248227 D01 v02 section 5.3.1 2) page 11.

Figure 10.6 Test Reduction Table - 5.1 GHz Tx1

1 19 0 1010 1001110 011 101010 011 011			
Mode	Side	Required Channel	Tested/Reduced
		36 – 5180 MHz	Reduced ¹
802.11a	Lonton Mada	40 – 5200 MHz	Reduced ¹
5150 MHz	Laptop Mode	44 – 5220 MHz	Reduced ¹
		48 – 5240 MHz	Reduced ¹
		36 – 5180 MHz	Reduced ¹
802.11n	Lanton Mada	40 – 5200 MHz	Reduced ¹
5150 MHz	Laptop Mode	44 – 5220 MHz	Reduced ¹
		48 – 5240 MHz	Reduced ¹
802.11ac 5210 MHz	Laptop Mode	42 – 5210 MHz	Reduced ¹

Reduced¹ – When the adjusted SAR is ≤ 1.2 W/kg for UNII-2A, SAR is not required for the UNII-1 band with lower or equal maximum output power in that test configuration per KDB 248227 D01 v02 section 5.3.1 2) page 11.



Figure 10.7 Test Reduction Table - 5.2 GHz Tx0

Mode	Side	Required Channel	Tested/Reduced
		52 – 5260 MHz	Reduced ¹
802.11a	Lanton Mada	56 – 5280 MHz	Reduced ¹
5250 MHz	Laptop Mode	60 – 5300 MHz	Tested
		64 – 5320 MHz	Reduced ¹
		52 – 5260 MHz	Reduced ¹
802.11n	Laptop Mode	56 – 5280 MHz	Reduced ¹
5250 MHz	Laptop Mode	60 – 5300 MHz	Reduced ¹
		64 – 5320 MHz	Reduced ¹
802.11ac 5210 MHz	Laptop Mode	58 – 5290 MHz	Reduced ¹

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.

Reduced² – When the reported SAR is >0.4 W/kg, test the next highest configuration until the SAR value is ≤ 0.8 W/kg per KDB 248227 D01 v02r02 section 5.1.1 2) page 9.

Figure 10.8 Test Reduction Table - 5.2 GHz Tx1

		V V	
Mode	Side	Required Channel	Tested/Reduced
		52 – 5260 MHz	Reduced ¹
802.11a	Laptop Mode	56 – 5280 MHz	Reduced ¹
5250 MHz		60 – 5300 MHz	Tested
		64 – 5320 MHz	Reduced ¹
		52 – 5260 MHz	Reduced ¹
802.11n	Lautan Mada	56 – 5280 MHz	Reduced ¹
5250 MHz	Laptop Mode	60 – 5300 MHz	Reduced ¹
		64 – 5320 MHz	Reduced ¹
802.11ac 5210 MHz	Laptop Mode	58 – 5290 MHz	Reduced ¹

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.



Figure 10.9 Test Reduction Table - 5.6 GHz Tx0

Mode	Side	Required Channel	Tested/Reduced
		100 – 5500 MHz	Reduced ¹
		104 – 5520 MHz	Reduced ¹
		108 – 5540 MHz	Reduced ¹
	Laptop Back	112 – 5560 MHz	Reduced ¹
000 44-		116 – 5580 MHz	Reduced ¹
802.11a 5600 MHz		120 – 5600 MHz	Reduced ¹
3000 MHZ		124 – 5620 MHz	Tested
		128 – 5640 MHz	Reduced ¹
		132 – 5660 MHz	Reduced ¹
		136 – 5680 MHz	Reduced ¹
		140 – 5700 MHz	Reduced ¹

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.

Reduced² – When the reported SAR is >0.8 W/kg, test the next highest configuration until the SAR value is ≤ 1.2 W/kg per KDB 248227 D01 v02r02 section 5.1.1 3) page 9.

Figure 10.10 Test Reduction Table – 5.6 GHz Tx1

i igaic it		adotion rabic	OIO OIIE IXI
Mode	Side	Required Channel	Tested/Reduced
		100 – 5500 MHz	Reduced ¹
		104 – 5520 MHz	Reduced ¹
		108 – 5540 MHz	Reduced ¹
	Laptop Back	112 – 5560 MHz	Reduced ¹
000 110		116 – 5580 MHz	Reduced ¹
802.11a 5600 MHz		120 – 5600 MHz	Reduced ¹
		124 – 5620 MHz	Tested
		128 – 5640 MHz	Reduced ¹
		132 – 5660 MHz	Reduced ¹
		136 – 5680 MHz	Reduced ¹
		140 – 5700 MHz	Reduced ¹

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.



Figure 10.11 Test Reduction Table – 5.6 GHz Tx0

Mode	Side	Required Channel	Tested/Reduced
		100 – 5500 MHz	Reduced ¹
		104 – 5520 MHz	Reduced ¹
		108 – 5540 MHz	Reduced ¹
	Laptop Mode	112 – 5560 MHz	Reduced ¹
000 44=		116 – 5580 MHz	Reduced ¹
802.11n 5600 MHz		120 – 5600 MHz	Reduced ¹
3000 MHZ		124 – 5620 MHz	Reduced ¹
		128 – 5640 MHz	Reduced ¹
		132 – 5660 MHz	Reduced ¹
		136 – 5680 MHz	Reduced ¹
		140 – 5700 MHz	Reduced ¹

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.

Reduced² – When the reported SAR is >0.8 W/kg, test the next highest configuration until the SAR value is ≤ 1.2 W/kg per KDB 248227 D01 v02r02 section 5.1.1 3) page 9.

Figure 10.12 Test Reduction Table – 5.6 GHz Tx1

i igai o i c		adottott table	OIG OIL IXI
Mode	Side	Required Channel	Tested/Reduced
		100 – 5500 MHz	Reduced ¹
		104 – 5520 MHz	Reduced ¹
		108 – 5540 MHz	Reduced ¹
	Laptop Mode	112 – 5560 MHz	Reduced ¹
002 11n		116 – 5580 MHz	Reduced ¹
802.11n 5600 MHz		120 – 5600 MHz	Reduced ¹
		124 – 5620 MHz	Reduced ¹
		128 – 5640 MHz	Reduced ¹
		132 – 5660 MHz	Reduced ¹
		136 – 5680 MHz	Reduced ¹
		140 – 5700 MHz	Reduced ¹

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.



Figure 10.13 Test Reduction Table – 5.6 GHz Tx0

Mode	Side	Required Channel	Tested/Reduced
802.11ac 5600 MHz	Laptop Mode	106 – 5530 MHz	Reduced ¹
		122 – 5610 MHz	Reduced ¹
		138 – 5690 MHz	Reduced ¹

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.

Reduced² – When the reported SAR is >0.8 W/kg, test the next highest configuration until the SAR value is ≤ 1.2 W/kg per KDB 248227 D01 v02r02 section 5.1.1 3) page 9.

Figure 10.14 Test Reduction Table - 5.6 GHz Tx1

Mode	Side	Required Channel	Tested/Reduced
802.11ac 5600 MHz		106 – 5530 MHz	Reduced ¹
	Lanton Mode	122 – 5610 MHz	Reduced ¹
		138 – 5690 MHz	Reduced ¹

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.



Figure 10.15 Test Reduction Table - 5.8 GHz Tx0

Mode	Side	Required Channel	Tested/Reduced
		149 – 5745 MHz	Reduced ¹
000 110		153 – 5765 MHz	Reduced ¹
802.11a 5800 MHz	Laptop Mode	157 – 5785 MHz	Tested
3600 MITZ		161 – 5805 MHz	Reduced ¹
		165 – 5825 MHz	Reduced ¹
		149 – 5745 MHz	Reduced ¹
000 115		153 – 5765 MHz	Reduced ¹
802.11n 5800 MHz	Laptop Mode	157 – 5785 MHz	Reduced ¹
3600 MITZ		161 – 5805 MHz	Reduced ¹
		165 – 5825 MHz	Reduced ¹
802.11ac 5775 MHz	Laptop Mode	155 – 5775 MHz	Reduced ¹

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.

Reduced² – When the reported SAR is >0.8 W/kg, test the next highest configuration until the SAR value is ≤ 1.2 W/kg per KDB 248227 D01 v02r02 section 5.1.1 3) page 9.

Figure 10.16 Test Reduction Table - 5.8 GHz Tx1

rigule it	rigure 10.10 rest Reduction Table - 3.8 GHz 1X1								
Mode	Side	Required Channel	Tested/Reduced						
000.44-		149 – 5745 MHz	Reduced ¹						
		153 – 5765 MHz	Reduced ¹						
802.11a 5800 MHz	Laptop Mode	157 – 5785 MHz	Tested						
3600 IVITZ		161 – 5805 MHz	Reduced ¹						
		165 – 5825 MHz	Reduced ¹						
		149 – 5745 MHz	Reduced ¹						
802.11n		153 – 5765 MHz	Reduced ¹						
5800 MHz	Laptop Mode	157 – 5785 MHz	Reduced ¹						
3600 WII 12		161 – 5805 MHz	Reduced ¹						
		165 – 5825 MHz	Reduced ¹						
802.11ac 5775 MHz	Laptop Mode	155 – 5775 MHz	Reduced ¹						

Reduced¹ – When the reported SAR is ≤ 0.4 W/kg, SAR is not required for the remaining test configuration per KDB 248227 D01 v02r02 section 5.1.1 1) page 9.



11.1 SAR Measurement Conditions for LTE Bands

11.1.1 LTE Functionality

The follow table identifies all the channel bandwidths in each frequency band supported by this device.

LTE Band Class	Bandwidth (MHz)	Frequency or Freq. Band (MHz)
4	1.4, 3, 5, 10, 15, 20	1710-1755
66	5, 10, 15, 20	1710-1780
5	1.4, 3, 5, 10	824-849
26	1.4, 3, 5, 10, 15	814-849
13	5, 10	777-787
12	1.4, 3, 5, 10	704-716
14	5, 10	788-798
2	1.4, 3, 5, 10, 15, 20	1850-1915
48	5, 10, 15, 20	3550-3700
7	5, 10, 15, 20	2500-2570
41	5, 10, 15, 20	2496-2690

11.1.2 Test Conditions

All SAR measurements for LTE were performed using the Anritsu MT8820C. A closed loop power control setting allowed the UE to transmit at the maximum output power during the SAR measurements. The Figure 11.1 table indicates all the test reduction utilized for this report.

MPR was enabled for this device. A-MPR was disabled for all SAR test measurements.



EM7565 Conducted Power

				ucted Pow		_	_
Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
			6		19957	1710.7	22.4
				0	20175	1732.5	22.3
					20393	1754.3	22.5
					19957	1710.7	22.6
			3	1	20175	1732.5	22.6
		1 4 5411-			20393	1754.3	22.5
		1.4 MHz			19957	1710.7	23.9
			1	0	20175	1732.5	23.7
					20393	1754.3	24.0
					19957	1710.7	23.7
			1	5	20175	1732.5	23.9
					20393	1754.3	23.5
					19965	1711.5	22.9
			15	0	20175	1732.5	22.5
					20385	1753.5	22.4
				19965	1711.5	22.7	
		3 MHz	8	3	20175	1732.5	22.5
4	QPSK				20385	1753.5	23.0
4	QF3K		1		19965	1711.5	23.6
				0	20175	1732.5	23.5
					20385	1753.5	23.4
				14	19965	1711.5	23.9
			1		20175	1732.5	23.3
					20385	1753.5	23.9
					19975	1712.5	22.7
			25	0	20175	1732.5	22.8
					20375	1752.5	22.6
					19975	1712.5	22.7
			12	6	20175	1732.5	23.0
		E MILIZ			20375	1752.5	22.3
		5 MHz			19975	1712.5	23.6
			1	0	20175	1732.5	23.4
					20375	1752.5	23.4
			1		19975	1712.5	23.6
				24	20175	1732.5	23.3
					20375	1752.5	23.9



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				0	20000	1715	23.0
			50		20175	1732.5	22.6
					20350	1750	22.6
					20000	1715	22.7
			25	12	20175	1732.5	22.3
		40 8411-			20350	1750	22.7
		10 MHz			20000	1715	23.8
			1	0	20175	1732.5	23.7
					20350	1750	23.9
					20000	1715	23.7
			1	24	20175	1732.5	24.0
					20350	1750	23.9
					20025	1717.5	22.5
			75	0	20175	1732.5	22.9
					20325	1747.5	22.4
			36		20025	1717.5	22.4
		15 MHz		19	20175	1732.5	22.5
4					20325	1747.5	22.7
4	QPSK		1	0	20025	1717.5	23.6
					20175	1732.5	23.3
					20325	1747.5	24.0
			1	74	20025	1717.5	23.7
					20175	1732.5	23.5
					20325	1747.5	23.4
					20050	1720	22.8
			100	0	20175	1732.5	22.6
					20300	1745	22.8
					20050	1720	22.7
			50	25	20175	1732.5	22.9
		20 MHz			20300	1745	22.5
		ZU IVITIZ			20050	1720	24.0
			1	0	20175	1732.5	23.9
					20300	1745	23.7
			1	99	20050	1720	23.8
					20175	1732.5	23.8
					20300	1745	23.6



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				0	19957	1710.7	21.6
			6		20175	1732.5	22.0
					20393	1754.3	21.3
					19957	1710.7	21.8
			3	1	20175	1732.5	21.8
		4 4 5 4 1 -			20393	1754.3	21.7
		1.4 MHz			19957	1710.7	22.9
			1	0	20175	1732.5	22.3
					20393	1754.3	23.0
					19957	1710.7	22.7
			1	5	20175	1732.5	22.7
					20393	1754.3	22.6
					19965	1711.5	21.4
			15	0	20175	1732.5	21.5
					20385	1753.5	21.3
				19965	1711.5	21.5	
		JAM 3 MHz	8	3	20175	1732.5	21.7
4	16QAM				20385	1753.5	21.8
4	IOQAIVI		1		19965	1711.5	22.8
				0	20175	1732.5	22.5
					20385	1753.5	22.5
				14	19965	1711.5	22.4
			1		20175	1732.5	22.7
					20385	1753.5	22.4
					19975	1712.5	21.4
			25	0	20175	1732.5	21.9
					20375	1752.5	21.5
					19975	1712.5	21.4
			12	6	20175	1732.5	21.4
		5 MHz			20375	1752.5	21.5
		J IVITZ			19975	1712.5	22.8
			1	0	20175	1732.5	22.9
					20375	1752.5	22.4
			1	24	19975	1712.5	22.8
					20175	1732.5	22.4
					20375	1752.5	22.5



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
			50	0	20000	1715	21.8
					20175	1732.5	21.7
					20350	1750	21.6
					20000	1715	21.9
			25	12	20175	1732.5	21.5
		10 1411-			20350	1750	21.9
		10 MHz			20000	1715	22.4
			1	0	20175	1732.5	22.4
					20350	1750	22.6
					20000	1715	22.7
			1	24	20175	1732.5	22.8
					20350	1750	22.7
					20025	1717.5	21.4
			75	0	20175	1732.5	21.6
					20325	1747.5	21.6
				20025	1717.5	21.5	
		15 MHz	36	19	20175	1732.5	21.3
4	16QAM				20325	1747.5	21.9
4	IOQAIVI		1		20025	1717.5	22.4
				0	20175	1732.5	22.5
					20325	1747.5	22.5
				74	20025	1717.5	23.0
			1		20175	1732.5	22.6
					20325	1747.5	22.9
					20050	1720	22.0
			100	0	20175	1732.5	21.6
					20300	1745	21.4
					20050	1720	21.5
			50	25	20175	1732.5	21.7
		20 MHz			20300	1745	21.5
		ZUIVITZ			20050	1720	22.4
			1	0	20175	1732.5	22.7
					20300	1745	22.9
			1		20050	1720	22.3
				99	20175	1732.5	22.6
					20300	1745	22.4



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
						The column of	
					20407	824.7	22.9
			6	0	20525	836.5	22.4
					20643	848.3	22.8
					20407	824.7	22.6
			3	1	20525	836.5	22.7
				1	20643	848.3	22.7
		1.4 MHz			20407	824.7	23.9
			1	0	20525	836.5	23.3
			_	U	20643	848.3	23.7
					20407	824.7	23.6
			1	5	20525	836.5	23.8
			_		20643	848.3	23.4
					20415	825.5	22.4
			15	0	20525	836.5	22.7
					20635	847.5	22.8
			8		20415	825.5	22.3
		3 MHz		3	20525	836.5	22.5
					20635	847.5	22.3
5	QPSK		1		20415	825.5	23.5
				0	20525	836.5	24.0
					20635	847.5	23.6
				14	20415	825.5	23.6
			1		20525	836.5	23.3
					20635	847.5	24.0
					20425	826.5	22.9
			25	0	20525	836.5	22.7
					20625	846.5	22.3
					20425	826.5	22.6
			12	6	20525	836.5	22.3
		E 8411-			20625	846.5	22.4
		5 MHz			20425	826.5	23.7
			1	0	20525	836.5	23.8
					20625	846.5	23.6
					20425	826.5	23.6
			1	24	20525	836.5	23.5
					20625	846.5	23.4



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20450	829	22.9
			50	0	20525	836.5	23.0
					20600	844	22.8
					20450	829	22.8
			25	12	20525	836.5	22.7
	OPCI	40.8411			20600	844	22.4
	QPSK	10 MHz			20450	829	23.5
			1	0	20525	836.5	24.0
					20600	844	23.5
					20450	829	23.9
			1	24	20525	836.5	24.0
					20600	844	23.3
					20407	824.7	21.4
		1.4 MHz	6	0	20525	836.5	22.0
					20643	848.3	21.9
			3		20407	824.7	21.7
				1	20525	836.5	21.9
					20643	848.3	21.9
5			1		20407	824.7	22.4
				0	20525	836.5	22.8
					20643	848.3	22.5
			1	5	20407	824.7	22.6
					20525	836.5	22.5
	460444				20643	848.3	22.7
	16QAM				20415	825.5	22.0
			15	0	20525	836.5	21.7
					20635	847.5	21.3
					20415	825.5	21.9
			8	3	20525	836.5	21.6
					20635	847.5	22.0
		3 MHz			20415	825.5	22.6
			1	0	20525	836.5	22.7
		_			20635	847.5	22.6
			1	14	20415	825.5	22.5
					20525	836.5	22.8
					20635	847.5	22.9



5	0.0 - 1.1 - 1.1	5. 1 111	DD 61	DD 0(()	61		
Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20425	826.5	21.6
			25	0	20525	836.5	21.9
					20625	846.5	21.6
					20425	826.5	21.9
			12	6	20525	836.5	21.5
	5 MHz			20625	846.5	21.3	
		3 101112			20425	826.5	22.3
			1	0	20525	836.5	22.4
					20625	846.5	22.5
			1	24	20425	826.5	22.6
					20525	836.5	23.0
_	460444				20625	846.5	22.7
5	16QAM		50	0	20450	829	21.9
					20525	836.5	22.0
					20600	844	21.7
					20450	829	21.7
			25	12	20525	836.5	21.9
		10 1411-			20600	844	21.8
		10 MHz			20450	829	22.8
			1	0	20525	836.5	22.6
					20600	844	22.8
					20450	829	22.6
			1	24	20525	836.5	22.5
			_		20600	844	22.4



Dand		Donalissidah	DD Ci-o	DD Offeet	Channal	Гиолизаран	Davier
Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
			25	0	23205	779.5	22.6
			25	0	23255	784.5	22.8
			12	6	23205	779.5	22.4
		5 MHz	12	0	23255	784.5	22.6
		2 IVITZ	1	0	23205	779.5	24.0
	QPSK		1	U	23255	784.5	23.9
	QF3K		1	24	23205	779.5	24.0
			1	24	23255	784.5	23.9
		10 MHz	50	0	23230	782.0	22.8
			25	13	23230	782.0	22.4
			1	24	23230	782.0	23.6
13			1	49	23230	782.0	23.9
13			25	0	23205	779.5	21.6
					23255	784.5	21.4
			12	6	23205	779.5	21.6
		5 MHz	12	0	23255	784.5	21.5
		3 101112	1	0	23205	779.5	22.6
	16QAM		1	U	23255	784.5	22.9
	TOQAM		1	24	23205	779.5	22.5
			1	Z4	23255	784.5	22.9
			50	0	23230	782.0	21.6
		10 MHz	25	13	23230	782.0	21.6
			1	24	23230	782.0	22.8
			1	49	23230	782.0	22.5



Band	Modulation	Randwidth	RR Size	RR Offset	Channel	Frequency	Power
Daria	Wioddiation	Danawiatii	ND SIZE	ND Offset	Chamilei	Trequency	1 OWEI
			T	<u> </u>	25507	0447	22.4
			6	_	26697	814.7	22.4
				0	26865	831.5	22.5
					27033	848.3	22.8
					26697	814.7	22.3
			3	1	26865	831.5	22.4
		1.4 MHz			27033	848.3	22.3
					26697	814.7	23.8
			1	0	26865	831.5	23.7
					27033	848.3	23.7
					26697	814.7	23.5
			1	5	26865	831.5	23.5
					27033	848.3	23.6
					26705	815.5	22.4
		3 MHz	15	0	26865	831.5	22.5
					27025	847.5	22.8
			8		26705	815.5	22.7
				3	26865	831.5	22.6
26	ODCK				27025	847.5	22.5
26	QPSK		1		26705	815.5	23.7
				0	26865	831.5	23.5
					27025	847.5	23.6
					26705	815.5	23.6
			1	14	26865	831.5	23.8
					27025	847.5	23.3
					26715	816.5	22.4
			25	0	26865	831.5	22.5
					27015	846.5	22.9
					26715	816.5	23.0
			12	6	26865	831.5	23.0
					27015	846.5	22.8
		5 MHz			26715	816.5	23.8
			1	0	26865	831.5	23.5
					27015	846.5	23.3
			1		26715	816.5	23.4
				24	26865	831.5	23.8
			_		27015	846.5	23.4



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
						Trequency	
					26740	819.0	22.5
			50	0	26865	831.5	22.4
			30		26990	844.0	22.6
					26740	819.0	22.5
			25	12	26865	831.5	22.6
					26990	844.0	22.9
		10 MHz			26740	819.0	23.5
			1	0	26865	831.5	23.9
					26990	844.0	23.9
				1 24	26740	819.0	23.5
			1		26865	831.5	23.8
26	ODSK				26990	844.0	23.6
26	QPSK		75		24765	821.5	22.8
				0	26865	831.5	22.5
					26995	841.5	22.6
					24765	821.5	22.4
			36	19	26865	831.5	22.4
		15 1411-			26995	841.5	22.7
		15 MHz			24765	821.5	23.6
			1	37	26865	831.5	23.8
					26995	841.5	23.6
			1		24765	821.5	23.4
				74	26865	831.5	23.9
					26995	841.5	23.7



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					26697	814.7	21.8
			6	0	26865	831.5	21.9
					27033	848.3	21.9
					26697	814.7	21.9
			3	1	26865	831.5	21.9
		4 4 5 4 1			27033	848.3	21.3
		1.4 MHz			26697	814.7	22.5
			1	0	26865	831.5	22.5
					27033	848.3	22.5
					26697	814.7	22.5
			1	5	26865	831.5	22.7
					27033	848.3	22.9
					26705	815.5	22.0
			15	0	26865	831.5	21.9
		3 MHz			27025	847.5	21.4
			8		26705	815.5	21.6
				3	26865	831.5	21.5
26	16QAM				27025	847.5	21.8
20	IOQAIVI		1		26705	815.5	22.4
				0	26865	831.5	22.6
					27025	847.5	22.3
					26705	815.5	22.8
			1	14	26865	831.5	23.0
					27025	847.5	22.4
					26715	816.5	21.4
			25	0	26865	831.5	21.3
					27015	846.5	21.8
					26715	816.5	21.8
			12	6	26865	831.5	21.3
		5 MHz			27015	846.5	21.7
		J IVITZ			26715	816.5	22.8
			1	0	26865	831.5	22.8
					27015	846.5	22.6
					26715	816.5	22.4
			1	24	26865	831.5	22.9
					27015	846.5	22.6



5 1		B I	DD 61	DD 0((61		
Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					26740	819.0	21.7
			50	0	26865	831.5	21.8
					26990	844.0	21.3
					26740	819.0	21.4
			25	12	26865	831.5	21.6
		10 MHz			26990	844.0	21.6
		10 MILE			26740	819.0	22.5
			1	0	26865	831.5	22.3
					26990	844.0	22.9
			1		26740	819.0	23.0
				24	26865	831.5	22.4
26	16QAM				26990	844.0	22.9
20	IOQAIVI		75	0	24765	821.5	21.6
					26865	831.5	21.6
					26995	841.5	21.7
					24765	821.5	21.7
			36	19	26865	831.5	21.5
		15 MHz			26995	841.5	21.7
		TO IVIDE			24765	821.5	22.5
			1	0	26865	831.5	22.7
					26995	841.5	22.8
					24765	821.5	22.9
			1	74	26865	831.5	22.9
					26995	841.5	22.3



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				0	23017	699.7	22.7
			6		23095	707.5	22.6
					23173	715.3	22.3
					23017	699.7	22.5
			3	1	23095	707.5	22.9
		1 4 5411-			23173	715.3	22.6
		1.4 MHz			23017	699.7	23.4
			1	0	23095	707.5	23.5
					23173	715.3	23.3
					23017	699.7	23.4
			1	5	23095	707.5	23.6
					23173	715.3	23.8
					23025	700.5	22.5
			15	0	23095	707.5	22.6
		3 MHz			23165	714.5	22.9
			8	3	23025	700.5	22.7
					23095	707.5	22.8
12	QPSK				23165	714.5	22.5
12	Qrsk	3 101112	1		23025	700.5	23.6
				0	23095	707.5	23.5
					23165	714.5	24.0
					23025	700.5	23.4
			1	14	23095	707.5	24.0
					23165	714.5	23.9
					23035	701.5	22.6
			25	0	23095	707.5	22.6
					23155	713.5	22.8
					23035	701.5	22.3
			12	6	23095	707.5	22.8
		5 MHz			23155	713.5	22.9
		3 1411 12			23035	701.5	23.8
			1	0	23095	707.5	23.5
					23155	713.5	23.6
					23035	701.5	23.4
			1	24	23095	707.5	23.4
					23155	713.5	24.0



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
						1 ,	
					23060	704.0	22.5
			50	0	23095	707.5	23.0
					23130	711.0	22.4
					23060	704.0	22.7
			25	12	23095	707.5	22.4
					23130	711.0	22.9
	QPSK	10 MHz			23060	704.0	23.7
			1	12	23095	707.5	23.7
					23130	711.0	23.9
					23060	704.0	23.9
			1	24	23095	707.5	23.5
					23130	711.0	23.6
					23017	699.7	21.4
			6	0	23095	707.5	21.7
					23173	715.3	21.8
			3		23017	699.7	21.8
				1	1 23095	707.5	21.4
		1.4 MHz			23173	715.3	21.7
12			1		23017	699.7	22.7
				0	23095	707.5	22.7
					23173	715.3	22.9
				5	23017	699.7	22.7
			1		23095	707.5	22.5
					23173	715.3	23.0
	16QAM				23025	700.5	21.9
			15	0	23095	707.5	21.4
					23165	714.5	21.4
					23025	700.5	21.8
			8	3	23095	707.5	22.0
					23165	714.5	21.5
		3 MHz			23025	700.5	22.4
			1	0	23095	707.5	22.7
			1		23165	714.5	22.3
			1		23025	700.5	22.9
				14	23095	707.5	22.9
					23165	714.5	22.5



D1	B.O. aladadaa	Daniel del	DD 6:	DD 044+	Cl I	-	D
Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					23035	701.5	21.8
			25	0	23095	707.5	21.5
					23155	713.5	21.6
					23035	701.5	21.4
			12	6	23095	707.5	21.9
		5 MHz			23155	713.5	21.7
		3 101112			23035	701.5	22.6
			1	0	23095	707.5	22.9
					23155	713.5	22.6
			1	24	23035	701.5	22.8
					23095	707.5	22.8
4.0	460444				23155	713.5	22.9
12	16QAM		50	0	23060	704.0	21.8
					23095	707.5	21.8
					23130	711.0	21.7
					23060	704.0	22.0
			25	12	23095	707.5	21.6
		10 1411-			23130	711.0	21.9
		10 MHz			23060	704.0	22.9
			1	0	23095	707.5	22.9
					23130	711.0	22.8
					23060	704.0	22.4
			1	24	23095	707.5	23.0
					23130	711.0	22.6



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20775	2502.5	21.8
			25	0	21100	2535.0	21.7
		5 MHz			21425	2567.5	22.0
	ODSK		12		20775 21100	2502.5	21.7
				6		2535.0	21.3
7					21425	2567.5	22.0
/	QPSK				20775	2502.5	22.7
				0	21100	2535.0	22.4
					21425	2567.5	22.6
					20775	2502.5	22.8
			1	24	21100	2535.0	22.5
					21425	2567.5	22.6



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20800	2505.0	21.9
			50	0	21100	2535.0	21.8
					21400	2565.0	21.9
					20800	2505.0	21.9
			25	12	21100	2535.0	21.7
		40 8411-			21400	2565.0	21.9
		10 MHz			20800	2505.0	22.5
			1	0	21100	2535.0	22.8
					21400	2565.0	22.8
					20800	2505.0	22.6
			1	24	21100	2535.0	22.6
					21400	2565.0	22.5
		15 MHz			20825	2507.5	21.4
			75	0	21100	2535.0	21.9
					21375	2562.5	21.3
				19	20825	2507.5	21.9
			36		21100	2535.0	21.5
7	ODCK				21375	2562.5	21.5
/	QPSK		1		20825	2507.5	22.4
				0	21100	2535.0	22.3
					21375	2562.5	22.6
					20825	2507.5	22.8
			1	74	21100	2535.0	22.7
					21375	2562.5	22.4
					20850	2510.0	21.5
			100	0	21100	2535.0	21.5
					21350	2560.0	21.5
					20850	2510.0	21.7
			50	25	21100	2535.0	21.9
		20 MHz			21350	2560.0	22.0
		ZU IVITIZ			20850	2510.0	23.0
			1	0	21100	2535.0	23.0
					21350	2560.0	22.5
					20850	2510.0	22.7
			1	99	21100	2535.0	23.0
					21350	2560.0	22.5



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20775	2502.5	20.4
			25	0	21100	2535.0	20.4
					21425	2567.5	20.6
					20775	2502.5	20.7
	16000	5 MHz		6	21100	2535.0	21.0
7					21425	2567.5	20.4
/	16QAM			0	20775	2502.5	21.4
					21100	2535.0	21.5
					21425	2567.5	21.9
					20775	2502.5	21.8
			1	24	21100	2535.0	22.0
					21425	2567.5	21.7



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20800	2505.0	20.6
			50	0	21100	2535.0	20.5
					21400	2565.0	20.7
					20800	2505.0	20.6
			25	12	21100	2535.0	20.4
		10 1411-			21400	2565.0	20.6
		10 MHz			20800	2505.0	21.7
			1	0	21100	2535.0	21.6
					21400	2565.0	21.8
					20800	2505.0	21.6
			1	24	21100	2535.0	21.4
					21400	2565.0	21.3
		15 MHz			20825	2507.5	20.4
			75	0	21100	2535.0	20.8
					21375	2562.5	20.7
			36		20825	2507.5	20.3
				19	21100	2535.0	20.8
7	160414				21375	2562.5	20.4
7	16QAM		1	1 0	20825	2507.5	21.7
					21100	2535.0	21.9
					21375	2562.5	21.7
					20825	2507.5	21.4
			1	74	21100	2535.0	21.8
					21375	2562.5	21.7
					20850	2510.0	20.6
			100	0	21100	2535.0	20.4
					21350	2560.0	20.4
					20850	2510.0	20.7
			50	25	21100	2535.0	20.6
		20 1447			21350	2560.0	20.3
		20 MHz			20850	2510.0	21.7
			1	0	21100	2535.0	21.4
					21350	2560.0	22.0
					20850	2510.0	21.6
			1	99	21100	2535.0	21.9
					21350	2560.0	21.5



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					39675	2498.5	21.6
			25	0	40620	2593.0	21.6
					41565	2687.5	21.9
					39675	2498.5	21.9
	QPSK	5 MHz	12	6	40620	2593.0	21.4
41					41565	2687.5	21.9
41	QP3N			0	39675	2498.5	22.4
					40620	2593.0	22.3
					41565	2687.5	22.5
					39675	2498.5	22.5
			1	24	40620	2593.0	23.0
					41565	2687.5	22.9



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				39700 40620 41540 39700 12 40620 41540 39700 0 40620 41540 39700 24 40620 41540 39725 0 40620 41515 39725 0 40620 41515 39725 0 40620 41515 39725 74 40620	39700	2501.0	22.0
			50		40620	2593.0	21.5
					41540	2685.0	21.4
					39700	2501.0	21.5
			25	12	40620	2593.0	21.7
		40 8411-			41540	2685.0	21.5
		10 MHz			39700	2501.0	22.5
			1	0	40620	2593.0	22.6
					41540	2685.0	22.3
					39700	2501.0	22.3
			1	24	40620	2593.0	22.9
					41540	2685.0	23.0
				0	39725	2503.5	21.8
			75		40620	2593.0	21.6
					41515	2682.5	21.6
			36	19	39725	2503.5	21.6
					40620	2593.0	21.6
41	QPSK	15 MHz			41515	2682.5	21.3
41	QP3K	12 1/111/2			39725	2503.5	22.6
			1	0	40620	2593.0	22.8
					41515	2682.5	22.5
				1 74	39725	2503.5	22.5
			1		40620	2593.0	22.9
					41515	2682.5	23.0
					39750	2506.0	21.9
			100	0	40620	2593.0	21.8
					41490	2680.0	21.4
					39750	2506.0	21.6
			50	25	40620	2593.0	21.6
		20.5411-			41490	2680.0	21.7
		20 MHz			39750	2506.0	23.0
			1	0	40620	2685.0 2501.0 2593.0 2685.0 2501.0 2593.0 2685.0 2501.0 2593.0 2685.0 2503.5 2593.0 2682.5 2503.5 2593.0 2682.5 2503.5 2593.0 2682.5 2503.5 2593.0 2682.5 2503.5 2593.0 2682.5 2503.5 2593.0 2682.5 2503.5	22.7
					41490	2680.0	22.7
					39750	2506.0	22.9
			1	99	40620	2593.0	22.9
					41490	2680.0	22.6



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					39675	2498.5	20.5
			25	0	40620	2593.0	20.6
					41565	2687.5	20.6
					39675	2498.5	20.8
			12	6	40620	2593.0	20.7
41	16QAM	5 MHz			41565	2687.5	20.7
41	IOQAIVI	3 IVITZ			39675	2498.5	21.7
			1	0	40620	2593.0	21.7
					41565	2687.5	21.4
					39675	2498.5	21.9
			1	24	40620	20 2593.0 65 2687.5 75 2498.5 20 2593.0 65 2687.5 75 2498.5 20 2593.0 65 2687.5 75 2498.5 20 2593.0	21.9
					41565	2687.5	21.8



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
			50 0	39700	2501.0	20.5	
				0	40620	2593.0	20.9
					41540	2685.0	20.4
					39700	2501.0	20.5
			25	12	40620	2593.0	20.6
		40.8411			41540	2685.0	20.4
		10 MHz			39700	2501.0	21.7
			1	0	40620	2593.0	21.6
					41540	2685.0	22.0
					39700	2501.0	21.6
			1	24	40620	2593.0	22.0
					41540	2685.0	21.6
					39725	2503.5	20.4
		45.0411-	75	0	40620	2593.0	20.4
					41515	2682.5	20.6
			36	19	39725	2503.5	20.6
					40620	2593.0	20.6
41	160414				41515	2682.5	20.5
41	16QAM	15 MHz			39725	2503.5	21.6
			1	0	40620	2685.0 2503.5 20 2593.0 25 2682.5 25 2503.5 20 2593.0 25 2682.5 25 2503.5 20 2593.0 25 2682.5 25 2503.5 26 2593.0 26 2593.0 26 2593.0 26 2593.0 26 2593.0	21.3
					41515	2682.5	21.9
				74	39725	2503.5	21.4
			1		40620	2593.0	21.9
					41515	2682.5	21.9
					39750	2506.0	20.4
			100	0	40620	2593.0	21.0
					41490	2680.0	20.9
					39750	2506.0	21.0
			50	25	40620	2593.0	21.0
		20 1447			41490	2680.0	20.3
		20 MHz			39750	2506.0	21.6
			1	0	40620	2593.0	21.6
					41490	2680.0	22.0
			1		39750	2506.0	21.7
				99	40620	2593.0	21.6
					41490	2680.0	21.6



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					26065	1852.5	22.9
			25	0	26365	1882.5	22.4
					26665	1912.5	23.0
					26065	1852.5	22.7
			12	6	26365	1882.5	22.9
66	QPSK	5 MHz			26665	1907.5	22.6
00	QP3N	3 IVITZ			26065	1852.5	23.8
			1	0	26365	1882.5	23.8
					26665	1907.5	23.4
					26065	1852.5	23.4
			1	24	26365	1882.5 22 1912.5 23 1852.5 22 1882.5 22 1907.5 23 1852.5 23 1907.5 23 1852.5 23 1852.5 23 1882.5 23 1882.5 23 1882.5 23	23.9
					26665	1907.5	23.7



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					26090	1855.0	22.9
			50	0	26365	1882.5	22.7
					26640	1910.0	22.8
					26090	1855.0	22.6
			25	12	26365	1882.5	22.8
		40.8411			26640	1910.0	22.7
		10 MHz			26090	1855.0	23.7
			1	0	26365	1882.5	23.8
					26640	1910.0	23.6
					26090	1855.0	24.0
			1	24	26365	1882.5	23.9
					26640	1910.0	23.4
					26115	1857.5	22.8
			75	0	26365	1882.5	22.7
					26615	1907.5	22.3
			36	19	26115	1857.5	22.4
					26365	1882.5	22.9
66	ODCK	1 F N 411 -			26615	1907.5	22.8
00	QPSK	15 MHz		0	26115	1857.5	23.5
			1		26365	1882.5	23.9
					26615	1907.5	23.7
				74	26115	1857.5	23.6
			1		26365	1882.5	23.4
					26615	1907.5	23.6
					26140	1860.0	22.6
			100	0	26365	1882.5	22.4
					26590	1905.0	23.0
					26140	1860.0	22.7
			50	25	26365	1882.5	22.3
		20 MHz			26590	1905.0	22.8
					26140	1860.0	23.9
			1	0	26365	1910.0 1855.0 1882.5 1910.0 1855.0 1882.5 1910.0 1855.0 1882.5 1910.0 1857.5 1882.5 1907.5 1857.5 1882.5 1907.5 1857.5 1882.5 1907.5 1857.5 1882.5 1907.5 1882.5 1907.5 1882.5 1907.5 1882.5 1907.5 1882.5 1907.5 1882.5 1907.5 1882.5 1907.5 1882.5 1907.5	23.8
					26590	1905.0	23.4
					26140	1860.0	23.4
			1	99	26365	1882.5	23.6
					26590	1905.0	23.8



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					26065	1852.5	21.6
			25	0	26365	1882.5	21.6
					26665	1912.5	21.4
					26065	1852.5	21.8
			12	6	26365	1882.5	21.7
66	16QAM	5 MHz			26665	1907.5	21.5
00	IOQAIVI	3 IVITZ			26065	1852.5	22.7
			1	0	26365	1882.5	22.7
					26665	1907.5	22.4
					26065	1852.5	22.8
			1	24	26365	1882.5 21 1907.5 22 1852.5 22 1882.5 22 1907.5 22 1852.5 22 1882.5 22	22.7
					26665	1907.5	22.6



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				0 2636 2664 2609 12 2636 2664 2609 0 2636 2664 2609 24 2636 2664 2613 0 2636 2664 2613 19 2636	26090	1855.0	21.9
			50	0	26365	1882.5	21.5
					26640	1910.0	21.4
					26090	1855.0	21.4
			25	12	26365	1882.5	21.6
		40.8411			26640	1910.0	21.7
		10 MHz			26090	1855.0	22.6
			1	0	26365	1882.5	22.4
					26640	1910.0	22.9
					26090	1855.0	22.7
			1	24	26365	1882.5	22.6
					26640	1910.0	22.7
					26115	1857.5	21.9
			75	0	26365	1882.5	21.6
					26615	1907.5	21.7
				19	26115	1857.5	21.4
			36		26365	1882.5	21.8
	160484	45 8411-			26615	1907.5	21.4
66	16QAM	15 MHz			26115	1857.5	22.7
			1	0	26365	1882.5	22.8
					26615	1907.5	22.9
				74	26115	1857.5	22.3
			1		26365	1882.5	22.5
					26615	1907.5	22.3
				0	26140	1860.0	21.4
			100		26365	1882.5	21.7
					26590	1905.0	22.0
					26140	1860.0	21.5
			50	25	26365	1882.5	21.8
		20 1411-			26590	1905.0	21.9
		20 MHz	1Hz		26140	1860.0	22.8
			1	0	26365	1910.0 1855.0 1882.5 1910.0 1855.0 1882.5 1910.0 1855.0 1882.5 1910.0 1857.5 1882.5 1907.5 1887.5 1882.5 1907.5 1857.5 1882.5 1907.5 1857.5 1882.5 1907.5 1857.5 1882.5 1907.5 1857.5 1882.5 1907.5 1857.5 1882.5 1907.5 1882.5 1907.5 1882.5 1907.5 1882.5 1907.5	22.8
					26590	1905.0	22.5
					26140	1860.0	22.7
			1	99	26365	1882.5	22.9
					26590	1905.0	22.8



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					19957	1710.7	22.6
			6	0	20175	1732.5	22.8
					20393	1754.3	22.6
					19957	1710.7	22.9
			3	1	20175	1732.5	22.4
		4 4 5 4 1 -			20393	1754.3	22.9
		1.4 MHz			19957	1710.7	23.6
			1	0	20175	1732.5	23.9
					20393	1754.3	23.6
					19957	1710.7	23.6
			1	5	20175	1732.5	23.7
					20393	1754.3	23.9
					19965	1711.5	22.5
			15	0	20175	1732.5	22.9
		3 MHz			20385	1753.5	22.7
			8	3	19965	1711.5	22.7
					20175	1732.5	22.3
2	QPSK				20385	1753.5	22.5
2	QF3K		1	1 0	19965	1711.5	23.6
					20175	1732.5	23.7
					20385	1753.5	23.8
					19965	1711.5	23.9
			1	14	20175	1732.5	24.0
					20385	1753.5	23.9
					19975	1712.5	22.4
			25	0	20175	1732.5	22.9
					20375	1752.5	22.5
					19975	1712.5	22.5
			12	6	20175	1732.5	22.6
		5 MHz			20375	1752.5	22.7
		3 141117			19975	1712.5	23.8
			1	0	20175	1732.5	23.8
					20375	1752.5	23.6
					19975	1712.5	23.7
			1	24	20175	1732.5	23.3
					20375	1752.5	24.0



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20000	1715	22.8
			50	0	20175	1732.5	22.5
					20350	1750	22.6
					20000	1715	22.4
			25	12	20175	1732.5	22.6
		10 1411-			20350	1750	22.9
		10 MHz			20000	1715	23.9
			1	0	20175	1732.5	23.6
					20350	1750	23.7
					20000	1715	23.3
			1	24	20175	1732.5	23.3
					20350	1750	23.8
					20025	1717.5	22.3
			75	0	20175	1732.5	22.9
		15 MHz			20325	1747.5	22.4
			36	19	20025	1717.5	22.6
					20175	1732.5	22.4
2	QPSK				20325	1747.5	22.6
2	QP3K		1	. 0	20025	1717.5	23.5
					20175	1732.5	23.3
					20325	1747.5	23.8
					20025	1717.5	23.4
			1	74	20175	1732.5	24.0
					20325	1747.5	23.6
					20050	1720	22.6
			100	0	20175	1732.5	22.4
					20300	1745	22.7
					20050	1720	22.4
			50	25	20175	1732.5	22.7
		20 MHz			20300	1745	22.7
		ZU IVITIZ			20050	1720	23.6
			1	0	20175	1732.5	23.8
					20300	1745	23.7
					20050	1720	24.0
			1	49	20175	1732.5	23.9
					20300	1745	23.4



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				0	19957	1710.7	21.5
			6		20175	1732.5	21.3
					20393	1754.3	21.7
					19957	1710.7	21.6
			3	1	20175	1732.5	21.7
		4 4 5 4 1			20393	1754.3	21.8
		1.4 MHz			19957	1710.7	22.7
			1	0	20175	1732.5	22.4
					20393	1754.3	22.4
					19957	1710.7	22.5
			1	5	20175	1732.5	22.6
					20393	1754.3	22.4
					19965	1711.5	21.3
			15	0	20175	1732.5	21.8
		3 MHz	_	-	20385	1753.5	22.0
			8		19965	1711.5	21.8
				3	20175	1732.5	21.9
2	160484				20385	1753.5	21.9
2	16QAM		1	. 0	19965	1711.5	22.7
					20175	1732.5	22.7
					20385	1753.5	22.8
					19965	1711.5	22.3
			1	14	20175	1732.5	22.8
					20385	1753.5	22.3
					19975	1712.5	21.6
			25	0	20175	1732.5	21.6
					20375	1752.5	21.5
					19975	1712.5	21.8
			12	6	20175	1732.5	21.8
		E 8411-			20375	1752.5	21.9
		5 MHz			19975	1712.5	23.0
			1	0	20175	1732.5	22.5
					20375	1752.5	22.4
					19975	1712.5	22.6
			1	24	20175	1732.5	22.7
					20375	1752.5	22.9



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				0	20000	1715	21.6
			50		20175	1732.5	21.9
					20350	1750	21.7
					20000	1715	21.5
			25	12	20175	1732.5	21.9
		40.8411			20350	1750	21.7
		10 MHz			20000	1715	22.4
			1	0	20175	1732.5	22.4
					20350	1750	22.5
					20000	1715	22.9
			1	24	20175	1732.5	22.4
					20350	1750	22.8
					20025	1717.5	21.8
			75	0	20175	1732.5	21.5
		15 MHz			20325	1747.5	22.0
			36		20025	1717.5	21.3
				19	20175	1732.5	21.4
2	160414				20325	1747.5	21.8
2	16QAM		1			20025	1717.5
				0	20175	1732.5	22.4
					20325	1747.5	22.5
					20025	1717.5	22.6
			1	74	20175	1732.5	22.8
					20325	1747.5	22.7
					20050	1720	21.7
			100	0	20175	1732.5	21.5
					20300	1745	21.3
					20050	1720	21.9
			50	25	20175	1732.5	21.6
		20 1447			20300	1745	22.0
		20 MHz			20050	1720	22.7
			1	0	20175	1732.5	22.5
					20300	1745	22.3
					20050	1720	23.0
			1	99	20175	1732.5	22.8
					20300	1745	22.9



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					55265	3552.5	22.0
			25	0	55990	3526.0	21.5
					56715	3697.5	21.9
					55265	3552.5	21.5
			12	6	55990	3526.0	22.0
48	QPSK	E N.411-			56715	3697.5	21.9
40	QP3K	5 MHz		0	55265	3552.5	22.7
					55990	3526.0	22.6
					56715	3697.5	22.9
					55265	3552.5	22.5
			1	24	55990	3526.0	22.9
					56715	3697.5	22.8



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					55290	3555.0	21.5
			50	0	55990	3526.0	21.6
					56690	3695.0	21.9
					55290	3555.0	21.4
			25	12	55990	3526.0	21.8
					56690	3695.0	21.4
		10 MHz			55290	3555.0	22.8
			1	0	55990	3526.0	22.3
					56690	3695.0	22.5
					55290	3555.0	22.9
			1	24	55990	3526.0	22.9
					56690	3695.0	22.7
					55315	3557.5	21.5
			75	0	55990	3626.0	21.9
		15 MHz			56665	3692.5	21.9
			36	19	55315	3557.5	21.5
					55990	3626.0	21.6
40	ODCK				56665	3692.5	21.4
48	QPSK		1		55315	3557.5	22.8
				0	55990	3626.0	23.0
					56665	3692.5	22.8
					55315	3557.5	22.7
			1	74	55990	3626.0	22.5
					56665	3692.5	22.8
					55340	3560.0	21.4
			100	0	55990	3526.0	21.7
					56640	3690.0	21.9
					55340	3560.0	21.9
			50	25	55990	3526.0	21.9
		20 1411-			56640	3690.0	21.9
		20 MHz			55340	3560.0	22.4
			1	0	55990	3526.0	22.6
					56640	3690.0	22.5
					55340	3560.0	22.4
			1	49	55990	3526.0	22.5
					56640	3690.0	22.7



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					55265	3552.5	20.7
			25	0	55990	3526.0	21.0
					56715	3697.5	20.8
		5 MHz			55265	3552.5	20.5
	16000		12	6	55990	3526.0	20.6
48					56715	3697.5	20.5
40	16QAM			0	55265	3552.5	21.4
					55990	3526.0	21.6
					56715	3697.5	21.7
					55265	3552.5	21.4
			1	24	55990	3526.0	21.8
					56715	3697.5	22.0



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				0	55290	3555.0	20.5
			50		55990	3526.0	20.9
					56690	3695.0	20.5
					55290	3555.0	20.7
			25	12	55990	3526.0	20.5
		40.8411			56690	3695.0	20.8
		10 MHz			55290	3555.0	21.9
			1	0	55990	3526.0	21.9
					56690	3695.0	21.8
					55290	3555.0	21.9
			1	24	55990	3526.0	21.7
					56690	3695.0	21.5
					55315	3557.5	21.0
			75	0	55990	3626.0	20.5
		15 MHz			56665	3692.5	20.7
			36		55315	3557.5	20.4
				19	55990	3626.0	20.4
40	160484				56665	3692.5	20.7
48	16QAM		1		55315	3557.5	21.6
				0	55990	3626.0	21.9
					56665	3692.5	21.6
					55315	3557.5	21.8
			1	74	55990	3626.0	21.9
					56665	3692.5	21.7
					55340	3560.0	20.4
			100	0	55990	3526.0	20.8
					56640	3690.0	20.6
					55340	3560.0	20.4
			50	25	55990	3526.0	20.4
		20 8411-			56640	3690.0	21.0
		20 MHz			55340	3560.0	21.8
			1	0	55990	3526.0	21.6
					56640	3690.0	21.5
					55340	3560.0	21.7
			1	99	55990	3526.0	21.6
					56640	3690.0	21.9



EM7511 Conducted Power

Band	Madulation			DR Offset		Fraguesa	Power
Danu	Modulation	Danuwiuth	KD SIZE	KB Offset	Channel	Frequency	Power
				0	19957	1710.7	22.5
			6		20175	1732.5	22.7
					20393	1754.3	22.3
					19957	1710.7	22.9
			3	1	20175	1732.5	22.6
		1.4 MHz			20393	1754.3	22.9
		1.4 1/11/12			19957	1710.7	23.3
			1	0	20175	1732.5	23.7
					20393	1754.3	23.5
					19957	1710.7	23.5
			1	5	20175	1732.5	24.0
					20393	1754.3	23.8
					19965	1711.5	22.7
			15	0	20175	1732.5	22.5
					20385	1753.5	22.7
			8		19965	1711.5	22.8
				3	20175	1732.5	22.8
	ODCK	2 8 411-			20385	1753.5	22.7
4	QPSK	3 MHz		0	19965	1711.5	23.5
			1		20175	1732.5	23.8
					20385	1753.5	23.8
			1	14	19965	1711.5	23.8
					20175	1732.5	24.0
					20385	1753.5	23.6
					19975	1712.5	22.9
			25	0	20175	1732.5	22.7
					20375	1752.5	22.9
					19975	1712.5	22.6
			12	6	20175	1732.5	22.4
		5.444			20375	1752.5	22.7
		5 MHz			19975	1712.5	23.9
			1	0	20175	1732.5	23.9
					20375	1752.5	23.6
					19975	1712.5	23.6
			1	24	20175	1732.5	23.5
					20375	1752.5	23.6



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				0	20000	1715	22.8
			50		20175	1732.5	23.0
					20350	1750	22.7
					20000	1715	22.5
			25	12	20175	1732.5	22.4
		40.8411			20350	1750	22.4
		10 MHz			20000	1715	23.6
			1	0	20175	1732.5	23.8
					20350	1750	23.6
					20000	1715	23.8
			1	24	20175	1732.5	23.3
					20350	1750	23.5
					20025	1717.5	22.8
			75	0	20175	1732.5	22.8
		15 MHz			20325	1747.5	22.7
			36		20025	1717.5	22.7
				19	20175	1732.5	23.0
_	ODCK				20325	1747.5	22.7
4	QPSK		1		20025	1717.5	23.9
				0	20175	1732.5	23.7
					20325	1747.5	23.6
					20025	1717.5	23.8
			1	74	20175	1732.5	23.8
					20325	1747.5	24.0
					20050	1720	22.6
			100	0	20175	1732.5	22.8
					20300	1745	22.9
					20050	1720	22.4
			50	25	20175	1732.5	23.0
		20 1447			20300	1745	22.4
		20 MHz			20050	1720	23.6
			1	0	20175	1732.5	24.0
					20300	1745	23.3
					20050	1720	23.8
			1	99	20175	1732.5	23.6
					20300	1745	23.9



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power	
					19957	1710.7	22.0	
			6	0	20175	1732.5	21.9	
					20393	1754.3	21.8	
					19957	1710.7	21.8	
			3	1	20175	1732.5	21.6	
					20393	1754.3	21.7	
		1.4 MHz			19957	1710.7	22.6	
			1	0	20175	1732.5	22.6	
					20393	1754.3	22.7	
					19957	1710.7	22.7	
			1	5	20175	1732.5	23.0	
					20393	1754.3	23.0	
					19965	1711.5	21.7	
			15	0	20175	1732.5	21.9	
				· ·	20385	1753.5	21.4	
			8		19965	1711.5	21.8	
				3	20175	1732.5	21.4	
	450				20385	1753.5	22.0	
4	16QAM	3 MHz	1			19965	1711.5	22.9
				0	20175	1732.5	22.5	
					20385	1753.5	22.3	
					19965	1711.5	22.3	
			1	14	20175	1732.5	22.6	
					20385	1753.5	22.4	
					19975	1712.5	22.0	
			25	0	20175	1732.5	21.8	
					20375	1752.5	21.7	
					19975	1712.5	22.0	
			12	6	20175	1732.5	21.8	
		E N.411-			20375	1752.5	21.5	
		5 MHz			19975	1712.5	22.6	
			1	0	20175	1732.5	22.7	
					20375	1752.5	22.6	
					19975	1712.5	22.5	
			1	24	20175	1732.5	22.8	
					20375	1752.5	22.4	



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power	
				0	20000	1715	21.8	
			50		20175	1732.5	21.5	
					20350	1750	21.5	
					20000	1715	21.8	
			25	12	20175	1732.5	21.3	
		40.8411			20350	1750	22.0	
		10 MHz			20000	1715	22.5	
			1	0	20175	1732.5	22.6	
					20350	1750	22.8	
					20000	1715	22.9	
			1	24	20175	1732.5	22.6	
					20350	1750	22.6	
					20025	1717.5	21.9	
			75	0	20175	1732.5	21.9	
					20325	1747.5	21.6	
			36	19	20025	1717.5	21.9	
					20175	1732.5	21.9	
_	160414	1 F N 411-			20325	1747.5	22.0	
4	16QAM	15 MHz	1			20025	1717.5	22.3
				0	20175	1732.5	22.8	
					20325	1747.5	22.9	
					20025	1717.5	22.3	
			1	74	20175	1732.5	22.7	
					20325	1747.5	22.7	
					20050	1720	21.3	
			100	0	20175	1732.5	21.9	
					20300	1745	21.6	
					20050	1720	21.5	
			50	25	20175	1732.5	22.0	
		20 1447			20300	1745	22.0	
		20 MHz			20050	1720	22.6	
			1	0	20175	1732.5	22.3	
					20300	1745	22.9	
					20050	1720	23.0	
			1	99	20175	1732.5	22.4	
					20300	1745	22.8	



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
		2011010101010				Troquency	
					20407	824.7	22.4
			6	0	20525	836.5	23.0
				0	20523	848.3	22.6
					2043		22.5
			3	1	20525	824.7 836.5	22.5
			3	1		848.3	22.5
		1.4 MHz			20643 20407	824.7	23.9
			1	0			
			1	U	20525	836.5	23.8
					20643	848.3	23.3
			4	_	20407	824.7	23.9
			1	5	20525	836.5	23.8
					20643	848.3	23.8
			4.5		20415	825.5	23.0
		3 MHz	15	0	20525	836.5	22.4
					20635	847.5	23.0
			_		20415	825.5	22.6
			8	3	20525	836.5	22.6
5	QPSK		1		20635	847.5	22.6
				_	20415	825.5	23.7
				0	20525	836.5	23.5
					20635	847.5	23.3
					20415	825.5	23.9
			1	14	20525	836.5	23.5
					20635	847.5	23.9
					20425	826.5	22.3
			25	0	20525	836.5	22.8
					20625	846.5	22.8
					20425	826.5	22.5
			12	6	20525	836.5	22.6
		5 MHz			20625	846.5	22.5
		J IVITZ			20425	826.5	23.8
			1	0	20525	836.5	23.5
					20625	846.5	23.6
					20425	826.5	23.9
			1	24	20525	836.5	23.7
					20625	846.5	23.8



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
						. ,	
					20450	829	22.8
			50	0	20525	836.5	22.5
					20600	844	22.3
					20450	829	22.8
			25	12	20525	836.5	22.8
	ODCK	40.8411			20600	844	23.0
	QPSK	10 MHz			20450	829	23.9
			1	0	20525	836.5	23.4
					20600	844	23.7
					20450	829	23.5
			1	24	20525	836.5	23.7
					20600	844	23.8
					20407	824.7	21.9
			6	0	20525	836.5	21.6
					20643	848.3	21.6
				1	20407	824.7	21.6
			3		20525	836.5	21.4
		1.4 MHz			20643	848.3	21.7
5			1		20407	824.7	22.5
				0	20525	836.5	22.9
					20643	848.3	22.9
					20407	824.7	22.5
			1	5	20525	836.5	22.8
	460444				20643	848.3	22.3
	16QAM				20415	825.5	21.4
			15	0	20525	836.5	21.6
					20635	847.5	21.5
					20415	825.5	21.3
			8	3	20525	836.5	21.4
					20635	847.5	21.9
		3 MHz			20415	825.5	22.9
			1	0	20525	836.5	22.6
					20635	847.5	22.3
			1		20415	825.5	22.9
				14	20525	836.5	22.8
					20635	847.5	22.6



						_	
Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20425	826.5	21.6
			25	0	20525	836.5	21.4
					20625	846.5	21.6
					20425	826.5	21.8
			12	6	20525	836.5	21.3
		5 MHz			20625	846.5	21.3
		3 101112			20425	826.5	22.5
			1	0	20525	836.5	22.3
					20625	846.5	22.5
			1		20425	826.5	22.7
				24	20525	836.5	22.4
_	460444				20625	846.5	22.4
5	16QAM		50		20450	829	21.8
				0	20525	836.5	21.7
					20600	844	22.0
					20450	829	21.6
			25	12	20525	836.5	21.7
		10 1411-			20600	844	21.4
		10 MHz			20450	829	22.5
			1	0	20525	836.5	22.5
					20600	844	22.9
					20450	829	22.3
			1	24	20525	836.5	22.3
					20600	844	22.6



Dand		Donalissidah	DD Ci-o	DD Offeet	Channal	Гиолиологи	Davier
Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
			25	0	23205	779.5	22.7
			25	0	23255	784.5	22.9
			12	6	23205	779.5	22.6
		5 MHz	12	0	23255	784.5	22.8
		2 IVITZ	1	0	23205	779.5	23.4
	QPSK		1	U	23255	784.5	23.8
	QF3K		1	24	23205	779.5	24.0
			1	24	23255	784.5	23.4
		10 MHz	50	0	23230	782.0	22.8
			25	13	23230	782.0	22.5
			1	24	23230	782.0	23.8
13			1	49	23230	782.0	23.6
13			25	0	23205	779.5	21.8
			23	O	23255	784.5	21.9
			12	6	23205	779.5	22.0
		5 MHz	12	0	23255	784.5	21.6
		3 101112	1	0	23205	779.5	23.0
	16QAM		1	U	23255	784.5	22.9
	TOQAM		1	24	23205	779.5	22.6
			1	Z4	23255	784.5	22.9
			50	0	23230	782.0	21.6
		10 MHz	25	13	23230	782.0	21.7
		10 101112	1	24	23230	782.0	22.9
			1	49	23230	782.0	22.7



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					26697	814.7	22.4
			6	0	26865	831.5	22.6
					27033	848.3	22.4
					26697	814.7	22.8
			3	1	26865	831.5	22.8
		4 4 5 4 1 -			27033	848.3	22.3
		1.4 MHz			26697	814.7	23.6
			1	0	26865	831.5	23.4
					27033	848.3	23.4
					26697	814.7	23.5
			1	5	26865	831.5	23.6
					27033	848.3	23.5
					26705	815.5	22.7
		3 MHz	15	0	26865	831.5	22.8
					27025	847.5	22.7
			8		26705	815.5	22.9
				3	26865	831.5	22.7
26	QPSK				27025	847.5	22.3
20	QPSK		1	1 0	26705	815.5	23.5
					26865	831.5	23.8
					27025	847.5	23.4
					26705	815.5	23.8
			1	14	26865	831.5	23.6
					27025	847.5	23.4
					26715	816.5	23.0
			25	0	26865	831.5	22.9
					27015	846.5	22.7
					26715	816.5	22.4
			12	6	26865	831.5	22.9
		5 MHz			27015	846.5	22.4
		3 141112			26715	816.5	23.3
			1	0	26865	831.5	23.5
					27015	846.5	23.6
					26715	816.5	23.4
			1	24	26865	831.5	23.9
					27015	846.5	23.4



Band	Modulation	Bandwidth	RB Size	DD Offcot	Channal	Frequency	Power
Dallu	iviouulation	Danuwiutii	ND SIZE	KB Offset	Chaimei	rrequericy	Power
					26740	819.0	22.4
			50	0	26865	831.5	23.0
					26990	844.0	22.6
					26740	819.0	22.9
			25	12	26865	831.5	22.3
		10 MHz			26990	844.0	22.7
		10 MILE			26740	819.0	23.9
			1	0	26865	831.5	23.4
					26990	844.0	23.3
					26740	819.0	23.7
			1	24	26865	831.5	23.9
26	QPSK -				26990	844.0	23.4
20	QP3N		75	0	24765	821.5	22.6
					26865	831.5	23.0
					26995	841.5	22.8
					24765	821.5	22.5
			36	19	26865	831.5	22.6
		1 F N 411-			26995	841.5	22.9
		15 MHz			24765	821.5	24.0
			1	37	26865	831.5	23.4
					26995	841.5	23.3
					24765	821.5	23.5
			1	74	26865	831.5	23.9
					26995	841.5	23.9



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					26697	814.7	22.0
			6	0	26865	831.5	21.7
					27033	848.3	21.4
					26697	814.7	21.5
			3	1	26865	831.5	21.4
		4 4 5 4 1 -			27033	848.3	21.5
		1.4 MHz			26697	814.7	23.0
			1	0	26865	831.5	22.8
					27033	848.3	22.5
					26697	814.7	22.9
			1	5	26865	831.5	22.5
					27033	848.3	23.0
					26705	815.5	21.8
			15	0	26865	831.5	21.4
		3 MHz			27025	847.5	21.5
					26705	815.5	21.6
			8	3	26865	831.5	21.7
26	160414				27025	847.5	21.3
26	16QAM		1		26705	815.5	22.8
				0	26865	831.5	22.6
					27025	847.5	22.4
					26705	815.5	22.7
			1	14	26865	831.5	22.5
					27025	847.5	22.9
					26715	816.5	21.6
			25	0	26865	831.5	21.9
					27015	846.5	21.3
					26715	816.5	21.4
			12	6	26865	831.5	21.8
		E MILIZ			27015	846.5	21.4
		5 MHz			26715	816.5	23.0
			1	0	26865	831.5	23.0
					27015	846.5	23.0
					26715	816.5	22.4
			1	24	26865	831.5	22.9
					27015	846.5	22.8



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
						1 7	
					26740	819.0	21.5
			50	0	26865	831.5	21.7
					26990	844.0	21.9
					26740	819.0	21.4
			25	12	26865	831.5	21.4
		10 1411-			26990	844.0	21.5
		10 MHz			26740	819.0	22.5
			1	0	26865	831.5	22.4
					26990	844.0	22.9
	16QAM -		1		26740	819.0	22.4
				24	26865	831.5	22.4
26					26990	844.0	22.3
20	IOQAIVI		75	0	24765	821.5	21.9
					26865	831.5	21.7
					26995	841.5	21.3
					24765	821.5	21.7
			36	19	26865	831.5	21.3
		15 MHz			26995	841.5	21.7
		TO IAIUT			24765	821.5	22.5
			1	0	26865	831.5	22.5
					26995	841.5	22.6
					24765	821.5	22.8
			1	74	26865	831.5	22.5
					26995	841.5	22.7



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				0	23017	699.7	22.8
			6		23095	707.5	22.6
					23173	715.3	22.4
					23017	699.7	22.5
			3	1	23095	707.5	22.4
		1 4 8411-			23173	715.3	22.6
		1.4 MHz			23017	699.7	23.4
			1	0	23095	707.5	23.9
					23173	715.3	23.6
					23017	699.7	23.9
			1	5	23095	707.5	23.4
					23173	715.3	23.6
					23025	700.5	22.4
			15	0	23095	707.5	22.9
		3 MHz			23165	714.5	23.0
			8	3	23025	700.5	22.5
					23095	707.5	22.7
12	QPSK				23165	714.5	22.6
12	QPSK		1		23025	700.5	23.7
				0	23095	707.5	23.9
					23165	714.5	24.0
					23025	700.5	23.4
			1	14	23095	707.5	23.3
					23165	714.5	23.8
					23035	701.5	22.9
			25	0	23095	707.5	22.5
					23155	713.5	22.8
					23035	701.5	22.7
			12	6	23095	707.5	22.3
		E N.411-			23155	713.5	22.3
		5 MHz			23035	701.5	23.9
			1	0	23095	707.5	23.4
					23155	713.5	23.6
		_			23035	701.5	23.4
			1	24	23095	707.5	23.5
					23155	713.5	23.9



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					23060	704.0	22.6
			50	0	23095	707.5	22.4
				, and the second	23130	711.0	22.7
					23060	704.0	22.9
			25	12	23095	707.5	22.9
					23130	711.0	22.5
	QPSK	10 MHz			23060	704.0	23.6
			1	12	23095	707.5	24.0
					23130	711.0	23.8
					23060	704.0	23.8
			1	24	23095	707.5	23.8
					23130	711.0	23.9
					23017	699.7	21.9
			6	0	23095	707.5	21.9
				-	23173	715.3	21.8
			3		23017	699.7	21.6
				1	23017	707.5	21.5
					23173	715.3	21.5
12		1.4 MHz	1		23017	699.7	22.5
				0	23095	707.5	22.9
					23173	715.3	22.7
				5	23017	699.7	22.8
			1		23095	707.5	22.9
					23173	715.3	22.3
	16QAM				23025	700.5	21.9
			15	0	23095	707.5	21.8
					23165	714.5	21.8
					23025	700.5	21.6
			8	3	23095	707.5	21.4
					23165	714.5	21.3
		3 MHz			23025	700.5	23.0
			1	0	23095	707.5	22.5
			1	U	23165	714.5	22.3
			1		23025	700.5	22.7
				14	23095	707.5	22.6
			_		23165	714.5	22.7



						_	
Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					23035	701.5	21.3
			25	0	23095	707.5	21.5
					23155	713.5	21.6
					23035	701.5	21.8
			12	6	23095	707.5	21.9
		5 MHz			23155	713.5	21.5
		3 101112			23035	701.5	22.6
			1	0	23095	707.5	22.3
					23155	713.5	23.0
	160414		1		23035	701.5	22.6
				24	23095	707.5	22.5
4.2					23155	713.5	22.5
12	16QAM		50		23060	704.0	21.5
				0	23095	707.5	21.7
					23130	711.0	22.0
					23060	704.0	21.4
			25	12	23095	707.5	21.8
		10 MHz			23130	711.0	21.6
		TO IVITZ			23060	704.0	22.5
			1	0	23095	707.5	22.4
					23130	711.0	22.8
					23060	704.0	22.4
			1	24	23095	707.5	22.8
					23130	711.0	22.7



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20775	2502.5	21.5
			25	0	21100	2535.0	21.5
					21425	2567.5	21.6
					20775	2502.5	21.9
		5 MHz	12	6	21100	2535.0	21.8
7	ODCK				21425	2567.5	21.6
′	QPSK			0	20775	2502.5	22.3
			1		21100	2535.0	22.7
					21425	2567.5	22.6
					20775	2502.5	22.4
			1	24	21100	2535.0	22.3
					21425	2567.5	22.4



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20800	2505.0	21.8
			50	0	21100	2535.0	21.8
					21400	2565.0	21.8
					20800	2505.0	21.6
			25	12	21100	2535.0	21.4
		40.8411			21400	2565.0	21.8
		10 MHz			20800	2505.0	22.6
			1	0	21100	2535.0	22.8
					21400	2565.0	22.3
					20800	2505.0	22.7
			1	24	21100	2535.0	22.3
					21400	2565.0	22.5
					20825	2507.5	21.3
			75	0	21100	2535.0	21.8
		15 MHz			21375	2562.5	21.5
			36	19	20825	2507.5	21.8
					21100	2535.0	22.0
7	QPSK				21375	2562.5	21.4
/	QP3K		1			20825	2507.5
				0	21100	2535.0	22.6
					21375	2562.5	22.4
					20825	2507.5	22.8
			1	74	21100	2535.0	22.4
					21375	2562.5	22.3
					20850	2510.0	21.7
			100	0	21100	2535.0	21.6
					21350	2560.0	21.6
					20850	2510.0	21.9
			50	25	21100	2535.0	21.9
		20 MHz			21350	2560.0	22.0
		20 101112			20850	2510.0	22.8
			1	0	21100	2535.0	22.5
					21350	2560.0	22.8
					20850	2510.0	23.0
			1	99	21100	2535.0	22.4
					21350	2560.0	22.5



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20775	2502.5	20.5
			25	0	21100	2535.0	20.6
					21425	2567.5	20.7
	160414				20775 21100	2502.5	20.7
		5 MHz	12	6		2535.0	20.4
7					21425	2567.5	20.4
/	16QAM			0	20775	2502.5	21.8
					21100	2535.0	21.4
					21425	2567.5	22.0
					20775	2502.5	21.4
			1	24	21100	2535.0	21.6
					21425	2567.5	21.5



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20800	2505.0	20.9
			50	0	21100	2535.0	20.7
					21400	2565.0	20.3
					20800	2505.0	20.7
			25	12	21100	2535.0	20.6
		40 8411-			21400	2565.0	20.7
		10 MHz			20800	2505.0	21.5
			1	0	21100	2535.0	22.0
					21400	2565.0	21.3
					20800	2505.0	21.6
			1	24	21100	2535.0	21.4
					21400	2565.0	21.6
					20825	2507.5	20.4
			75	0	21100	2535.0	20.5
		6QAM 15 MHz			21375	2562.5	20.7
			36		20825	2507.5	21.0
				19	21100	2535.0	20.4
7	160AM				21375	2562.5	21.0
/	IOQAIVI		1		20825	2507.5	21.7
				0	21100	2535.0	21.6
					21375	2562.5	21.8
					20825	2507.5	21.9
			1	74	21100	2535.0	21.8
					21375	2562.5	21.9
					20850	2510.0	20.6
			100	0	21100	2535.0	20.7
					21350	2560.0	20.8
					20850	2510.0	20.7
			50	25	21100	2535.0	20.8
		20 1447			21350	2560.0	20.4
		20 MHz			20850	2510.0	22.0
			1	0	21100	2535.0	21.8
					21350	2560.0	21.7
					20850	2510.0	21.5
			1	99	21100	2535.0	21.8
					21350	2560.0	21.8



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					39675	2498.5	21.4
			25	0	40620	2593.0	21.7
					41565	2687.5	21.6
	OBCK				39675	2498.5	21.9
		5 MHz	12	6	40620	2593.0	21.8
41					41565	2687.5	22.0
41	QPSK			0	39675	2498.5	23.0
			1		40620	2593.0	22.5
					41565	2687.5	22.4
					39675	2498.5	23.0
			1	24	40620	2593.0	22.5
					41565	2687.5	22.3



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					39700	2501.0	21.9
			50	0	40620	2593.0	21.5
					41540	2685.0	21.6
					39700	2501.0	21.5
			25	12	40620	2593.0	21.8
					41540	2685.0	21.9
		10 MHz			39700	2501.0	22.9
			1	0	40620	2593.0	22.8
					41540	2685.0	22.5
					39700	2501.0	22.7
			1	24	40620	2593.0	22.9
					41540	2685.0	22.6
					39725	2503.5	21.8
			75	0	40620	2593.0	21.6
		15 MHz			41515	2682.5	21.6
			36	19	39725	2503.5	21.9
					40620	2593.0	21.3
41	ODCK				41515	2682.5	21.8
41	QPSK		1		39725	2503.5	22.9
				0	40620	2593.0	22.8
					41515	2682.5	22.5
					39725	2503.5	22.7
			1	74	40620	2593.0	22.7
					41515	2682.5	22.5
					39750	2506.0	21.6
			100	0	40620	2593.0	21.3
					41490	2680.0	22.0
					39750	2506.0	21.8
			50	25	40620	2593.0	21.4
		20 8411-			41490	2680.0	21.7
		20 MHz			39750	2506.0	22.6
			1	0	40620	2593.0	22.6
					41490	2680.0	23.0
			1		39750	2506.0	22.7
				99	40620	2593.0	22.8
					41490	2680.0	22.3



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					39675	2498.5	20.5
			25	0	40620	2593.0	20.7
					41565	2687.5	21.0
					39675	2498.5	20.7
	160414	5 MHz	12	6	40620	2593.0	20.8
41					41565	2687.5	20.4
41	16QAM			0	39675	2498.5	21.7
					40620	2593.0	21.9
					41565	2687.5	21.7
					39675	2498.5	21.7
			1	24	40620	2593.0	21.4
					41565	2687.5	21.4



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					39700	2501.0	20.3
			50	0	40620	2593.0	20.3
					41540	2685.0	20.4
					39700	2501.0	20.5
			25	12	40620	2593.0	21.0
		40.8411			41540	2685.0	20.6
		10 MHz			39700	2501.0	21.4
			1	0	40620	2593.0	21.4
					41540	2685.0	21.9
					39700	2501.0	21.3
			1	24	40620	2593.0	21.8
					41540	2685.0	21.5
					39725	2503.5	20.4
			75	0	40620	2593.0	20.8
					41515	2682.5	20.4
					39725	2503.5	20.8
			36	19	40620	2593.0	20.9
41	16QAM	15 MHz			41515	2682.5	20.3
41	IOQAIVI	15 MHz			39725	2503.5	21.8
			1	0	40620	2593.0	21.4
					41515	2682.5	21.4
					39725	2503.5	21.7
			1	74	40620	2593.0	21.5
					41515	2682.5	21.9
					39750	2506.0	20.9
			100	0	40620	2593.0	20.8
					41490	2680.0	20.9
					39750	2506.0	20.9
			50	25	40620	2593.0	20.5
		20 1447			41490	2680.0	20.3
		20 MHz			39750	2506.0	21.4
			1	0	40620	2593.0	21.4
					41490	2680.0	21.5
		_			39750	2506.0	21.8
			1	99	40620	2593.0	21.8
					41490	2680.0	21.4



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					26065	1852.5	22.8
			25	0	26365	1882.5	22.7
					26665	1912.5	22.8
					26065	1852.5	22.6
			12	6	26365	1882.5	22.6
66	QPSK	5 MHz			26665	1907.5	22.8
00	QP3N	2 IVITZ		0	26065	1852.5	23.9
					26365	1882.5	23.4
					26665	1907.5	24.0
					26065	1852.5	23.5
			1	24	26365	1882.5	23.9
					26665	1907.5	23.4



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					26090	1855.0	22.5
			50	0	26365	1882.5	22.4
					26640	1910.0	22.7
					26090	1855.0	22.8
			25	12	26365	1882.5	22.8
		40 8411-			26640	1910.0	22.7
		10 MHz			26090	1855.0	23.5
			1	0	26365	1882.5	23.6
					26640	1910.0	23.5
					26090	1855.0	23.6
			1	24	26365	1882.5	23.7
					26640	1910.0	23.8
					26115	1857.5	22.3
			75	0	26365	1882.5	22.4
		15 MHz			26615	1907.5	22.6
			36		26115	1857.5	22.5
				19	26365	1882.5	23.0
66	QPSK				26615	1907.5	22.8
00	QP3K		1		26115	1857.5	24.0
				0	26365	1882.5	23.9
					26615	1907.5	24.0
					26115	1857.5	23.7
			1	74	26365	1882.5	23.7
					26615	1907.5	23.4
					26140	1860.0	22.4
			100	0	26365	1882.5	22.7
					26590	1905.0	22.4
					26140	1860.0	22.5
			50	25	26365	1882.5	22.8
		20 MHz			26590	1905.0	22.3
		ΖΟ ΙΝΙΠΖ			26140	1860.0	23.4
			1	0	26365	1882.5	23.4
					26590	1905.0	23.7
					26140	1860.0	23.4
			1	99	26365	1882.5	23.3
					26590	1905.0	23.5



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					26065	1852.5	21.3
			25	0	26365	1882.5	21.9
					26665	1912.5	21.6
					26065	1852.5	22.0
		5 MHz	12	6	26365	1882.5	21.5
66	16QAM				26665	1907.5	21.6
00	IOQAIVI			0	26065	1852.5	22.6
			1		26365	1882.5	22.5
					26665	1907.5	22.8
					26065	1852.5	22.7
			1	24	26365	1882.5	22.4
					26665	1907.5	23.0



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
				0	26090	1855.0	21.7
			50		26365	1882.5	21.8
					26640	1910.0	21.3
					26090	1855.0	21.7
			25	12	26365	1882.5	22.0
		40.8411			26640	1910.0	21.6
		10 MHz			26090	1855.0	22.8
			1	0	26365	1882.5	22.5
					26640	1910.0	22.5
					26090	1855.0	22.9
			1	24	26365	1882.5	22.3
					26640	1910.0	22.7
					26115	1857.5	21.7
			75	0	26365	1882.5	21.6
					26615	1907.5	21.9
			36		26115	1857.5	21.8
		15 MHz		19	26365	1882.5	21.6
66	160414				26615	1907.5	21.6
00	16QAM		1	1 0	26115	1857.5	22.8
					26365	1882.5	22.8
					26615	1907.5	22.6
					26115	1857.5	22.3
			1	74	26365	1882.5	22.6
					26615	1907.5	22.7
					26140	1860.0	21.8
			100	0	26365	1882.5	21.5
					26590	1905.0	21.6
					26140	1860.0	21.4
			50	25	26365	1882.5	21.4
		20 1447			26590	1905.0	21.5
		20 MHz			26140	1860.0	22.4
			1	0	26365	1882.5	22.8
					26590	1905.0	22.5
					26140	1860.0	22.9
			1	99	26365	1882.5	22.6
					26590	1905.0	22.3



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					19957	1710.7	22.6
			6	0	20175	1732.5	22.5
					20393	1754.3	22.7
					19957	1710.7	22.6
			3	1	20175	1732.5	22.7
		4 4 5 4 1 -			20393	1754.3	22.9
		1.4 MHz			19957	1710.7	23.9
			1	0	20175	1732.5	23.8
					20393	1754.3	23.4
					19957	1710.7	23.9
			1	5	20175	1732.5	23.5
					20393	1754.3	23.9
					19965	1711.5	22.9
			15	0	20175	1732.5	22.9
		3 MHz			20385	1753.5	22.6
					19965	1711.5	22.5
			8	3	20175	1732.5	22.5
2	QPSK				20385	1753.5	22.7
2	QP3K		1	1 0	19965	1711.5	23.5
					20175	1732.5	23.9
					20385	1753.5	23.6
					19965	1711.5	23.9
			1	14	20175	1732.5	23.4
					20385	1753.5	23.8
					19975	1712.5	22.3
			25	0	20175	1732.5	22.6
					20375	1752.5	22.8
					19975	1712.5	22.8
			12	6	20175	1732.5	22.8
		5 MHz			20375	1752.5	22.8
		3 141117			19975	1712.5	23.4
			1	0	20175	1732.5	23.9
					20375	1752.5	23.4
					19975	1712.5	23.5
			1	24	20175	1732.5	23.6
					20375	1752.5	24.0



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20000	1715	22.7
			50	0	20175	1732.5	22.9
					20350	1750	23.0
					20000	1715	22.5
			25	12	20175	1732.5	22.7
		10 1411-			20350	1750	22.6
		10 MHz			20000	1715	24.0
			1	0	20175	1732.5	23.8
					20350	1750	23.6
					20000	1715	23.9
			1	24	20175	1732.5	23.8
				2-7	20350	1750	23.4
					20025	1717.5	22.7
			75	0	20175	1732.5	22.5
					20325	1747.5	22.7
					20025	1717.5	22.6
			36	19	20175	1732.5	22.7
2	ODCK	15 MHz			20325	1747.5	22.3
	QPSK		1	0	20025	1717.5	23.5
					20175	1732.5	23.8
					20325	1747.5	23.9
					20025	1717.5	23.5
			1	74	20175	1732.5	23.9
					20325	1747.5	23.9
					20050	1720	22.7
			100	0	20175	1732.5	23.0
					20300	1745	22.6
					20050	1720	22.4
			50	25	20175	1732.5	22.9
		20 MHz			20300	1745	22.9
		ZU IVITIZ			20050	1720	23.4
			1	0	20175	1732.5	23.4
					20300	1745	23.4
					20050	1720	23.6
			1	49	20175	1732.5	24.0
					20300	1745	23.5



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					19957	1710.7	21.4
			6	0	20175	1732.5	21.4
					20393	1754.3	21.6
					19957	1710.7	21.5
			3	1	20175	1732.5	21.6
				_	20393	1754.3	21.8
		1.4 MHz			19957	1710.7	22.7
			1	0	20175	1732.5	22.6
					20393	1754.3	22.6
					19957	1710.7	22.7
			1	5	20175	1732.5	22.7
					20393	1754.3	22.4
		M 3 MHz			19965	1711.5	21.4
			15	0	20175	1732.5	21.4
			13	-	20385	1753.5	21.8
			8		19965	1711.5	21.9
				3	20175	1732.5	21.9
					20385	1753.5	21.7
2	16QAM		1		19965	1711.5	22.5
				0	20175	1732.5	22.7
					20385	1753.5	22.3
					19965	1711.5	22.6
			1	14	20175	1732.5	22.8
					20385	1753.5	22.5
					19975	1712.5	21.4
			25	0	20175	1732.5	21.5
					20375	1752.5	21.5
					19975	1712.5	22.0
			12	6	20175	1732.5	21.7
		5.444			20375	1752.5	21.7
		5 MHz			19975	1712.5	22.8
			1	0	20175	1732.5	22.9
					20375	1752.5	22.4
					19975	1712.5	22.8
			1	24	20175	1732.5	22.6
					20375	1752.5	22.9



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					20000	1715	21.6
			50	0	20175	1732.5	21.3
					20350	1750	21.4
					20000	1715	21.7
			25	12	20175	1732.5	21.7
		10 MHz			20350	1750	21.5
		10 MHz			20000	1715	22.7
			1	0	20175	1732.5	22.3
					20350	1750	22.5
					20000	1715	22.7
			1	24	20175	1732.5	22.9
					20350	1750	22.9
		16QAM 15 MHz			20025	1717.5	21.6
			75	0	20175	1732.5	21.6
					20325	1747.5	21.5
			36		20025	1717.5	22.0
				19	20175	1732.5	21.5
2	160414				20325	1747.5	21.4
2	TOQAM		1	0	20025	1717.5	22.5
					20175	1732.5	22.3
					20325	1747.5	22.3
					20025	1717.5	23.0
			1	74	20175	1732.5	22.8
					20325	1747.5	22.6
					20050	1720	21.8
			100	0	20175	1732.5	21.8
					20300	1745	21.6
					20050	1720	21.7
			50	25	20175	1732.5	21.6
		20 MHz			20300	1745	21.4
		ZUIVITZ			20050	1720	22.5
			1	0	20175	1732.5	22.6
					20300	1745	22.7
					20050	1720	22.9
			1	99	20175	1732.5	22.4
					20300	1745	22.7



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					55265	3552.5	21.6
			25	0	55990	3526.0	21.6
					56715	3697.5	21.6
		5 MHz			55265	3552.5	21.6
			12		55990	3526.0	21.7
48	QPSK				56715	3697.5	21.4
40	QP3K				55265	3552.5	22.3
					55990	3526.0	22.6
					56715	3697.5	22.8
					55265	3552.5	23.0
			1	24	55990	3526.0	22.4
					56715	3697.5	22.7



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					55290	3555.0	21.9
			50	0	55990	3526.0	21.4
					56690	3695.0	21.6
					55290	3555.0	21.5
			25	12	55990	3526.0	21.6
				12	56690	3695.0	21.6
		10 MHz			55290	3555.0	22.7
			1	0	55990	3526.0	22.6
					56690	3695.0	22.9
					55290	3555.0	22.7
			1	24	55990	3526.0	22.4
				24	56690	3695.0	22.4
		QPSK 15 MHz			55315	3557.5	21.8
			75	0	55990	3626.0	21.9
					56665	3692.5	21.5
			36	19	55315	3557.5	21.9
					55990	3626.0	21.5
40	ODCK				56665	3692.5	21.3
48	QPSK		1		55315	3557.5	23.0
				0	55990	3626.0	22.8
					56665	3692.5	22.5
					55315	3557.5	22.6
			1	74	55990	3626.0	22.7
					56665	3692.5	22.8
					55340	3560.0	21.6
			100	0	55990	3526.0	21.8
					56640	3690.0	21.9
					55340	3560.0	21.3
			50	25	55990	3526.0	21.8
		20 MHz			56640	3690.0	21.4
		ΖΟ ΙΝΙΠΖ			55340	3560.0	22.7
			1	0	55990	3526.0	22.4
					56640	3690.0	22.7
			1		55340	3560.0	22.3
				49	55990	3526.0	22.5
					56640	3690.0	22.6



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					55265	3552.5	20.4
			25	0	55990	3526.0	20.9
					56715	3697.5	20.5
		5 MHz			55265	3552.5	20.5
			12	0	55990	3526.0	20.7
48	16QAM				56715	3697.5	20.3
40	IOQAIVI				55265	3552.5	21.5
			1		55990	3526.0	21.3
					56715	3697.5	21.4
					55265	3552.5	21.5
			1	24	55990	3526.0	21.6
					56715	3697.5	21.9



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
					55290	3555.0	21.0
			50	0	55990	3526.0	20.4
					56690	3695.0	20.4
					55290	3555.0	20.5
			25	12	55990	3526.0	20.5
					56690	3695.0	20.8
		10 MHz			55290	3555.0	21.5
			1	0	55990	3526.0	21.3
					56690	3695.0	21.3
					55290	3555.0	21.6
			1	24	55990	3526.0	21.8
				24	56690	3695.0	21.8
		15 MHz			55315	3557.5	20.6
			75	0	55990	3626.0	20.4
					56665	3692.5	20.5
			36	19	55315	3557.5	20.7
					55990	3626.0	20.5
48	160414				56665	3692.5	20.9
40	16QAM		1		55315	3557.5	21.4
				0	55990	3626.0	21.8
					56665	3692.5	21.3
					55315	3557.5	21.4
			1	74	55990	3626.0	21.6
					56665	3692.5	21.4
					55340	3560.0	20.9
			100	0	55990	3526.0	20.7
					56640	3690.0	20.8
					55340	3560.0	20.7
			50	25	55990	3526.0	20.5
		20 MHz			56640	3690.0	20.6
		20 101112			55340	3560.0	21.5
			1	0	55990	3526.0	21.4
					56640	3690.0	21.7
					55340	3560.0	21.9
			1	99	55990	3526.0	21.6
					56640	3690.0	21.7



Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
Dana	····oudiation	Danathati	110 0120	no onser	• • • • • • • • • • • • • • • • • • •	requency	. 01101
					23305	790.5	22.8
			25	0	23330	793.0	23.0
					23355	795.5	22.4
					23305	790.5	22.6
			12	6	23330	793.0	22.5
		5.8411			23355	795.5	22.7
		5 MHz			23305	790.5	23.7
	QPSK		1	0	23330	793.0	23.7
	QPSK				23355	795.5	23.9
					23305	790.5	23.9
			1	24	23330	793.0	24.0
					23355	795.5	23.4
		10 MHz	50	0	23330	793.0	22.5
			25	13	23330	793.0	22.6
			1	24	23330	793.0	23.3
14			1	49	23330	793.0	23.4
14					23305	790.5	21.4
			25	0	23330	793.0	21.8
					23355	795.5	21.4
					23305	790.5	21.7
			12	6	23330	793.0	22.0
		5 MHz			23355	795.5	21.8
		3 101112			23305	790.5	22.3
	16QAM		1	0	23330	793.0	22.9
	IOQAM				23355	795.5	23.0
					23305	790.5	22.8
			1	24	23330	793.0	23.0
					23355	795.5	22.8
			50	0	23330	793.0	21.9
		10 MHz	25	13	23330	793.0	21.4
		TO IVIUS	1	24	23330	793.0	22.6
			1	49	23330	793.0	22.9



Table 11.1 Test Reduction Table – LTE EM7565

5 "		III.I IESUN	Jaaotion		L LIVI7 303		
Band/	Side/	Required	Bandwidth	Modulation	RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel	Danawiatii	Modulation	Allocation	Offset	Reduced
		18700					Reduced ⁶
		18900			50	0	Tested
		19100					Reduced ⁶
		18700					Reduced ¹
		18900	1		100	0	Reduced ¹
		19100		0.0017			Reduced ¹
		18700		QPSK			Reduced ²
		18900				49	Tested
		19100	1				Reduced ²
		18700	1		1		Reduced ²
		18900				99	Reduced ²
		19100				00	Reduced ²
	Top, Bottom,	18700	20 MHz				Reduced ³
	Left, Right/All	18900	1		50	25	Reduced ³
		19100	1		30	20	Reduced ³
		18700					Reduced ¹
		18900			100	0	Reduced ¹
		19100			100	U	Reduced ¹
		18700	-	16QAM			Reduced ⁴
		18900				49	Reduced ⁴
		19100	-		1	49	Reduced ⁴
		18700				99	Reduced ⁴
			-				Reduced ⁴
		18900				99	
David O		19100	la a a alverialtha (4 F N	ALI- 40 MII- E MI	I- 0 MI I- 4 4 MI I	_\	Reduced ⁴ Reduced ⁵
Band 2 1850-1910 MHz			Dandwidins (15 N	MHz, 10 MHz, 5 MH	Hz, 5 MHz, 3 MHz, 1.4 MHz	۷)	Reduced ⁶
1650-1910 MHZ		18700				25	
		18900					Tested
		19100					Reduced ⁶
		18700				0	Reduced ¹
		18900			100	0	Reduced ¹
		19100		QPSK			Reduced ¹
		18700					Reduced ²
		18900				49	Tested
		19100			1		Reduced ²
		18700			·		Reduced ²
	Front,	18900				99	Reduced ²
	Back/T1,T3,	19100	20 MHz				Reduced ²
	T4,B1,B2,B3,	18700	20 1111 12				Reduced ³
	B4	18900			50	25	Reduced ³
	5.	19100					Reduced ³
		18700					Reduced ¹
		18900			100	0	Reduced ¹
		19100		16QAM			Reduced ¹
		18700]	IOQAW	_		Reduced ⁴
		18900				49	Reduced ⁴
		19100]				Reduced ⁴
		18700	1		1		Reduced ⁴
	<u> </u>	18900	1			99	Reduced ⁴
		19100	1				Reduced ⁴
1				MHz, 10 MHz, 5 MH			Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		18700					Tested
		18900			50	0	Tested
		19100					Tested
		18700					Reduced ¹
		18900		QPSK -	100	0	Tested
		19100					Reduced ¹
		18700		QFSN			Tested
		18900				49	Tested
		19100			1		Tested
	-	18700					Reduced ²
		18900				99	Reduced ²
Band 2	Front, Back/	19100	20 MHz				Reduced ²
1850-1910 MHz	T2	18700	20 1011 12		50		Reduced ³
1000 1010 WH IZ	12	18900				25	Reduced ³
		19100					Reduced ³
		18700					Reduced ¹
		18900			100	0	Reduced ¹
		19100		16QAM			Reduced ¹
		18700		TOQAW			Reduced⁴
		18900				49	Reduced⁴
		19100			1		Reduced ⁴
		18700			'		Reduced ⁴
		18900				99	Reduced ⁴
		19100					Reduced ⁴
		All lower	handwidths (15 N	1Hz 10 MHz 5 MH	lz 3 MHz 1 4 MH	7)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required			RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
Frequency (MHZ)	Antenna	132072			Allocation	Oliset	Reduced ⁶
					50	0	
		132322			50	0	Tested
		132572					Reduced ⁶
		132072	-		400	0	Reduced ¹
		132322	-		100	0	Reduced ¹
		132572	-	QPSK			Reduced ¹ Reduced ²
		132072	-			49	
		132322				49	Tested
		132572			1		Reduced ²
		132072				00	Reduced ²
		132322				99	Reduced ²
	Top, Bottom,	132572	20 MHz				Reduced ²
	Left, Right/All	132072	-		50	0.5	Reduced ³
		132322			50	25	Reduced ³
		132572					Reduced ³ Reduced ¹
		132072			100	0	Reduced ¹
		132322			100	U	
		132572	-	16QAM			Reduced ¹ Reduced ⁴
		132072	-			49	
		132322 132572	-		1	49	Reduced ⁴ Reduced ⁴
		132072					Reduced ⁴
						99	Reduced ⁴
		132322 132572				99	Reduced ⁴
Dand 66			Reduced ⁵				
Band 66 1710-1780 MHz		132072	pandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)	/IHZ, TU MHZ, 5 MF	HZ, 10 MHZ, 5 MHZ, 3 MHZ, 1.4 MHZ	۷)	Reduced ⁶
17 10-17 80 WII 12		132322	-		50	25	Tested
		132572	-				Reduced ⁶
		132072	-				Reduced ¹
		132322	-		100	0	Reduced ¹
		132572	-		100	U	Reduced ¹
		132072	-	QPSK			Reduced ²
		132322	-			49	Tested
		132572	-			49	Reduced ²
		132072			1		Reduced ²
		132322				99	Reduced ²
	Front,	132572	-			99	Reduced ²
	Back/T1,T3,	132072	20 MHz				Reduced ³
	T4,B1,B2,B3,	132322	-		50	25	Reduced ³
	B4	132572	-		30	25	Reduced ³
		132072	-				Reduced ¹
		132322	-		100	0	Reduced ¹
		132572	1		100	U	Reduced ¹
		132572	1	16QAM			Reduced ⁴
			-			40	Reduced ⁴
		132322				49	
		132572			1		Reduced ⁴
		132072 132322				00	Reduced ⁴ Reduced ⁴
						99	
		132572	handwidtha (15 N			- /	Reduced ⁴ Reduced ⁵
Deduced Kills	0.4.D	e 50% RB testing is I					

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		132072					Tested
		132322			50	0	Tested
		132572					Tested
		132072					Reduced ¹
		132322		QPSK -	100	0	Tested
		132572					Reduced ¹
		132072		QFSN			Tested
		132322				49	Tested
		132572			1		Tested
		132072					Reduced ²
		132322				99	Reduced ²
Band 66	Front Book/	132572	20 MHz				Reduced ²
1710-1780 MHz	Front, Back/ T2	132072	20 1011 12		50		Reduced ³
17 10-17 80 IVII 12	12	132322				25	Reduced ³
		132572					Reduced ³
		132072					Reduced ¹
		132322			100	0	Reduced ¹
		132572		16QAM			Reduced ¹
		132072		IOQAIVI			Reduced⁴
		132322				49	Reduced⁴
		132572			1		Reduced⁴
		132072			1		Reduced⁴
		132322				99	Reduced⁴
		132572					Reduced ⁴
	1	All lower	bandwidths (15 N	MHz. 10 MHz. 5 MH	Iz. 3 MHz. 1.4 MH	z)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required			RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
requeries (mile)	Antonia	24765			Allocation	011300	Reduced ⁶
		26865			36	0	Tested
		26995			30	0	Reduced ⁶
		24765					Reduced ¹
		26865			75	19	Reduced ¹
		26995			70	10	Reduced ¹
		24765		QPSK			Reduced ²
		26865				37	Tested
		26995				0.	Reduced ²
		24765			1		Reduced ²
		26865				74	Reduced ²
		26995					Reduced ²
	Top, Bottom,	24765	15 MHz				Reduced ³
	Left, Right/All	26865			36	0	Reduced ³
		26995				Ü	Reduced ³
		24765					Reduced ¹
		26865			75	19	Reduced ¹
		26995			. •	.0	Reduced ¹
		24765		16QAM			Reduced ⁴
		26865			1	37	Reduced ⁴
		26995				0.	Reduced ⁴
		24765	-				Reduced ⁴
		26865				74	Reduced ⁴
		26995					Reduced ⁴
Band 26			Reduced ⁵				
814-849 MHz		24765		(10 MHz, 5 MHz, 3	36	0	Reduced ⁶
		26865					Tested
		26995					Reduced ⁶
		24765			75		Reduced ¹
		26865				19	Reduced ¹
		26995		ODOK			Reduced ¹
		24765		QPSK			Reduced ²
		26865				37	Tested
		26995			4		Reduced ²
		24765			1		Reduced ²
	- .	26865				74	Reduced ²
	Front,	26995	15 MHz				Reduced ²
	Back/T1,T3,	24765	15 IVIDZ				Reduced ³
	T4,B1,B2,B3, B4	26865			36	0	Reduced ³
	D4	26995					Reduced ³
		24765					Reduced ¹
		26865			75	19	Reduced ¹
		26995		16QAM			Reduced ¹
		24765		IOQAW			Reduced ⁴
		26865				37	Reduced ⁴
		26995			4		Reduced ⁴
		24765			1		Reduced ⁴
		26865				74	Reduced ⁴
		26995					Reduced ⁴
			ower bandwidths	(10 MHz, 5 MHz, 3		or I/DD044006	Reduced⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required	Bandwidth	Modulation	RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel			Allocation	Offset	Reduced
		24765					Reduced ⁶
		26865			36	0	Tested
		26995					Reduced ⁶
		24765	4	QPSK			Reduced ¹
		26865			75	19	Reduced ¹
		26995					Reduced ¹
		24765		QI OIL	1		Reduced ²
		26865				37	Tested
		26995	15 MHz				Reduced ²
		24765					Reduced ²
		26865				74	Reduced ²
Band 26	Front Book/	26995					Reduced ²
814-849 MHz	Front, Back/ T2	24765					Reduced ³
014-049 WII IZ	12	26865			36	0	Reduced ³
		26995					Reduced ³
		24765					Reduced ¹
		26865			75	19	Reduced ¹
		26995		40001			Reduced ¹
		24765		16QAM			Reduced⁴
		26865				37	Reduced ⁴
		26995	1				Reduced ⁴
		24765	1		1		Reduced ⁴
		26865	1			74	Reduced ⁴
		26995	1			'-	Reduced ⁴
		All I	ower bandwidths	(10 MHz, 5 MHz, 3	MHz, 1.4 MHz)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required			RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
Trequency (MITE)	Antenna	132072			Allocation	Oliset	Reduced ⁶
		132322			50	0	Tested
		132572			30	O	Reduced ⁶
		132072					Reduced ¹
		132322			100	0	Reduced ¹
		132572			100	O	Reduced ¹
		132072		QPSK			Reduced ²
		132322				49	Tested
		132572				10	Reduced ²
		132072			1		Reduced ²
		132322				99	Reduced ²
		132572					Reduced ²
	Top, Bottom,	132072	20 MHz				Reduced ³
	Left, Right/All	132322			50	25	Reduced ³
		132572					Reduced ³
		132072					Reduced ¹
		132322			100	0	Reduced ¹
		132572			.00	· ·	Reduced ¹
		132072		16QAM			Reduced ⁴
	-	132322				49	Reduced ⁴
		132572					Reduced ⁴
		132072			1		Reduced ⁴
		132322				99	Reduced ⁴
		132572					Reduced⁴
Band 7		All lower	bandwidths (15 N	Hz, 10 MHz, 5 MH	lz, 3 MHz, 1.4 MH	z)	Reduced ⁵
2500-2570 MHz		132072	Januwidins (13 N	QPSK	50	25	Reduced ⁶
		132322					Tested
		132572					Reduced ⁶
		132072			100		Reduced ¹
		132322				0	Reduced ¹
		132572					Reduced ¹
		132072		QFSN			Reduced ²
		132322				49	Tested
		132572			1		Reduced ²
		132072			1		Reduced ²
		132322				99	Reduced ²
	Front,	132572	20 MHz				Reduced ²
	Back/T1,T4,	132072	20 IVII 12				Reduced ³
	B1,B4	132322			50	25	Reduced ³
		132572					Reduced ³
		132072					Reduced ¹
		132322			100	0	Reduced ¹
		132572		16QAM			Reduced ¹
		132072		IUQAW			Reduced ⁴
		132322				49	Reduced ⁴
		132572			1		Reduced ⁴
		132072			'		Reduced ⁴
		132322				99	Reduced ⁴
		132572					Reduced ⁴
	CAD value in th			⁄lHz, 10 MHz, 5 MH		z) or KDD044004	Reduced⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		132072					Tested
		132322			50	0	Tested
		132572		QPSK -			Tested
		132072					Reduced ¹
		132322			100	0	Tested
		132572					Reduced ¹
		132072					Tested
		132322	20 MHz			49	Tested
		132572			1		Tested
		132072			'	99	Reduced ²
	Front, Back/	132322					Reduced ²
Band 7		132572					Reduced ²
2500-2570 MHz	T2, T3, B2,	132072			50	25	Reduced ³
2300 2370 WII IZ	B3	132322					Reduced ³
		132572					Reduced ³
		132072					Reduced ¹
		132322			100	0	Reduced ¹
		132572		16QAM			Reduced ¹
		132072		TOQAW			Reduced ⁴
		132322				49	Reduced ⁴
		132572			1		Reduced ⁴
		132072			1		Reduced ⁴
		132322				99	Reduced ⁴
		132572					Reduced ⁴
	1	I All lower	handwidths (15 N	/Hz 10 MHz 5 ME	lz 3 MHz 1 4 MH	7)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required	Dan destable	NA a alcelation	RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
, , ,		39750					Reduced ⁶
		40620			50	0	Tested
		41490					Reduced ⁶
		39750					Reduced ¹
		40620			100	0	Reduced ¹
		41490		QPSK			Reduced ¹
		39750		QI SIX			Reduced ²
		40620				49	Tested
		41490			1		Reduced ²
		39750			-		Reduced ²
		40620				99	Reduced ²
	Top, Bottom,	41490	20 MHz				Reduced ²
	Left, Right/All	39750			50	05	Reduced ³
		40620 41490			50	25	Reduced ³ Reduced ³
		39750					Reduced ¹
		40620			100	0	Reduced ¹
		41490			100	U	Reduced ¹
		39750		16QAM			Reduced ⁴
		40620			4	49	Reduced ⁴
		41490				10	Reduced ⁴
		39750			1		Reduced ⁴
		40620				99	Reduced ⁴
		41490					Reduced ⁴
Band 41		All lower	bandwidths (15 N	MHz, 10 MHz, 5 MH	z, 3 MHz, 1.4 MH	z)	Reduced⁵
2496-2690 MHz		39750	,			,	Reduced ⁶
		40620			50	0	Tested
		41490					Reduced ⁶
		39750			100		Reduced ¹
		40620				0	Reduced ¹
		41490		QPSK			Reduced ¹
		39750		QI OIL			Reduced ²
		40620				49	Tested
		41490			1		Reduced ²
		39750				20	Reduced ²
	Front,	40620				99	Reduced ²
	Back/T1,T3,	41490	20 MHz				Reduced ²
	T4,B1,B2,B3,	39750			50	25	Reduced ³ Reduced ³
	B4	40620 41490			50	25	Reduced ³
		39750					Reduced ¹
		40620			100	0	Reduced ¹
		41490			100	U	Reduced ¹
		39750		16QAM			Reduced ⁴
		40620				49	Reduced ⁴
		41490				73	Reduced ⁴
		39750			1		Reduced ⁴
		40620				99	Reduced ⁴
	-	41490				55	Reduced ⁴
	1		handwidtha (15 N	MHz, 10 MHz, 5 MH		- /	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		39750					Reduced ⁶
		40620			50	0	Tested
		41490					Reduced ⁶
		39750		QPSK			Reduced ¹
		40620			100	0	Reduced ¹
		41490					Reduced ¹
		39750		QFSN		49	Reduced ²
		40620					Tested
		41490			1		Reduced ²
		39750					Reduced ²
		40620				99	Reduced ²
Band 41	Front, Back/	41490	20 MHz				Reduced ²
2496-2690 MHz	T2	39750	20 1011 12		50	25	Reduced ³
2430 2030 WII IZ	12	40620					Reduced ³
		41490					Reduced ³
		39750					Reduced ¹
		40620			100	0	Reduced ¹
		41490		16QAM			Reduced ¹
		39750		10071111			Reduced ⁴
		40620				49	Reduced ⁴
		41490			1		Reduced ⁴
		39750			'		Reduced ⁴
		40620				99	Reduced ⁴
		41490					Reduced⁴
	1	All lower	bandwidths (15 N	/Hz. 10 MHz. 5 MH	lz. 3 MHz. 1.4 MH	z)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required			RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
i requericy (Wiriz)	Antenna	55340			Allocation	Onset	Reduced ⁶
		55990			50	0	Tested
		56640			30	O	Reduced ⁶
		55340					Reduced ¹
		55990			100	0	Reduced ¹
		56640	1		100	O	Reduced ¹
		55340	1	QPSK			Reduced ²
		55990	1			49	Tested
		56640				73	Reduced ²
		55340	1		1		Reduced ²
		55990				99	Reduced ²
		56640				33	Reduced ²
	Top, Bottom,	55340	20 MHz				Reduced ³
	Left, Right/All	55990			50	25	Reduced ³
		56640			30	25	Reduced ³
		55340					Reduced ¹
		55990	1		100	0	Reduced ¹
		56640			100	O	Reduced ¹
		55340	1	16QAM			Reduced ⁴
		55990	-			49	Reduced ⁴
		56640				73	Reduced ⁴
		55340			1		Reduced ⁴
		55990				99	Reduced ⁴
		56640				00	Reduced ⁴
Band 48			handwidths (15 N	⁄/Hz, 10 MHz, 5 MH	lz 3 MHz 1 4 MH	7)	Reduced ⁵
3550-3700 MHz		55340		11 12, 10 1011 12, 3 1011 1	50	0	Reduced ⁶
		55990					Tested
		56640					Reduced ⁶
		55340			100		Reduced ¹
		55990				0	Reduced ¹
		56640			100	Ü	Reduced ¹
		55340		QPSK			Reduced ²
		55990				49	Tested
		56640				.0	Reduced ²
		55340			1		Reduced ²
		55990				99	Reduced ²
	Front,	56640				00	Reduced ²
	Back/T1,T3,	55340	20 MHz				Reduced ³
	T4,B1,B2,B3,	55990			50	25	Reduced ³
	B4	56640			00	20	Reduced ³
		55340	1				Reduced ¹
		55990	1		100	0	Reduced ¹
		56640	1			J	Reduced ¹
		55340	1	16QAM			Reduced ⁴
		55990	1			49	Reduced ⁴
		56640	1		_		Reduced ⁴
		55340	1		1		Reduced ⁴
		55990	1			99	Reduced ⁴
		56640	1			55	Reduced ⁴
Į.				ИНz, 10 MHz, 5 MH			Reduced⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		55340					Reduced ⁶
		55990			50	0	Tested
		56640		QPSK		-	Reduced ⁶
		55340					Reduced ¹
		55990	1		100	0	Reduced ¹
		56640					Reduced ¹
		55340			1		Reduced ²
	-	55990				49	Tested
		56640					Reduced ²
		55340	20 MHz				Reduced ²
		55990				99	Reduced ²
D = 1 40	Frank Bank/	56640					Reduced ²
Band 48 3550-3700 MHz	Front, Back/ T2	55340					Reduced ³
3550-3700 MHZ	12	55990			50	25	Reduced ³
		56640					Reduced ³
		55340					Reduced ¹
		55990			100	0	Reduced ¹
		56640		16QAM			Reduced ¹
		55340		TOQAIVI			Reduced ⁴
		55990				49	Reduced ⁴
		56640			1		Reduced ⁴
		55340			1		Reduced ⁴
		55990				99	Reduced ⁴
		56640	1				Reduced ⁴
		All lower	bandwidths (15 N	MHz, 10 MHz, 5 MH	Iz. 3 MHz. 1.4 MH	z)	Reduced⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required			RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
i requericy (Wiriz)	Antenna	23060			Allocation	Oliset	Reduced ⁶
,		23095			25	12	Tested
,		23129			25	12	Reduced ⁶
,		23060					Reduced ¹
,		23095			50	0	Reduced ¹
,		23129			30	O	Reduced ¹
,		23060		QPSK			Reduced ²
,		23095				24	Tested
,		23129				27	Reduced ²
,		23060	1		1		Reduced ²
,		23095				49	Reduced ²
,		23129				40	Reduced ²
,	Top, Bottom,	23060	10 MHz				Reduced ³
,	Left, Right/All	23095			25	12	Reduced ³
,		23129			20	12	Reduced ³
,		23060	1				Reduced ¹
,		23095	1		50	0	Reduced ¹
,		23129	1		00	Ü	Reduced ¹
,		23060	1	16QAM			Reduced ⁴
,		23095	1		1	24	Reduced ⁴
,		23129					Reduced ⁴
,		23060	_				Reduced ⁴
,		23095				49	Reduced ⁴
,		23129				.0	Reduced ⁴
Band 12			ower bandwidths	(10 MHz, 5 MHz, 3	MHz. 1.4 MHz)		Reduced ⁵
699-716 MHz		23060	Dariuwiuths				Reduced ⁶
		23095			25	12	Tested
,		23129				12	Reduced ⁶
,		23060			50	0	Reduced ¹
,		23095					Reduced ¹
,		23129					Reduced ¹
,		23060		QPSK			Reduced ²
,		23095				24	Tested
,		23129					Reduced ²
,		23060			1		Reduced ²
,		23095				49	Reduced ²
,	Front,	23129	40.841.1				Reduced ²
,	Back/T1,T3,	23060	10 MHz				Reduced ³
,	T4,B1,B2,B3,	23095			25	12	Reduced ³
,	B4	23129					Reduced ³
,		23060					Reduced ¹
,		23095			50	0	Reduced ¹
<u> </u>		23129	1	400		-	Reduced ¹
<u> </u>		23060	1	16QAM			Reduced ⁴
<u> </u>		23095	1			24	Reduced ⁴
<u> </u>		23129	1				Reduced ⁴
<u> </u>		23060	1		1		Reduced ⁴
<u> </u>		23095	1			49	Reduced ⁴
	l		-			49	
		23129					Reduced⁴

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		23060					Reduced ⁶
		23095			25	12	Tested
		23129		QPSK -			Reduced ⁶
		23060					Reduced ¹
		23095			50	0	Reduced ¹
		23129					Reduced ¹
		23060				24	Reduced ²
		23095			1		Tested
		23129	10 MHz				Reduced ²
		23060			'		Reduced ²
		23095				49	Reduced ²
Band 12	Front, Back/	23129					Reduced ²
699-716 MHz	T2	23060			25		Reduced ³
000-7 TO WILL	12	23095				12	Reduced ³
		23129					Reduced ³
		23060					Reduced ¹
		23095			50	0	Reduced ¹
		23129		16QAM			Reduced ¹
		23060		TOQAW			Reduced⁴
		23095				24	Reduced⁴
		23129			1		Reduced ⁴
		23060			'		Reduced ⁴
		23095				49	Reduced ⁴
		23129					Reduced ⁴
		All I	ower handwidths	(10 MHz 5 MHz 3	MHz 14 MHz)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
r requericy (Wir 12)	Antenna	23230			25	12	Tested
		23230	-		50	0	Reduced ¹
		23230	-	QPSK	50	24	Tested
			-		1	49	Reduced ²
	Top, Bottom,	23230	10 MHz		0.5		
	Left, Right/All	23230			25	12	Reduced ³
		23230		16QAM	50	0	Reduced ¹
		23230			1	24	Reduced ⁴
		23230				49	Reduced ⁴
			All lower ban	dwidths (10 MHz, 5			Reduced⁵
	Front, Back/T1,T3, T4,B1,B2,B3,	23230		QPSK	25	12	Tested
		23230	10 MHz		50	0	Reduced ¹
		23230			1	24	Tested
Band 13		23230			•	49	Reduced ²
777-787 MHz		23230		16QAM	25	12	Reduced ³
777 707 101112	B4	23230			50	0	Reduced ¹
		23230			1	24	Reduced⁴
		23230			•	49	Reduced⁴
			All lower ban	dwidths (10 MHz, 5	5 MHz)		Reduced⁵
		23230			25	12	Tested
		23230	1	QPSK	50	0	Reduced ¹
		23230		QPSK	4	24	Tested
	Frank Daniel	23230	40 MIL		1	49	Reduced ²
	Front, Back/	23230	10 MHz		25	12	Reduced ³
	T2	23230	1	400 414	50	0	Reduced ¹
		23230	1	16QAM	4	24	Reduced ⁴
		23230	1		1	49	Reduced ⁴
			All lower ban	dwidths (10 MHz, 5	MHz)	-	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Table 11.2 Test Reduction Table - LTE EM7511

Band/	Side/	Required	Dan duvidéh	Madulation	RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel	Bandwidth	Modulation	Allocation	Offset	Reduced
		18700					Reduced ⁶
		18900			50	0	Tested
		19100					Reduced ⁶
		18700		QPSK -			Reduced ¹
		18900			100	0	Reduced ¹
		19100					Reduced ¹
		18700					Reduced ²
		18900			1	49	Tested
		19100					Reduced ²
		18700	20 MHz				Reduced ²
	Tan Dattan	18900				99	Reduced ²
Band 2	Top, Bottom, Left, Right, Front, Back/	19100					Reduced ²
1850-1910 MHz		18700			50		Reduced ³
1830-1910 WILIZ	B1, B2	18900				25	Reduced ³
	D1, D2	19100					Reduced ³
		18700					Reduced ¹
		18900			100	0	Reduced ¹
		19100		16QAM			Reduced ¹
		18700		TOQAIVI			Reduced⁴
		18900				49	Reduced ⁴
		19100			1		Reduced ⁴
		18700					Reduced ⁴
		18900	1			99	Reduced ⁴
		19100					Reduced ⁴
		All lower	bandwidths (15 N	//Hz, 10 MHz, 5 MH	lz, 3 MHz, 1.4 MH	z)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required			RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel	Bandwidth	Modulation	Allocation		Reduced
rrequeries (mriz)	7111011114	132072			7 tiloodtion	Cirot	Reduced ⁶
		132322			50	0	Tested
		132572			00	· ·	Reduced ⁶
		132072					Reduced ¹
		132322	1		100	Offset 0 49 99 25 0 49 99 z) 25 0 49 99 z) 25 0 49 99 25 0 49 99 25 0 49 99 25	Reduced ¹
		132572			100	· ·	Reduced ¹
		132072		QPSK			Reduced ²
		132322	-			49	Tested
		132572			_		Reduced ²
		132072			1		Reduced ²
		132322				99	Reduced ²
	Top, Bottom,	132572					Reduced ²
	Left, Right/	132072	20 MHz				Reduced ³
	B1, B2	132322		20 MHz 50 25 100 0 16QAM 49 1 99 dwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)	Reduced ³		
	,	132572					Reduced ³
		132072		20 MHz 50 25 100 0 49 1		Reduced ¹	
		132322			100	0	Reduced ¹
		132572				0	Reduced ¹
		132072		16QAM			Reduced ⁴
		132322				49	Reduced ⁴
		132572			_	Offset 0 49 99 25 0 49 99 25 0 49 99 25 0 49 99 25 0 49 99 25 0 49 99 25 0 49 99 25 0	Reduced ⁴
		132072			1		Reduced ⁴
		132322				99	Reduced ⁴
		132572					Reduced ⁴
Band 66			bandwidths (15 N	ИНz. 10 MHz. 5 MH	lz. 3 MHz. 1.4 MH	z)	Reduced ⁵
1710-1780 MHz		132072	- Danawatiis (10 K				Reduced ⁶
		132322					Tested
		132572	1				Reduced ⁶
		132072	1				Reduced ¹
		132322	1		100	0	Reduced ¹
		132572	1	ODOK		1Hz) 25	Reduced ¹
		132072	1	QPSK			Reduced ²
		132322	1			49	Tested
		132572	1		4		Reduced ²
		132072			1		Reduced ²
		132322				99	Reduced ²
		132572	00 MUI-				Reduced ²
	Front,	132072	20 MHz				Reduced ³
	Back/B2	132322			50	25	Reduced ³
		132572	1				Reduced ³
		132072	1				Reduced ¹
		132322	1		100	0	Reduced ¹
		132572		400 4 14			Reduced ¹
		132072	1	16QAM			Reduced ⁴
		132322	1			49	Reduced ⁴
		132572	1		_	99 Hz) 25 0 49 99 25 0 49 99 99	Reduced ⁴
		132072	1		1		Reduced ⁴
		132322	1				Reduced ⁴
		132572					Reduced ⁴
		All lower	bandwidths (15 N	ИНz, 10 MHz, 5 MH	lz, 3 MHz, 1.4 MH	z)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		132072					Reduced ⁶
		132322			50	0	Tested
		132572					Reduced ⁶
		132072					Reduced ¹
		132322			100	0	Tested
		132572		QPSK			Reduced ¹
		132072		QFSN			Tested
		132322				49	Tested
		132572			1		Tested
		132072			'		Reduced ²
		132322				99	Reduced ²
Band 66	Front, Back/	132572	20 MHz				Reduced ²
1710-1780 MHz	B1	132072	20 1011 12				Reduced ³
17 10-17 00 WH 12	51	132322			50	25	Reduced ³
		132572					Reduced ³
		132072					Reduced ¹
		132322			100	0	Reduced ¹
		132572		16QAM			Reduced ¹
		132072		10071111			Reduced ⁴
		132322				49	Reduced⁴
		132572			1		Reduced ⁴
		132072			'		Reduced ⁴
		132322				99	Reduced ⁴
		132572					Reduced ⁴
	1	I All lower	handwidths (15 N	/Hz 10 MHz 5 ME	lz 3 MHz 1 4 MH	7)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		24765					Reduced ⁶
		26865			36	19	Tested
		26995					Reduced ⁶
		24765					Reduced ¹
		26865			75	19	Reduced ¹
		26995		QPSK			Reduced ¹
		24765		QFSN			Reduced ²
		26865				37	Tested
		26995			1		Reduced ²
		24765					Reduced ²
	Ton Dottom	26865				74	Reduced ²
Band 26	Top, Bottom,	26995	15 MHz				Reduced ²
814-849 MHz	Left, Right, Front, Back/	24765	13 1011 12				Reduced ³
014-049 WII IZ	B1, B2	26865			36	0	Reduced ³
	51, 52	26995					Reduced ³
		24765					Reduced ¹
		26865			75	19	Reduced ¹
		26995		16QAM			Reduced ¹
		24765		TOQAIVI			Reduced ⁴
		26865				37	Reduced ⁴
		26995			1		Reduced ⁴
		24765			'		Reduced ⁴
		26865				74	Reduced ⁴
		26995					Reduced ⁴
		All I	ower bandwidths	(10 MHz. 5 MHz. 3	MHz. 1.4 MHz)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required			RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel	Bandwidth	Modulation			Reduced
rrequeries (mriz)	Antenna	132072			Allocation	Oliset	Reduced ⁶
		132322			50	Ω	Tested
		132572			30	O	Reduced ⁶
		132072					Reduced ¹
		132322			100	99 25 0 49 99	Reduced ¹
		132572	1		100	O	Reduced ¹
		132072	1	QPSK			Reduced ²
		132322	1			49	Tested
		132572				40	Reduced ²
		132072			1		Reduced ²
		132322	1			99	Reduced ²
		132572	1			00	Reduced ²
	Left, Right/	132072	20 MHz				Reduced ³
	B1, B2	132322			1 99 50 25 100 0 QAM 49 1 99 MHz, 5 MHz, 3 MHz, 1.4 MHz) 50 25	Reduced ³	
		132572				20	Reduced ³
		132072		100 16QAM		Reduced ¹	
		132322			100	0	Reduced ¹
		132572			100	50 0	Reduced ¹
		132072		16QAM			Reduced ⁴
		132322				49	Reduced ⁴
		132572				10	Reduced ⁴
		132072			1	99 25 0 49 99 99 99	Reduced ⁴
		132322		Reduced ⁴			
		132572					Reduced ⁴
Band 7			bandwidths (15 N	MHz. 10 MHz. 5 MH	lz. 3 MHz. 1.4 MH	7)	Reduced ⁵
2500-2570 MHz		132072	er baridwidths (15 h	101112, 3 1011			Tested
		132322					Tested
		132572					Tested
		132072	1				Reduced ¹
		132322	1		100	0	Tested
		132572	1	0.0017			Reduced ¹
		132072	1	QPSK			Tested
		132322	1			49	Tested
		132572	1				Tested
		132072	1		1		Reduced ²
	Top, Bottom/	132322				99	Reduced ²
	B1,B2	132572	00.841.				Reduced ²
	,	132072	20 MHz				Reduced ³
	Front, Back/	132322	1		50	25	Reduced ³
	B2	132572	1				Reduced ³
		132072	1				Reduced ¹
		132322	1		100	0	Reduced ¹
		132572	1	400 414		-	Reduced ¹
		132072	1	16QAM			Reduced ⁴
		132322	1			49	Reduced ⁴
		132572	1		,	-	Reduced ⁴
		132072	1		1		Reduced ⁴
		132322	1			99	Reduced ⁴
	<u> </u>	132572					Reduced ⁴
			handwidths (15 N	ИНz, 10 MHz, 5 MԻ	J- 2 MU- 1 / MU	7)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required	Bandwidth	Modulation	RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel			Allocation	Offset	Reduced
		132072					Reduced ⁶
		132322			50	0	Tested
		132572					Reduced ⁶
		132072					Reduced ¹
		132322			100	0	Tested
		132572		QPSK			Reduced ¹
		132072		QI SIX			Tested
		132322				49	Tested
		132572			1		Tested
		132072			· ·		Reduced ²
		132322				99	Reduced ²
Dan d Z	Frant Dask	132572	20 MHz				Reduced ²
Band 7 2500-2570 MHz	Front, Back/ B1	132072	20 IVID2				Reduced ³
2500-2570 WHZ	ы	132322			50	25	Reduced ³
		132572					Reduced ³
		132072					Reduced ¹
		132322			100	0	Reduced ¹
		132572		400 414			Reduced ¹
		132072	1	16QAM			Reduced ⁴
		132322	1			49	Reduced⁴
		132572	1				Reduced ⁴
		132072	1		1		Reduced ⁴
		132322	1			99	Reduced ⁴
		132572	1				Reduced ⁴
			bandwidths (15 N	и ИНz, 10 MHz, 5 MH	Iz, 3 MHz, 1.4 MH	z)	Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
, , ,		39750					Reduced ⁶
		40620	1		50	0	Tested
		41490					Reduced ⁶
		39750					Reduced ¹
		40620	1		100	0	Reduced ¹
		41490		QPSK			Reduced ¹
		39750		QPSK			Reduced ²
		40620				49	Tested
		41490			1		Reduced ²
		39750				0 0	Reduced ²
	Ton Dottom	40620				99	Reduced ²
Band 41	Top, Bottom,	41490	20 MHz				Reduced ²
2496-2690 MHz	Left, Right, Front, Back/	39750	20 1011 12				Reduced ³
2490-2090 IVII IZ	B1, B2	40620			50	25	Reduced ³
	51,52	41490					Reduced ³
		39750				25	Reduced ¹
		40620			100	0	Reduced ¹
		41490		16QAM			Reduced ¹
		39750		TOQAIVI			Reduced ⁴
		40620				49	Reduced ⁴
		41490			1		Reduced ⁴
		39750			'		Reduced ⁴
		40620				99	Reduced ⁴
		41490					Reduced ⁴
		I All I	ower bandwidths	(10 MHz, 5 MHz, 3	MHz. 1.4 MHz)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/	Side/	Required	Bandwidth	Modulation	RB	RB	Tested/
Frequency (MHz)	Antenna	Test Channel			Allocation	Offset	Reduced
		55340				_	Reduced ⁶
		55990			50	0	Tested
		56640					Reduced ⁶
		55340					Reduced ¹
		55990			100	0	Reduced ¹
		56640		QPSK			Reduced ¹
		55340		QI OIL			Reduced ²
		55990				49	Tested
		56640			1		Reduced ²
		55340			'		Reduced ²
	Ton Dottom	55990				99	Reduced ²
Band 48	Top, Bottom,	56640	20 MHz				Reduced ²
3550-3700 MHz	Left, Right, Front, Back/	55340	20 1011 12				Reduced ³
3330-3700 WII IZ	B1, B2	55990			50	25	Reduced ³
	D1, D2	56640					Reduced ³
		55340					Reduced ¹
		55990			100	0	Reduced ¹
		56640		400 4 14			Reduced ¹
		55340	1	16QAM			Reduced ⁴
		55990				49	Reduced ⁴
		56640	1		4		Reduced ⁴
		55340	1		1		Reduced ⁴
		55990	1			99	Reduced ⁴
		56640	1				Reduced ⁴
		All I	ower bandwidths	(10 MHz, 5 MHz, 3	MHz, 1.4 MHz)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3)
A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
r requericy (WIT12)	Antenna	23060			Allocation	Oliset	Reduced ⁶
		23095			25	12	Tested
		23129			25	12	Reduced ⁶
		23060					Reduced ¹
		23095			50	0	Reduced ¹
		23129			30	U	Reduced ¹
		23060		QPSK			Reduced ²
		23095				24	Tested
		23129				24	Reduced ²
		23060			1		Reduced ²
		23095				49	Reduced ²
	Top, Bottom,	23129				40	Reduced ²
Band 12	Left, Right,	23060	10 MHz			49 12	Reduced ³
699-716 MHz	Front, Back/	23095			25	12	Reduced ³
	B1, B2	23129			20		Reduced ³
		23060					Reduced ¹
		23095			50	12	Reduced ¹
		23129					Reduced ¹
		23060		16QAM			Reduced ⁴
		23095				24	Reduced ⁴
		23129			_		Reduced ⁴
		23060			1		Reduced ⁴
		23095				12 0 24 49 12	Reduced ⁴
		23129					Reduced ⁴
		All I	ower bandwidths	(10 MHz, 5 MHz, 3	MHz, 1.4 MHz)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



Band/ Frequency (MHz)	Side/ Antenna	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
		23230			25	12	Tested
		23230		QPSK	50	0	Reduced ¹
	Ton Dottom	23230		QFSK	1	24	Tested
Band 13	Top, Bottom,	23230	10 MHz		Į.	49	Reduced ²
777-787 MHz	Left, Right, Front, Back/	23230	TO IVITZ		25	12	Reduced ³
777-707 WII IZ	B1, B2	23230		16QAM	50	0	Reduced ¹
	D1, D2	23230		IOQAW	4	24	Reduced ⁴
		23230			Į.	49	Reduced ⁴
			All lower ban	dwidths (10 MHz, 5	5 MHz)		Reduced⁵
		23330			25	12	Tested
		23330		QPSK	50	0	Reduced ¹
	Tan Dattan	23330		QFSN	4	49 12 0 24 49	Tested
Band 14	Top, Bottom,	23330	10 MHz		I	49	Reduced ²
788-798 MHz	Left, Right, Front, Back/	23330	TO IVITZ		25	12	Reduced ³
700-796 MITZ	B1, B2	23330		16QAM	50	0	Reduced ¹
	51, 52	23330		TOQAM	1	24	Reduced⁴
		23330			Į.	49	Reduced⁴
			All lower ban	dwidths (10 MHz, 5	5 MHz)		Reduced ⁵

Reduced¹ – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3)
A) I) page 4.

Reduced² - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced³ - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced⁴- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced⁵- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.



SAR Data Summary –LTE Band 13 – EM7565

MEA	SUR	EMENT RE	SULTS	3							
Gap	Plot	Position/ Antenna		uency	BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)
		Antenna	MHz	Ch.		Oize	Onset	rarget	(dBm)	OAR (W/kg)	OAR (W/Rg)
		Top/T1	782	23230	10 MHz/QPSK	1	24	0	23.6	0.151	0.17
		Top/T1	782	23230	10 MHz/QPSK	25	12	1	22.4	0.141	0.16
		Top/T2	782	23230	10 MHz/QPSK	1	24	0	23.6	0.119	0.13
		Top/T2	782	23230	10 MHz/QPSK	25	12	1	22.4	0.0941	0.11
		Top/T3	782	23230	10 MHz/QPSK	1	24	0	23.6	0.120	0.13
		Top/T3	782	23230	10 MHz/QPSK	25	12	1	22.4	0.0992	0.11
		Top/T4	782	23230	10 MHz/QPSK	1	24	0	23.6	0.198	0.22
		Top/T4	782	23230	10 MHz/QPSK	25	12	1	22.4	0.159	0.18
		Bottom/B1	782	23230	10 MHz/QPSK	1	24	0	23.6	0.171	0.19
		Bottom/B1	782	23230	10 MHz/QPSK	25	12	1	22.4	0.136	0.16
		Bottom/B2	782	23230	10 MHz/QPSK	1	24	0	23.6	0.224	0.25
		Bottom/B2	782	23230	10 MHz/QPSK	25	12	1	22.4	0.169	0.19
		Bottom/B3	782	23230	10 MHz/QPSK	1	24	0	23.6	0.193	0.21
		Bottom/B3	782	23230	10 MHz/QPSK	25	12	1	22.4	0.157	0.18
		Bottom/B4	782	23230	10 MHz/QPSK	1	24	0	23.6	0.302	0.33
		Bottom/B4	782	23230	10 MHz/QPSK	25	12	1	22.4	0.247	0.28
		Left/T1	782	23230	10 MHz/QPSK	1	24	0	23.6	0.276	0.30
		Left/T1	782	23230	10 MHz/QPSK	25	12	1	22.4	0.219	0.25
		Right/T2	782	23230	10 MHz/QPSK	1	24	0	23.6	0.442	0.48
		Right/T2	782	23230	10 MHz/QPSK	25	12	1	22.4	0.383	0.44
	1	Left/T3	782	23230	10 MHz/QPSK	1	24	0	23.6	0.606	0.66
		Left/T3	782	23230	10 MHz/QPSK	25	12	1	22.4	0.490	0.56
		Right/T4	782	23230	10 MHz/QPSK	1	24	0	23.6	0.278	0.30
10		Right/T4	782	23230	10 MHz/QPSK	25	12	1	22.4	0.220	0.25
mm		Left/B1	782	23230	10 MHz/QPSK	1	24	0	23.6	0.179	0.20
		Left/B1	782	23230	10 MHz/QPSK	25	12	1	22.4	0.145	0.17
		Right/B2	782	23230	10 MHz/QPSK	1	24	0	23.6	0.427	0.47
		Right/B2	782	23230	10 MHz/QPSK	25	12	1	22.4	0.345	0.40
		Left/B3	782	23230	10 MHz/QPSK	1	24	0	23.6	0.405	0.44
		Left/B3	782	23230	10 MHz/QPSK	25	12	1	22.4	0.327	0.38
		Right/B4	782	23230	10 MHz/QPSK	1	24	0	23.6	0.164	0.18
		Right/B4	782	23230	10 MHz/QPSK	25	12	1	22.4	0.134	0.15
		Back/T1	782	23230	10 MHz/QPSK	1	24	0	23.6	0.481	0.53
		Back/T1	782	23230	10 MHz/QPSK	25	12	1	22.4	0.386	0.44
		Back/T2	782	23230	10 MHz/QPSK	1	24	0	23.6	0.338	0.37
		Back/T2	782	23230	10 MHz/QPSK	25	12	1	22.4	0.272	0.31
		Front/T3	782	23230	10 MHz/QPSK	1	24	0	23.6	0.247	0.27
		Front/T3	782	23230	10 MHz/QPSK	25	12	1	22.4	0.201	0.23
		Front/T4	782	23230	10 MHz/QPSK	1	24	0	23.6	0.343	0.38
		Front/T4	782	23230	10 MHz/QPSK	25	12	1	22.4	0.283	0.32
		Back/B1	782	23230	10 MHz/QPSK	1 25	24	0	23.6	0.387	0.42
		Back/B1	782	23230	10 MHz/QPSK	25	12	1	22.4	0.310	0.36
		Back/B2	782	23230	10 MHz/QPSK	1	24	0	23.6	0.182	0.20
		Back/B2	782	23230	10 MHz/QPSK	25	12	1	22.4	0.147	0.17
		Front/B3	782	23230	10 MHz/QPSK	1	24	0	23.6	0.147	0.16
		Front/B3	782	23230	10 MHz/QPSK	25	12	1	22.4	0.119	0.14
		Front/B4	782	23230	10 MHz/QPSK	1	24	0	23.6	0.340	0.37
		Front/B4	782	23230	10 MHz/QPSK	25	12	1	22.4	0.275	0.32

			Body 1.6 W/kg (mW/g) averaged over 1 gram
 SAR Measurement 			
Phantom Configuration	☐Left Head	⊠Eli4	☐Right Head
SAR Configuration	□Head	⊠Body	
2. Test Signal Call Mode	☐Test Code	⊠Base Station Si	imulator
Test Configuration	☐With Belt Clij	p Without Belt C	Clip ⊠N/A
2. Test Signal Call Mode	Test Code	Base Station Si	

Jay M. Moulton Vice President

Tissue Depth is at least 15.0 cm



SAR Data Summary –LTE Band 13 – EM7511

MEA	MEASUREMENT RESULTS											
Gap	Plot	Position/	Freq	uency	BW/ Modulation	RB Size	RB Offset	MPR	End Power	Measured SAR (W/kg)	Reported	
-		Antenna	MHz	Ch.			Offset	Target	(dBm)		SAR (W/kg)	
		Bottom/B1	782	23230	10 MHz/QPSK	1	24	0	23.8	0.205	0.22	
		Bottom/B1	782	23230	10 MHz/QPSK	25	12	1	22.5	0.163	0.18	
		Bottom/B2	782	23230	10 MHz/QPSK	1	24	0	23.8	0.334	0.35	
		Bottom/B2	782	23230	10 MHz/QPSK	25	12	1	22.5	0.268	0.30	
		Left/B1	782	23230	10 MHz/QPSK	1	24	0	23.8	0.399	0.42	
10		Left/B1	782	23230	10 MHz/QPSK	25	12	1	22.5	0.318	0.36	
mm		Right/B2	782	23230	10 MHz/QPSK	1	24	0	23.8	0.406	0.43	
		Right/B2	782	23230	10 MHz/QPSK	25	12	1	22.5	0.360	0.40	
		Back/B1	782	23230	10 MHz/QPSK	1	24	0	23.8	0.359	0.38	
		Back/B1	782	23230	10 MHz/QPSK	25	12	1	22.5	0.293	0.33	
		Back/B2	782	23230	10 MHz/QPSK	1	24	0	23.8	0.463	0.48	
		Back/B2	782	23230	10 MHz/QPSK	25	12	1	22.5	0.384	0.43	

Body 1.6 W/kg (mW/g) averaged over 1 gram

SAR Measurement
 Phantom Configuration
 SAR Configuration

 Test Signal Call Mode

☐ Left Head
☐ Head
☐ Test Code
☐ With Belt Clip

☐Body
☐Base Station Simulator
☐Without Belt Clip ☐N/A

3. Test Configuration4. Tissue Depth is at least 15.0 cm



SAR Data Summary –LTE Band 12 – EM7565

MEA	MEASUREMENT RESULTS											
Gap	Plot	Position/ Antenna		uency	BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)	
		7 tintomia	MHz	Ch.		0.20	011001	raigot	(dBm)	Orac (Wing)	Orat (Mag)	
		Top/T1	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.112	0.12	
		Top/T1	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.090	0.10	
		Top/T2	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.061	0.07	
		Top/T2	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.0528	0.06	
		Top/T3	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.276	0.30	
		Top/T3	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.227	0.26	
		Top/T4	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.153	0.16	
		Top/T4	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.121	0.14	
		Bottom/B1	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.173	0.19	
		Bottom/B1	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.138	0.16	
		Bottom/B2	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.101	0.11	
		Bottom/B2	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.0825	0.09	
		Bottom/B3	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.161	0.17	
		Bottom/B3	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.129	0.15	
		Bottom/B4	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.201	0.22	
		Bottom/B4	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.163	0.19	
		Left/T1	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.135	0.14	
		Left/T1	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.111	0.13	
		Right/T2	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.210	0.23	
		Right/T2	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.169	0.19	
		Left/T3	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.308	0.33	
		Left/T3	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.250	0.29	
		Right/T4	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.138	0.15	
10		Right/T4	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.111	0.13	
mm		Left/B1	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.122	0.13	
		Left/B1	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.0980	0.11	
		Right/B2	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.210	0.23	
		Right/B2	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.169	0.19	
		Left/B3	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.188	0.20	
		Left/B3	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.147	0.17	
		Right/B4	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.102	0.11	
		Right/B4	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.0830	0.10	
		Back/T1	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.336	0.36	
		Back/T1	707.5	23095	10 MHz/QPSK	25	12		22.4	0.271	0.31	
		Back/T2	707.5	23095	10 MHz/QPSK	1 05	24	0	23.7	0.153	0.16	
		Back/T2	707.5	23095	10 MHz/QPSK	25 1	12 24	0	22.4	0.121	0.14	
		Front/T3 Front/T3	707.5 707.5	23095 23095	10 MHz/QPSK 10 MHz/QPSK	25	12	1	23.7 22.4	0.156 0.130	0.17 0.15	
		Front/T4	707.5 707.5	23095 23095	10 MHz/QPSK 10 MHz/QPSK	1 25	24 12	0	23.7 22.4	0.334 0.272	0.36	
		Front/T4 Back/B1	707.5	23095	10 MHz/QPSK 10 MHz/QPSK	25 1	12 24	0	22.4	0.272	0.31 0.26	
		Back/B1	707.5	23095	10 MHz/QPSK	25	12	1	23.7	0.247	0.26	
		Back/B2	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.196	0.23	
		Back/B2	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.126	0.14	
		Front/B3	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.0928	0.12	
		Front/B3	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.0736	0.08	
		Front/B4	707.5	23095	10 MHz/QPSK	1	24	0	23.7	0.255	0.00	
		Front/B4	707.5	23095	10 MHz/QPSK	25	12	1	22.4	0.208	0.24	
		1 1011/104	101.0	20030	10 1011 12/01 010	20	14	<u>'</u>		0.200	U.Z7	

				Body V/kg (mW/g) ed over 1 gram
1.	SAR Measurement	_		
	Phantom Configuration	☐Left Head	⊠Eli4	☐Right Head
	SAR Configuration	☐Head	⊠Body	
2.	Test Signal Call Mode	☐Test Code		
3	Test Configuration	□With Relt Clin	□Without Belt Clip ⊠N	/Δ

Jay M. Moulton Vice President

Tissue Depth is at least 15.0 cm



SAR Data Summary –LTE Band 12 – EM7511

MEA	MEASUREMENT RESULTS										
Gap	Plot	Position/ Antenna	Frequency		BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured	Reported
•		Antenna	MHz	Ch.		Size	Oliset	rarget	(dBm)	SAR (W/kg)	SAR (W/kg)
		Bottom/B1	707.5	23095	10 MHz/QPSK	1	24	0	24.0	0.218	0.22
		Bottom/B1	707.5	23095	10 MHz/QPSK	25	12	1	22.9	0.179	0.18
		Bottom/B2	707.5	23095	10 MHz/QPSK	1	24	0	24.0	0.143	0.14
		Bottom/B2	707.5	23095	10 MHz/QPSK	25	12	1	22.9	0.114	0.12
		Left/B1	707.5	23095	10 MHz/QPSK	1	24	0	24.0	0.240	0.24
10		Left/B1	707.5	23095	10 MHz/QPSK	25	12	1	22.9	0.199	0.20
mm		Right/B2	707.5	23095	10 MHz/QPSK	1	24	0	24.0	0.275	0.28
		Right/B2	707.5	23095	10 MHz/QPSK	25	12	1	22.9	0.220	0.23
		Back/B1	707.5	23095	10 MHz/QPSK	1	24	0	24.0	0.308	0.31
		Back/B1	707.5	23095	10 MHz/QPSK	25	12	1	22.9	0.268	0.27
	2	Back/B2	707.5	23095	10 MHz/QPSK	1	24	0	24.0	0.363	0.36
i		Back/B2	707.5	23095	10 MHz/QPSK	25	12	1	22.9	0.288	0.29

Body
1.6 W/kg (mW/g)
averaged over 1 gram

☐Right Head

1.	SAR Measurement
	Phantom Configuration
	SAR Configuration
2.	Test Signal Call Mode

☐ Left Head☐ Head☐ Test Code☐ With Belt Clip☐

⊠Eli4 ⊠Body

Base Station Simulator

☐ Without Belt Clip ☑ N/A

3. Test Configuration4. Tissue Depth is at least 15.0 cm



SAR Data Summary -LTE Band 14 - EM7511

MEA	MEASUREMENT RESULTS										
Gap	Plot	Position/ Antenna	Freq	uency	BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)
		Antenna	MHz	Ch.		Size	Oliset	rarget	(dBm)		
		Bottom/B1	793.0	23330	10 MHz/QPSK	1	24	0	23.3	0.182	0.21
		Bottom/B1	793.0	23330	10 MHz/QPSK	25	12	1	22.6	0.144	0.16
		Bottom/B2	793.0	23330	10 MHz/QPSK	1	24	0	23.3	0.256	0.30
		Bottom/B2	793.0	23330	10 MHz/QPSK	25	12	1	22.6	0.208	0.23
		Left/B1	793.0	23330	10 MHz/QPSK	1	24	0	23.3	0.355	0.42
10		Left/B1	793.0	23330	10 MHz/QPSK	25	12	1	22.6	0.284	0.31
mm	3	Right/B2	793.0	23330	10 MHz/QPSK	1	24	0	23.3	0.464	0.55
		Right/B2	793.0	23330	10 MHz/QPSK	25	12	1	22.6	0.368	0.40
		Back/B1	793.0	23330	10 MHz/QPSK	1	24	0	23.3	0.429	0.50
		Back/B1	793.0	23330	10 MHz/QPSK	25	12	1	22.6	0.358	0.39
		Back/B2	793.0	23330	10 MHz/QPSK	1	24	0	23.3	0.436	0.51
		Back/B2	793.0	23330	10 MHz/QPSK	25	12	1	22.6	0.353	0.39

Body 1.6 W/kg (mW/g) averaged over 1 gram

SAR Measurement Phantom Configuration SAR Configuration

Left Head Head
Test Code ⊠Eli4 Body ☐Right Head

Test Signal Call Mode Test Configuration

☐With Belt Clip

☐Base Station Simulator ☐Without Belt Clip ☑N/A

Tissue Depth is at least 15.0 cm



SAR Data Summary – 850 MHz Body – UMTS Band 5 – EM7565

MEASUREMENT RESULTS

	Freque	encv		Position/				Measured	Reported
Plot			Modulation			RMC	Test Set Up		SAR
	MHz	Ch.		7 tiltorilla	(dBm)			(W/kg)	(W/kg)
	836.6	4183		Top/T1	23.79	12.2 kbps	Test Loop 1	0.441	0.46
	836.6	4183		Top/T2	23.79	12.2 kbps	Test Loop 1	0.203	0.21
	836.6	4183		Top/T3	23.79	12.2 kbps	Test Loop 1	0.155	0.16
	836.6	4183		Top/T4	23.79	12.2 kbps	Test Loop 1	0.251	0.26
	836.6	4183		Bottom/B1	23.79	12.2 kbps	Test Loop 1	0.123	0.13
	836.6	4183		Bottom/B2	23.79	12.2 kbps	Test Loop 1	0.0988	0.10
	836.6	4183		Bottom/B3	23.79	12.2 kbps	Test Loop 1	0.0878	0.09
	836.6	4183		Bottom/B4	23.79	12.2 kbps	Test Loop 1	0.100	0.11
	836.6	4183		Left/T1	23.79	12.2 kbps	Test Loop 1	0.312	0.33
	836.6	4183	WODMA	Right/T2	23.79	12.2 kbps	Test Loop 1	0.489	0.51
	836.6	4183		Left/T3	23.79	12.2 kbps	Test Loop 1	0.0837	0.09
	836.6	4183		Right/T4	23.79	12.2 kbps	Test Loop 1	0.175	0.18
	836.6	4183	VVCDIVIA	Left/B1	23.79	12.2 kbps	Test Loop 1	0.242	0.25
	836.6	4183		Right/B2	23.79	12.2 kbps	Test Loop 1	0.468	0.49
	836.6	4183		Left/B3	23.79	12.2 kbps	Test Loop 1	0.353	0.37
	836.6	4183		Right/B4	23.79	12.2 kbps	Test Loop 1	0.254	0.27
	836.6	4183		Back/T1	23.79	12.2 kbps	Test Loop 1	0.412	0.43
	836.6	4183		Back/T2	23.79	12.2 kbps	Test Loop 1	0.260	0.27
	836.6	4183		Front/T3	23.79	12.2 kbps	Test Loop 1	0.200	0.21
	836.6	4183		Front/T4	23.79	12.2 kbps	Test Loop 1	0.119	0.12
	836.6	4183		Back/B1	23.79	12.2 kbps	Test Loop 1	0.412	0.43
	836.6	4183		Back/B2	23.79	12.2 kbps	Test Loop 1	0.223	0.23
	836.6	4183		Front/B3	23.79	12.2 kbps	Test Loop 1	0.186	0.20
	836.6	4183		Front/B4	23.79	12.2 kbps	Test Loop 1	0.424	0.45
		MHz	MHz Ch. 836.6 4183 836.6 4	MHz Ch 836.6 4183	MHz	MHz	Plot MHz	Plot MHz	Plot MHz

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1.	SAR Measurement		
	Phantom Configuration	Left Head	⊠Eli4
	SAR Configuration	Head	⊠Body
2.	Test Signal Call Mode	Test Code	⊠ Base Station Simulator
3.	Test Configuration	With Belt Clip	☐Without Belt Clip ⊠N/A

4. Tissue Depth is at least 15.0 cm



SAR Data Summary – 850 MHz Body – UMTS Band 5 – EM7511

MEASUREMENT RESULTS

Gap	Plot	Freque	ency	Modulation	Position/ Antenna	End Power	RMC	Test Set Up	Measured SAR	Reported SAR
		MHz	Ch.			(dBm)			(W/kg)	(W/kg)
		836.6	4183		Bottom/B1	23.58	12.2 kbps	Test Loop 1	0.123	0.14
		836.6	4183		Bottom/B2	23.58	12.2 kbps	Test Loop 1	0.135	0.15
10		836.6	4183	WCDMA	Left/B1	23.58	12.2 kbps	Test Loop 1	0.288	0.32
mm		836.6	4183	WCDIVIA	Right/B2	23.58	12.2 kbps	Test Loop 1	0.374	0.41
		836.6	4183		Back/B1	23.58	12.2 kbps	Test Loop 1	0.355	0.39
	4	836.6	4183		Back/B2	23.58	12.2 kbps	Test Loop 1	0.518	0.57

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1.	SAR Measurement			
	Phantom Configuration	Left Head	⊠Eli4	ad
	SAR Configuration	Head	⊠Body	
2.	Test Signal Call Mode	Test Code	⊠ Base Station Simulator	
3.	Test Configuration	☐With Belt Clip	☐Without Belt Clip ☑N/A	
		=	-	

4. Tissue Depth is at least 15.0 cm