FCC SAR TEST REPORT

Client Name	:	Powerwifi, Inc.
Address	:	Delaware, 2035 Sunset Lake road, Suite B-2, City of Newark, Zip Code 19702, county New Castle, USA
Product Name	:	Nommi-Slim
Date	:	Mar. 31, 2020

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	:	Powerwifi, Inc.
Manufacturer	:	Powerwifi, Inc.
Product Name	:	Nommi-Slim
Model No.	:	Slim
Trade Mark	:	N/A
Rating(s)	:	Input: DC 5V, 1.5A(With DC 3.8V, 5600mAh Battery inside)

Test Standard(s) : IEEE 1528-2013; IEC 62209-2:2010; ANSI/IEEE C95.1:2005; FCC 47 CFR Part 2 ;

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the IEEE 1528-2013, IEC 62209-2:2010, ANSI/IEEE C95.1:2005 and FCC 47 CFR Part 2 (2.1093:2013) requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Sept. 09, 2019

Date of Test Sept. 09~ Oct. 25, 2019

Prepared By

(Engineer / Kingkong Jin)

Reviewer

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

(Manager / Tom Chen)

Version

Version No.	Date	Description
01	Jan. 16, 2020	Original

1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing are as follows.

Frequency Band	Highest Reported 1g-SAR(W/Kg)	SAR Test Limit (W/Kg)
	Body	
GSM 850	0.729	1.6
PCS 1900	0.432	
WCDMA Band 2	0.526	
WCDMA Band 5	0.511	
LTE Band 2	0.750	
LTE Band 4	0.383	
LTE Band 5	0.565	
LTE Band 7	0.594	
LTE Band 12	0.800	
LTE Band 17	0.509	
LTE Band 41	0.652	
WIFI 2.4G	0.363	
Simultaneous SAR	1.163	
Test Result	PASS	

<Highest SAR Summary>

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and IEC 62209-2:2010

2. General Information

2.1. Client Information

Applicant	:	Powerwifi, Inc.
Address	:	Delaware, 2035 Sunset Lake road, Suite B-2, City of Newark, Zip Code 19702, county New Castle, USA
Manufacturer	:	Powerwifi, Inc.
Address	:	Delaware, 2035 Sunset Lake road, Suite B-2, City of Newark, Zip Code 19702, county New Castle, USA
Factory	:	Powerwifi, Inc.
Address	:	Delaware, 2035 Sunset Lake road, Suite B-2, City of Newark, Zip Code 19702, county New Castle, USA

2.2. Description of Equipment Under Test (EUT)

Product Name	:	Nommi-Slim	
Model No.	:	Slim	
Trade Mark	:	N/A	
Test Power Supply	:	DC 3.8V Battery inside	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Normal Sample)	
Product Description	:	Operation Frequency:	GPRS/EGPRS 850 TX:824.2~848.8 MHz GPRS/EGPRS 1900 TX:1850.2~1909.8 MHz UMTS-FDD Band 5 TX: 826.4 ~ 846.6 MHz UMTS-FDD Band 2 TX:1852.4~1907.6 MHz LTE-FDD Band 2 TX: 1850.7 ~ 1909.3 MHz LTE-FDD Band 4 TX:1710.7 ~ 1754.3 MHz LTE-FDD Band 5

			TX:824.7 ~ 848.3 MHz LTE-FDD Band 7 TX:2502.5 ~ 2567.5 MHz LTE-FDD Band 12 TX:699.7 ~ 715.3 MHz LTE-FDD Band 17 TX:706.5 ~ 713.5 MHz LTE-TDD Band 41 TX:2555 ~ 2655 MHz 802.11b/ g/ n(HT20): 2412-2462MHz 802.11n(HT40): 2422-2452MHz
		GPRS Class:	8/10/12
		Modulation Type:	GPRS/EGPRS: GMSK, 8PSK WCDMA: BPSK, 16QAM; LTE: QPSK, 16QAM 802.11b: CCK; 802.11g/n: OFDM
		Antenna Type:	GPRS/EGPRS: PIFA Antenna WCDMA: PIFA Antenna LTE: PIFA Antenna WiFi: PIFA Antenna
		Antenna Gain(Peak):	GSM 850: -1.45 dBi PCS 1900: -1.45 dBi UMTS-FDD Band 2: 0.17 dBi UMTS-FDD Band 5: 0.17 dBi LTE-FDD Band 2: 1.38 dBi LTE-FDD Band 4: 1.38 dBi LTE-FDD Band 5: 1.38 dBi LTE-FDD Band 7: 1.38 dBi LTE-FDD Band 12: 1.38 dBi LTE-FDD Band 17: 1.38 dBi LTE-TDD Band 41: 1.38 dBi WiFi: 1.6 dBi
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

2. 3. Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

2. 4. Applied Standard

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- IEEE 1528-2013
- FCC 47 CFR Part 2 (2.1093:2013)
- ANSI/IEEE C95.1:2005
- KDB 248227 D01
- KDB 447498 D01
- KDB 648474 D04
- KDB 865664 D01
- KDB 941225 D01
- KDB 941225 D05
- KDB 941225 D06

2. 5. Environment of Test Site

Items	Required	Actual
Temperature (℃)	18-25	22~23
Humidity (%RH)	30-70	55~65

2. 6. Test Configuration

The device was controlled by using a base station emulator. Communication between the device and the emulator was established by air link. The distance between the EUT and the antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during all tests.

3. Specific Absorption Rate (SAR)

3.1. Introduction

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

3.2. SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ).The equation description is as below:

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

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$\mathbf{SAR} = \mathbf{C}\left(\frac{\boldsymbol{\delta}\mathbf{T}}{\boldsymbol{\delta}\mathbf{t}}\right)$$

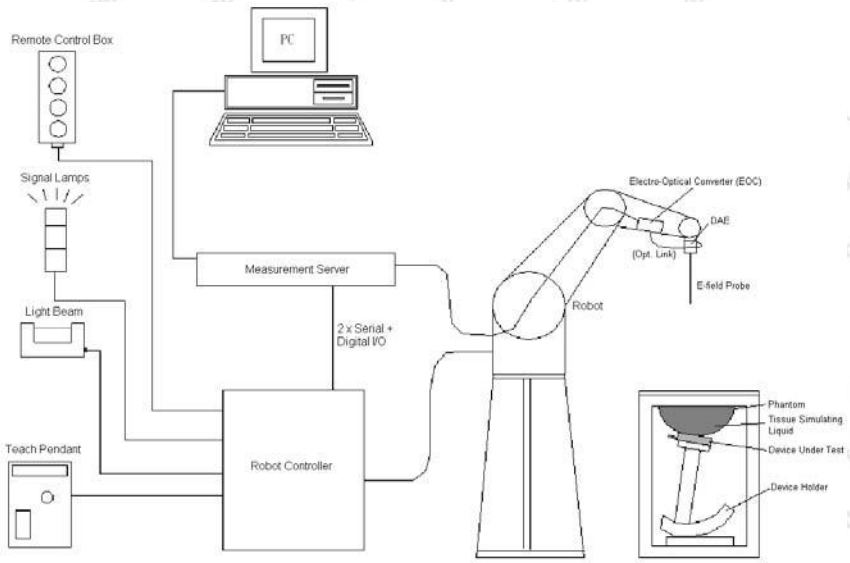
Where: C is the specific head capacity, δT is the temperature rise and δtisthe exposure duration, or related to the electrical field in the tissue by

$$\mathbf{SAR} = \frac{\boldsymbol{\sigma}|\mathbf{E}|^2}{\boldsymbol{\rho}}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

4. SAR Measurement System



DASY System Configurations

The DASY system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remove control with teach pendant and additional circuitry for robot safety such as warming lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

components are described in details in the following sub-sections.

4.1. E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG).The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

➢ E-Field Probe Specification

<EX3DV4 Probe>

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	 **Photo of EX3DV4**
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μW/g to 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 μW/g)	
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

➢ E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than ± 10%. The spherical isotropy shall be evaluated and within ± 0.25dB. The sensitivity parameters (NormX, NormY, and NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix C of this report.

4.2. Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) 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 measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.

Photo of DAE

4. 3. Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60XL) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability ±0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

Photo of DASY5

4. 4. Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chip disk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical

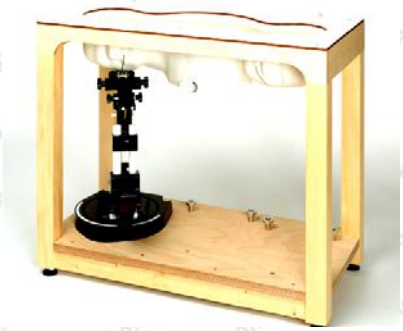
detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.

Photo of Server for DASY5

4. 5. Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	 **Photo of SAM Phantom**
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI4 Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	 **Photo of ELI4 Phantom**
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis:400 mm	

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

4. 6. Device Holder

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ±0.5mm would produce a SAR uncertainty of ± 20%. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (ERP).Thus the device needs no repositioning when changing the angles.

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity ε = 3 and loss tangent δ = 0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

Device Holder

4. 7. Data Storage and Evaluation

➢ Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [A/m], [mW/g]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-lose media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

➢ Data Evaluation

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

Probe parameters：	- Sensitivity	$Norm_i$, a_{i0}, a_{i1}, a_{i2}
	- Conversion factor	$ConvF_i$
	- Diode compression point	dcp_i
Device parameters：	- Frequency	f
	- Crest factor	cf
Media parameters：	- Conductivity	σ
	- Density	ρ

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

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as：

$$\mathbf{V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}}$$

with V_i= compensated signal of channel i, (i = x, y, z)

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

cf = crest factor of exciting field (DASY parameter)

dcp_i = diode compression point (DASY parameter)

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

E-field Probes： $\mathbf{E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}}$

H-field Probes： $\mathbf{H_i = \sqrt{V_i} \cdot \frac{a_{i0}+a_{i1}f+a_{i2}f^2}{f}}$

with V_i = compensated signal of channel i,(i = x, y, z)

$Norm_i$= sensor sensitivity of channel i, (i = x, y, z), μV/(V/m)^2 for E-field Probes

ConvF= sensitivity enhancement in solution

a_{ij}= sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

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

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

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

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

$$\mathbf{SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}}$$

with SAR = local specific absorption rate in mW/g

E_{tot}= total field strength in V/m

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

ρ = equivalent tissue density in g/cm^3

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

5. Test Equipment List

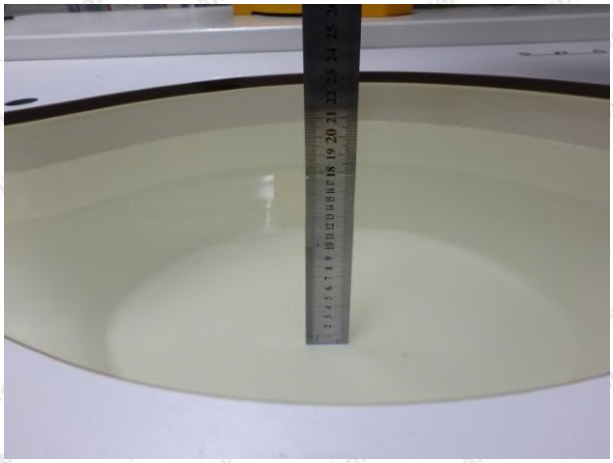
Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	1118	Jun. 08,2018	Jun. 07,2021
SPEAG	835MHz System Validation Kit	D835V2	4d154	Jun. 16,2018	Jun. 15,2021
SPEAG	1750MHz System Validation Kit	D1750V2	1021	Jul. 03, 2019	Jul. 02, 2022
SPEAG	1900MHz System Validation Kit	D1900V2	5d175	Jun. 15,2019	Jun. 14,2022
SPEAG	2450MHz System Validation Kit	D2450V2	910	Jun. 15,2018	Jun. 14,2021
SPEAG	2600MHz System Validation Kit	D2600V2	1058	Jun. 19,2018	Jun. 18,2021
SPEAG	Data Acquisition Electronics	DAE4	387	Sept. 03, 2019	Sept. 02, 2019
SPEAG	Dosimetric E-Field Probe	EX3DV4	7396	May 06,2019	May 05,2020
R&S	UNIVERSAL RADIO COMMUNICATION TESTER	CMU 200	117888	Nov. 05, 2018	Nov. 04, 2019
Agilent	ENA Series Network Analyzer	E5071C	MY46317418	May 22, 2019	May 21, 2020
SPEAG	DAK	DAK-3.5	1226	NCR	NCR
SPEAG	SAM Twin Phantom	QD000P40CD	1802	NCR	NCR
AR	Amplifier	ZHL-42W	QA1118004	NCR	NCR
Agilent	Power Meter	N1914A	MY50001102	Dec. 06, 2018	Nov. 06, 2019
Agilent	Power Sensor	N8481H	MY51240001	Dec. 06, 2018	Nov. 06, 2019
R&S	Spectrum Analyzer	N9020A	MY51170037	May.22, 2019	May. 21, 2020
Agilent	Signal Generation	N5182A	MY48180656	May.22, 2019	May. 21, 2020
Worken	Directional Coupler	0110A05601O-10	COM5BNW1A2	May.22, 2019	May. 21, 2020

Note:

1. The calibration certificate of DASY can be referred to appendix C of this report.
2. The dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
4. The dielectric probe kit was calibrated via the network analyzer, with the specified procedure (calibrated in pure water) and calibration kit (standard) short circuit, before the dielectric measurement. The specific procedure and calibration kit are provided by Agilent.
5. In system check we need to monitor the level on the power meter, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1W input power according to the ratio of 1W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the power meter is critical and we do have calibration for it

6. Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 6.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown as followed:



Liquid Height for Body SAR

The following table gives the recipes for tissue simulating liquid.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)
For Head								
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1750	55.2	0	0	0.3	0	44.5	1.37	40.1
1800,1900,2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0
5000	65.5	0	17.2	0	17.3	0	6.00	48.2
For Body								
900	50.8	48.2	0	0.9	0.1	0	0.97	55.2
1750	70.2	0	0	0.4	0	29.4	1.49	53.4
1800,1900,2000	70.2	0	0	0.4	0	29.4	1.52	53.3

2450	68.6	0	0	0	0	31.4	1.95	52.7
2600	68.1	0	0	0.1	0	31.8	2.16	52.5
5000	78.6	0	10.7	0	10.7	0	6.00	48.2

The following table shows the measuring results for simulating liquid.

Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue				Liquid Temp.	Test Data
		ε_r	σ	ε_r	Dev. (%)	σ	Dev. (%)		
900MSL	850	55.00	1.05	55.34	0.62	1.07	1.90	22.4	09/09/2019
1900MSL	1900	53.30	1.52	53.26	-0.08	1.51	-0.66	21.8	09/11/2019
1750MSL	1750	53.40	1.49	53.21	-0.36	1.51	1.34	22.3	09/13/2019
750MSL	750	55.5	0.96	55.37	-0.23	0.98	2.08	22.4	09/15/2019
2600MSL	2600	52.50	2.16	54.37	3.56	2.15	-0.46	21.6	09/23/2019
2450MSL	2450	52.70	1.95	51.97	-1.39	1.89	-3.08	221.9	09/24/2019

7. System Verification Procedures

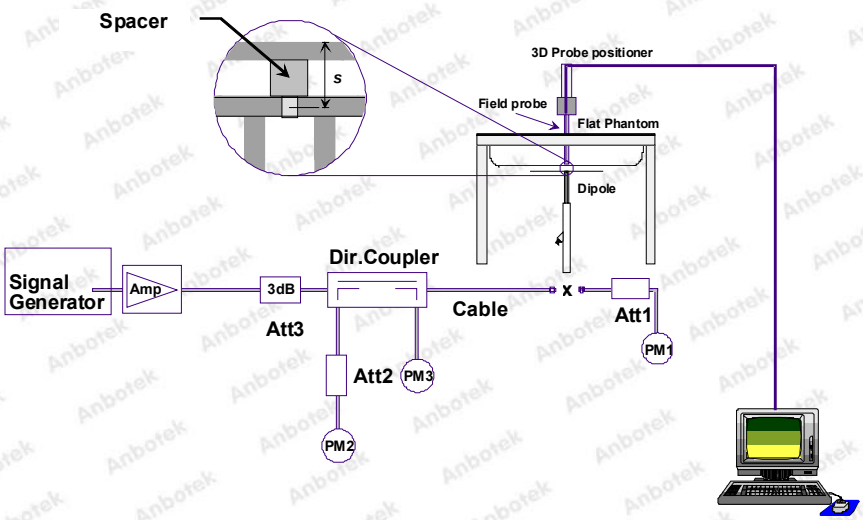
Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

➢ Purpose of System Performance check

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

➢ System Setup

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



System Setup for System Evaluation

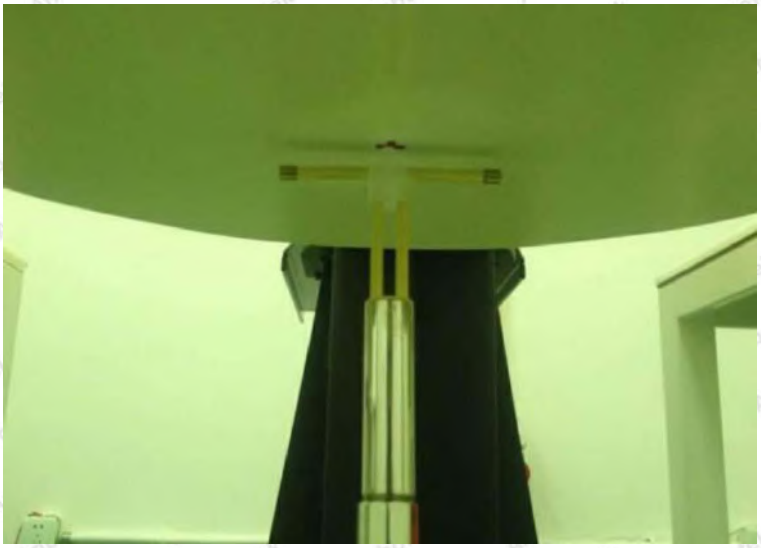


Photo of Dipole Setup

➢ Validation Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10%. The table below shows the target SAR and measured SAR after normalized to 1W input power. It indicates that the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Frequency (MHz)	Liquid Type	Power fed onto reference dipole (mW)	Targeted SAR (W/kg)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Deviation (%)	Date
850	Body	250	9.52	2.31	9.24	-0.54	09/09/2019
1900	Body	250	39.60	9.26	37.04	-6.46	09/11/2019
1750	Body	250	36.70	9.06	36.24	-1.25	09/13/2019
750	Body	250	8.51	2.31	8.33	2.12	09/15/2019
2600	Body	250	54.10	13.72	54.88	1.44	09/23/2019
2450	Body	250	51.10	12.10	48.40	-5.28	09/24/2019

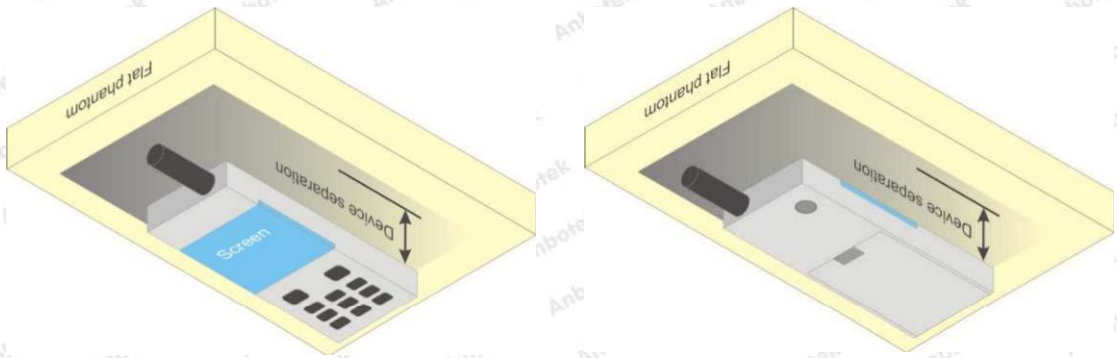
Target and Measurement SAR after Normalized

8. EUT Testing Position

8.1. Body Worn Position

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

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



Body Worn Position

9. Measurement Procedures

The measurement procedures are as follows:

(a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the middle channel.
(b) Keep EUT to radiate maximum output power or 100% duty factor (if applicable)
(c) Measure output power through RF cable and power meter.
(d) Place the EUT in the positions as setup photos demonstrates.
(e) Set scan area, grid size and other setting on the DASY software.
(f) Measure SAR transmitting at the middle channel for all applicable exposure positions.
(g) Identify the exposure position and device configuration resulting the highest SAR
(h) Measure SAR at the lowest and highest channels at the worst exposure position and device configuration if applicable.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

(a) Power reference measurement
(b) Area scan
(c) Zoom scan
(d) Power drift measurement

9. 1. Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

(a) Extraction of the measured data (grid and values) from the Zoom Scan
(b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
(c) Generation of a high-resolution mesh within the measured volume
(d) Interpolation of all measured values form the measurement grid to the high-resolution grid
(e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from

sensor to surface

(f) Calculation of the averaged SAR within masses of 1g and 10g

9. 2. Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

9. 3. Area Scan Procedures

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

9. 4. Zoom Scan Procedures

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

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

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

9.5. Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

9.6. Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.

10. Conducted Power

<GSM Conducted power>

GSM850	Burst Average Power (dBm)			Frame-Average Power (dBm)		
TX Channel	128	190	251	128	190	251
Frequency (MHz)	824.2	836.6	848.6	824.2	836.6	848.6
GSM (GMSK, 1 Tx slot)	30.52	30.68	30.71	21.49	21.68	21.68
GPRS (GMSK, 1 Tx slot) – CS1	29.76	29.75	30.08	20.73	21.05	21.05
GPRS (GMSK, 2 Tx slots) – CS1	27.17	27.23	27.62	21.15	21.21	21.60
GPRS (GMSK, 3 Tx slots) – CS1	25.89	26.02	26.01	**21.63**	**21.76**	**21.75**
GPRS (GMSK, 4 Tx slots) – CS1	24.44	24.57	24.58	21.43	21.56	21.57
EGPRS (GMSK, 1 Tx slot) – CS1	26.73	26.66	26.62	17.70	17.59	17.59
EGPRS (GMSK, 2 Tx slots) – CS1	26.46	26.45	26.47	20.44	20.43	20.45
EGPRS (GMSK, 3 Tx slots) – CS1	26.22	26.14	26.14	21.96	21.88	21.88
EGPRS (GMSK, 4 Tx slots) – CS1	25.92	25.73	25.94	22.91	22.72	22.93
PCS1900	Burst Average Power (dBm)			Frame-Average Power (dBm)		
TX Channel	512	661	810	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8
GSM (GMSK, 1 Tx slot)	29.84	29.12	29.17	20.81	20.09	20.14
GPRS (GMSK, 1 Tx slot) – CS1	28.78	28.46	28.23	19.75	19.43	19.20
GPRS (GMSK, 2 Tx slots) – CS1	28.64	28.34	28.12	**22.62**	**22.32**	**22.10**
GPRS (GMSK, 3 Tx slots) – CS1	26.28	26.42	26.09	22.02	22.16	21.83
GPRS (GMSK, 4 Tx slots) – CS1	25.04	25.10	24.75	22.03	22.09	21.74
EGPRS (GMSK, 1 Tx slot) – CS1	28.47	28.28	27.99	19.44	19.25	18.96
EGPRS (GMSK, 2 Tx slots) – CS1	28.37	28.30	27.95	22.35	22.28	21.93
EGPRS (GMSK, 3 Tx slots) – CS1	28.24	28.16	27.74	23.98	23.90	23.48
EGPRS (GMSK, 4 Tx slots) – CS1	28.09	28.04	27.63	25.08	25.03	24.62

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) – 9.03 dB

Frame-averaged power = Maximum burst averaged power (2 Tx Slots) – 6.02 dB

Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB

Frame-averaged power = Maximum burst averaged power (4 Tx Slots) – 3.01 dB

Note:

1. Per KDB 447498 D01, the maximum output power channel is used for SAR testing and for further SAR test reduction
2. For Head SAR testing, GSM should be evaluated, therefore the EUT was set in GSM Voice for GSM850and PCS1900.
3. For Body SAR testing, GPRS should be evaluated, therefore the EUT was set inGPRS 3 Tx slots for GSM850and GPRS 2 Tx slots for PCS1900 due to its highest frame-average power.

<WCDMA Conducted Power>

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

HSDPA Setup Configuration:

a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting:
   i. Set Gain Factors (β_c and β_d) and parameters were set according to each
   ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
   iii. Set RMC 12.2Kbps + HSDPA mode.
   iv. Set Cell Power = -86 dBm
   v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
   vi. Select HSDPA Uplink Parameters
   vii. Set Delta ACK, Delta NACK and Delta CQI = 8
   viii. Set Ack-Nack Repetition Factor to 3
   ix. Set CQI Feedback Cycle (k) to 4 ms
   x. Set CQI Repetition Factor to 2
   xi. Power Ctrl Mode = All Up bits
d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

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

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and Δ_{NACK} = 30/15 with β_{hs} = 30/15 * β_c, and Δ_{CQI} = 24/15 with β_{hs} = 24/15 * β_c.

Note 3: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15.

Setup Configuration

HSUPA Setup Configuration:

a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.

b. The RF path losses were compensated into the measurements.

c. A call was established between EUT and Base Station with following setting * :

i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK

ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121

iii. Set Cell Power = -86 dBm

iv. Set Channel Type = 12.2k + HSPA

v. Set UE Target Power

vi. Power Ctrl Mode= Alternating bits

vii. Set and observe the E-TFCI

viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI

d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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

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

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

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

Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

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

Setup Configuration

<WCDMA Conducted Power>

Band	WCDMA Band 2			WCDMA Band 5		
TX Channel	9262	9400	9538	4132	4183	4233
Frequency (MHz)	1852.4	1880.0	1907.6	826.4	836.6	846.6
RMC 12.2Kbps	22.83	**23.28**	23.08	20.59	20.73	**20.87**
HSDPA Subtest-1	22.13	22.01	22.13	20.76	20.28	21.67
HSDPA Subtest-2	20.98	21.21	22.12	20.79	22.01	20.90
HSDPA Subtest-3	21.60	20.26	20.51	20.34	21.04	22.73
HSDPA Subtest-4	22.41	21.33	20.83	21.35	21.31	21.05
HSUPA Subtest-1	20.29	21.78	20.40	20.44	21.03	21.75
HSUPA Subtest-2	21.25	20.97	20.58	20.54	21.39	20.44
HSUPA Subtest-3	21.60	20.78	21.12	20.23	21.26	20.70
HSUPA Subtest-4	21.32	21.55	20.78	21.46	21.29	20.84
HSUPA Subtest-5	21.26	20.96	21.39	20.53	20.39	21.81

General Note

1. Per KDB 941225 D01 v02, RMC 12.2kbps setting is used to evaluate SAR. If AMR 12.2kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2kbps can be excluded.
2. By design, AMR and HSDPA/HSUPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.
3. It is expected by the manufacturer that MPR for some HSDPA/HSUPA subtests may differ from the specification of 3GPP, according to the chipset implementation in this model. The implementation and expected deviation are detailed in tune-up procedure exhibit.

<LTE Conducted Power>

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	24.46	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	24.45	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	24.50	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	24.20	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	24.23	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	24.12	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	23.22	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	24.13	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	24.48	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	24.51	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	24.36	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	24.26	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	24.41	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	23.33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	24.46	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	24.70	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	24.45	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	24.69	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	24.91	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	24.66	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	23.73	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	23.86	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	23.83	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	23.58	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	24.27	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	24.06	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	24.08	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	22.41	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	23.20	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	23.45	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	23.20	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	24.33	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	24.38	PASS

Band2	1.4MHz	16QAM	18900	3RB#3	24.34	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	22.36	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	23.64	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	23.90	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	24.02	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	24.67	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	24.65	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	24.65	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	23.03	PASS
Band2	3MHz	QPSK	18615	1RB#0	24.31	PASS
Band2	3MHz	QPSK	18615	1RB#8	24.36	PASS
Band2	3MHz	QPSK	18615	1RB#14	24.42	PASS
Band2	3MHz	QPSK	18615	8RB#4	22.88	PASS
Band2	3MHz	QPSK	18615	8RB#0	23.15	PASS
Band2	3MHz	QPSK	18615	8RB#7	23.80	PASS
Band2	3MHz	QPSK	18615	15RB#0	23.16	PASS
Band2	3MHz	QPSK	18900	1RB#8	24.22	PASS
Band2	3MHz	QPSK	18900	1RB#14	24.41	PASS
Band2	3MHz	QPSK	18900	1RB#0	24.31	PASS
Band2	3MHz	QPSK	18900	8RB#0	23.09	PASS
Band2	3MHz	QPSK	18900	8RB#7	23.49	PASS
Band2	3MHz	QPSK	18900	8RB#4	23.35	PASS
Band2	3MHz	QPSK	18900	15RB#0	23.38	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.78	PASS
Band2	3MHz	QPSK	19185	1RB#0	24.56	PASS
Band2	3MHz	QPSK	19185	1RB#8	24.22	PASS
Band2	3MHz	QPSK	19185	8RB#4	23.44	PASS
Band2	3MHz	QPSK	19185	8RB#0	23.91	PASS
Band2	3MHz	QPSK	19185	8RB#7	22.98	PASS
Band2	3MHz	QPSK	19185	15RB#0	24.06	PASS
Band2	3MHz	16QAM	18615	1RB#14	23.12	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.86	PASS
Band2	3MHz	16QAM	18615	1RB#0	23.23	PASS
Band2	3MHz	16QAM	18615	8RB#7	23.13	PASS
Band2	3MHz	16QAM	18615	8RB#4	23.05	PASS
Band2	3MHz	16QAM	18615	8RB#0	23.13	PASS

Band2	3MHz	16QAM	18615	15RB#0	22.12	PASS
Band2	3MHz	16QAM	18900	1RB#8	23.34	PASS
Band2	3MHz	16QAM	18900	1RB#14	23.25	PASS
Band2	3MHz	16QAM	18900	1RB#0	23.35	PASS
Band2	3MHz	16QAM	18900	8RB#0	23.10	PASS
Band2	3MHz	16QAM	18900	8RB#7	23.25	PASS
Band2	3MHz	16QAM	18900	8RB#4	23.47	PASS
Band2	3MHz	16QAM	18900	15RB#0	22.36	PASS
Band2	3MHz	16QAM	19185	1RB#0	23.74	PASS
Band2	3MHz	16QAM	19185	1RB#8	23.62	PASS
Band2	3MHz	16QAM	19185	1RB#14	23.06	PASS
Band2	3MHz	16QAM	19185	8RB#0	23.83	PASS
Band2	3MHz	16QAM	19185	8RB#4	23.50	PASS
Band2	3MHz	16QAM	19185	8RB#7	22.96	PASS
Band2	3MHz	16QAM	19185	15RB#0	22.76	PASS
Band2	5MHz	QPSK	18625	1RB#24	24.32	PASS
Band2	5MHz	QPSK	18625	1RB#12	24.25	PASS
Band2	5MHz	QPSK	18625	1RB#0	24.30	PASS
Band2	5MHz	QPSK	18625	12RB#0	23.19	PASS
Band2	5MHz	QPSK	18625	12RB#6	23.25	PASS
Band2	5MHz	QPSK	18625	12RB#13	23.20	PASS
Band2	5MHz	QPSK	18625	25RB#0	23.10	PASS
Band2	5MHz	QPSK	18900	1RB#24	24.41	PASS
Band2	5MHz	QPSK	18900	1RB#12	24.23	PASS
Band2	5MHz	QPSK	18900	1RB#0	24.37	PASS
Band2	5MHz	QPSK	18900	12RB#6	23.32	PASS
Band2	5MHz	QPSK	18900	12RB#0	23.21	PASS
Band2	5MHz	QPSK	18900	12RB#13	23.10	PASS
Band2	5MHz	QPSK	18900	25RB#0	23.31	PASS
Band2	5MHz	QPSK	19175	1RB#24	24.61	PASS
Band2	5MHz	QPSK	19175	1RB#12	24.50	PASS
Band2	5MHz	QPSK	19175	1RB#0	24.57	PASS
Band2	5MHz	QPSK	19175	12RB#6	23.81	PASS
Band2	5MHz	QPSK	19175	12RB#13	23.77	PASS
Band2	5MHz	QPSK	19175	12RB#0	23.80	PASS
Band2	5MHz	QPSK	19175	25RB#0	23.85	PASS

Band2	5MHz	16QAM	18625	1RB#0	23.56	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.93	PASS
Band2	5MHz	16QAM	18625	1RB#24	23.00	PASS
Band2	5MHz	16QAM	18625	12RB#0	23.17	PASS
Band2	5MHz	16QAM	18625	12RB#6	23.23	PASS
Band2	5MHz	16QAM	18625	12RB#13	23.19	PASS
Band2	5MHz	16QAM	18625	25RB#0	22.26	PASS
Band2	5MHz	16QAM	18900	1RB#24	23.69	PASS
Band2	5MHz	16QAM	18900	1RB#12	23.33	PASS
Band2	5MHz	16QAM	18900	1RB#0	23.53	PASS
Band2	5MHz	16QAM	18900	12RB#0	23.32	PASS
Band2	5MHz	16QAM	18900	12RB#6	23.31	PASS
Band2	5MHz	16QAM	18900	12RB#13	23.48	PASS
Band2	5MHz	16QAM	18900	25RB#0	22.42	PASS
Band2	5MHz	16QAM	19175	1RB#12	23.23	PASS
Band2	5MHz	16QAM	19175	1RB#0	23.51	PASS
Band2	5MHz	16QAM	19175	1RB#24	23.24	PASS
Band2	5MHz	16QAM	19175	12RB#6	23.80	PASS
Band2	5MHz	16QAM	19175	12RB#13	23.72	PASS
Band2	5MHz	16QAM	19175	12RB#0	23.73	PASS
Band2	5MHz	16QAM	19175	25RB#0	22.81	PASS
Band2	10MHz	QPSK	18650	1RB#49	24.39	PASS
Band2	10MHz	QPSK	18650	1RB#0	24.14	PASS
Band2	10MHz	QPSK	18650	1RB#24	24.12	PASS
Band2	10MHz	QPSK	18650	25RB#25	23.21	PASS
Band2	10MHz	QPSK	18650	25RB#0	23.39	PASS
Band2	10MHz	QPSK	18650	25RB#12	23.35	PASS
Band2	10MHz	QPSK	18650	50RB#0	23.31	PASS
Band2	10MHz	QPSK	18900	1RB#0	24.49	PASS
Band2	10MHz	QPSK	18900	1RB#24	24.73	PASS
Band2	10MHz	QPSK	18900	1RB#49	24.72	PASS
Band2	10MHz	QPSK	18900	25RB#0	23.45	PASS
Band2	10MHz	QPSK	18900	25RB#12	23.48	PASS
Band2	10MHz	QPSK	18900	25RB#25	23.65	PASS
Band2	10MHz	QPSK	18900	50RB#0	23.49	PASS
Band2	10MHz	QPSK	19150	1RB#0	24.49	PASS

Band2	10MHz	QPSK	19150	1RB#24	24.57	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.77	PASS
Band2	10MHz	QPSK	19150	25RB#12	23.93	PASS
Band2	10MHz	QPSK	19150	25RB#25	23.82	PASS
Band2	10MHz	QPSK	19150	25RB#0	24.03	PASS
Band2	10MHz	QPSK	19150	50RB#0	23.92	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.24	PASS
Band2	10MHz	16QAM	18650	1RB#49	23.61	PASS
Band2	10MHz	16QAM	18650	1RB#0	23.43	PASS
Band2	10MHz	16QAM	18650	25RB#0	23.36	PASS
Band2	10MHz	16QAM	18650	25RB#12	23.34	PASS
Band2	10MHz	16QAM	18650	25RB#25	23.21	PASS
Band2	10MHz	16QAM	18650	50RB#0	22.44	PASS
Band2	10MHz	16QAM	18900	1RB#24	23.96	PASS
Band2	10MHz	16QAM	18900	1RB#0	23.78	PASS
Band2	10MHz	16QAM	18900	1RB#49	24.38	PASS
Band2	10MHz	16QAM	18900	25RB#12	23.48	PASS
Band2	10MHz	16QAM	18900	25RB#25	23.63	PASS
Band2	10MHz	16QAM	18900	25RB#0	23.48	PASS
Band2	10MHz	16QAM	18900	50RB#0	22.52	PASS
Band2	10MHz	16QAM	19150	1RB#49	23.09	PASS
Band2	10MHz	16QAM	19150	1RB#0	23.81	PASS
Band2	10MHz	16QAM	19150	1RB#24	23.88	PASS
Band2	10MHz	16QAM	19150	25RB#25	23.98	PASS
Band2	10MHz	16QAM	19150	25RB#12	23.93	PASS
Band2	10MHz	16QAM	19150	25RB#0	23.95	PASS
Band2	10MHz	16QAM	19150	50RB#0	22.79	PASS
Band2	15MHz	QPSK	18675	1RB#74	24.22	PASS
Band2	15MHz	QPSK	18675	1RB#0	24.15	PASS
Band2	15MHz	QPSK	18675	1RB#38	24.07	PASS
Band2	15MHz	QPSK	18675	38RB#0	23.06	PASS
Band2	15MHz	QPSK	18675	38RB#37	22.75	PASS
Band2	15MHz	QPSK	18675	38RB#18	23.15	PASS
Band2	15MHz	QPSK	18675	75RB#0	23.16	PASS
Band2	15MHz	QPSK	18900	1RB#38	24.13	PASS
Band2	15MHz	QPSK	18900	1RB#74	24.22	PASS

Band2	15MHz	QPSK	18900	1RB#0	24.38	PASS
Band2	15MHz	QPSK	18900	38RB#18	23.61	PASS
Band2	15MHz	QPSK	18900	38RB#0	24.34	PASS
Band2	15MHz	QPSK	18900	38RB#37	24.14	PASS
Band2	15MHz	QPSK	18900	75RB#0	23.52	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.77	PASS
Band2	15MHz	QPSK	19125	1RB#38	24.46	PASS
Band2	15MHz	QPSK	19125	1RB#0	24.22	PASS
Band2	15MHz	QPSK	19125	38RB#18	23.48	PASS
Band2	15MHz	QPSK	19125	38RB#0	23.60	PASS
Band2	15MHz	QPSK	19125	38RB#37	23.12	PASS
Band2	15MHz	QPSK	19125	75RB#0	23.87	PASS
Band2	15MHz	16QAM	18675	1RB#38	23.36	PASS
Band2	15MHz	16QAM	18675	1RB#0	23.18	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.83	PASS
Band2	15MHz	16QAM	18675	38RB#37	22.76	PASS
Band2	15MHz	16QAM	18675	38RB#18	23.23	PASS
Band2	15MHz	16QAM	18675	38RB#0	23.02	PASS
Band2	15MHz	16QAM	18675	75RB#0	22.15	PASS
Band2	15MHz	16QAM	18900	1RB#0	23.69	PASS
Band2	15MHz	16QAM	18900	1RB#38	23.77	PASS
Band2	15MHz	16QAM	18900	1RB#74	24.17	PASS
Band2	15MHz	16QAM	18900	38RB#0	24.30	PASS
Band2	15MHz	16QAM	18900	38RB#18	23.59	PASS
Band2	15MHz	16QAM	18900	38RB#37	23.85	PASS
Band2	15MHz	16QAM	18900	75RB#0	22.47	PASS
Band2	15MHz	16QAM	19125	1RB#0	23.58	PASS
Band2	15MHz	16QAM	19125	1RB#38	23.57	PASS
Band2	15MHz	16QAM	19125	1RB#74	23.10	PASS
Band2	15MHz	16QAM	19125	38RB#0	23.48	PASS
Band2	15MHz	16QAM	19125	38RB#18	23.49	PASS
Band2	15MHz	16QAM	19125	38RB#37	23.08	PASS
Band2	15MHz	16QAM	19125	75RB#0	22.88	PASS
Band2	20MHz	QPSK	18700	1RB#0	24.17	PASS
Band2	20MHz	QPSK	18700	1RB#49	24.66	PASS
Band2	20MHz	QPSK	18700	1RB#99	24.56	PASS

Band2	20MHz	QPSK	18700	50RB#0	23.18	PASS
Band2	20MHz	QPSK	18700	50RB#25	23.18	PASS
Band2	20MHz	QPSK	18700	50RB#50	23.30	PASS
Band2	20MHz	QPSK	18700	100RB#0	23.21	PASS
Band2	20MHz	QPSK	18900	1RB#0	24.10	PASS
Band2	20MHz	QPSK	18900	1RB#99	24.62	PASS
Band2	20MHz	QPSK	18900	1RB#49	24.54	PASS
Band2	20MHz	QPSK	18900	50RB#25	23.39	PASS
Band2	20MHz	QPSK	18900	50RB#50	23.69	PASS
Band2	20MHz	QPSK	18900	50RB#0	23.31	PASS
Band2	20MHz	QPSK	18900	100RB#0	23.52	PASS
Band2	20MHz	QPSK	19100	1RB#0	24.75	PASS
Band2	20MHz	QPSK	19100	1RB#49	**24.82**	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.92	PASS
Band2	20MHz	QPSK	19100	50RB#25	23.86	PASS
Band2	20MHz	QPSK	19100	50RB#50	23.81	PASS
Band2	20MHz	QPSK	19100	50RB#0	23.87	PASS
Band2	20MHz	QPSK	19100	100RB#0	23.86	PASS
Band2	20MHz	16QAM	18700	1RB#99	23.69	PASS
Band2	20MHz	16QAM	18700	1RB#0	23.57	PASS
Band2	20MHz	16QAM	18700	1RB#49	23.88	PASS
Band2	20MHz	16QAM	18700	50RB#50	23.29	PASS
Band2	20MHz	16QAM	18700	50RB#25	23.16	PASS
Band2	20MHz	16QAM	18700	50RB#0	23.27	PASS
Band2	20MHz	16QAM	18700	100RB#0	22.27	PASS
Band2	20MHz	16QAM	18900	1RB#0	23.26	PASS
Band2	20MHz	16QAM	18900	1RB#49	23.27	PASS
Band2	20MHz	16QAM	18900	1RB#99	23.50	PASS
Band2	20MHz	16QAM	18900	50RB#0	23.39	PASS
Band2	20MHz	16QAM	18900	50RB#25	23.45	PASS
Band2	20MHz	16QAM	18900	50RB#50	23.66	PASS
Band2	20MHz	16QAM	18900	100RB#0	22.53	PASS
Band2	20MHz	16QAM	19100	1RB#0	24.08	PASS
Band2	20MHz	16QAM	19100	1RB#49	24.21	PASS
Band2	20MHz	16QAM	19100	1RB#99	23.09	PASS
Band2	20MHz	16QAM	19100	50RB#0	23.86	PASS

Band2	20MHz	16QAM	19100	50RB#25	23.85	PASS
Band2	20MHz	16QAM	19100	50RB#50	23.78	PASS
Band2	20MHz	16QAM	19100	100RB#0	22.92	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	25.29	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	24.96	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	25.21	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	25.19	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	25.32	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	25.30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	24.12	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	25.22	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	25.26	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	25.26	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	25.09	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	25.08	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	25.05	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	24.02	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	24.47	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	24.50	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	24.64	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	24.63	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	24.83	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	24.71	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	23.63	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	24.41	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	24.09	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.86	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	25.17	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	25.29	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	25.27	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	23.15	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	24.12	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	24.39	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	24.39	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	24.98	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	25.07	PASS

Band4	1.4MHz	16QAM	20175	3RB#0	25.11	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	23.58	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.59	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	23.32	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	23.25	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	24.55	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	24.81	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	24.64	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	22.58	PASS
Band4	3MHz	QPSK	19965	1RB#0	25.27	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.77	PASS
Band4	3MHz	QPSK	19965	1RB#14	25.03	PASS
Band4	3MHz	QPSK	19965	8RB#0	24.09	PASS
Band4	3MHz	QPSK	19965	8RB#4	23.57	PASS
Band4	3MHz	QPSK	19965	8RB#7	24.19	PASS
Band4	3MHz	QPSK	19965	15RB#0	24.23	PASS
Band4	3MHz	QPSK	20175	1RB#14	24.83	PASS
Band4	3MHz	QPSK	20175	1RB#0	24.90	PASS
Band4	3MHz	QPSK	20175	1RB#8	24.99	PASS
Band4	3MHz	QPSK	20175	8RB#0	23.92	PASS
Band4	3MHz	QPSK	20175	8RB#4	23.54	PASS
Band4	3MHz	QPSK	20175	8RB#7	23.68	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.95	PASS
Band4	3MHz	QPSK	20385	1RB#0	24.70	PASS
Band4	3MHz	QPSK	20385	1RB#14	24.61	PASS
Band4	3MHz	QPSK	20385	1RB#8	24.45	PASS
Band4	3MHz	QPSK	20385	8RB#7	23.19	PASS
Band4	3MHz	QPSK	20385	8RB#4	23.40	PASS
Band4	3MHz	QPSK	20385	8RB#0	23.51	PASS
Band4	3MHz	QPSK	20385	15RB#0	23.54	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.92	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.85	PASS
Band4	3MHz	16QAM	19965	1RB#14	24.18	PASS
Band4	3MHz	16QAM	19965	8RB#7	24.16	PASS
Band4	3MHz	16QAM	19965	8RB#4	23.64	PASS
Band4	3MHz	16QAM	19965	8RB#0	24.08	PASS

Band4	3MHz	16QAM	19965	15RB#0	23.24	PASS
Band4	3MHz	16QAM	20175	1RB#14	23.74	PASS
Band4	3MHz	16QAM	20175	1RB#0	24.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.40	PASS
Band4	3MHz	16QAM	20175	8RB#4	23.54	PASS
Band4	3MHz	16QAM	20175	8RB#0	23.90	PASS
Band4	3MHz	16QAM	20175	8RB#7	23.68	PASS
Band4	3MHz	16QAM	20175	15RB#0	23.10	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.55	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.26	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.21	PASS
Band4	3MHz	16QAM	20385	8RB#4	23.21	PASS
Band4	3MHz	16QAM	20385	8RB#0	23.43	PASS
Band4	3MHz	16QAM	20385	8RB#7	23.19	PASS
Band4	3MHz	16QAM	20385	15RB#0	22.38	PASS
Band4	5MHz	QPSK	19975	1RB#24	25.19	PASS
Band4	5MHz	QPSK	19975	1RB#12	24.77	PASS
Band4	5MHz	QPSK	19975	1RB#0	25.11	PASS
Band4	5MHz	QPSK	19975	12RB#0	24.02	PASS
Band4	5MHz	QPSK	19975	12RB#6	24.23	PASS
Band4	5MHz	QPSK	19975	12RB#13	23.97	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.89	PASS
Band4	5MHz	QPSK	20175	1RB#24	25.45	PASS
Band4	5MHz	QPSK	20175	1RB#12	24.92	PASS
Band4	5MHz	QPSK	20175	1RB#0	25.15	PASS
Band4	5MHz	QPSK	20175	12RB#13	23.94	PASS
Band4	5MHz	QPSK	20175	12RB#0	24.11	PASS
Band4	5MHz	QPSK	20175	12RB#6	24.05	PASS
Band4	5MHz	QPSK	20175	25RB#0	24.07	PASS
Band4	5MHz	QPSK	20375	1RB#0	24.56	PASS
Band4	5MHz	QPSK	20375	1RB#12	24.84	PASS
Band4	5MHz	QPSK	20375	1RB#24	24.61	PASS
Band4	5MHz	QPSK	20375	12RB#6	23.69	PASS
Band4	5MHz	QPSK	20375	12RB#13	23.74	PASS
Band4	5MHz	QPSK	20375	12RB#0	23.63	PASS
Band4	5MHz	QPSK	20375	25RB#0	23.71	PASS

Band4	5MHz	16QAM	19975	1RB#24	23.95	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.50	PASS
Band4	5MHz	16QAM	19975	1RB#0	24.35	PASS
Band4	5MHz	16QAM	19975	12RB#0	24.32	PASS
Band4	5MHz	16QAM	19975	12RB#6	23.81	PASS
Band4	5MHz	16QAM	19975	12RB#13	24.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	23.07	PASS
Band4	5MHz	16QAM	20175	1RB#0	23.73	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.46	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.57	PASS
Band4	5MHz	16QAM	20175	12RB#6	24.04	PASS
Band4	5MHz	16QAM	20175	12RB#13	23.93	PASS
Band4	5MHz	16QAM	20175	12RB#0	24.07	PASS
Band4	5MHz	16QAM	20175	25RB#0	23.05	PASS
Band4	5MHz	16QAM	20375	1RB#0	23.57	PASS
Band4	5MHz	16QAM	20375	1RB#12	23.75	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.61	PASS
Band4	5MHz	16QAM	20375	12RB#0	23.70	PASS
Band4	5MHz	16QAM	20375	12RB#13	23.72	PASS
Band4	5MHz	16QAM	20375	12RB#6	23.78	PASS
Band4	5MHz	16QAM	20375	25RB#0	22.79	PASS
Band4	10MHz	QPSK	20000	1RB#0	25.29	PASS
Band4	10MHz	QPSK	20000	1RB#49	25.30	PASS
Band4	10MHz	QPSK	20000	1RB#24	25.33	PASS
Band4	10MHz	QPSK	20000	25RB#12	23.96	PASS
Band4	10MHz	QPSK	20000	25RB#0	24.14	PASS
Band4	10MHz	QPSK	20000	25RB#25	24.17	PASS
Band4	10MHz	QPSK	20000	50RB#0	24.02	PASS
Band4	10MHz	QPSK	20175	1RB#49	24.87	PASS
Band4	10MHz	QPSK	20175	1RB#0	25.09	PASS
Band4	10MHz	QPSK	20175	1RB#24	25.13	PASS
Band4	10MHz	QPSK	20175	25RB#25	24.07	PASS
Band4	10MHz	QPSK	20175	25RB#12	24.22	PASS
Band4	10MHz	QPSK	20175	25RB#0	24.29	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.93	PASS
Band4	10MHz	QPSK	20350	1RB#49	25.20	PASS

Band4	10MHz	QPSK	20350	1RB#24	24.95	PASS
Band4	10MHz	QPSK	20350	1RB#0	24.59	PASS
Band4	10MHz	QPSK	20350	25RB#12	23.75	PASS
Band4	10MHz	QPSK	20350	25RB#0	23.76	PASS
Band4	10MHz	QPSK	20350	25RB#25	23.72	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.71	PASS
Band4	10MHz	16QAM	20000	1RB#49	24.58	PASS
Band4	10MHz	16QAM	20000	1RB#24	24.32	PASS
Band4	10MHz	16QAM	20000	1RB#0	24.71	PASS
Band4	10MHz	16QAM	20000	25RB#12	23.93	PASS
Band4	10MHz	16QAM	20000	25RB#0	23.79	PASS
Band4	10MHz	16QAM	20000	25RB#25	24.21	PASS
Band4	10MHz	16QAM	20000	50RB#0	23.10	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.81	PASS
Band4	10MHz	16QAM	20175	1RB#0	24.08	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.63	PASS
Band4	10MHz	16QAM	20175	25RB#0	24.25	PASS
Band4	10MHz	16QAM	20175	25RB#25	23.96	PASS
Band4	10MHz	16QAM	20175	25RB#12	24.20	PASS
Band4	10MHz	16QAM	20175	50RB#0	23.18	PASS
Band4	10MHz	16QAM	20350	1RB#24	24.33	PASS
Band4	10MHz	16QAM	20350	1RB#49	24.01	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.57	PASS
Band4	10MHz	16QAM	20350	25RB#12	23.73	PASS
Band4	10MHz	16QAM	20350	25RB#0	23.75	PASS
Band4	10MHz	16QAM	20350	25RB#25	23.78	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.80	PASS
Band4	15MHz	QPSK	20025	1RB#74	21.98	PASS
Band4	15MHz	QPSK	20025	1RB#0	21.85	PASS
Band4	15MHz	QPSK	20025	1RB#38	21.87	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.00	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.01	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.14	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.03	PASS
Band4	15MHz	QPSK	20175	1RB#38	21.87	PASS
Band4	15MHz	QPSK	20175	1RB#74	21.73	PASS

Band4	15MHz	QPSK	20175	1RB#0	21.90	PASS
Band4	15MHz	QPSK	20175	38RB#37	20.89	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.06	PASS
Band4	15MHz	QPSK	20175	38RB#18	21.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.02	PASS
Band4	15MHz	QPSK	20325	1RB#0	21.81	PASS
Band4	15MHz	QPSK	20325	1RB#38	21.75	PASS
Band4	15MHz	QPSK	20325	1RB#74	21.68	PASS
Band4	15MHz	QPSK	20325	38RB#37	20.90	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.02	PASS
Band4	15MHz	QPSK	20325	38RB#18	20.97	PASS
Band4	15MHz	QPSK	20325	75RB#0	20.83	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.15	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.02	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.00	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.00	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.01	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.15	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.59	PASS
Band4	15MHz	16QAM	20175	1RB#74	20.90	PASS
Band4	15MHz	16QAM	20175	1RB#38	20.99	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.05	PASS
Band4	15MHz	16QAM	20175	38RB#37	20.90	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.05	PASS
Band4	15MHz	16QAM	20175	38RB#18	21.01	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.38	PASS
Band4	15MHz	16QAM	20325	1RB#74	20.90	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.03	PASS
Band4	15MHz	16QAM	20325	1RB#38	20.98	PASS
Band4	15MHz	16QAM	20325	38RB#18	20.97	PASS
Band4	15MHz	16QAM	20325	38RB#37	20.91	PASS
Band4	15MHz	16QAM	20325	38RB#0	21.03	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.49	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.10	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.12	PASS
Band4	20MHz	QPSK	20050	1RB#99	**22.25**	PASS

Band4	20MHz	QPSK	20050	50RB#50	21.15	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.02	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.02	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.09	PASS
Band4	20MHz	QPSK	20175	1RB#99	21.93	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.08	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.08	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.04	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.03	PASS
Band4	20MHz	QPSK	20175	50RB#50	20.94	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.04	PASS
Band4	20MHz	QPSK	20300	1RB#49	21.94	PASS
Band4	20MHz	QPSK	20300	1RB#99	21.84	PASS
Band4	20MHz	QPSK	20300	50RB#25	20.89	PASS
Band4	20MHz	QPSK	20300	50RB#0	20.89	PASS
Band4	20MHz	QPSK	20300	50RB#50	20.83	PASS
Band4	20MHz	QPSK	20300	100RB#0	20.86	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.11	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.21	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.07	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.02	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.03	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.14	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.46	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.03	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.07	PASS
Band4	20MHz	16QAM	20175	1RB#99	20.91	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.04	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.04	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.93	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.99	PASS
Band4	20MHz	16QAM	20300	1RB#99	20.94	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.03	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.12	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.83	PASS

Band4	20MHz	16QAM	20300	50RB#25	20.89	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.89	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.06	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	23.22	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.20	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.27	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.24	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.26	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.23	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.24	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.27	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.28	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.31	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.33	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.31	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.34	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.30	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.44	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.51	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.49	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.51	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.50	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.47	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.37	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.34	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.31	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	23.23	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.24	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	23.25	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.10	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.51	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.38	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.38	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.34	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.33	PASS

Band5	1.4MHz	16QAM	20525	3RB#3	23.33	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.34	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.51	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.57	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.49	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.52	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	23.50	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	23.49	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.33	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.19	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.18	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.23	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.35	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.31	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.38	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.27	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.29	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.32	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.27	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.44	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.42	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.46	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.35	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.49	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.47	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.46	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.56	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.56	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.50	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.51	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.33	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.35	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.38	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.35	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.31	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.38	PASS

Band5	3MHz	16QAM	20415	15RB#0	21.28	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.43	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.42	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.42	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.44	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.46	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.39	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.49	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.56	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.56	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.56	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.56	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.49	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.44	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.27	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.36	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.37	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.34	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.34	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.35	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.29	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.41	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.44	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.48	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.42	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.46	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.44	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.38	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.64	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.54	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.51	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.58	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.55	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.58	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.52	PASS

Band5	5MHz	16QAM	20425	1RB#0	22.38	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.34	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.27	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.34	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.35	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.35	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.30	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.41	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.44	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.42	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.46	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.44	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.40	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.81	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.71	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.64	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.57	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.55	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.59	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.47	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.36	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.31	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.33	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.34	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.33	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.35	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.34	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.44	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.38	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.46	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.40	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.43	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.41	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.42	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.50	PASS

Band5	10MHz	QPSK	20600	1RB#0	23.53	PASS
Band5	10MHz	QPSK	20600	1RB#24	**23.60**	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.53	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.53	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.53	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.53	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.49	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.55	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.50	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.34	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.33	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.35	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.33	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.55	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.57	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.59	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.40	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.43	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.40	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.44	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.41	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.51	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.41	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.53	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.54	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.54	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.53	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.99	PASS
Band7	5MHz	QPSK	20775	1RB#0	23.29	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.94	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.95	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.97	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.01	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.02	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.38	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.38	PASS

Band7	5MHz	QPSK	21100	1RB#24	23.16	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.18	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.18	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.19	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.37	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.80	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.91	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.85	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.91	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.93	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.93	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.97	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.77	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.47	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.50	PASS
Band7	5MHz	16QAM	20775	12RB#6	22.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.99	PASS
Band7	5MHz	16QAM	20775	12RB#0	22.04	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.15	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.94	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.11	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.52	PASS
Band7	5MHz	16QAM	21100	12RB#6	22.18	PASS
Band7	5MHz	16QAM	21100	12RB#13	22.18	PASS
Band7	5MHz	16QAM	21100	12RB#0	22.19	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.23	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.72	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.06	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.74	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.92	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.90	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.92	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.13	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.99	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.11	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.45	PASS

Band7	10MHz	QPSK	20800	25RB#0	22.12	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.10	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.21	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.16	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.21	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.19	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.72	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.28	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.47	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.29	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.09	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.03	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.92	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.05	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.87	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.95	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.96	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.95	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.57	PASS
Band7	10MHz	16QAM	20800	25RB#12	22.09	PASS
Band7	10MHz	16QAM	20800	25RB#0	22.10	PASS
Band7	10MHz	16QAM	20800	25RB#25	22.11	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.04	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.09	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.44	PASS
Band7	10MHz	16QAM	21100	25RB#25	22.46	PASS
Band7	10MHz	16QAM	21100	25RB#12	22.28	PASS
Band7	10MHz	16QAM	21100	25RB#0	22.27	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.32	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.95	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.50	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.83	PASS
Band7	10MHz	16QAM	21400	25RB#25	22.03	PASS

Band7	10MHz	16QAM	21400	25RB#0	21.91	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.92	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.93	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.19	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.13	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.25	PASS
Band7	15MHz	QPSK	20825	38RB#37	22.41	PASS
Band7	15MHz	QPSK	20825	38RB#0	23.04	PASS
Band7	15MHz	QPSK	20825	38RB#18	22.40	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.07	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.17	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.23	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.95	PASS
Band7	15MHz	QPSK	21100	38RB#37	21.98	PASS
Band7	15MHz	QPSK	21100	38RB#18	22.15	PASS
Band7	15MHz	QPSK	21100	38RB#0	21.89	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.16	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.80	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.90	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.89	PASS
Band7	15MHz	QPSK	21375	38RB#37	21.95	PASS
Band7	15MHz	QPSK	21375	38RB#18	21.77	PASS
Band7	15MHz	QPSK	21375	38RB#0	21.62	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.85	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.48	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.35	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.40	PASS
Band7	15MHz	16QAM	20825	38RB#0	23.02	PASS
Band7	15MHz	16QAM	20825	38RB#18	22.33	PASS
Band7	15MHz	16QAM	20825	38RB#37	22.40	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.12	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.80	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.09	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.22	PASS
Band7	15MHz	16QAM	21100	38RB#37	21.99	PASS
Band7	15MHz	16QAM	21100	38RB#18	22.15	PASS

Band7	15MHz	16QAM	21100	38RB#0	21.98	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.16	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.90	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.72	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.88	PASS
Band7	15MHz	16QAM	21375	38RB#0	21.66	PASS
Band7	15MHz	16QAM	21375	38RB#18	21.76	PASS
Band7	15MHz	16QAM	21375	38RB#37	21.96	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.97	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.16	PASS
Band7	20MHz	QPSK	20850	1RB#0	**23.35**	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.20	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.22	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.21	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.30	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.75	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.41	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.85	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.08	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.24	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.26	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.12	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.13	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.73	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.09	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.86	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.90	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.07	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.94	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.66	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.67	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.51	PASS
Band7	20MHz	16QAM	20850	50RB#25	22.21	PASS
Band7	20MHz	16QAM	20850	50RB#50	22.29	PASS
Band7	20MHz	16QAM	20850	50RB#0	22.22	PASS

Band7	20MHz	16QAM	20850	100RB#0	21.37	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.93	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.23	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.30	PASS
Band7	20MHz	16QAM	21100	50RB#50	22.09	PASS
Band7	20MHz	16QAM	21100	50RB#25	22.23	PASS
Band7	20MHz	16QAM	21100	50RB#0	22.25	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.22	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.35	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.21	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.09	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.87	PASS
Band7	20MHz	16QAM	21350	50RB#50	22.02	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.93	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.08	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	24.05	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.28	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.24	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.00	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	24.03	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	24.16	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.06	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.01	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.97	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.09	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	24.01	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.03	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	24.04	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.84	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.11	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.14	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	24.01	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	24.11	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	24.32	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.10	PASS

Band12	1.4MHz	16QAM	23017	1RB#0	23.21	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.46	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.27	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	24.14	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	23.97	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	24.12	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.33	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.94	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.03	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.82	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	24.25	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	24.01	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	23.98	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.86	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.23	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.33	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.09	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	24.00	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	24.05	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	24.02	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.18	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.27	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.37	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.34	PASS
Band12	3MHz	QPSK	23025	8RB#4	23.47	PASS
Band12	3MHz	QPSK	23025	8RB#7	23.49	PASS
Band12	3MHz	QPSK	23025	8RB#0	23.47	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.29	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.16	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.51	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.43	PASS
Band12	3MHz	QPSK	23095	8RB#7	23.97	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.35	PASS
Band12	3MHz	QPSK	23095	8RB#4	23.58	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.20	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.24	PASS

Band12	3MHz	QPSK	23165	1RB#14	24.22	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.78	PASS
Band12	3MHz	QPSK	23165	8RB#7	23.08	PASS
Band12	3MHz	QPSK	23165	8RB#0	23.22	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.96	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.23	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.47	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.55	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.47	PASS
Band12	3MHz	16QAM	23025	8RB#7	23.50	PASS
Band12	3MHz	16QAM	23025	8RB#4	23.50	PASS
Band12	3MHz	16QAM	23025	8RB#0	23.62	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.13	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.87	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.58	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.25	PASS
Band12	3MHz	16QAM	23095	8RB#0	23.66	PASS
Band12	3MHz	16QAM	23095	8RB#4	23.56	PASS
Band12	3MHz	16QAM	23095	8RB#7	23.95	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.25	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.13	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.40	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.95	PASS
Band12	3MHz	16QAM	23165	8RB#0	23.23	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.97	PASS
Band12	3MHz	16QAM	23165	8RB#7	23.07	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.15	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.35	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.11	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.40	PASS
Band12	5MHz	QPSK	23035	12RB#6	23.27	PASS
Band12	5MHz	QPSK	23035	12RB#0	23.38	PASS
Band12	5MHz	QPSK	23035	12RB#13	23.11	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.28	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.20	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.27	PASS

Band12	5MHz	QPSK	23095	1RB#0	24.19	PASS
Band12	5MHz	QPSK	23095	12RB#0	23.20	PASS
Band12	5MHz	QPSK	23095	12RB#6	23.20	PASS
Band12	5MHz	QPSK	23095	12RB#13	23.27	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.22	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.12	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.19	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.32	PASS
Band12	5MHz	QPSK	23155	12RB#0	23.26	PASS
Band12	5MHz	QPSK	23155	12RB#6	23.26	PASS
Band12	5MHz	QPSK	23155	12RB#13	23.10	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.18	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.02	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.10	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.38	PASS
Band12	5MHz	16QAM	23035	12RB#6	23.27	PASS
Band12	5MHz	16QAM	23035	12RB#13	23.05	PASS
Band12	5MHz	16QAM	23035	12RB#0	23.28	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.29	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.15	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.38	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.31	PASS
Band12	5MHz	16QAM	23095	12RB#13	23.34	PASS
Band12	5MHz	16QAM	23095	12RB#6	23.26	PASS
Band12	5MHz	16QAM	23095	12RB#0	23.20	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.33	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.76	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.98	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.58	PASS
Band12	5MHz	16QAM	23155	12RB#13	23.11	PASS
Band12	5MHz	16QAM	23155	12RB#0	23.26	PASS
Band12	5MHz	16QAM	23155	12RB#6	23.26	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.34	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.14	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.07	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.06	PASS

Band12	10MHz	QPSK	23060	25RB#25	23.17	PASS
Band12	10MHz	QPSK	23060	25RB#12	23.20	PASS
Band12	10MHz	QPSK	23060	25RB#0	23.26	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.27	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.38	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.29	PASS
Band12	10MHz	QPSK	23095	1RB#49	**24.54**	PASS
Band12	10MHz	QPSK	23095	25RB#12	23.25	PASS
Band12	10MHz	QPSK	23095	25RB#25	23.25	PASS
Band12	10MHz	QPSK	23095	25RB#0	23.24	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.21	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.22	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.48	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.32	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.18	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.32	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.28	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.24	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.92	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.40	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.00	PASS
Band12	10MHz	16QAM	23060	25RB#12	23.20	PASS
Band12	10MHz	16QAM	23060	25RB#0	23.20	PASS
Band12	10MHz	16QAM	23060	25RB#25	23.15	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.19	PASS
Band12	10MHz	16QAM	23095	1RB#49	24.17	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.53	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.49	PASS
Band12	10MHz	16QAM	23095	25RB#12	23.25	PASS
Band12	10MHz	16QAM	23095	25RB#25	23.22	PASS
Band12	10MHz	16QAM	23095	25RB#0	23.25	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.22	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.78	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.01	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.10	PASS
Band12	10MHz	16QAM	23130	25RB#12	23.31	PASS

Band12	10MHz	16QAM	23130	25RB#25	23.29	PASS
Band12	10MHz	16QAM	23130	25RB#0	23.34	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.13	PASS
Band17	5MHz	QPSK	23755	1RB#0	23.67	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.93	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.75	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.83	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.78	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.68	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.75	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.76	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.70	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.66	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.71	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.69	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.72	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.62	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.64	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.55	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.58	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.64	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.64	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.65	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.66	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.90	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.60	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.70	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.81	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.70	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.71	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.73	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.04	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.08	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.85	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.69	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.73	PASS

Band17	5MHz	16QAM	23790	12RB#0	22.70	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.82	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.21	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.84	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.01	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.64	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.65	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.65	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.63	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.07	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.94	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.52	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.68	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.72	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.65	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.75	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.51	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.76	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.74	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.70	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.66	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.81	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.54	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.50	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.63	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.81	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.65	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.82	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.88	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.76	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.95	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.69	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.74	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.75	PASS

Band17	10MHz	16QAM	23780	50RB#0	21.83	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.72	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.99	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.79	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.69	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.74	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.71	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.83	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.30	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.70	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.28	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.78	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.76	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.58	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.78	PASS
Band41	5MHz	QPSK	40265	1RB#0	1.42	PASS
Band41	5MHz	QPSK	40265	25RB#0	2.17	PASS
Band41	5MHz	QPSK	40690	1RB#0	1.10	PASS
Band41	5MHz	QPSK	40690	25RB#0	1.75	PASS
Band41	5MHz	QPSK	41215	1RB#0	1.59	PASS
Band41	5MHz	QPSK	41215	25RB#0	1.44	PASS
Band41	5MHz	16QAM	40265	1RB#0	2.74	PASS
Band41	5MHz	16QAM	40265	25RB#0	3.13	PASS
Band41	5MHz	16QAM	40690	1RB#0	2.26	PASS
Band41	5MHz	16QAM	40690	25RB#0	2.69	PASS
Band41	5MHz	16QAM	41215	1RB#0	2.08	PASS
Band41	5MHz	16QAM	41215	25RB#0	1.96	PASS
Band41	10MHz	QPSK	40290	1RB#0	2.84	PASS
Band41	10MHz	QPSK	40290	50RB#0	2.77	PASS
Band41	10MHz	QPSK	40690	1RB#0	2.13	PASS
Band41	10MHz	QPSK	40690	50RB#0	2.18	PASS
Band41	10MHz	QPSK	41190	1RB#0	1.12	PASS
Band41	10MHz	QPSK	41190	50RB#0	1.45	PASS
Band41	10MHz	16QAM	40290	1RB#0	2.72	PASS
Band41	10MHz	16QAM	40290	50RB#0	3.59	PASS
Band41	10MHz	16QAM	40690	1RB#0	3.27	PASS
Band41	10MHz	16QAM	40690	50RB#0	3.07	PASS
Band41	10MHz	16QAM	41190	1RB#0	1.97	PASS

Band41	10MHz	16QAM	41190	50RB#0	2.03	PASS
Band41	15MHz	QPSK	40315	1RB#0	3.63	PASS
Band41	15MHz	QPSK	40315	75RB#0	5.02	PASS
Band41	15MHz	QPSK	40690	1RB#0	4.78	PASS
Band41	15MHz	QPSK	40690	75RB#0	5.82	PASS
Band41	15MHz	QPSK	41165	1RB#0	4.51	PASS
Band41	15MHz	QPSK	41165	75RB#0	4.91	PASS
Band41	15MHz	16QAM	40315	1RB#0	5.48	PASS
Band41	15MHz	16QAM	40315	75RB#0	5.81	PASS
Band41	15MHz	16QAM	40690	1RB#0	5.50	PASS
Band41	15MHz	16QAM	40690	75RB#0	6.04	PASS
Band41	15MHz	16QAM	41165	1RB#0	5.32	PASS
Band41	15MHz	16QAM	41165	75RB#0	5.68	PASS
Band41	20MHz	QPSK	40340	1RB#0	3.77	PASS
Band41	20MHz	QPSK	40340	100RB#0	4.76	PASS
Band41	20MHz	QPSK	40690	1RB#0	4.40	PASS
Band41	20MHz	QPSK	40690	100RB#0	4.94	PASS
Band41	20MHz	QPSK	41140	1RB#0	4.38	PASS
Band41	20MHz	QPSK	41140	100RB#0	4.66	PASS
Band41	20MHz	16QAM	40340	1RB#0	4.17	PASS
Band41	20MHz	16QAM	40340	100RB#0	5.62	PASS
Band41	20MHz	16QAM	40690	1RB#0	5.10	PASS
Band41	20MHz	16QAM	40690	100RB#0	5.79	PASS
Band41	20MHz	16QAM	41140	1RB#0	5.20	PASS
Band41	20MHz	16QAM	41140	100RB#0	5.60	PASS

<WIFI 2.4GHz Conducted Power>

Antenna A:

Mode	Channel	Frequency (MHz)	Conducted Average Power (dBm)	Test Rate Data
802.11b	1	2412	**15.20**	1 Mbps
	6	2437	14.80	1 Mbps
	11	2462	14.11	1 Mbps
802.11g	1	2412	13.97	6 Mbps
	6	2437	**15.78**	6 Mbps
	11	2462	15.26	6 Mbps
802.11n(20MHz)	1	2412	14.37	MCS0
	6	2437	**15.86**	MCS0
	11	2462	15.16	MCS0
802.11n(40MHz)	3	2422	**15.68**	MCS0
	6	2437	15.48	MCS0
	9	2452	15.21	MCS0

Antenna B:

Mode	Channel	Frequency (MHz)	Conducted Average Power (dBm)	Test Rate Data
802.11b	1	2412	**15.18**	1 Mbps
	6	2437	14.83	1 Mbps
	11	2462	14.09	1 Mbps
802.11g	1	2412	14.09	6 Mbps
	6	2437	**15.63**	6 Mbps
	11	2462	15.22	6 Mbps
802.11n(20MHz)	1	2412	13.91	MCS0
	6	2437	**15.82**	MCS0
	11	2462	15.15	MCS0
802.11n(40MHz)	3	2422	**15.73**	MCS0
	6	2437	15.57	MCS0
	9	2452	15.10	MCS0

Note:

1. Per KDB 447498 D01, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

[(*max. power of channel, including tune-up tolerance, mW*) / (*min. test separation distance, mm*)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Antenna A:

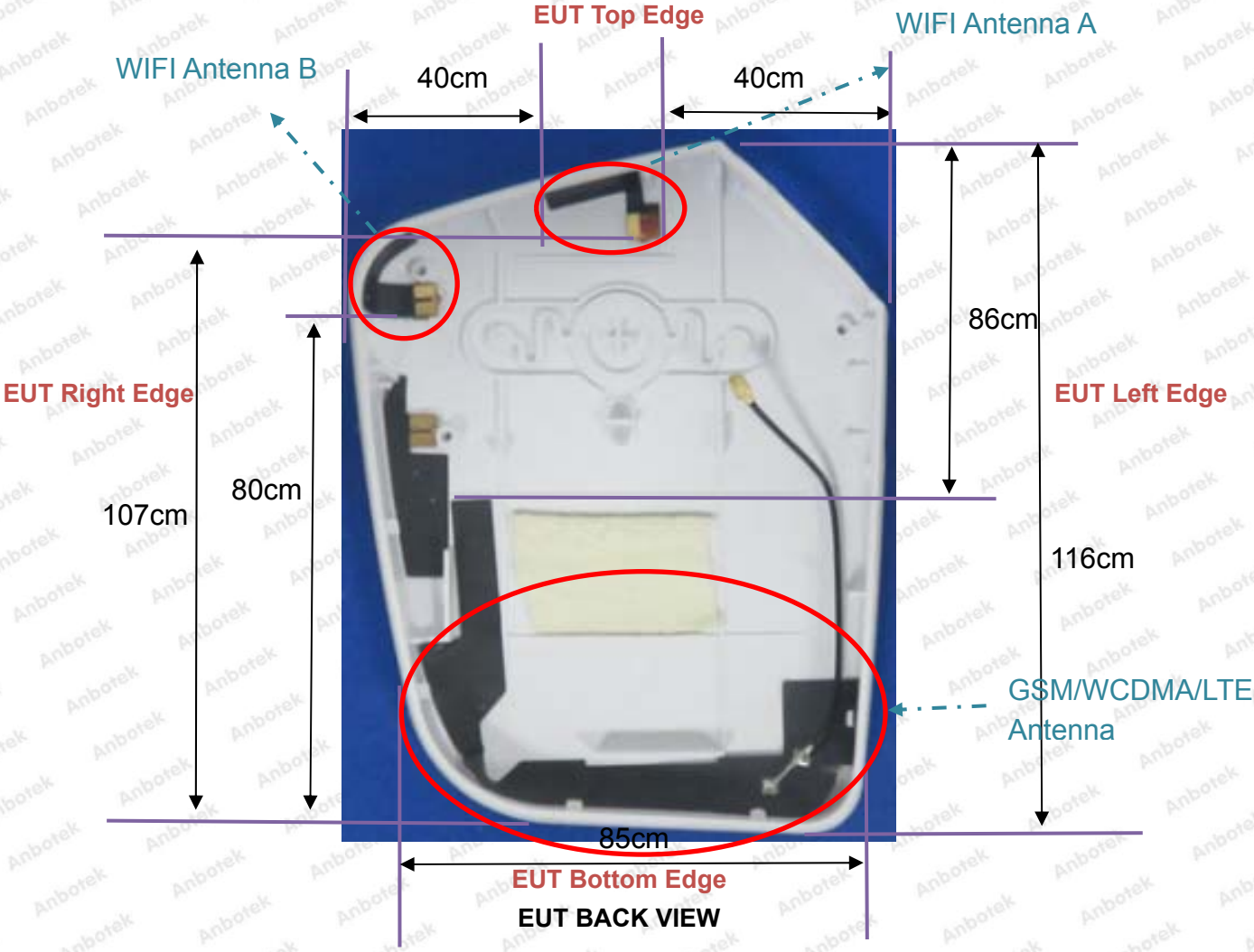
Mode	Frequency (GHz)	Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
802.11b	2.412	15.20	33.11	5	10.29	3.0
802.11g	2.437	15.78	37.84	5	11.82	3.0
802.11n(20M)	2.437	15.86	38.55	5	12.04	3.0
802.11n(40M)	2.422	15.68	36.98	5	11.51	3.0

Antenna B:

Mode	Frequency (GHz)	Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
802.11b	2.412	15.18	32.96	5	10.24	3.0
802.11g	2.437	15.63	36.56	5	11.41	3.0
802.11n(20M)	2.437	15.82	38.19	5	11.92	3.0
802.11n(40M)	2.422	15.73	37.41	5	11.64	3.0

2. Base on the result of note1, RF exposure evaluation of 802.11 b and g modes are required.
3. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.
4. Per KDB 248227 D01, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:
   1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
   2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
5. According to chapter 12 of this report, the max report SAR of 802.11b mode is 0.366 W/Kg, and $0.366\text{W/Kg} \times \frac{37.84}{33.11}$ = 0.418W/Kg which is smaller than 1.2W/Kg, so SAR evaluation of 802.11g mode is not required. And the same for 802.11n and that of Antenna B.

11. Antenna Location



Distance of The Antenna to the EUT surface and edge						
Antennas	**Front**	**Back**	**Top Side**	**Bottom Side**	**Left Side**	**Right Side**
WWAN	/	/	>25mm	<25mm	<25mm	<25mm
WIFI Antenna A	/	/	<25mm	>25mm	>25mm	>25mm
WIFI Antenna B	/	/	<25mm	>25mm	>25mm	<25mm

General Note:

Referring to KDB 941225 D06, When the overall device length and width are ≥9cm*5cm, the test distance is 10mm, SAR must be measured for all sides and surfaces wit transmitting antenna located with 25mm from that surface or edge.

12. SAR Test Results Summary

General Note:

1. Per KDB 447498 D01v05r01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

   Scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

   Reported SAR(W/kg)= Measured SAR(W/kg) Scaling Factor*
2. Per KDB 447498 D01v05r01, for each exposure position, if the highest output channel reported SAR≤0.8W/kg, other channels SAR testing are not necessary

12. 1. Body SAR Results

<GSM>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR_{1g} (W/kg)	Reported SAR_{1g} (W/kg)
	GSM850	GPRS(3 Tx slots)	Front	0.5	190	836.6	26.02	26.50	1.12	0.04	0.427	0.478
#1	GSM850	GPRS(3 Tx slots)	Back	0.5	190	836.6	26.02	26.50	1.12	-0.03	0.651	**0.729**
	GSM850	GPRS(3 Tx slots)	Left Side	0.5	190	836.6	26.02	26.50	1.12	0.02	0.54	0.605
	GSM850	GPRS(3 Tx slots)	Right Side	0.5	190	836.6	26.02	26.50	1.12	-0.01	0.525	0.588
	GSM850	GPRS(3 Tx slots)	Top Side	0.5	190	836.6	26.02	26.50	1.12	N/A	N/A	N/A
	GSM850	GPRS(3 Tx slots)	Bottom Side	0.5	190	836.6	26.02	26.50	1.12	0.05	0.552	0.618
	PCS1900	GPRS(2 Tx slots)	Front	0.5	512	1850.2	28.64	29.00	1.09	0.04	0.271	0.295
#2	PCS1900	GPRS(2 Tx slots)	Back	0.5	885	1909.8	28.64	29.00	1.09	0.01	0.396	**0.432**
	PCS1900	GPRS(2 Tx slots)	Left Side	0.5	885	1909.8	28.64	29.00	1.09	-0.06	0.298	0.325
	PCS1900	GPRS(4 Tx slots)	Right Side	0.5	885	1909.8	28.64	29.00	1.09	-0.03	0.312	0.340
	PCS1900	GPRS(4 Tx	Top Side	0.5	885	1909.8	28.64	29.00	1.09	N/A	N/A	N/A

		slots)										
	PCS1900	GPRS(4 Tx slots)	Bottom Side	0.5	885	1909.8	28.64	29.00	1.09	0.01	0.305	0.332

<WCDMA>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR_{1g} (W/kg)	Reported SAR_{1g} (W/kg)
	WCDMA Band 2	RMC 12.2K	Front	0.5	9400	1880.0	23.28	23.50	1.05	0.04	0.361	0.379
#3	WCDMA Band 2	RMC 12.2K	Back	0.5	9400	1880.0	23.28	23.50	1.05	0.03	0.501	**0.526**
	WCDMA Band 2	RMC 12.2K	Left Side	0.5	9400	1880.0	23.28	23.50	1.05	0.01	0.405	0.425
	WCDMA Band 2	RMC 12.2K	Right Side	0.5	9400	1880.0	23.28	23.50	1.05	-0.02	0.419	0.440
	WCDMA Band 2	RMC 12.2K	Top Side	0.5	9400	1880.0	23.28	23.50	1.05	N/A	N/A	N/A
	WCDMA Band 2	RMC 12.2K	Bottom Side	0.5	9400	1880.0	23.28	23.50	1.05	-0.07	0.435	0.457
	WCDMA Band 5	RMC 12.2K	Front	0.5	4233	846.6	20.87	21.00	1.03	0	0.316	0.325
#4	WCDMA Band 5	RMC 12.2K	Back	0.5	4233	846.6	20.87	21.00	1.03	0.06	0.496	**0.511**
	WCDMA Band 5	RMC 12.2K	Left Side	0.5	4233	846.6	20.87	21.00	1.03	-0.03	0.393	0.405
	WCDMA Band 5	RMC 12.2K	Right Side	0.5	4233	846.6	20.87	21.00	1.03	0.02	0.399	0.411
	WCDMA Band 5	RMC 12.2K	Top Side	0.5	4233	846.6	20.87	21.00	1.03	N/A	N/A	N/A
	WCDMA Band 5	RMC 12.2K	Bottom Side	0.5	4233	846.6	20.87	21.00	1.03	0.01	0.421	0.434

<LTE>

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR_{1g} (W/kg)	Reported SAR_{1g} (W/kg)
	LTE Band 2	20MHz/ 1RB	Front	0	19100	1900.0	24.82	25.00	1.04	0.02	0.601	0.625
#5	LTE Band 2	20MHz/ 1RB	Back	0	19100	1900.0	24.82	25.00	1.04	0.03	0.721	**0.750**
	LTE Band 2	20MHz/ 1RB	Left Side	0	19100	1900.0	24.82	25.00	1.04	-0.08	0.641	0.667
	LTE Band 2	20MHz/ 1RB	Right Side	0	19100	1900.0	24.82	25.00	1.04	0.01	0.633	0.658
	LTE Band 2	20MHz/ 1RB	Top Side	0	19100	1900.0	24.82	25.00	1.04	N/A	N/A	N/A
	LTE Band 2	20MHz/ 1RB	Bottom Side	0	19100	1900.0	24.82	25.00	1.04	-0.05	0.653	0.679
	LTE Band 4	20MHz/ 1RB	Front	0	20050	1720.0	22.25	22.50	1.06	0.04	0.223	0.236
#6	LTE Band 4	20MHz/ 1RB	Back	0	20050	1720.0	22.25	22.50	1.06	-0.03	0.361	**0.383**
	LTE Band 4	20MHz/ 1RB	Left Side	0	20050	1720.0	22.25	22.50	1.06	0.01	0.288	0.305
	LTE Band 4	20MHz/ 1RB	Right Side	0	20050	1720.0	22.25	22.50	1.06	-0.08	0.273	0.289
	LTE Band 4	20MHz/ 1RB	Top Side	0	20050	1720.0	22.25	22.50	1.06	N/A	N/A	N/A
	LTE Band 4	20MHz/ 1RB	Bottom Side	0	20050	1720.0	22.25	22.50	1.06	0.03	0.302	0.320
	LTE Band 5	10MHz/ 1RB	Front	0	20600	824.0	23.60	24.00	1.10	0.04	0.415	0.457
#7	LTE Band 5	10MHz/ 1RB	Back	0	20600	824.0	23.60	24.00	1.10	-0.01	0.514	**0.565**
	LTE Band 5	10MHz/ 1RB	Left Side	0	20600	824.0	23.60	24.00	1.10	-0.05	0.441	0.485
	LTE Band 5	10MHz/ 1RB	Right Side	0	20600	824.0	23.60	24.00	1.10	0.05	0.436	0.480
	LTE Band 5	10MHz/ 1RB	Top Side	0	20600	824.0	23.60	24.00	1.10	N/A	N/A	N/A
	LTE	10MHz/	Bottom	0	20600	824.0	23.60	24.00	1.10	0.09	0.471	0.518

	Band 5	1RB	Side									
	LTE Band 7	20MHz/ 1RB	Front	0	20850	2510.0	23.35	23.50	1.04	-0.02	0.472	0.491
#8	LTE Band 7	20MHz/ 1RB	Back	0	20850	2510.0	23.35	23.50	1.04	-0.05	0.571	**0.594**
	LTE Band 7	20MHz/ 1RB	Left Side	0	20850	2510.0	23.35	23.50	1.04	0.03	0.499	0.519
	LTE Band 7	20MHz/ 1RB	Right Side	0	20850	2510.0	23.35	23.50	1.04	0.05	0.526	0.547
	LTE Band 7	20MHz/ 1RB	Top Side	0	20850	2510.0	23.35	23.50	1.04	N/A	N/A	N/A
	LTE Band 7	20MHz/ 1RB	Bottom Side	0	20850	2510.0	23.35	23.50	1.04	-0.07	0.532	0.553
	LTE Band 12	10MHz/ 1RB	Front	0	23095	707.5	24.54	25.00	1.11	-0.02	0.558	0.619
#9	LTE Band 12	10MHz/ 1RB	Back	0	23095	707.5	24.54	25.00	1.11	-0.04	0.721	**0.800**
	LTE Band 12	10MHz/ 1RB	Left Side	0	23095	707.5	24.54	25.00	1.11	-0.02	0.625	0.694
	LTE Band 12	10MHz/ 1RB	Right Side	0	23095	707.5	24.54	25.00	1.11	-0.01	0.642	0.713
	LTE Band 12	10MHz/ 1RB	Top Side	0	23095	707.5	24.54	25.00	1.11	N/A	N/A	N/A
	LTE Band 12	10MHz/ 1RB	Bottom Side	0	23095	707.5	24.54	25.00	1.11	0.04	0.658	0.730
	LTE Band 17	10MHz/ 1RB	Front	0	23780	709.0	24.07	24.50	1.10	0.03	0.307	0.338
#10	LTE Band 17	10MHz/ 1RB	Back	0	23780	709.0	24.07	24.50	1.10	0.02	0.463	**0.509**
	LTE Band 17	10MHz/ 1RB	Left Side	0	23780	709.0	24.07	24.50	1.10	-0.02	0.351	0.386
	LTE Band 17	10MHz/ 1RB	Right Side	0	23780	709.0	24.07	24.50	1.10	0.09	0.370	0.407
	LTE Band 17	10MHz/ 1RB	Top Side	0	23780	709.0	24.07	24.50	1.10	N/A	N/A	N/A
	LTE Band 17	10MHz/ 1RB	Bottom Side	0	23780	709.0	24.07	24.50	1.10	-0.01	0.373	0.410
	LTE Band 41	15MHz/ 38RB	Front	0	40690	2600.0	25.63	26.00	1.09	-0.04	0.335	0.365
#11	LTE	15MHz/	Back	0	40690	2600.0	25.63	26.00	1.09	-0.02	0.598	**0.652**

	Band 41	38RB										
	LTE Band 41	15MHz/ 38RB	Left Side	0	40690	2600.0	25.63	26.00	1.09	0.02	0.386	0.421
	LTE Band 41	15MHz/ 38RB	Right Side	0	40690	2600.0	25.63	26.00	1.09	-0.03	0.424	0.462
	LTE Band 41	15MHz/ 38RB	Top Side	0	40690	2600.0	25.63	26.00	1.09	N/A	N/A	N/A
	LTE Band 41	15MHz/ 38RB	Bottom Side	0	40690	2600.0	25.63	26.00	1.09	0.08	0.448	0.488

<WIFI 2.4GHz>

Antenna A:

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR_{1g} (W/kg)	Reported SAR_{1g} (W/kg)
	WIFI 2.4GHz	802.11b	Front	0.5	1	2412	15.20	15.50	1.07	-0.02	0.281	0.301
#12	WIFI 2.4GHz	802.11b	Back	0.5	1	2412	15.20	15.50	1.07	0.06	0.339	**0.363**
	WIFI 2.4GHz	802.11b	Left Side	0.5	1	2412	15.20	15.50	1.07	N/A	N/A	N/A
	WIFI 2.4GHz	802.11b	Right Side	0.5	1	2412	15.20	15.50	1.07	N/A	N/A	N/A
	WIFI 2.4GHz	802.11b	Top Side	0.5	1	2412	15.20	15.50	1.07	0.07	0.229	0.245
	WIFI 2.4GHz	802.11b	Bottom Side	0.5	1	2412	15.20	15.50	1.07	N/A	N/A	N/A

Antenna B:

Plot No.	Band	Mode	Test Position	Gap (cm)	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR_{1g} (W/kg)	Reported SAR_{1g} (W/kg)
	WIFI 2.4GHz	802.11b	Front	0.5	1	2412	15.18	15.50	1.08	-0.04	0.232	0.251
#13	WIFI 2.4GHz	802.11b	Back	0.5	1	2412	15.18	15.50	1.08	-0.01	0.279	**0.301**
	WIFI 2.4GHz	802.11b	Left Side	0.5	1	2412	15.18	15.50	1.08	N/A	N/A	N/A
	WIFI 2.4GHz	802.11b	Right Side	0.5	1	2412	15.18	15.50	1.08	0.03	0.246	0.266
	WIFI 2.4GHz	802.11b	Top Side	0.5	1	2412	15.18	15.50	1.08	0.05	0.157	0.170
	WIFI 2.4GHz	802.11b	Bottom Side	0.5	1	2412	15.18	15.50	1.08	N/A	N/A	N/A

Note:

1. Per KDB865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/Kg; if the deviation among the repeated measurement is ≤20%,and the measured SAR <1.45W/Kg, only one repeated measurement is required.

13. Simultaneous Transmission Analysis

13. 1. Simultaneous TX SAR Considerations

No.	Applicable Simultaneous Transmission
1.	GSM+WIFI 2.4GHz Antenna A
2.	WCDMA+WIFI2.4GHz Antenna A
3.	LTE+WIFI2.4G Antenna A
4.	GSM+WIFI2.4G Antenna B
5.	WCDMA+WIFI2.4G Antenna B
6.	LTE+WIFI2.4G Antenna B

Note:

For that SAR for WIFI2.4G Antenna A is bigger than that of Antenna B, so only Simultaneous Transmission of WIFI2.4G Antenna A is evaluated.

13. 2. Evaluation of Simultaneous SAR

<Body Exposure Conditions>

Simultaneous transmission SAR for WIFI2.4G and GSM

Test Position	GSM850 SAR_{1-g} (W/Kg)	GSM1900 SAR_{1-g} (W/Kg)	WIFI2.4G SAR_{1-g} (W/Kg)	MAX. ΣSAR_{1-g} (W/Kg)	SAR_{1-g} Limit (W/Kg)	Simut. Meas. Required
Front	0.478	0.295	0.301	0.779	1.6	NO
Back	**0.729**	**0.432**	**0.363**	**1.092**	1.6	NO
Left Side	0.605	0.325	N/A	N/A	1.6	NO
Right Side	0.588	0.340	N/A	N/A	1.6	NO
Top Side	N/A	N/A	0.245	N/A	1.6	NO
Bottom Side	0.618	0.332	N/A	N/A	1.6	NO

Simultaneous transmission SAR for WIFI2.4G and WCDMA

Test Position	WCDMA Band2 SAR_{1-g} (W/Kg)	WCDMA Band5 SAR_{1-g} (W/Kg)	WIFI2.4G SAR_{1-g} (W/Kg)	MAX. ΣSAR_{1-g} (W/Kg)	SAR_{1-g} Limit (W/Kg)	Simut. Meas. Required
Front	0.379	0.325	0.301	0.680	1.6	NO
Back	**0.526**	**0.511**	**0.363**	**0.889**	1.6	NO
Left Side	0.425	0.405	N/A	N/A	1.6	NO
Right Side	0.440	0.411	N/A	N/A	1.6	NO
Top Side	N/A	N/A	0.245	N/A	1.6	NO
Bottom Side	0.457	0.434	N/A	N/A	1.6	NO

Simultaneous transmission SAR for WIFI2.4G and LTE

Test Position	LTE Band 2 SAR_{1-g} (W/Kg)	LTE Band4 SAR_{1-g} (W/Kg)	LTE Band5 SAR_{1-g} (W/Kg)	LTE Band7 SAR_{1-g} (W/Kg)	LTE Band 12 SAR_{1-g} (W/Kg)	LTE Band 17 SAR_{1-g} (W/Kg)	LTE Band 41 SAR_{1-g} (W/Kg)	WIFI2.4G SAR_{1-g} (W/Kg)	MAX. ΣSAR_{1-g} (W/Kg)	SAR_{1-g} Limit (W/Kg)	Simut. Meas. Required
Front	0.625	0.236	0.457	0.491	0.619	0.338	0.365	0.301	0.926	1.6	NO
Back	**0.750**	**0.383**	**0.565**	**0.594**	**0.800**	**0.509**	**0.652**	**0.363**	**1.163**	1.6	NO

Left Side	0.667	0.305	0.485	0.519	0.694	0.386	0.421	N/A	N/A	1.6	NO
Right Side	0.658	0.289	0.480	0.547	0.713	0.407	0.462	N/A	N/A	1.6	NO
Top Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.245	N/A	1.6	NO
Bottom Side	0.679	0.320	0.518	0.553	0.730	0.410	0.488	N/A	N/A	1.6	NO

14. Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is< 1.5 W/Kg, the extensive SAR measurement uncertainty analysis described in IEC 62209-2:2010 is not required in SAR reports submitted for equipment approval.

Appendix A. SAR Test Setup Photos

Body Front(5mm)

Body Back(5mm)

Top Side(5mm)

Bottom Side(5mm)

Left Side(5mm)

Right Side(5mm)

Appendix B. Plots of SAR System Check

Date: 09/09/2019

835MHz Body System Check

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d154

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 1.06 S/m; ε_r = 55.26; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=250mW/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.97 W/kg

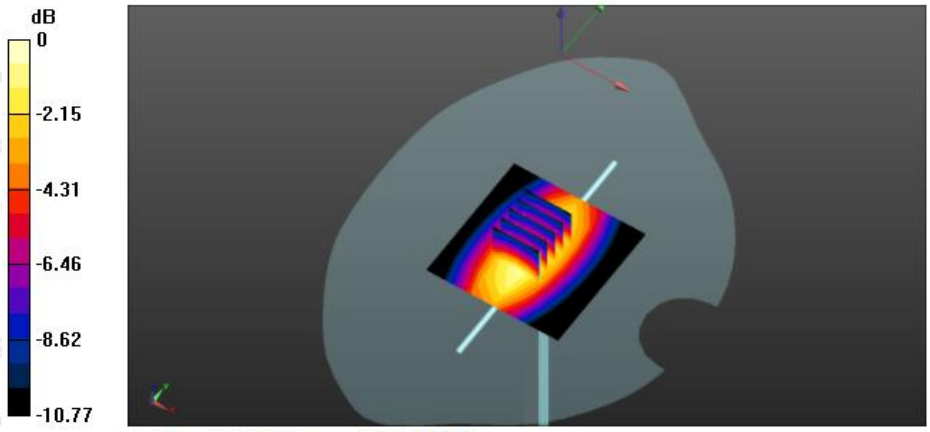
Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 60.007 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 4.02 W/kg

SAR(1 g) = 2.31W/kg; SAR(10 g) = 1.57 W/kg

Maximum value of SAR (measured) = 3.58 W/kg



0 dB = 3.01 W/kg = 4.79 dBW/kg

Date: 09/11/2019

1900MHz Body System Check

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d175

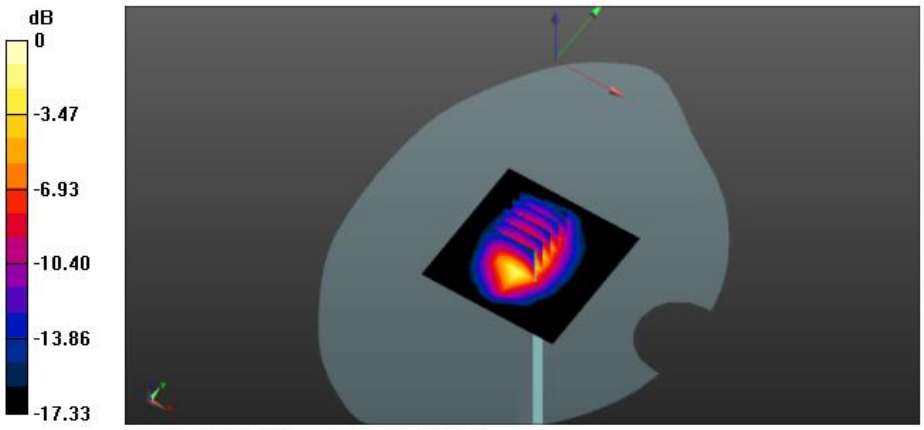
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.51 S/m; ε_r = 53.26; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=250mW/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 10.7 W/kg

Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 86.92 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 17.0 W/kg
SAR(1 g) = 9.26 W/kg; SAR(10 g) = 4.84 W/kg
Maximum value of SAR (measured) = 10.4 W/kg



0 dB = 14.7 W/kg = 11.67 dBW/kg

Date: 09/13/2019

1750MHz Body System Check

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1021

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; σ = 1.51 S/m; ε_r = 53.21; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(8.24, 8.24, 8.24); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Maximum value of SAR (interpolated) = 10.9 W/kg

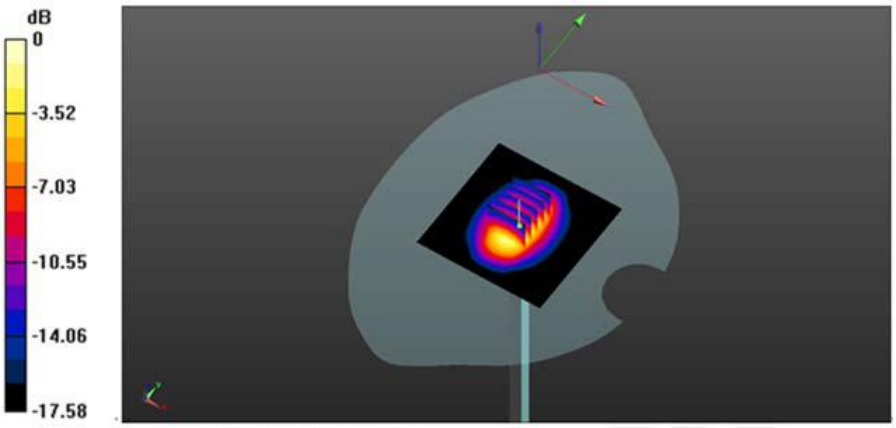
Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 87.593 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 9.06 W/kg; SAR(10 g) = 4.75 W/kg

Maximum value of SAR (measured) = 10.7 W/kg



0 dB = 10.7 W/kg = 10.14 dBW/kg

750MHz Body System Check

DUT: Dipole 750 MHz; Type: D835V2; Serial: D750V3 - SN:4d1118

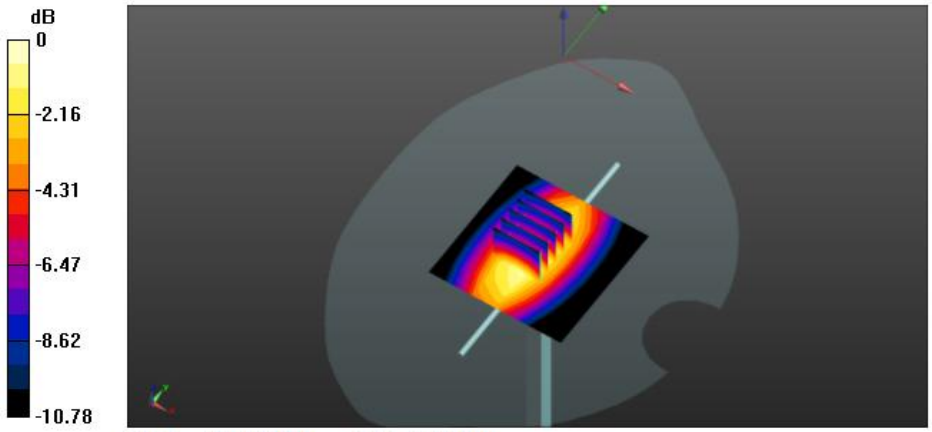
Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.98 S/m; ε_r = 55.37; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(9.71, 9.71, 9.71); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=250mW/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.80 W/kg

Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 56.553 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.39 W/kg
SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.62 W/kg
Maximum value of SAR (measured) = 2.86 W/kg



0 dB = 2.86 W/kg = 4.56 dBW/kg

2600MHz Body System Check

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1058

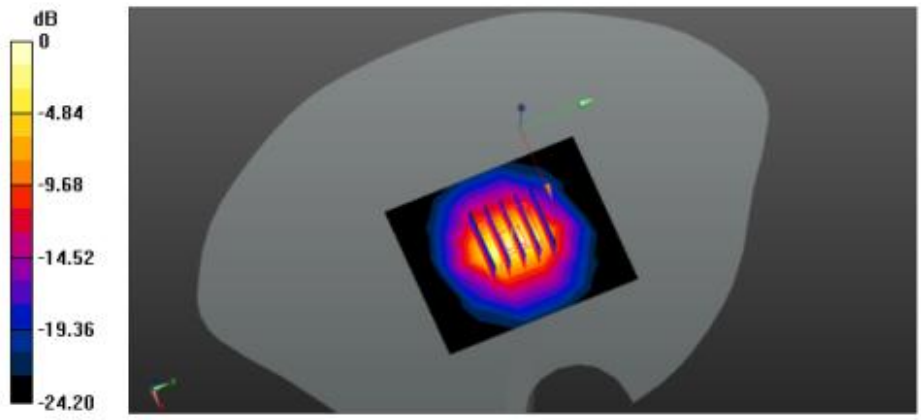
Communication System: UID 0, CW (0); Frequency: 2600 MHz
Medium parameters used: f = 2600 MHz; σ = 2.15 S/m; ε_r = 54.37; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.38, 7.38, 7.38); Calibrated: 6.5.2019;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM ; Type: QD000P40CD; Serial: TP: 1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) =23.2 W/kg

Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 97.87 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 28.3 W/kg
SAR(1 g) = 13.72 W/kg; SAR(10 g) = 6.22 W/kg
Maximum value of SAR (measured) = 22.4 W/kg



0 dB = 22.4 W/kg = 11.12 dBW/kg

Date:09/24/2019

2450MHz Body System Check

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:910

Communication System: UID 0, CW; Frequency: 2450 MHz;Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; σ = 1.89 S/m; ε_r = 51.97; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.53, 7.53, 7.53); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 17.2 W/kg

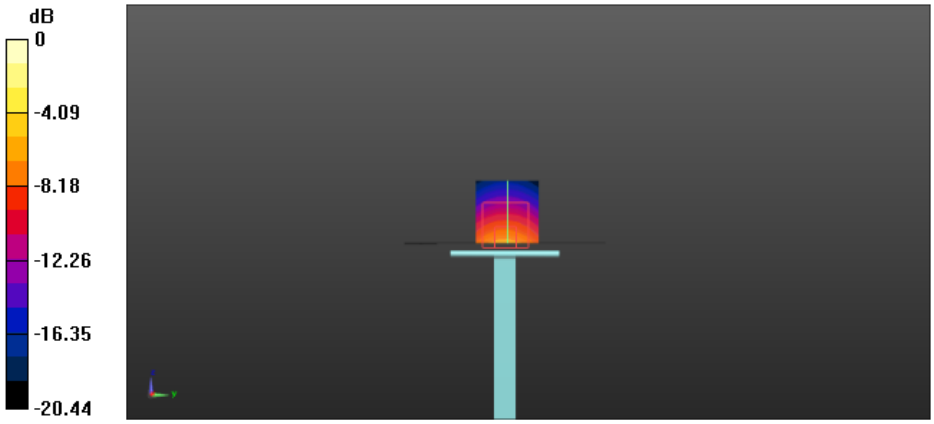
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 82.205 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 24.5 W/kg

SAR(1 g) = 12.1 W/kg; SAR(10 g) = 5.68 W/kg

Maximum value of SAR (measured) = 18.3 W/kg



0 dB = 18.3 W/kg = 12.62 dBW/kg

Appendix C. Plots of SAR Test Data

#1 Date: 09/09/2019

GSM850_GPRS_3TX_Body Back_Ch190

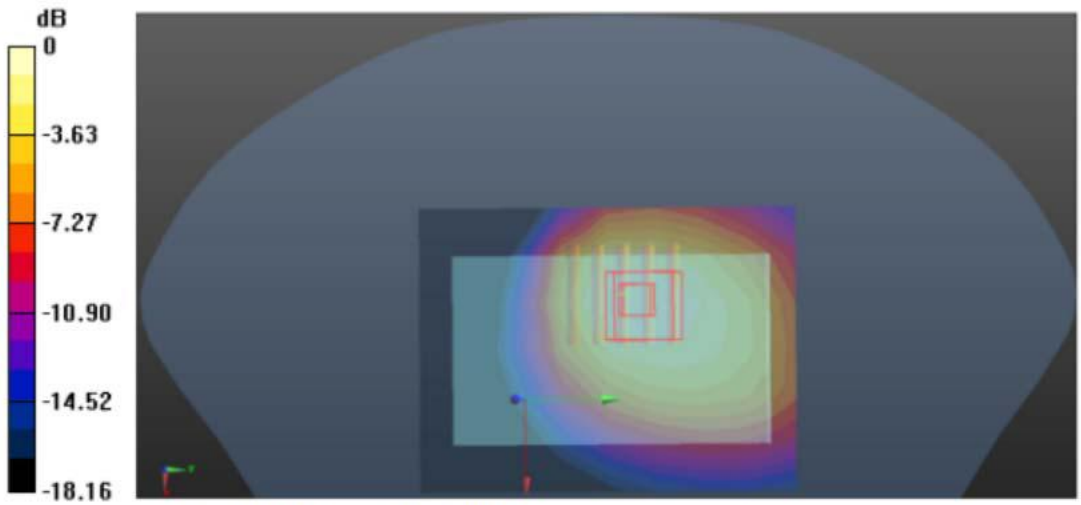
Communication System: UID 0, GPRS(3 Tx slots) (0); Frequency: 836.6 MHz;Duty Cycle: 1:1.99986
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.96 S/m; ε_r = 55.858; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/3ST-BACK/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.21 W/kg

BODY/3ST-BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.549 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 0.651 W/kg; SAR(10 g) = 0.392 W/kg
Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

#2 Date: 09/11/2019

GSM1900_GPRS_4TX_Body Back_Ch885

Communication System: UID 0, GPRS(2 Tx slots) (0); Frequency: 1909.8 MHz;Duty Cycle: 1:1.99986

Medium parameters used: f = 1909.8 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/2ST-BACK/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.534 W/kg

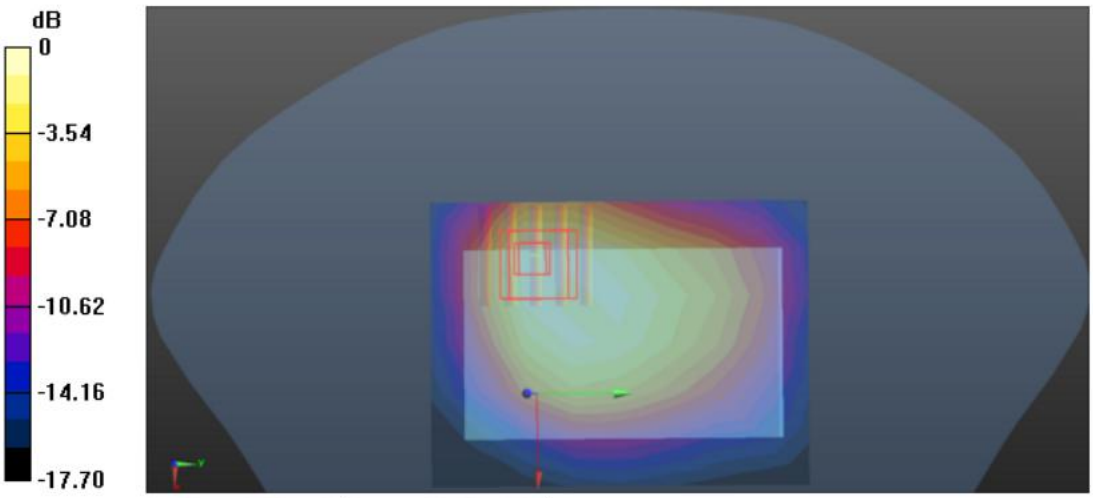
BODY/2ST-BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.335 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.712 W/kg

SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.213 W/kg

Maximum value of SAR (measured) = 0.534 W/kg



0 dB = 0.534 W/kg = -2.72 dBW/kg

#3 Date: 09/11/2019

WCDMA 1900_RMC 12.2K_Body Back_Ch9400

Communication System: UID 0, Generic WCDMA (0); Frequency: 1880.0 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1880.0 MHz; σ = 1.57 S/m; ε_r = 51.14; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK/Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.698 W/kg

BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

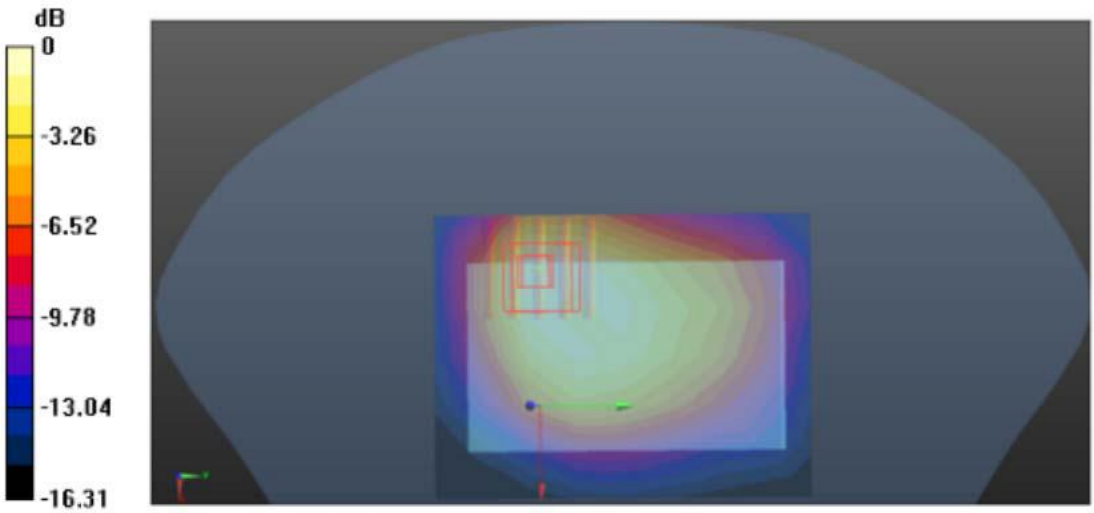
Reference Value = 19.112 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.654 W/kg

Peak SAR (extrapolated) = 0.898 W/kg

SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.276 W/kg

Maximum value of SAR (measured) = 0.698 W/kg



0 dB = 0.698 W/kg = -1.56 dBW/kg

#4 Date: 09/09/2019

WCDMA 850_RMC 12.2K_Body Back_Ch4233

Communication System: UID 0, Generic WCDMA (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.96 S/m; ε_r = 55.858; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.657 W/kg

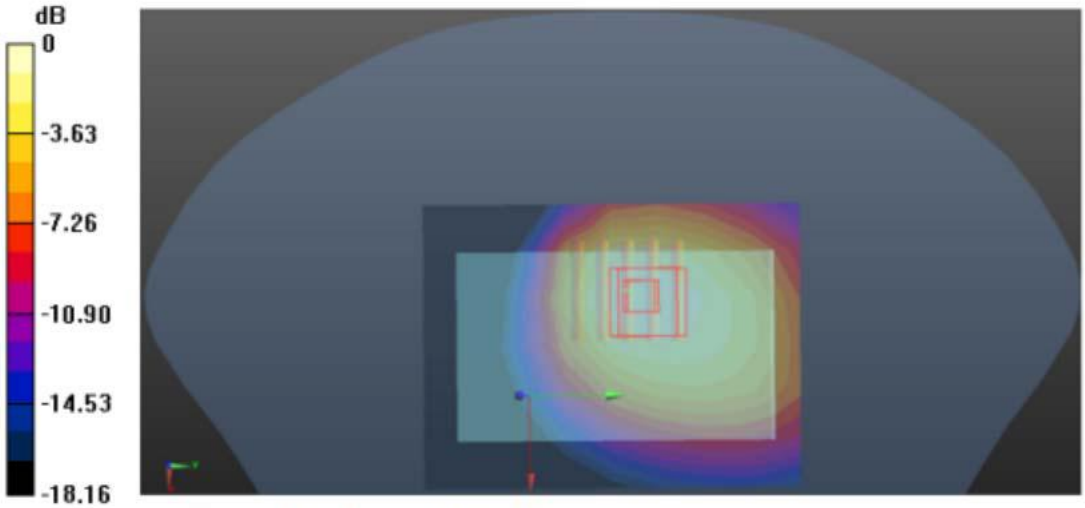
BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.547 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.997 W/kg

SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.275 W/kg

Maximum value of SAR (measured) = 0.657 W/kg



0 dB = 0.657 W/kg = -1.82 dBW/kg

#5 Date: 09/11/2019

LTE Band2_1RB_Body Back_Ch19100

Communication System: UID 0, Generic LTE (0); Frequency: 1900.0 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1900.0 MHz; σ = 1.51 S/m; ε_r = 53.26; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.42 W/kg

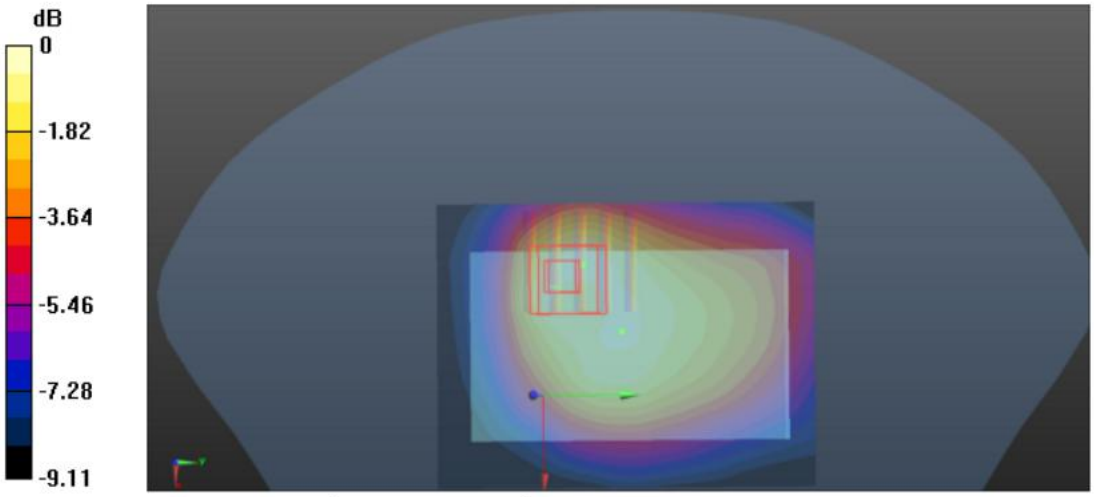
BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.628 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.721 W/kg; SAR(10 g) = 0.391 W/kg

Maximum value of SAR (measured) = 1.42 W/kg



0 dB = 1.42 W/kg = 1.52 dBW/kg

#6 Date: 09/13/2019

LTE Band4_1RB_Body Back_Ch20050

Communication System: UID 0, Generic LTE (0); Frequency: 1720.0 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 1720.0 MHz; σ = 1.52 S/m; ε_r = 53.23; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7396; ConvF(8.24, 8.24, 8.24); Calibrated: 6.5.2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: 3.9.2019
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

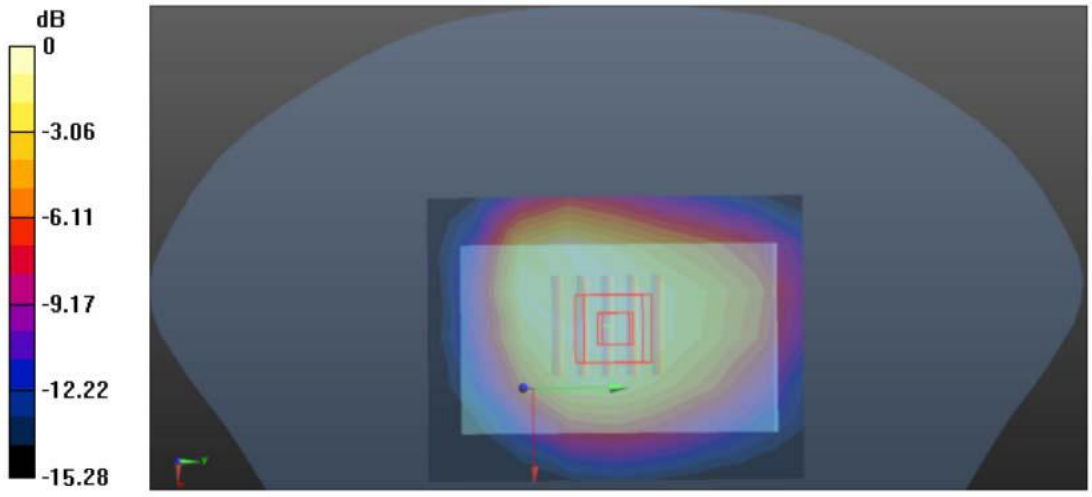
BODY/BACK/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.482 W/kg

BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.572 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.601 W/kg

SAR(1 g) = 0.361 W/kg; SAR(10 g) = 0.213 W/kg

Maximum value of SAR (measured) = 0.482 W/kg