

FCC SAR Test Report

Applicant : WeHome Technology Company Limited

Address : Room 12A, Kiu Fu Comm Building 300
Lockhart Road, Wan Chai, Hong Kong

Product Name : ROLA PetTracker

Report Date : Jun. 18, 2024



Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : WeHome Technology Company Limited
Manufacturer : Fuzhi Technology (Shenzhen) Co., Ltd.
Product Name : ROLA PetTracker
Model No. : ROLA PetTracker
Trade Mark : 
Rating(s) : Input: 5V=
Battery Capacity: DC 3.85V, 1500mAh

**Test Standard(s) : IEC/IEEE 62209-1528:2020; FCC 47 CFR Part 2.1093;
IEEE Std C95.1-2019; Reference FCC KDB 447498; KDB 248227;
KDB 616217; KDB 941225; KDB 865664**

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 IEC/IEEE 62209-1528:2020, FCC 47 CFR Part 2.1093, IEEE Std C95.1-2019 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

Apr. 03, 2024

Date of Test

Apr. 22-28, 2024

Prepared By

Ella Liang

(Ella Liang)

Approved & Authorized Signer

Edward Pan

(Edward Pan)



Version

Version No.	Date	Description
R00	Jun. 18, 2024	Original



1. Statement of Compliance

<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 2.1093 and IEEE Std C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEC/IEEE 62209-1528:2020. The maximum results of Specific Absorption Rate (SAR) found during testing are as follows.

<Highest SAR Summary>

FrequencyBand	Highest Reported 1g-SAR(W/Kg)	SAR Test Limit (W/Kg)
	Body-worn(0mm)	
GSM 850	0.799	1.6
GSM1900	0.558	
WCDMA Band II	0.648	
WCDMA Band IV	0.640	
WCDMA Band V	0.710	
LTE Band 2	0.627	
LTE Band 4	0.570	
LTE Band 5	0.688	
LTE Band 7	0.585	
LTE Band 12	0.679	
LTE Band 13	0.617	
LTE Band 17	0.684	
LTE Band 66	0.643	
WLAN2.4G	0.276	
Simultaneous Reported SAR (W/Kg)	1.075	
Test Result	PASS	

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 2.1093 and IEEE Std C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEC/IEEE 62209-1528:2020.

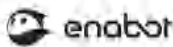


2. General Information

2.1. Client Information

Applicant	:	WeHome Technology Company Limited
Address	:	Room 12A, Kiu Fu Comm Building 300 Lockhart Road, Wan Chai, Hong Kong
Manufacturer	:	Fuzhi Technology (Shenzhen) Co., Ltd.
Address	:	Room 302, Building 10, Qianhai Shengang Youth Dreamworks, No. 35 Qianwan 1st Road, Qianhai-Hong Kong Cooperation Zone, Shenzhen, China
Factory	:	Huizhou HAOCHENG Technology Co.'Ltd
Address	:	4/F,Building F,No.13Jinda Road,Huinan High-tech Industrial Park,Huiao AvenueZhongkaiHigh-tech one,Huizhou,Guangdong, P.R.China

2.2. Description of Equipment Under Test (EUT)

Product Name	:	ROLA PetTracker
Model No.	:	ROLA PetTracker
Trade Mark	:	
Test Power Supply	:	DC 3.85V battery inside
Test Sample No.	:	1-2-1(Engineering Sample)
Tx Frequency	:	2.4G WIFI: 2412-2462MHz GSM 850: TX: 824.2~848.8 MHz PCS 1900: TX: 1850.2~1909.8 MHz UMTS Band 2: TX: 1852.4~1907.6 MHz UMTS Band 4: 1712.4~1752.6MHz UMTS Band 5: TX: 826.4 ~ 846.6 MHz FDD Band 2: TX: 1850.7 ~ 1909.3 MHz FDD Band 4: 1710.7 MHz – 1754.3 MHz FDD Band 5: 824.7 MHz – 848.3 MHz FDD Band 7: 2502.5 MHz – 2567.5 MHz FDD Band 12: 699.7 MHz – 715.3 MHz FDD Band 13: 779.5 MHz – 784.5 MHz FDD Band 17: 706.5 MHz – 713.5 MHz FDD Band 66: 1710.7 MHz-1779.3 MHz
Type of Modulation	:	GSM:GMSK,8PSK WCDMA:QPSK LTE:QPSK,16QAM



		2.4G WIFI:BPSK,QPSK,16QAM,64QAM
Category of device	:	Portable device
Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.		

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:

- FCC 47 CFR Part 2.1093
- IEEE Std C95.1-2019
- IEC/IEEE 62209-1528:2020
- KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- KDB 865664 D02 RF Exposure Reporting v01r02
- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- KDB 941225 D01 3G SAR Procedures v03r01
- KDB 941225 D05 SAR for LTE Devices v02r05

2.5. Environment of Test Site

Items	Required	Actual
Temperature (°C)	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. For WLAN SAR testing, WLAN engineering testing software installed on the EUT can provide continuous transmitting RF signal.



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:

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

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

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

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

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

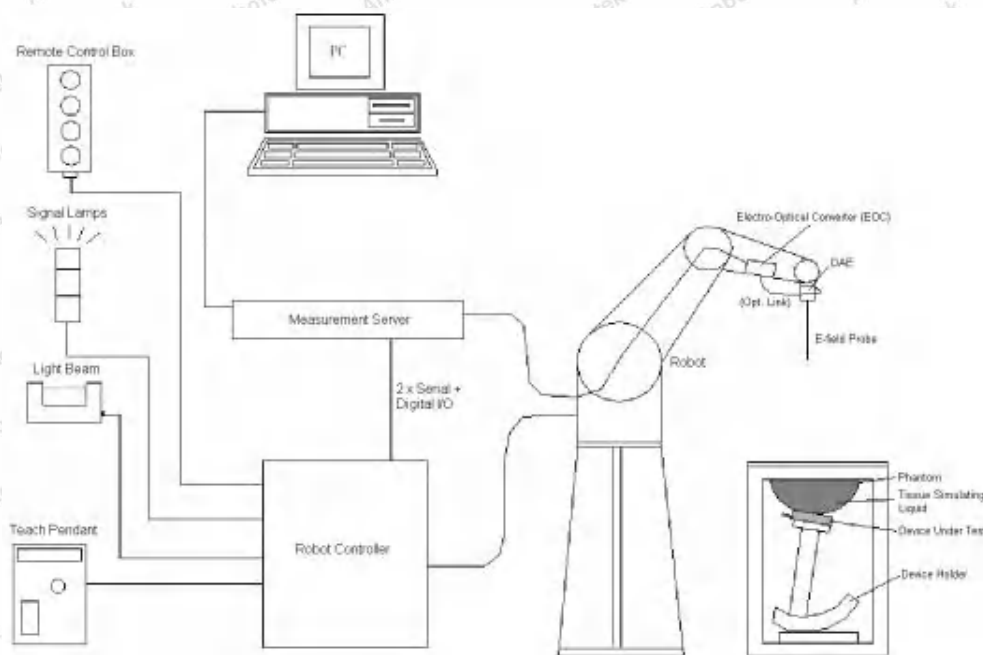
$$SAR = \frac{\sigma |E|^2}{\rho}$$

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 DASYsystem 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 warning 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 μ W/g to 100 W/kg; Linearity: ± 0.2 dB (noise: typically < 1 μ W/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 $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. 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 200M Ω ; 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 controllersystem, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäublirobot 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), chipdisk (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>

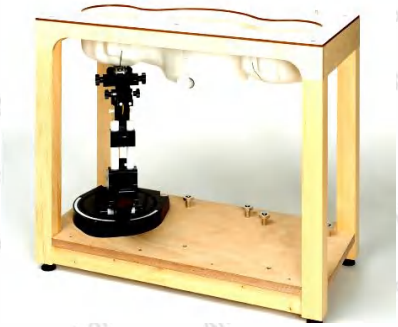
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

Photo of SAM 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>

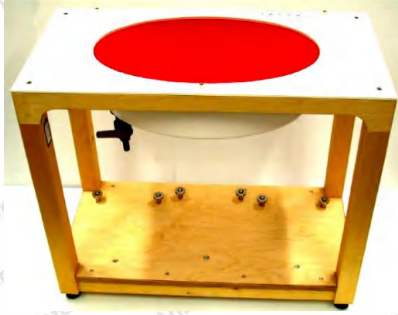
Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

Photo of ELI4 Phantom

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 $\pm 0.5\text{mm}$ would produce a SAR uncertainty of $\pm 20\%$. 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 $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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], [W/kg]). 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:

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

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:



$$\text{E-field Probes: } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

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

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

Norm_i = sensor sensitivity of channel i , ($i = x, y, z$), $\mu\text{V}/(\text{V/m})^2$ 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):

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

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

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

with SAR = local specific absorption rate in W/kg

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	1163	Jun. 08,2021	Jun. 07,2024
SPEAG	835MHz System Validation Kit	D835V2	4d154	Jun. 16,2021	Jun. 15,2024
SPEAG	1750MHz System Validation Kit	D1750V2	1021	Jul. 01,2021	Jun. 30,2024
SPEAG	1900MHz System Validation Kit	D1900V2	5d175	Jun. 15,2022	Jun. 14,2025
SPEAG	2450MHz System Validation Kit	D2450V2	910	Jun. 15,2021	Jun. 14,2024
SPEAG	2600MHz System Validation Kit	D2600V2	1058	Jun. 19,2021	Jun. 18,2024
Rohde & Schwarz	UNIVERSAL RADIO COMMUNICATION TESTER	CMW500	1201.0002K50 -104209-JC	Nov.10, 2023	Nov.09, 2024
SPEAG	Data Acquisition Electronics	DAE4	387	Sept.06,2023	Sept.05,2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7396	May 06,2024	May 05,2025
Agilent	ENA Series Network Analyzer	E5071C	MY46317418	Oct.26, 2023	Oct.25, 2024
SPEAG	DAK	DAK-3.5	1226	NCR	NCR
SPEAG	SAM Twin Phantom	QD000P40CD	1802	NCR	NCR
SPEAG	ELI Phantom	QDOVA004AA	2058	NCR	NCR
AR	Amplifier	ZHL-42W	QA1118004	NCR	NCR
Agilent	Spectrum Analyzer	N9020A	MY51170037	Oct.26, 2023	Oct.25, 2024
Agilent	Signal Generation	N5182A	MY48180656	Oct.26, 2023	Oct.25, 2024
Worken	Directional Coupler	0110A05601O -10	COM5BNW1A 2	Oct.26, 2023	Oct.25, 2024

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:



Photo of 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 (ϵ_r)
For Body								
750	50.8	48.2	0	0.9	0.1	0	0.96	55.5
835	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	65.5	0	0	0	0	31.5	2.16	52.5
5200	78.6	0	10.7	0	10.7	0	5.27	49.0
5800	78.5	0	10.8	0	10.7	0	6.00	48.2



The following table shows the measuring results for simulating liquid.

Measured Frequency (MHz)	Target Tissue		Measured Tissue				Liquid Temp.	Test Data
	ϵ_r	σ	ϵ_r	Dev. (%)	σ	Dev. (%)		
750	41.9	0.89	41.73	-0.41	0.91	2.25	22.8	04/22/2024
835	41.5	0.90	41.62	0.29	0.92	2.22	22.7	04/23/2024
1750	40.1	1.37	40.25	0.37	1.41	2.92	22.6	04/24/2024
1900	40.0	1.40	40.12	0.30	1.46	4.29	22.8	04/25/2024
2450	39.2	1.80	39.08	-0.31	1.85	2.78	22.7	04/26/2024
2600	39.0	1.96	39.35	0.90	2.03	3.57	22.8	04/28/2024



7. System Verification Procedures

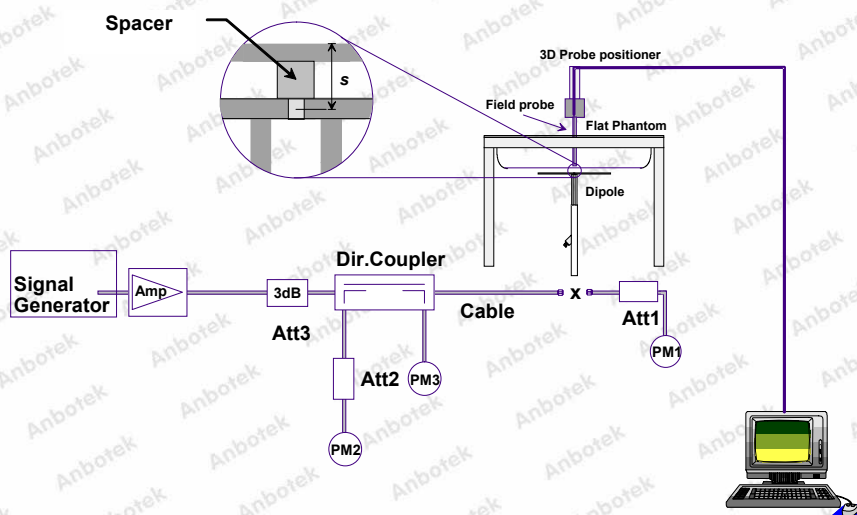
Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix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



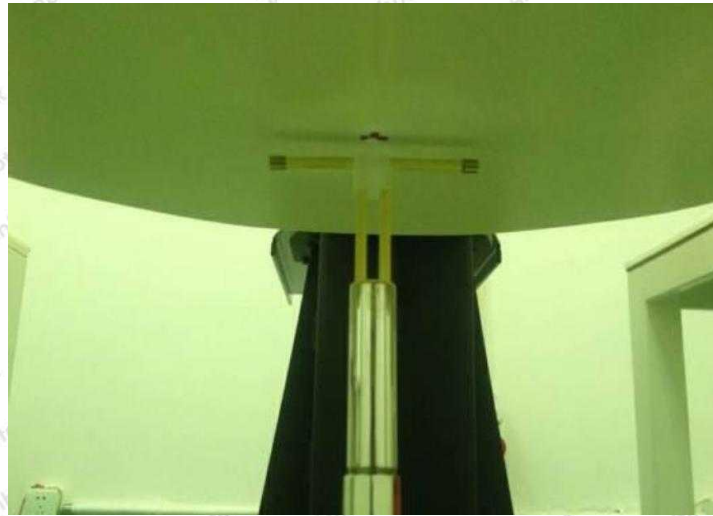


Photo of Dipole Setup

➤ 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.

Date	Frequency (MHz)	Power fed onto reference dipole (mW)	Targeted SAR (W/kg)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Deviation (%)
04/22/2024	750	250	8.31	2.13	8.52	2.53
04/23/2024	835	250	9.24	2.33	9.32	0.87
04/24/2024	1750	250	36.9	9.57	38.28	3.74
04/25/2024	1900	250	40.4	10.18	40.72	0.79
04/26/2024	2450	250	52.4	12.95	51.8	-1.15
04/28/2024	2600	250	57.2	13.91	55.64	-2.73

Target and Measurement SAR after Normalized

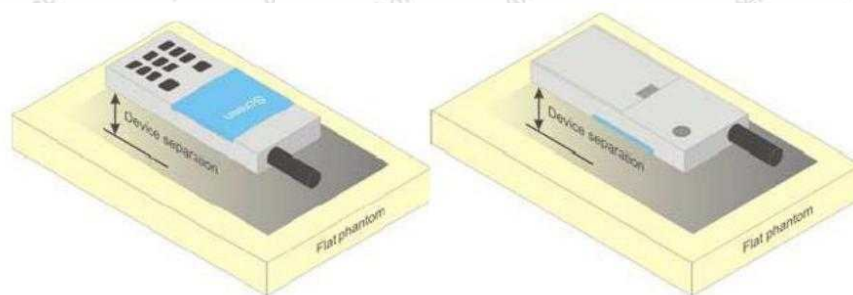


8. EUT Testing Position

8.1.Body Position

Devices that support transmission while used with body-worn accessories must be tested for body-worn accessory SAR compliance, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.

Devices that are designed to operate on the body of users using lanyards and straps or without requiring additional body-worn accessories must be tested for SAR compliance using a conservative minimum test separation distance $\leq 5\text{mm}$ to support compliance.



Picture 4 Test positions for body-worn devices



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 from 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 dB) 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	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 12 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 12 \text{ mm}$ $4 - 6 \text{ GHz: } \leq 10 \text{ mm}$
	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 $\leq$ 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 to 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 whose 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.

			$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
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 <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ 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>

Band GSM850	Burst Average Power (dBm)				Frame-Average Power (dBm)			
TX Channel	Tune-up	128	190	251	128	190	251	Tune-up
Frequency (MHz)	power	824.2	836.6	848.8	824.2	836.6	848.6	power
GPRS (GMSK, 1 Tx slot)	32.00	31.82	31.76	31.51	22.79	22.73	22.48	23.00
GPRS (GMSK, 2 Tx slots)	30.00	29.57	29.73	29.57	23.55	23.71	23.55	24.00
GPRS (GMSK, 3 Tx slots)	28.00	27.71	27.79	27.64	23.45	23.53	23.38	24.00
GPRS (GMSK, 4 Tx slots)	26.00	25.68	25.81	25.65	22.67	22.80	22.64	23.00
EGPRS (8PSK, 1 Tx slot)	25.00	24.62	24.47	23.89	15.59	15.44	14.86	16.00
EGPRS (8PSK, 2 Tx slots)	24.50	24.39	24.31	23.72	18.37	18.29	17.70	18.50
EGPRS (8PSK, 3 Tx slots)	23.50	23.21	23.16	22.60	18.95	18.90	18.34	19.00
EGPRS (8PSK, 4 Tx slots)	21.00	20.93	20.92	20.28	17.92	17.91	17.27	18.00
Band PCS1900	Burst Average Power (dBm)				Frame-Average Power (dBm)			
TX Channel	Tune-up	512	661	810	512	661	810	Tune-up
Frequency (MHz)	power	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8	power
GPRS (GMSK, 1 Tx slot)	29.00	28.64	28.51	27.27	19.61	19.48	18.24	20.00
GPRS (GMSK, 2 Tx slots)	26.50	26.07	26.17	25.29	20.05	20.15	19.27	20.50
GPRS (GMSK, 3 Tx slots)	25.00	24.40	24.59	23.67	20.14	20.33	19.41	20.50
GPRS (GMSK, 4 Tx slots)	23.00	22.42	22.60	21.75	19.41	19.59	18.74	20.00
EGPRS (8PSK, 1 Tx slot)	24.50	24.14	23.98	22.33	15.11	14.95	13.30	15.00
EGPRS (8PSK, 2 Tx slots)	24.50	24.08	23.95	22.29	18.06	17.93	16.27	18.50
EGPRS (8PSK, 3 Tx slots)	23.00	22.74	22.67	20.94	18.48	18.41	16.68	18.50
EGPRS (8PSK, 4 Tx slots)	21.00	20.61	20.41	18.73	17.60	17.40	15.72	18.00

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:

- Per KDB 447498 D01, the maximum output power channel is used for SAR testing and for further SAR test reduction. For Hotspot mode SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS 2 Tx slots and GPRS 3 Tx slots for GSM850 and 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} (Note 1, 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 $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. 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 $\Delta_{NACK} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{HS} = 24/15 * \beta_c$. Note 3: CM = 1 for $\beta_d/\beta_c = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCCH, 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 $\beta_c = 11/15$ and $\beta_d = 15/15$.							

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-TFCl
 - viii. Confirm that E-TFCl is equal to the target E-TFCl of 75 for sub-test 1, and other subtest's E-TFCl
- 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} (Note 1)	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-TFCl
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	β_{ed1} : 47/15 β_{ed2} : 47/15	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 $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference. Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$. Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$. Note 5: 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	Band II (dBm)				Band V (dBm)			
TX Channel	Tune-up	9262	9400	9538	Tune-up	4132	4183	4233
Frequency (MHz)	power	1852.4	1880.0	1907.6	power	826.4	836.6	846.6
RMC 12.2Kbps	23.00	22.84	22.77	22.34	23.50	22.88	22.93	23.17
HSDPA Subtest-1	22.50	21.92	21.84	22.34	23.50	22.88	22.88	23.03
HSDPA Subtest-2	21.00	20.52	20.48	20.87	22.00	21.44	21.42	21.68
HSDPA Subtest-3	21.00	20.46	20.42	20.93	22.00	21.34	21.42	21.58
HSDPA Subtest-4	21.00	20.47	20.43	20.85	22.00	21.49	21.45	21.70
HSUPA Subtest-1	21.50	20.32	20.77	21.30	22.00	21.58	21.71	21.63
HSUPA Subtest-2	20.00	19.93	19.89	19.87	21.50	20.96	21.07	20.72
HSUPA Subtest-3	20.50	19.75	19.45	20.17	21.50	20.17	21.00	21.16
HSUPA Subtest-4	21.00	20.35	20.50	20.38	21.50	20.97	21.00	21.35
HSUPA Subtest-5	22.00	21.64	21.03	21.55	22.50	22.40	22.12	22.34

WCDMA	Band IV (dBm)			
TX Channel	Tune-up	1312	1412	1513
Frequency (MHz)	power	1712.4	1732.4	1752.6
RMC 12.2Kbps	23.00	22.04	22.97	21.77
HSDPA Subtest-1	22.00	21.94	21.97	20.88
HSDPA Subtest-2	21.00	20.54	20.58	20.25
HSDPA Subtest-3	21.00	20.47	20.51	20.28
HSDPA Subtest-4	21.00	20.49	20.53	20.31
HSUPA Subtest-1	21.50	20.95	20.99	21.17
HSUPA Subtest-2	20.00	19.89	19.59	19.37
HSUPA Subtest-3	20.50	19.63	20.07	19.75
HSUPA Subtest-4	21.00	20.05	20.71	20.89
HSUPA Subtest-5	22.00	21.68	21.19	20.95

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>

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band2	1.4MHz	18607	1RB#0	21.92	21.93	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18607	1RB#2	21.96	21.93	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18607	1RB#5	21.96	21.93	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18607	3RB#0	22.14	20.77	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18607	3RB#1	22.07	20.80	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18607	3RB#3	22.13	20.85	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18607	6RB#0	21.45	20.38	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18900	1RB#0	21.67	20.78	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18900	1RB#2	21.73	21.11	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18900	1RB#5	21.77	21.09	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18900	3RB#0	21.76	20.64	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18900	3RB#1	21.77	20.67	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18900	3RB#3	21.86	20.62	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	18900	6RB#0	21.32	19.92	21.5±1.0	20.0±1.0
NTNV	Band2	1.4MHz	19193	1RB#0	21.71	21.70	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	19193	1RB#2	21.74	21.75	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	19193	1RB#5	21.88	21.73	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	19193	3RB#0	21.95	20.67	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	19193	3RB#1	22.00	20.73	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	19193	3RB#3	21.98	20.69	21.5±1.0	21.0±1.0
NTNV	Band2	1.4MHz	19193	6RB#0	21.40	20.30	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18615	1RB#0	21.85	21.01	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18615	1RB#8	21.88	21.00	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18615	1RB#14	22.01	21.01	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18615	8RB#0	21.50	20.38	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18615	8RB#4	21.61	20.22	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18615	8RB#7	21.52	20.38	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18615	15RB#0	21.61	20.05	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18900	1RB#0	21.80	21.35	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18900	1RB#8	21.78	21.09	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18900	1RB#14	21.81	21.20	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18900	8RB#0	21.25	20.04	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18900	8RB#4	21.25	20.02	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18900	8RB#7	21.34	20.04	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	18900	15RB#0	21.32	20.00	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	19185	1RB#0	21.80	20.86	21.5±1.0	21.0±1.0



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NTNV	Band2	3MHz	19185	1RB#8	21.97	20.92	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	19185	1RB#14	21.91	20.93	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	19185	8RB#0	21.45	20.24	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	19185	8RB#4	21.45	20.23	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	19185	8RB#7	21.44	20.25	21.5±1.0	21.0±1.0
NTNV	Band2	3MHz	19185	15RB#0	21.42	20.11	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	1RB#0	22.05	21.42	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	1RB#12	21.98	21.33	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	1RB#24	21.96	21.41	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	12RB#0	21.66	20.26	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	12RB#6	21.68	20.27	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	12RB#13	21.49	20.19	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18625	25RB#0	21.66	20.19	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	1RB#0	22.01	20.96	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	1RB#12	21.98	20.98	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	1RB#24	22.04	21.03	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	18900	12RB#0	21.37	19.93	21.5±1.0	20.0±1.0
NTNV	Band2	5MHz	18900	12RB#6	21.38	19.94	21.5±1.0	20.0±1.0
NTNV	Band2	5MHz	18900	12RB#13	21.42	19.98	21.5±1.0	20.0±1.0
NTNV	Band2	5MHz	18900	25RB#0	21.28	19.99	21.5±1.0	20.0±1.0
NTNV	Band2	5MHz	19175	1RB#0	21.90	20.39	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	1RB#12	21.92	20.36	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	1RB#24	21.93	20.40	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	12RB#0	21.45	20.11	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	12RB#6	21.48	20.06	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	12RB#13	21.44	20.08	21.5±1.0	21.0±1.0
NTNV	Band2	5MHz	19175	25RB#0	21.46	20.17	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18650	1RB#0	22.02	21.15	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18650	1RB#24	21.97	21.10	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18650	1RB#49	21.90	20.96	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18650	25RB#0	21.67	20.36	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18650	25RB#12	21.68	20.36	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18650	25RB#25	21.57	20.34	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18650	50RB#0	21.58	20.22	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18900	1RB#0	21.98	20.83	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18900	1RB#24	21.93	20.79	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18900	1RB#49	22.02	20.85	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18900	25RB#0	21.35	20.13	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18900	25RB#12	21.36	20.07	21.5±1.0	21.0±1.0



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NTNV	Band2	10MHz	18900	25RB#25	21.29	20.09	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	18900	50RB#0	21.40	20.06	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	19150	1RB#0	21.71	20.73	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	19150	1RB#24	21.80	20.81	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	19150	1RB#49	21.87	20.89	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	19150	25RB#0	21.32	19.91	21.5±1.0	20.0±1.0
NTNV	Band2	10MHz	19150	25RB#12	21.39	19.93	21.5±1.0	20.0±1.0
NTNV	Band2	10MHz	19150	25RB#25	21.35	20.07	21.5±1.0	21.0±1.0
NTNV	Band2	10MHz	19150	50RB#0	21.37	20.07	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18675	1RB#0	21.99	21.44	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18675	1RB#38	21.93	21.32	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18675	1RB#74	21.88	21.35	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18675	38RB#0	21.41	21.41	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18675	38RB#18	21.36	21.35	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18675	38RB#37	21.29	21.10	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18675	75RB#0	21.59	20.14	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18900	1RB#0	21.94	20.74	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18900	1RB#38	21.92	20.81	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18900	1RB#74	21.92	20.83	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18900	38RB#0	20.74	20.74	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18900	38RB#18	20.82	20.83	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18900	38RB#37	20.83	20.81	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	18900	75RB#0	21.40	19.96	21.5±1.0	20.0±1.0
NTNV	Band2	15MHz	19125	1RB#0	21.73	20.69	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	19125	1RB#38	21.74	20.73	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	19125	1RB#74	21.93	20.83	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	19125	38RB#0	20.70	20.65	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	19125	38RB#18	20.85	20.82	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	19125	38RB#37	20.85	20.82	21.5±1.0	21.0±1.0
NTNV	Band2	15MHz	19125	75RB#0	21.36	20.04	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18700	1RB#0	22.26	21.54	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18700	1RB#49	22.12	21.38	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18700	1RB#99	22.12	21.41	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18700	50RB#0	21.50	20.19	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18700	50RB#25	21.65	20.20	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18700	50RB#50	21.48	20.19	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18700	100RB#0	21.56	20.20	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18900	1RB#0	21.87	20.73	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18900	1RB#49	21.77	20.77	21.5±1.0	21.0±1.0



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NTNV	Band2	20MHz	18900	1RB#99	22.06	20.82	22.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18900	50RB#0	21.50	20.11	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18900	50RB#25	21.33	20.12	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18900	50RB#50	21.32	20.08	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	18900	100RB#0	21.35	20.02	21.5±1.0	21.0±1.0
NTNV	Band2	20MHz	19100	1RB#0	22.00	20.69	22.5±1.0	21.0±1.0
NTNV	Band2	20MHz	19100	1RB#49	22.00	20.76	22.5±1.0	21.0±1.0
NTNV	Band2	20MHz	19100	1RB#99	22.20	20.89	22.5±1.0	21.0±1.0
NTNV	Band2	20MHz	19100	50RB#0	21.32	20.03	22.5±1.0	21.0±1.0
NTNV	Band2	20MHz	19100	50RB#25	21.36	20.04	22.5±1.0	21.0±1.0
NTNV	Band2	20MHz	19100	50RB#50	21.47	20.16	22.5±1.0	21.0±1.0
NTNV	Band2	20MHz	19100	100RB#0	21.41	19.98	22.5±1.0	20.0±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band4	1.4MHz	19957	1RB#0	21.39	20.37	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	19957	1RB#2	21.29	20.50	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	19957	1RB#5	21.31	20.45	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	19957	3RB#0	21.55	20.57	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	19957	3RB#1	21.54	20.54	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	19957	3RB#3	21.60	20.59	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	19957	6RB#0	20.95	19.69	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20175	1RB#0	21.34	21.34	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20175	1RB#2	21.43	21.30	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20175	1RB#5	21.38	21.34	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20175	3RB#0	21.41	20.20	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20175	3RB#1	21.40	20.21	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20175	3RB#3	21.42	20.20	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20175	6RB#0	20.88	19.85	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20393	1RB#0	21.11	20.68	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20393	1RB#2	21.19	20.85	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20393	1RB#5	21.24	20.82	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20393	3RB#0	21.39	20.24	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20393	3RB#1	21.30	20.27	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20393	3RB#3	21.39	20.24	21.0±1.0	20.5±1.0
NTNV	Band4	1.4MHz	20393	6RB#0	20.88	19.34	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	19965	1RB#0	21.43	20.13	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	19965	1RB#8	21.46	20.07	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	19965	1RB#14	21.33	20.04	21.0±1.0	20.5±1.0

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NTNV	Band4	3MHz	19965	8RB#0	20.88	19.73	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	19965	8RB#4	20.99	19.72	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	19965	8RB#7	20.82	19.61	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	19965	15RB#0	20.93	19.49	21.0±1.0	20.0±1.0
NTNV	Band4	3MHz	20175	1RB#0	21.44	20.97	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20175	1RB#8	21.35	20.95	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20175	1RB#14	21.45	20.90	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20175	8RB#0	20.95	19.65	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20175	8RB#4	20.94	19.72	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20175	8RB#7	20.91	19.62	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20175	15RB#0	20.89	19.56	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20385	1RB#0	21.19	20.15	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20385	1RB#8	21.23	20.17	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20385	1RB#14	21.29	20.20	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20385	8RB#0	20.87	19.59	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20385	8RB#4	20.76	19.50	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20385	8RB#7	20.90	19.59	21.0±1.0	20.5±1.0
NTNV	Band4	3MHz	20385	15RB#0	20.75	19.40	21.0±1.0	20.0±1.0
NTNV	Band4	5MHz	19975	1RB#0	21.38	20.75	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	19975	1RB#12	21.27	20.73	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	19975	1RB#24	21.29	20.68	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	19975	12RB#0	21.06	19.66	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	19975	12RB#6	20.92	19.66	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	19975	12RB#13	20.91	19.57	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	19975	25RB#0	20.91	19.54	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20175	1RB#0	21.56	20.57	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20175	1RB#12	21.56	20.55	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20175	1RB#24	21.60	20.56	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20175	12RB#0	20.98	19.51	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20175	12RB#6	20.95	19.50	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20175	12RB#13	20.89	19.55	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20175	25RB#0	20.90	19.61	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20375	1RB#0	21.33	19.74	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20375	1RB#12	21.31	19.80	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20375	1RB#24	21.44	19.94	21.0±1.0	20.5±1.0
NTNV	Band4	5MHz	20375	12RB#0	20.75	19.43	21.0±1.0	20.0±1.0
NTNV	Band4	5MHz	20375	12RB#6	20.80	19.42	21.0±1.0	20.0±1.0
NTNV	Band4	5MHz	20375	12RB#13	20.89	19.42	21.0±1.0	20.0±1.0
NTNV	Band4	5MHz	20375	25RB#0	20.76	19.57	21.0±1.0	20.5±1.0



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NTNV	Band4	10MHz	20000	1RB#0	21.27	20.49	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20000	1RB#24	21.30	20.42	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20000	1RB#49	21.27	20.47	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20000	25RB#0	20.81	19.65	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20000	25RB#12	20.93	19.65	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20000	25RB#25	20.96	19.76	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20000	50RB#0	20.96	19.55	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20175	1RB#0	21.58	20.39	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20175	1RB#24	21.51	20.38	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20175	1RB#49	21.62	20.39	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20175	25RB#0	21.01	19.68	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20175	25RB#12	20.98	19.67	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20175	25RB#25	20.87	19.65	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20175	50RB#0	20.91	19.56	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20350	1RB#0	21.19	20.20	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20350	1RB#24	21.26	20.27	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20350	1RB#49	21.45	20.31	21.0±1.0	20.5±1.0
NTNV	Band4	10MHz	20350	25RB#0	20.67	19.37	21.0±1.0	20.0±1.0
NTNV	Band4	10MHz	20350	25RB#12	20.79	19.39	21.0±1.0	20.0±1.0
NTNV	Band4	10MHz	20350	25RB#25	20.87	19.46	21.0±1.0	20.0±1.0
NTNV	Band4	10MHz	20350	50RB#0	20.75	19.47	21.0±1.0	20.0±1.0
NTNV	Band4	15MHz	20025	1RB#0	21.23	20.53	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20025	1RB#38	21.24	20.59	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20025	1RB#74	21.35	20.64	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20025	38RB#0	20.55	20.59	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20025	38RB#18	20.55	20.60	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20025	38RB#37	20.65	20.63	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20025	75RB#0	20.98	19.66	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20175	1RB#0	21.65	20.41	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20175	1RB#38	21.59	20.38	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20175	1RB#74	21.51	20.34	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20175	38RB#0	20.35	20.43	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20175	38RB#18	20.41	20.37	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20175	38RB#37	20.29	20.33	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20175	75RB#0	20.89	19.56	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20325	1RB#0	21.26	20.20	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20325	1RB#38	21.22	20.22	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20325	1RB#74	21.40	20.38	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20325	38RB#0	20.25	20.23	21.0±1.0	20.5±1.0



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NTNV	Band4	15MHz	20325	38RB#18	20.23	20.27	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20325	38RB#37	20.34	20.34	21.0±1.0	20.5±1.0
NTNV	Band4	15MHz	20325	75RB#0	20.83	19.46	21.0±1.0	20.0±1.0
NTNV	Band4	20MHz	20050	1RB#0	21.54	20.92	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20050	1RB#49	21.54	20.93	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20050	1RB#99	21.66	20.96	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20050	50RB#0	20.88	19.62	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20050	50RB#25	20.93	19.61	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20050	50RB#50	21.03	19.73	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20050	100RB#0	20.91	19.66	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20175	1RB#0	21.36	20.66	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20175	1RB#49	21.30	20.66	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20175	1RB#99	21.28	20.58	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20175	50RB#0	21.01	19.80	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20175	50RB#25	20.95	19.69	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20175	50RB#50	20.92	19.56	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20175	100RB#0	20.93	19.44	21.0±1.0	20.0±1.0
NTNV	Band4	20MHz	20300	1RB#0	21.69	19.62	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20300	1RB#49	21.65	19.56	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20300	1RB#99	21.77	19.65	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20300	50RB#0	20.84	19.47	21.0±1.0	20.0±1.0
NTNV	Band4	20MHz	20300	50RB#25	20.82	19.48	21.0±1.0	20.0±1.0
NTNV	Band4	20MHz	20300	50RB#50	20.94	19.62	21.0±1.0	20.5±1.0
NTNV	Band4	20MHz	20300	100RB#0	20.85	19.40	21.0±1.0	20.0±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band5	1.4MHz	20407	1RB#0	22.59	22.26	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20407	1RB#2	22.55	22.32	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20407	1RB#5	22.63	22.22	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20407	3RB#0	22.61	21.67	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20407	3RB#1	22.61	21.69	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20407	3RB#3	22.66	21.65	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20407	6RB#0	22.02	21.00	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20525	1RB#0	22.35	21.71	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20525	1RB#2	22.55	21.69	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20525	1RB#5	22.41	21.69	22.0±1.0	21.5±1.0



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NTNV	Band5	1.4MHz	20525	3RB#0	22.56	21.16	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20525	3RB#1	22.63	21.19	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20525	3RB#3	22.60	21.14	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20525	6RB#0	21.97	21.00	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20643	1RB#0	22.48	21.11	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20643	1RB#2	22.41	21.05	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20643	1RB#5	22.51	21.08	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20643	3RB#0	22.33	20.94	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20643	3RB#1	22.32	20.99	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20643	3RB#3	22.36	20.96	22.0±1.0	21.5±1.0
NTNV	Band5	1.4MHz	20643	6RB#0	21.86	20.75	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20415	1RB#0	22.46	21.83	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20415	1RB#8	22.48	21.87	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20415	1RB#14	22.61	21.47	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20415	8RB#0	22.09	21.11	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20415	8RB#4	21.98	21.12	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20415	8RB#7	22.09	20.82	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20415	15RB#0	21.95	20.88	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20525	1RB#0	22.47	21.25	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20525	1RB#8	22.41	21.25	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20525	1RB#14	22.44	21.22	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20525	8RB#0	21.88	20.92	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20525	8RB#4	21.97	20.90	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20525	8RB#7	22.04	20.87	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20525	15RB#0	22.05	20.70	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20635	1RB#0	22.44	22.01	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20635	1RB#8	22.48	22.03	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20635	1RB#14	22.50	21.96	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20635	8RB#0	21.93	20.88	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20635	8RB#4	21.94	20.93	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20635	8RB#7	21.85	20.92	22.0±1.0	21.5±1.0
NTNV	Band5	3MHz	20635	15RB#0	21.83	20.82	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20425	1RB#0	22.67	21.87	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20425	1RB#12	22.57	21.51	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20425	1RB#24	22.65	21.60	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20425	12RB#0	22.10	20.96	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20425	12RB#6	22.04	20.96	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20425	12RB#13	22.10	20.64	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20425	25RB#0	22.11	20.52	22.0±1.0	21.5±1.0



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NTNV	Band5	5MHz	20525	1RB#0	22.61	21.58	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20525	1RB#12	22.67	21.46	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20525	1RB#24	22.64	21.44	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20525	12RB#0	21.98	20.82	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20525	12RB#6	22.06	20.82	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20525	12RB#13	22.02	20.81	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20525	25RB#0	22.06	20.83	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20625	1RB#0	22.42	20.77	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20625	1RB#12	22.38	20.74	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20625	1RB#24	22.47	20.76	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20625	12RB#0	22.00	20.36	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20625	12RB#6	21.81	20.38	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20625	12RB#13	21.97	20.72	22.0±1.0	21.5±1.0
NTNV	Band5	5MHz	20625	25RB#0	21.86	20.89	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20450	1RB#0	22.43	21.85	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20450	1RB#24	22.48	21.49	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20450	1RB#49	22.40	21.45	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20450	25RB#0	22.03	20.78	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20450	25RB#12	22.17	20.72	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20450	25RB#25	22.07	20.67	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20450	50RB#0	21.99	21.00	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20525	1RB#0	22.63	21.40	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20525	1RB#24	22.60	21.34	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20525	1RB#49	22.57	21.64	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20525	25RB#0	21.98	20.95	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20525	25RB#12	21.97	20.95	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20525	25RB#25	22.03	20.58	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20525	50RB#0	21.85	20.87	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20600	1RB#0	22.31	21.15	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20600	1RB#24	22.29	21.11	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20600	1RB#49	22.39	21.23	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20600	25RB#0	21.86	20.69	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20600	25RB#12	21.90	20.70	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20600	25RB#25	21.99	20.76	22.0±1.0	21.5±1.0
NTNV	Band5	10MHz	20600	50RB#0	21.87	20.81	22.0±1.0	21.5±1.0



Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band7	5MHz	20775	1RB#0	20.61	19.17	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	20775	1RB#12	20.61	19.17	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	20775	1RB#24	20.63	19.15	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	20775	12RB#0	20.11	18.81	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	20775	12RB#6	20.12	18.76	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	20775	12RB#13	20.15	18.78	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	20775	25RB#0	20.15	18.87	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21100	1RB#0	21.07	19.53	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21100	1RB#12	21.18	19.62	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21100	1RB#24	21.23	19.67	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21100	12RB#0	20.58	19.24	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21100	12RB#6	20.60	19.26	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21100	12RB#13	20.64	19.20	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21100	25RB#0	20.55	19.34	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21425	1RB#0	21.28	20.25	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21425	1RB#12	21.24	20.27	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21425	1RB#24	21.32	20.27	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21425	12RB#0	20.93	19.41	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21425	12RB#6	20.92	19.41	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21425	12RB#13	20.77	19.34	20.5±1.0	19.5±1.0
NTNV	Band7	5MHz	21425	25RB#0	20.83	19.22	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	20800	1RB#0	20.69	19.42	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	20800	1RB#24	20.74	19.42	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	20800	1RB#49	20.74	19.37	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	20800	25RB#0	20.35	19.01	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	20800	25RB#12	20.34	18.97	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	20800	25RB#25	20.32	18.98	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	20800	50RB#0	20.26	18.84	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21100	1RB#0	21.03	20.00	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21100	1RB#24	21.32	20.11	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21100	1RB#49	21.30	20.22	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21100	25RB#0	20.58	19.31	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21100	25RB#12	20.64	19.38	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21100	25RB#25	20.72	19.42	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21100	50RB#0	20.61	19.31	20.5±1.0	19.5±1.0



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NTNV	Band7	10MHz	21400	1RB#0	21.23	20.20	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21400	1RB#24	21.23	20.21	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21400	1RB#49	21.39	20.32	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21400	25RB#0	20.90	19.47	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21400	25RB#12	20.90	19.37	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21400	25RB#25	20.82	19.43	20.5±1.0	19.5±1.0
NTNV	Band7	10MHz	21400	50RB#0	20.78	19.45	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	20825	1RB#0	20.51	19.98	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	20825	1RB#38	20.48	19.92	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	20825	1RB#74	20.46	19.82	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	20825	38RB#0	19.86	19.95	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	20825	38RB#18	19.78	19.93	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	20825	38RB#37	19.83	19.77	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	20825	75RB#0	20.11	18.68	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21100	1RB#0	20.93	20.03	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21100	1RB#38	21.21	20.31	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21100	1RB#74	21.51	20.53	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21100	38RB#0	20.05	19.94	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21100	38RB#18	20.31	20.29	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21100	38RB#37	20.51	20.52	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21100	75RB#0	20.58	19.17	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21375	1RB#0	21.19	20.26	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21375	1RB#38	21.26	20.34	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21375	1RB#74	21.24	20.29	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21375	38RB#0	20.24	20.25	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21375	38RB#18	20.25	20.25	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21375	38RB#37	20.25	20.24	20.5±1.0	19.5±1.0
NTNV	Band7	15MHz	21375	75RB#0	20.97	19.45	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	20850	1RB#0	20.72	20.02	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	20850	1RB#49	20.84	19.95	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	20850	1RB#99	20.98	20.16	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	20850	50RB#0	20.22	18.73	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	20850	50RB#25	20.07	18.81	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	20850	50RB#50	20.24	18.71	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	20850	100RB#0	20.11	18.87	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21100	1RB#0	20.55	20.06	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21100	1RB#49	20.99	20.43	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21100	1RB#99	21.30	20.55	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21100	50RB#0	20.53	19.24	20.5±1.0	19.5±1.0



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NTNV	Band7	20MHz	21100	50RB#25	20.47	19.26	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21100	50RB#50	20.73	19.58	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21100	100RB#0	20.54	19.20	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21350	1RB#0	21.38	19.96	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21350	1RB#49	21.38	19.98	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21350	1RB#99	21.52	20.05	21.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21350	50RB#0	20.86	19.61	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21350	50RB#25	20.90	19.55	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21350	50RB#50	20.74	19.55	20.5±1.0	19.5±1.0
NTNV	Band7	20MHz	21350	100RB#0	20.87	19.39	20.5±1.0	19.5±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band12	1.4MHz	23017	1RB#0	22.61	21.32	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23017	1RB#2	22.62	21.26	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23017	1RB#5	22.64	21.26	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23017	3RB#0	22.62	21.27	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23017	3RB#1	22.59	21.27	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23017	3RB#3	22.55	21.19	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23017	6RB#0	22.03	20.87	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23095	1RB#0	22.44	21.97	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23095	1RB#2	22.58	21.91	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23095	1RB#5	22.48	21.97	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23095	3RB#0	22.58	21.35	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23095	3RB#1	22.61	21.30	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23095	3RB#3	22.66	21.35	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23095	6RB#0	22.12	20.68	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23173	1RB#0	22.55	21.97	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23173	1RB#2	22.56	22.12	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23173	1RB#5	22.56	22.03	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23173	3RB#0	22.67	21.29	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23173	3RB#1	22.60	21.27	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23173	3RB#3	22.67	21.30	22.0±1.0	21.0±1.0
NTNV	Band12	1.4MHz	23173	6RB#0	22.11	20.58	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23025	1RB#0	22.54	21.23	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23025	1RB#8	22.47	21.19	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23025	1RB#14	22.62	21.22	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23025	8RB#0	21.94	20.98	22.0±1.0	21.0±1.0



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NTNV	Band12	3MHz	23025	8RB#4	22.06	20.99	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23025	8RB#7	21.97	20.66	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23025	15RB#0	22.00	20.72	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23095	1RB#0	22.50	21.83	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23095	1RB#8	22.53	21.97	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23095	1RB#14	22.47	21.89	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23095	8RB#0	21.95	20.63	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23095	8RB#4	21.96	20.58	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23095	8RB#7	21.97	20.67	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23095	15RB#0	22.03	20.56	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23165	1RB#0	22.46	21.38	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23165	1RB#8	22.50	21.30	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23165	1RB#14	22.53	21.36	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23165	8RB#0	21.96	21.09	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23165	8RB#4	21.95	21.11	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23165	8RB#7	22.06	20.77	22.0±1.0	21.0±1.0
NTNV	Band12	3MHz	23165	15RB#0	22.03	20.90	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23035	1RB#0	22.44	21.41	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23035	1RB#12	22.53	21.40	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23035	1RB#24	22.56	21.81	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23035	12RB#0	22.06	20.86	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23035	12RB#6	22.02	20.88	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23035	12RB#13	22.04	20.52	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23035	25RB#0	21.99	20.46	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23095	1RB#0	22.63	21.35	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23095	1RB#12	22.56	21.35	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23095	1RB#24	22.62	21.46	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23095	12RB#0	21.99	20.55	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23095	12RB#6	22.01	20.46	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23095	12RB#13	22.06	20.54	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23095	25RB#0	22.02	20.57	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23155	1RB#0	22.48	20.93	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23155	1RB#12	22.51	20.91	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23155	1RB#24	22.56	20.96	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23155	12RB#0	21.95	20.59	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23155	12RB#6	21.95	20.62	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23155	12RB#13	22.01	20.92	22.0±1.0	21.0±1.0
NTNV	Band12	5MHz	23155	25RB#0	22.04	20.99	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23060	1RB#0	22.50	21.11	22.0±1.0	21.0±1.0



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NTNV	Band12	10MHz	23060	1RB#24	22.53	21.47	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23060	1RB#49	22.62	21.25	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23060	25RB#0	22.08	20.59	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23060	25RB#12	22.07	20.64	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23060	25RB#25	22.08	20.63	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23060	50RB#0	22.07	20.87	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23095	1RB#0	22.57	21.26	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23095	1RB#24	22.55	21.40	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23095	1RB#49	22.61	21.44	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23095	25RB#0	22.04	20.64	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23095	25RB#12	22.04	20.61	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23095	25RB#25	22.14	21.04	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23095	50RB#0	22.13	20.58	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23130	1RB#0	22.43	21.20	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23130	1RB#24	22.39	21.16	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23130	1RB#49	22.46	21.28	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23130	25RB#0	22.02	20.40	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23130	25RB#12	22.05	20.41	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23130	25RB#25	22.08	20.90	22.0±1.0	21.0±1.0
NTNV	Band12	10MHz	23130	50RB#0	22.09	20.92	22.0±1.0	21.0±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band13	5MHz	23205	1RB#0	22.46	21.18	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23205	1RB#12	22.30	21.24	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23205	1RB#24	22.33	21.24	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23205	12RB#0	21.92	20.78	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23205	12RB#6	21.83	20.76	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23205	12RB#13	21.92	20.38	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23205	25RB#0	21.87	20.26	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23230	1RB#0	22.32	20.69	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23230	1RB#12	22.28	20.69	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23230	1RB#24	22.32	20.61	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23230	12RB#0	21.80	20.37	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23230	12RB#6	21.81	20.37	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23230	12RB#13	21.77	20.24	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23230	25RB#0	21.79	20.43	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23255	1RB#0	22.30	21.22	22.0±1.0	20.5±1.0



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NTNV	Band13	5MHz	23255	1RB#12	22.27	21.13	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23255	1RB#24	22.21	21.14	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23255	12RB#0	21.73	20.29	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23255	12RB#6	21.74	20.33	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23255	12RB#13	21.80	20.61	22.0±1.0	20.5±1.0
NTNV	Band13	5MHz	23255	25RB#0	21.63	20.13	22.0±1.0	20.5±1.0
NTNV	Band13	10MHz	23230	1RB#0	22.40	20.96	22.0±1.0	20.5±1.0
NTNV	Band13	10MHz	23230	1RB#24	22.35	20.99	22.0±1.0	20.5±1.0
NTNV	Band13	10MHz	23230	1RB#49	22.32	20.91	22.0±1.0	20.5±1.0
NTNV	Band13	10MHz	23230	25RB#0	21.77	20.52	22.0±1.0	20.5±1.0
NTNV	Band13	10MHz	23230	25RB#12	21.77	20.51	22.0±1.0	20.5±1.0
NTNV	Band13	10MHz	23230	25RB#25	21.74	20.39	22.0±1.0	20.5±1.0
NTNV	Band13	10MHz	23230	50RB#0	21.83	20.35	22.0±1.0	20.5±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band17	5MHz	23755	1RB#0	22.46	21.68	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23755	1RB#12	22.50	21.43	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23755	1RB#24	22.54	21.49	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23755	12RB#0	22.03	20.49	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23755	12RB#6	22.12	20.46	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23755	12RB#13	22.02	20.52	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23755	25RB#0	22.00	20.43	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23790	1RB#0	22.68	20.97	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23790	1RB#12	22.54	21.05	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23790	1RB#24	22.56	20.97	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23790	12RB#0	22.09	20.46	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23790	12RB#6	22.11	20.45	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23790	12RB#13	22.10	20.53	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23790	25RB#0	22.00	20.95	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23825	1RB#0	22.51	21.47	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23825	1RB#12	22.48	21.47	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23825	1RB#24	22.57	21.55	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23825	12RB#0	21.94	20.55	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23825	12RB#6	21.95	20.55	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23825	12RB#13	22.07	20.85	22.0±1.0	21.0±1.0
NTNV	Band17	5MHz	23825	25RB#0	21.97	20.83	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23780	1RB#0	22.52	21.43	22.0±1.0	21.0±1.0



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NTNV	Band17	10MHz	23780	1RB#24	22.56	21.21	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23780	1RB#49	22.58	21.12	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23780	25RB#0	22.04	20.57	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23780	25RB#12	22.05	20.55	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23780	25RB#25	22.14	20.70	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23780	50RB#0	21.96	20.50	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23790	1RB#0	22.56	21.38	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23790	1RB#24	22.56	21.41	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23790	1RB#49	22.55	21.47	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23790	25RB#0	22.04	20.59	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23790	25RB#12	22.07	20.60	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23790	25RB#25	22.12	20.75	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23790	50RB#0	22.08	21.01	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23800	1RB#0	22.43	21.22	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23800	1RB#24	22.43	21.15	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23800	1RB#49	22.46	21.50	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23800	25RB#0	22.02	20.40	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23800	25RB#12	22.03	20.39	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23800	25RB#25	22.08	20.89	22.0±1.0	21.0±1.0
NTNV	Band17	10MHz	23800	50RB#0	22.08	20.91	22.0±1.0	21.0±1.0

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band66	1.4MHz	131979	1RB#0	21.20	21.17	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	131979	1RB#2	21.24	21.21	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	131979	1RB#5	21.28	21.23	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	131979	3RB#0	21.34	20.07	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	131979	3RB#1	21.31	20.06	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	131979	3RB#3	21.31	20.10	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	131979	6RB#0	20.80	19.69	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132322	1RB#0	21.01	20.76	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132322	1RB#2	21.09	20.67	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132322	1RB#5	21.10	20.74	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132322	3RB#0	21.26	20.24	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132322	3RB#1	21.21	20.20	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132322	3RB#3	21.25	20.19	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132322	6RB#0	20.76	19.19	21.0±1.0	20.0±1.0
NTNV	Band66	1.4MHz	132665	1RB#0	21.73	20.86	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132665	1RB#2	21.83	20.89	21.0±1.0	20.5±1.0

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-b

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NTNV	Band66	1.4MHz	132665	1RB#5	21.83	20.96	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132665	3RB#0	21.99	20.95	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132665	3RB#1	22.03	20.96	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132665	3RB#3	22.09	20.89	21.0±1.0	20.5±1.0
NTNV	Band66	1.4MHz	132665	6RB#0	21.46	20.25	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	131987	1RB#0	21.17	20.30	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	131987	1RB#8	21.19	20.23	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	131987	1RB#14	21.18	20.34	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	131987	8RB#0	20.76	19.64	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	131987	8RB#4	20.80	19.62	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	131987	8RB#7	20.86	19.66	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	131987	15RB#0	20.85	19.38	21.0±1.0	20.0±1.0
NTNV	Band66	3MHz	132322	1RB#0	21.11	20.66	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	132322	1RB#8	21.14	20.72	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	132322	1RB#14	21.18	20.83	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	132322	8RB#0	20.72	19.48	21.0±1.0	20.0±1.0
NTNV	Band66	3MHz	132322	8RB#4	20.72	19.51	21.0±1.0	20.0±1.0
NTNV	Band66	3MHz	132322	8RB#7	20.68	19.46	21.0±1.0	20.0±1.0
NTNV	Band66	3MHz	132322	15RB#0	20.72	19.41	21.0±1.0	20.0±1.0
NTNV	Band66	3MHz	132657	1RB#0	21.91	21.03	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	132657	1RB#8	21.95	21.07	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	132657	1RB#14	21.97	21.07	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	132657	8RB#0	21.57	20.34	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	132657	8RB#4	21.54	20.36	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	132657	8RB#7	21.63	20.34	21.0±1.0	20.5±1.0
NTNV	Band66	3MHz	132657	15RB#0	21.48	20.16	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	131997	1RB#0	21.37	20.29	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	131997	1RB#12	21.35	20.42	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	131997	1RB#24	21.47	20.48	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	131997	12RB#0	20.90	19.44	21.0±1.0	20.0±1.0
NTNV	Band66	5MHz	131997	12RB#6	20.79	19.45	21.0±1.0	20.0±1.0
NTNV	Band66	5MHz	131997	12RB#13	20.94	19.43	21.0±1.0	20.0±1.0
NTNV	Band66	5MHz	131997	25RB#0	20.92	19.37	21.0±1.0	20.0±1.0
NTNV	Band66	5MHz	132322	1RB#0	21.35	20.32	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	132322	1RB#12	21.35	20.30	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	132322	1RB#24	21.42	20.37	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	132322	12RB#0	20.67	19.33	21.0±1.0	20.0±1.0
NTNV	Band66	5MHz	132322	12RB#6	20.68	19.34	21.0±1.0	20.0±1.0
NTNV	Band66	5MHz	132322	12RB#13	20.71	19.40	21.0±1.0	20.0±1.0



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NTNV	Band66	5MHz	132322	25RB#0	20.71	19.42	21.0±1.0	20.0±1.0
NTNV	Band66	5MHz	132647	1RB#0	22.11	20.54	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	132647	1RB#12	22.01	20.48	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	132647	1RB#24	22.02	20.50	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	132647	12RB#0	21.50	20.13	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	132647	12RB#6	21.58	20.18	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	132647	12RB#13	21.61	20.15	21.0±1.0	20.5±1.0
NTNV	Band66	5MHz	132647	25RB#0	21.49	20.29	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132022	1RB#0	21.23	19.92	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132022	1RB#24	21.42	20.05	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132022	1RB#49	21.39	20.09	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132022	25RB#0	20.79	19.61	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132022	25RB#12	20.82	19.59	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132022	25RB#25	20.98	19.66	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132022	50RB#0	20.96	19.55	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132322	1RB#0	21.27	20.66	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132322	1RB#24	21.27	20.59	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132322	1RB#49	21.34	20.59	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132322	25RB#0	20.67	19.42	21.0±1.0	20.0±1.0
NTNV	Band66	10MHz	132322	25RB#12	20.67	19.43	21.0±1.0	20.0±1.0
NTNV	Band66	10MHz	132322	25RB#25	20.67	19.42	21.0±1.0	20.0±1.0
NTNV	Band66	10MHz	132322	50RB#0	20.83	19.49	21.0±1.0	20.0±1.0
NTNV	Band66	10MHz	132622	1RB#0	21.75	20.70	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132622	1RB#24	22.02	21.01	21.5±1.0	20.5±1.0
NTNV	Band66	10MHz	132622	1RB#49	21.98	20.95	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132622	25RB#0	21.34	19.93	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132622	25RB#12	21.44	20.01	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132622	25RB#25	21.60	20.15	21.0±1.0	20.5±1.0
NTNV	Band66	10MHz	132622	50RB#0	21.64	20.21	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132047	1RB#0	21.22	20.61	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132047	1RB#38	21.35	20.75	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132047	1RB#74	21.19	20.65	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132047	38RB#0	20.65	20.57	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132047	38RB#18	20.73	20.77	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132047	38RB#37	20.67	20.64	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132047	75RB#0	20.96	19.66	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132322	1RB#0	21.33	20.68	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132322	1RB#38	21.29	20.67	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132322	1RB#74	21.35	20.74	21.0±1.0	20.5±1.0



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NTNV	Band66	15MHz	132322	38RB#0	20.64	20.59	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132322	38RB#18	20.64	20.55	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132322	38RB#37	20.63	20.65	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132322	75RB#0	20.78	19.34	21.0±1.0	20.0±1.0
NTNV	Band66	15MHz	132597	1RB#0	21.56	20.54	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132597	1RB#38	21.85	20.81	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132597	1RB#74	21.93	21.04	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132597	38RB#0	20.52	20.53	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132597	38RB#18	20.77	20.78	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132597	38RB#37	21.19	21.15	21.0±1.0	20.5±1.0
NTNV	Band66	15MHz	132597	75RB#0	21.46	19.99	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132072	1RB#0	21.38	20.35	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132072	1RB#49	21.51	20.60	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132072	1RB#99	21.66	20.63	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132072	50RB#0	20.82	19.63	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132072	50RB#25	20.97	19.63	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132072	50RB#50	21.00	19.77	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132072	100RB#0	20.94	19.59	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132322	1RB#0	21.47	20.59	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132322	1RB#49	21.41	20.52	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132322	1RB#99	21.55	20.71	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132322	50RB#0	20.74	19.41	21.0±1.0	20.0±1.0
NTNV	Band66	20MHz	132322	50RB#25	20.82	19.38	21.0±1.0	20.0±1.0
NTNV	Band66	20MHz	132322	50RB#50	20.78	19.45	21.0±1.0	20.0±1.0
NTNV	Band66	20MHz	132322	100RB#0	20.85	19.45	21.0±1.0	20.0±1.0
NTNV	Band66	20MHz	132572	1RB#0	21.37	20.73	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132572	1RB#49	21.75	21.06	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132572	1RB#99	22.00	21.34	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132572	50RB#0	21.23	19.92	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132572	50RB#25	21.29	20.03	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132572	50RB#50	21.67	20.49	21.0±1.0	20.5±1.0
NTNV	Band66	20MHz	132572	100RB#0	21.40	20.02	21.0±1.0	20.5±1.0



<WLAN 2.4GHz Conducted Power>

Mode	Channel	Frequency (MHz)	Conducted Average Output Power(dBm)	Tune-up power(dBm)
802.11b	1	2412	13.98	14.50
	6	2437	13.84	14.50
	11	2462	12.64	14.50
802.11g	1	2412	13.35	14.50
	6	2437	13.38	14.50
	11	2462	12.92	14.50
802.11n(HT20)	1	2412	14.07	14.50
	6	2437	14.09	14.50
	11	2462	12.70	14.50

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:

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

$f(\text{GHz})$ 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

2. Base on the result of note1, RF exposure evaluation of 2.4G WIFI mode is required.

3. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.

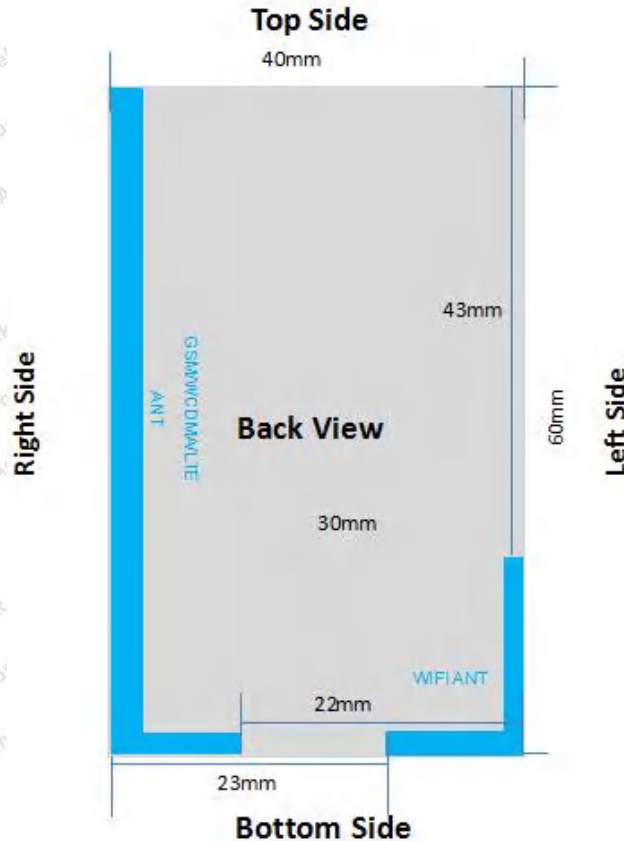
4. Per KDB 248227 D01, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:

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.



11. Antenna Location



Distance of The Antenna to the EUT surface and edge						
Antennas	Front	Back	Top Side	Bottom Side	Left Side	Right Side
WIFI	<25mm	<25mm	>25mm	<25mm	<25mm	<25mm
GSM/WCDMA /LTE	<25mm	<25mm	<25mm	<25mm	<25mm	<25mm

Positions for SAR tests; Body mode						
Antennas	Front	Back	Top Side	Bottom Side	Left Side	Right Side
WIFI	Yes	Yes	No	Yes	Yes	Yes
GSM/WCDMA A/LTE	Yes	Yes	Yes	Yes	Yes	Yes

General Note: According with FCC KDB 447498 D01, appendix A, <SAR test exclusion thresholds for 100MHz~6GHz and≤50mm> table, this device SAR test configurations considerations are shown in the table above.

Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.



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 $SAR \leq 0.8W/kg$, other channels SAR testing are not necessary

3.Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.

4.Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.

5.Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are $\leq 0.8 W/kg$. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is $> 1.45 W/kg$, the remaining required test channels must also be tested.

6.Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is $\leq 1.45 W/kg$; Per KDB 941225 D05, 16QAM SAR testing is not required.

7.Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is $\leq 1.45 W/kg$; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.

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

9.When the user enables the personal Wireless router functions for the handsets, actual operation include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



12.1. Body-worn SAR Results

<GSM>

Plot No.	Band	Mode	Test Position	Gap (mm)	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)
#1	GSM850	GPRS(2 Tx slots)	Front	0	190	836.6	23.71	24.00	1.069	0.10	0.747	0.799
	GSM850	GPRS(2 Tx slots)	Back	0	190	836.6	23.71	24.00	1.069	0.14	0.619	0.662
	GSM850	GPRS(2 Tx slots)	Left Side	0	190	836.6	23.71	24.00	1.069	-0.11	0.345	0.369
	GSM850	GPRS(2 Tx slots)	Right Side	0	190	836.6	23.71	24.00	1.069	-0.02	0.716	0.765
	GSM850	GPRS(2 Tx slots)	Top Side	0	190	836.6	23.71	24.00	1.069	0.01	0.693	0.741
	GSM850	GPRS(2 Tx slots)	Bottom Side	0	190	836.6	23.71	24.00	1.069	0.14	0.682	0.729
#2	PCS1900	GPRS(3 Tx slots)	Front	0	661	1880.0	20.33	20.50	1.040	0.05	0.537	0.558
	PCS1900	GPRS(3 Tx slots)	Back	0	661	1880.0	20.33	20.50	1.040	0.07	0.408	0.424
	PCS1900	GPRS(3 Tx slots)	Left Side	0	661	1880.0	20.33	20.50	1.040	-0.12	0.159	0.165
	PCS1900	GPRS(3 Tx slots)	Right Side	0	661	1880.0	20.33	20.50	1.040	0.05	0.501	0.521
	PCS1900	GPRS(3 Tx slots)	Top Side	0	661	1880.0	20.33	20.50	1.040	0.02	0.482	0.501
	PCS1900	GPRS(3 Tx slots)	Bottom Side	0	661	1880.0	20.33	20.50	1.040	-0.07	0.471	0.490

<WCDMA>

Plot No.	Band	Mode	Test Position	Gap (mm)	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 II	RMC 12.2K	Back	0	9262	1852.4	22.84	23.00	1.038	-0.15	0.537	0.557
#3	WCDMA Band II	RMC 12.2K	Front	0	9262	1852.4	22.84	23.00	1.038	0.07	0.625	0.648



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	WCDMA Band II	RMC 12.2K	Left Side	0	9262	1852.4	22.84	23.00	1.038	-0.13	0.258	0.268
	WCDMA Band II	RMC 12.2K	Right Side	0	9262	1852.4	22.84	23.00	1.038	-0.13	0.512	0.531
	WCDMA Band II	RMC 12.2K	Top Side	0	9262	1852.4	22.84	23.00	1.038	0.03	0.496	0.515
	WCDMA Band II	RMC 12.2K	Bottom Side	0	9262	1852.4	22.84	23.00	1.038	0.08	0.485	0.503
	WCDMA Band V	RMC 12.2K	Back	0	4233	846.6	23.17	23.50	1.079	-0.13	0.563	0.607
#4	WCDMA Band V	RMC 12.2K	Front	0	4233	846.6	23.17	23.50	1.079	-0.03	0.658	0.710
	WCDMA Band V	RMC 12.2K	Left Side	0	4233	846.6	23.17	23.50	1.079	-0.14	0.289	0.312
	WCDMA Band V	RMC 12.2K	Right Side	0	4233	846.6	23.17	23.50	1.079	0.02	0.545	0.588
	WCDMA Band V	RMC 12.2K	Top Side	0	4233	846.6	23.17	23.50	1.079	0.04	0.502	0.542
	WCDMA Band V	RMC 12.2K	Bottom Side	0	4233	846.6	23.17	23.50	1.079	-0.13	0.499	0.538
	WCDMA Band IV	RMC 12.2K	Back	0	1412	1732.4	22.97	23.00	1.007	-0.14	0.545	0.549
#5	WCDMA Band IV	RMC 12.2K	Front	0	1412	1732.4	22.97	23.00	1.007	-0.05	0.636	0.640
	WCDMA Band IV	RMC 12.2K	Left Side	0	1412	1732.4	22.97	23.00	1.007	-0.10	0.269	0.271
	WCDMA Band IV	RMC 12.2K	Right Side	0	1412	1732.4	22.97	23.00	1.007	0.03	0.525	0.529
	WCDMA Band IV	RMC 12.2K	Top Side	0	1412	1732.4	22.97	23.00	1.007	0.05	0.504	0.507
	WCDMA Band IV	RMC 12.2K	Bottom Side	0	1412	1732.4	22.97	23.00	1.007	-0.11	0.492	0.495



<LTE>

Plot No.	Band	Mode	Test Position	Gap (mm)	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	Back	0	18700	1860	22.26	22.50	1.057	0.05	0.507	0.536
	LTE Band 2	20MHz/50RB	Back	0	18700	1860	21.65	22.00	1.084	0.13	0.441	0.478
#6	LTE Band 2	20MHz/1RB	Front	0	18700	1860	22.26	22.50	1.057	-0.07	0.593	0.627
	LTE Band 2	20MHz/50RB	Front	0	18700	1860	21.65	22.00	1.084	0.13	0.523	0.567
	LTE Band 2	20MHz/1RB	Left Side	0	18700	1860	22.26	22.50	1.057	-0.08	0.221	0.234
	LTE Band 2	20MHz/50RB	Left Side	0	18700	1860	21.65	22.00	1.084	-0.15	0.166	0.180
	LTE Band 2	20MHz/1RB	Right Side	0	18700	1860	22.26	22.50	1.057	-0.09	0.456	0.482
	LTE Band 2	20MHz/50RB	Right Side	0	18700	1860	21.65	22.00	1.084	-0.06	0.396	0.429
	LTE Band 2	20MHz/1RB	Top Side	0	18700	1860	22.26	22.50	1.057	0.06	0.475	0.502
	LTE Band 2	20MHz/50RB	Top Side	0	18700	1860	21.65	22.00	1.084	0.07	0.415	0.450
	LTE Band 2	20MHz/1RB	Bottom Side	0	18700	1860	22.26	22.50	1.057	-0.06	0.465	0.491
	LTE Band 2	20MHz/50RB	Bottom Side	0	18700	1860	21.65	22.00	1.084	0.04	0.403	0.437
	LTE Band 4	20MHz/1RB	Back	0	20300	1745	21.77	22.00	1.054	0.04	0.458	0.483
	LTE Band 4	20MHz/50RB	Back	0	20300	1745	20.94	21.00	1.014	0.12	0.375	0.380
#7	LTE Band 4	20MHz/1RB	Front	0	20300	1745	21.77	22.00	1.054	-0.06	0.541	0.570
	LTE Band 4	20MHz/50RB	Front	0	20300	1745	20.94	21.00	1.014	0.12	0.452	0.458
	LTE Band 4	20MHz/1RB	Left Side	0	20300	1745	21.77	22.00	1.054	-0.07	0.174	0.183
	LTE Band 4	20MHz/50RB	Left Side	0	20300	1745	20.94	21.00	1.014	-0.14	0.112	0.114
	LTE Band 4	20MHz/1RB	Right Side	0	20300	1745	21.77	22.00	1.054	-0.08	0.409	0.431
	LTE Band 4	20MHz/50RB	Right Side	0	20300	1745	20.94	21.00	1.014	-0.05	0.321	0.325
	LTE Band 4	20MHz/1RB	Top Side	0	20300	1745	21.77	22.00	1.054	0.07	0.426	0.449
	LTE Band 4	20MHz/50RB	Top Side	0	20300	1745	20.94	21.00	1.014	0.08	0.346	0.351



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	LTE Band 4	20MHz/1RB	Bottom Side	0	20300	1745	21.77	22.00	1.054	-0.05	0.419	0.442
	LTE Band 4	20MHz/50RB	Bottom Side	0	20300	1745	20.94	21.00	1.014	0.03	0.336	0.341
	LTE Band 5	10MHz/1RB	Back	0	20525	836.5	22.63	23.00	1.089	0.18	0.547	0.596
	LTE Band 5	10MHz/25RB	Back	0	20525	836.5	22.03	22.50	1.114	-0.14	0.485	0.540
#8	LTE Band 5	10MHz/1RB	Front	0	20525	836.5	22.63	23.00	1.089	0.13	0.632	0.688
	LTE Band 5	10MHz/25RB	Front	0	20525	836.5	22.03	22.50	1.114	0.05	0.569	0.634
	LTE Band 5	10MHz/1RB	Left Side	0	20525	836.5	22.63	23.00	1.089	-0.07	0.264	0.287
	LTE Band 5	10MHz/25RB	Left Side	0	20525	836.5	22.03	22.50	1.114	0.05	0.223	0.248
	LTE Band 5	10MHz/1RB	Right Side	0	20525	836.5	22.63	23.00	1.040	0.12	0.514	0.560
	LTE Band 5	10MHz/25RB	Right Side	0	20525	836.5	22.03	22.50	1.393	-0.07	0.458	0.510
	LTE Band 5	10MHz/1RB	Top Side	0	20525	836.5	22.63	23.00	1.040	0.08	0.539	0.587
	LTE Band 5	10MHz/25RB	Top Side	0	20525	836.5	22.03	22.50	1.393	0.09	0.479	0.534
	LTE Band 5	10MHz/1RB	Bottom Side	0	20525	836.5	22.63	23.00	1.040	0.15	0.521	0.567
	LTE Band 5	10MHz/25RB	Bottom Side	0	20525	836.5	22.03	22.50	1.393	0.07	0.464	0.517
	LTE Band 7	20MHz/1RB	Back	0	21350	2560	21.52	22.00	1.086	0.17	0.437	0.488
	LTE Band 7	20MHz/50RB	Back	0	21350	2560	20.90	21.00	1.114	-0.13	0.357	0.365
#9	LTE Band 7	20MHz/1RB	Front	0	21350	2560	21.52	22.00	1.117	0.12	0.524	0.585
	LTE Band 7	20MHz/50RB	Front	0	21350	2560	20.90	21.00	1.023	0.04	0.435	0.445
	LTE Band 7	20MHz/1RB	Left Side	0	21350	2560	21.52	22.00	1.117	-0.06	0.157	0.175
	LTE Band 7	20MHz/50RB	Left Side	0	21350	2560	20.90	21.00	1.023	0.04	0.135	0.138
	LTE Band 7	20MHz/1RB	Right Side	0	21350	2560	21.52	22.00	1.117	0.11	0.426	0.476
	LTE Band 7	20MHz/50RB	Right Side	0	21350	2560	20.90	21.00	1.023	-0.06	0.348	0.356
	LTE Band 7	20MHz/1RB	Top Side	0	21350	2560	21.52	22.00	1.117	0.09	0.442	0.494
	LTE Band 7	20MHz/50RB	Top Side	0	21350	2560	20.90	21.00	1.023	0.10	0.326	0.334
	LTE Band 7	20MHz/1RB	Bottom	0	21350	2560	21.52	22.00	1.117	0.14	0.401	0.448

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			Side									
	LTE Band 7	20MHz/50RB	Bottom Side	0	21350	2560	20.90	21.00	1.023	0.07	0.315	0.322
	LTE Band 12	10MHz/1RB	Back	0	23060	704	22.62	23.00	1.091	-0.12	0.531	0.580
	LTE Band 12	10MHz/25RB	Back	0	23060	704	22.08	22.50	1.102	-0.11	0.491	0.541
#10	LTE Band 12	10MHz/1RB	Front	0	23060	704	22.62	23.00	1.091	0.17	0.622	0.679
	LTE Band 12	10MHz/25RB	Front	0	23060	704	22.08	22.50	1.102	-0.13	0.577	0.636
	LTE Band 12	10MHz/1RB	Left Side	0	23060	704	22.62	23.00	1.091	0.05	0.253	0.276
	LTE Band 12	10MHz/25RB	Left Side	0	23060	704	22.08	22.50	1.102	-0.14	0.235	0.259
	LTE Band 12	10MHz/1RB	Right Side	0	23060	704	22.62	23.00	1.091	0.13	0.501	0.547
	LTE Band 12	10MHz/25RB	Right Side	0	23060	704	22.08	22.50	1.102	-0.09	0.468	0.516
	LTE Band 12	10MHz/1RB	Top Side	0	23060	704	22.62	23.00	1.091	0.01	0.521	0.569
	LTE Band 12	10MHz/25RB	Top Side	0	23060	704	22.08	22.50	1.102	0.02	0.469	0.517
	LTE Band 12	10MHz/1RB	Bottom Side	0	23060	704	22.62	23.00	1.091	0.13	0.514	0.561
	LTE Band 12	10MHz/25RB	Bottom Side	0	23060	704	22.08	22.50	1.102	0.11	0.474	0.522
	LTE Band 13	10MHz/1RB	Back	0	23230	782	22.40	22.50	1.023	-0.07	0.511	0.523
	LTE Band 13	10MHz/25RB	Back	0	23230	782	21.77	22.00	1.054	0.08	0.463	0.488
#11	LTE Band 13	10MHz/1RB	Front	0	23230	782	22.40	22.50	1.023	0.10	0.603	0.617
	LTE Band 13	10MHz/25RB	Front	0	23230	782	21.77	22.00	1.054	0.06	0.546	0.576
	LTE Band 13	10MHz/1RB	Left Side	0	23230	782	22.40	22.50	1.023	-0.12	0.239	0.245
	LTE Band 13	10MHz/25RB	Left Side	0	23230	782	21.77	22.00	1.054	-0.07	0.205	0.216
	LTE Band 13	10MHz/1RB	Right Side	0	23230	782	22.40	22.50	1.023	0.06	0.482	0.493
	LTE Band 13	10MHz/25RB	Right Side	0	23230	782	21.77	22.00	1.054	-0.13	0.431	0.454
	LTE Band 13	10MHz/1RB	Top Side	0	23230	782	22.40	22.50	1.023	0.09	0.509	0.521
	LTE Band 13	10MHz/25RB	Top Side	0	23230	782	21.77	22.00	1.054	0.08	0.437	0.461
	LTE Band 13	10MHz/1RB	Bottom Side	0	23230	782	22.40	22.50	1.023	0.11	0.490	0.501



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	LTE Band 13	10MHz/25RB	Bottom Side	0	23230	782	21.77	22.00	1.054	0.05	0.442	0.466
	LTE Band 17	10MHz/1RB	Back	0	23780	709	22.58	23.00	1.067	-0.14	0.523	0.576
	LTE Band 17	10MHz/25RB	Back	0	23780	709	22.14	22.50	1.466	-0.13	0.489	0.531
#12	LTE Band 17	10MHz/1RB	Front	0	23780	709	22.58	23.00	1.102	0.15	0.621	0.684
	LTE Band 17	10MHz/25RB	Front	0	23780	709	22.14	22.50	1.086	-0.13	0.565	0.614
	LTE Band 17	10MHz/1RB	Left Side	0	23780	709	22.58	23.00	1.102	0.08	0.254	0.280
	LTE Band 17	10MHz/25RB	Left Side	0	23780	709	22.14	22.50	1.086	-0.11	0.225	0.244
	LTE Band 17	10MHz/1RB	Right Side	0	23780	709	22.58	23.00	1.102	0.12	0.499	0.550
	LTE Band 17	10MHz/25RB	Right Side	0	23780	709	22.14	22.50	1.086	-0.04	0.452	0.491
	LTE Band 17	10MHz/1RB	Top Side	0	23780	709	22.58	23.00	1.102	0.05	0.524	0.577
	LTE Band 17	10MHz/25RB	Top Side	0	23780	709	22.14	22.50	1.086	0.06	0.459	0.499
	LTE Band 17	10MHz/1RB	Bottom Side	0	23780	709	22.58	23.00	1.102	0.14	0.512	0.564
	LTE Band 17	10MHz/25RB	Top Side	0	23780	709	22.14	22.50	1.086	0.02	0.469	0.510
	LTE Band 66	20MHz/1RB	Back	0	132572	1770	22.00	22.50	1.122	-0.08	0.487	0.546
	LTE Band 66	20MHz/50RB	Back	0	132572	1770	21.67	22.00	1.079	0.09	0.406	0.438
#13	LTE Band 66	20MHz/1RB	Front	0	132572	1770	22.00	22.50	1.122	0.09	0.573	0.643
	LTE Band 66	20MHz/50RB	Front	0	132572	1770	21.67	22.00	1.079	0.08	0.482	0.520
	LTE Band 66	20MHz/1RB	Left Side	0	132572	1770	22.00	22.50	1.122	-0.13	0.205	0.230
	LTE Band 66	20MHz/50RB	Left Side	0	132572	1770	21.67	22.00	1.079	-0.06	0.146	0.158
	LTE Band 66	20MHz/1RB	Right Side	0	132572	1770	22.00	22.50	1.122	0.07	0.439	0.493
	LTE Band 66	20MHz/50RB	Right Side	0	132572	1770	21.67	22.00	1.079	-0.12	0.355	0.383
	LTE Band 66	20MHz/1RB	Top Side	0	132572	1770	22.00	22.50	1.122	0.09	0.454	0.509
	LTE Band 66	20MHz/50RB	Top Side	0	132572	1770	21.67	22.00	1.079	0.05	0.379	0.409
	LTE Band 66	20MHz/1RB	Bottom Side	0	132572	1770	22.00	22.50	1.122	0.12	0.449	0.504
	LTE Band 66	20MHz/50RB	Bottom Side	0	132572	1770	21.67	22.00	1.079	0.04	0.369	0.398

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<WIFI>

Plot No.	Band	Mode	Test Position	Gap (mm)	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)
	WIFI2.4GHz	802.11b	Back	0	6	2437	14.09	14.50	1.099	0.05	0.222	0.244
#14	WIFI2.4GHz	802.11b	Front	0	6	2437	14.09	14.50	1.099	-0.01	0.251	0.276
	WIFI2.4GHz	802.11b	Left Side	0	6	2437	14.09	14.50	1.099	0.06	0.101	0.111
	WIFI2.4GHz	802.11b	Right Side	0	6	2437	14.09	14.50	1.099	-0.17	0.244	0.268
	WIFI2.4GHz	802.11b	Top Side	0	6	2437	14.09	14.50	1.099	N/A	N/A	N/A
	WIFI2.4GHz	802.11b	Bottom Side	0	6	2437	14.09	14.50	1.099	0.09	0.223	0.245

Note:

1. Per KDB 865664 D01V01, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/Kg.
2. Per KDB 865664 D01V01, if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/Kg, only one repeated measurement is required.
3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/Kg.
4. The ratio is the difference in percentage between original and repeated measured SAR.



13. Simultaneous Transmission Analysis

Simultaneous TX SAR Considerations

No. Applicable Simultaneous Transmission

1. GSM+WIFI
2. WCDMA+WIFI
3. LTE+WIFI

Note:

1. EUT will choose either GSM/WCDMA/ LTE according to the network signal condition; therefore, GSM/WCDMA / LTE cannot transmit simultaneously.

Evaluation of Simultaneous SAR

Simultaneous- Body

<GSM+2.4GWiFi>

Test Position	WiFi SAR _{1-g} (W/Kg)	GSM 850 1-g (W/Kg)	PCS 1900 1-g (W/Kg)	MAX. ΣSAR _{1-g} (W/Kg)	SAR _{1-g} Limit (W/Kg)	Simut. Meas. Required
Front	0.276	0.799	0.558	1.075	1.6	N/A
Back	0.244	0.662	0.424	0.906	1.6	N/A
Left Side	0.111	0.369	0.165	0.480	1.6	N/A
Right Side	0.268	0.765	0.521	1.033	1.6	N/A
Top side	N/A	0.741	0.501	0.741	1.6	N/A
Bottom Side	0.245	0.729	0.490	0.974	1.6	N/A

<WCDMA+2.4GWiFi >

Test Position	WiFi SAR _{1-g} (W/Kg)	WCDMA Band 2 1-g (W/Kg)	WCDMA Band 4 1-g (W/Kg)	WCDMA Band 5 1-g (W/Kg)	MAX. ΣSAR _{1-g} (W/Kg)	SAR _{1-g} Limit (W/Kg)	Simut. Meas. Required
Back	0.244	0.557	0.549	0.607	0.851	1.6	N/A
Front	0.276	0.648	0.640	0.710	0.986	1.6	N/A
Left Side	0.111	0.268	0.271	0.312	0.423	1.6	N/A
Right Side	0.268	0.531	0.529	0.588	0.856	1.6	N/A
Top side	N/A	0.515	0.507	0.542	0.542	1.6	N/A
Bottom Side	0.245	0.503	0.495	0.538	0.783	1.6	N/A



<LTE+2.4GWiFi >

Test Position	WiFi SAR _{1-g} (W/Kg)	LTE BAN D 2 _{1-g} (W/Kg)	LTE BAN D 4 _{1-g} (W/Kg)	LTE BAN D 5 _{1-g} (W/Kg)	LTE BAN D 7 _{1-g} (W/Kg)	LTE BAN D 12 _{1-g} (W/Kg)	LTE BAN D 13 _{1-g} (W/Kg)	LTE BAN D 17 _{1-g} (W/Kg)	LTE BAN D 66 _{1-g} (W/Kg)	MAX. Σ SAR _{1-g} (W/Kg)	SAR _{1-g} Limit (W/Kg)	Simultaneous Measurement Required
Back	0.244	0.536	0.483	0.596	0.488	0.58	0.523	0.576	0.546	0.840	1.6	N/A
Front	0.276	0.627	0.570	0.688	0.585	0.679	0.617	0.684	0.643	0.964	1.6	N/A
Left Side	0.111	0.234	0.183	0.287	0.175	0.276	0.245	0.28	0.23	0.398	1.6	N/A
Right Side	0.268	0.482	0.431	0.56	0.476	0.547	0.493	0.55	0.493	0.828	1.6	N/A
Top side	N/A	0.502	0.449	0.587	0.494	0.569	0.521	0.577	0.509	0.587	1.6	N/A
Bottom Side	0.245	0.491	0.442	0.567	0.448	0.561	0.501	0.564	0.504	0.812	1.6	N/A



14. Measurement Uncertainty

NO	Source	Uncert. ai (%)	Prob. Dist.	Div.	kci (1g)	ci (10g)	Stand.U ncert. ui (1g)	Stand.U ncert. ui (10g)	Veff
1	Repeat	0.4	N	1	1	1	0.4	0.4	9
Instrument									
2	Probe calibration	7	N	2	1	1	3.5	3.5	∞
3	Axial isotropy	4.7	R	$\sqrt{3}$	0.7	0.7	1.9	1.9	∞
4	Hemispherical isotropy	9.4	R	$\sqrt{3}$	0.7	0.7	3.9	3.9	∞
5	Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
6	Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
7	Detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
8	Readout electronics	0.3	N	1	1	1	0.3	0.3	∞
9	Response time	0.8	R	$\sqrt{3}$	1	1	0.5	0.5	∞
10	Integration time	2.6	R	$\sqrt{3}$	1	1	1.5	1.5	∞
11	Ambient noise	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
12	Ambient reflections	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Probe positioner mech. restrictions	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
14	Probe positioning with respect to phantom shell	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞

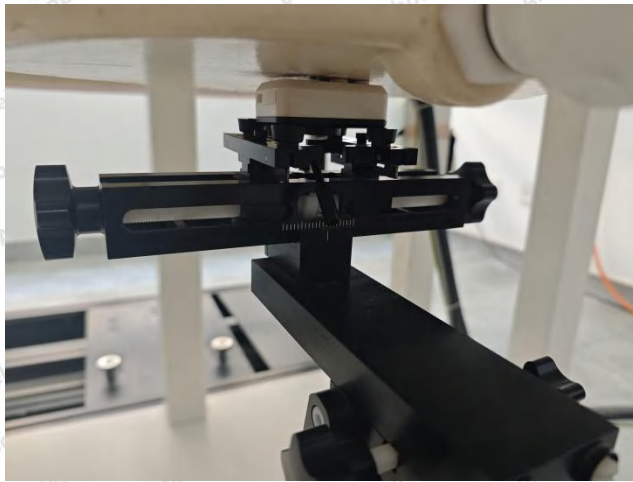


15	Max.SAR evaluation	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
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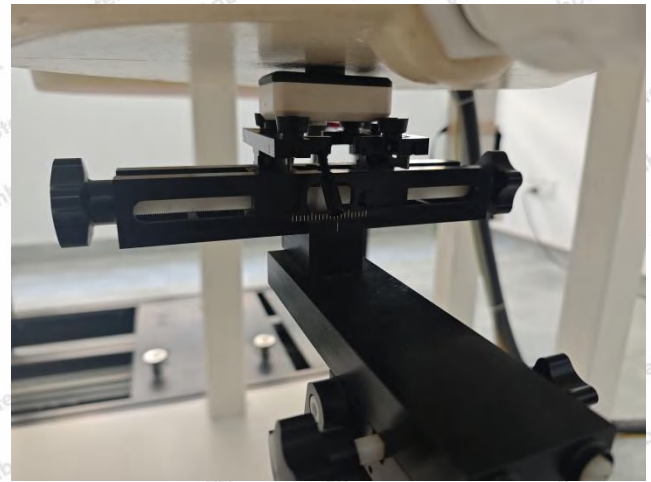
Test sample related									
16	Device positioning	3.8	N	1	1	1	3.8	3.8	99
17	Device holder	5.1	N	1	1	1	5.1	5.1	5
18	Drift of output power	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up									
19	Phantom uncertainty	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
20	Liquid conductivity (target)	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
21	Liquid conductivity (meas)	2.5	N	1	0.64	0.43	1.6	1.2	∞
22	Liquid Permittivity (target)	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.5	∞
23	Liquid Permittivity (meas)	2.5	N	1	0.6	0.49	1.5	1.2	∞
Combined standard			RSS	$U_c = \sqrt{\sum_{i=1}^n C_i^2 U_i^2}$			11.4%	11.3%	236
Expanded uncertainty(P=95%)				$U_c = k U$, k=2			22.8%	22.6%	



Appendix A. EUT Photos and Test Setup Photos



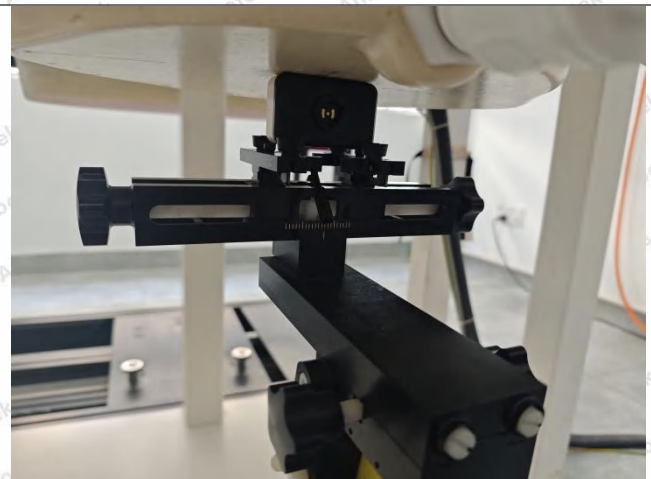
Front



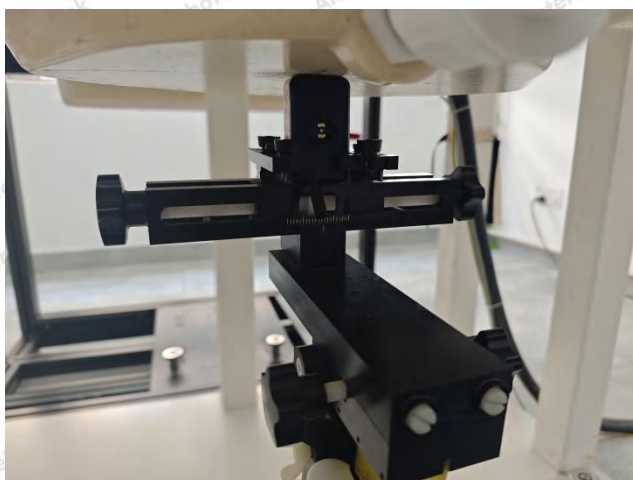
Back



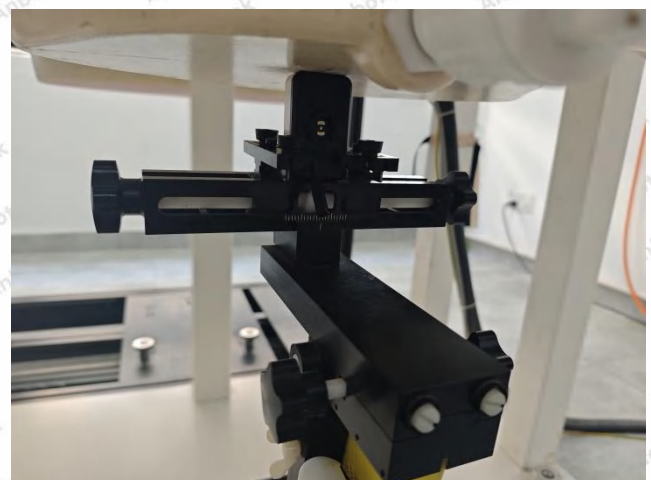
Left Side



Right Side



Top Side



Bottom Side



Appendix B. Plots of SAR System Check

750MHz Head System Check

Date:04/22/2024

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1163

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.91 \text{ S/m}$; $\epsilon_r = 41.73$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7396; ConvF(10.09, 10.09, 10.09); Calibrated: May,06.2023;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn387; Calibrated: Sep.06.2023

Phantom: SAM 1; Type: SAM;

Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.10 (7164)

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

Maximum value of SAR (measured) = 2.328 W/kg

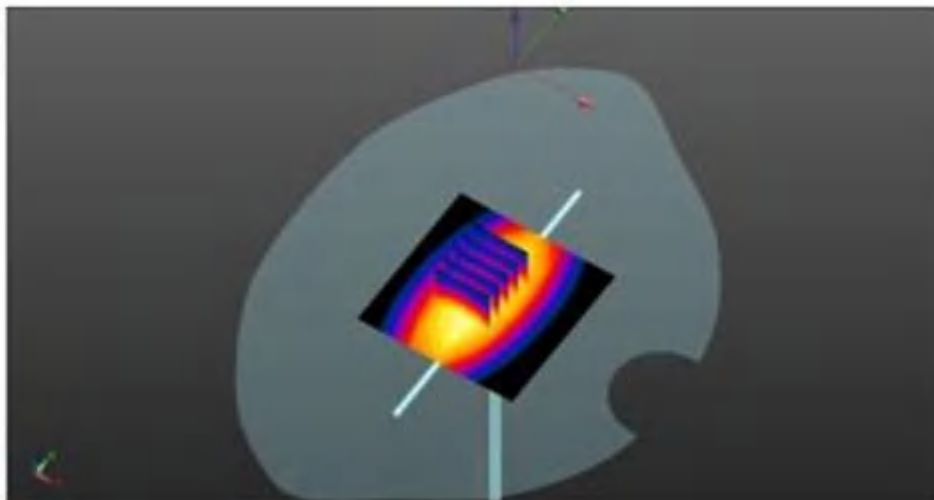
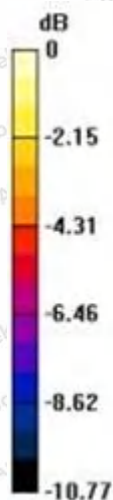
Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.538V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.78 W/kg

SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.39 W/kg

Maximum value of SAR (measured) = 3.11 W/kg



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835MHz Head System Check

Date:04/23/2024

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

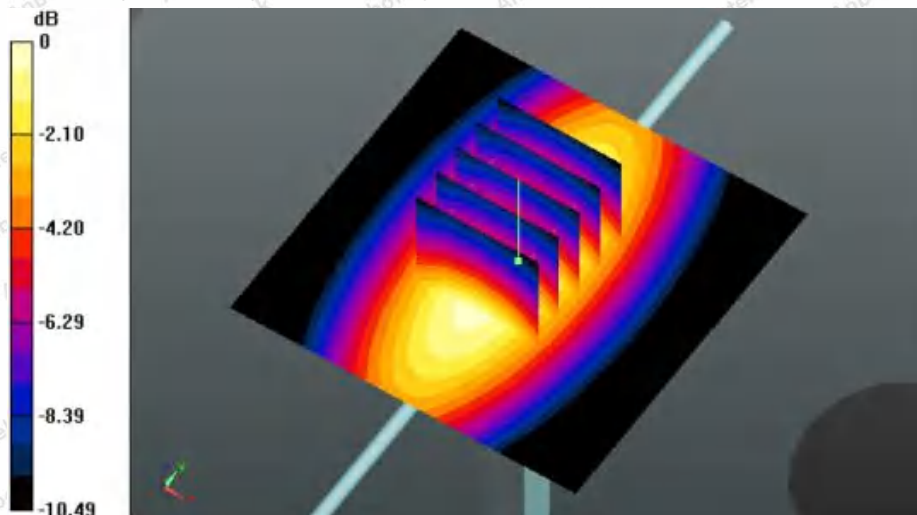
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 41.62$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: May 06, 2023;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023;
- Phantom: SAM 1; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Area Scan (61x91x1):Measurement grid: $dx=15.00 \text{ mm}$, $dy=15.00 \text{ mm}$ Maximum value of SAR (interpolated) = 2.875 W/kg **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$ Reference Value = 50.286 V/m ; Power Drift = -0.11 dB Peak SAR (extrapolated) = 3.175 W/kg **SAR(1 g) = 2.33 W/kg ; SAR(10 g) = 1.55 W/kg** Maximum value of SAR (measured) = 2.574 W/kg 

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1750MHz Head System Check

Date:04/24/2024

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1750$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.25$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7396; ConvF(8.24, 8.24, 8.24); Calibrated: May,06.2023;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06.2023;
- Phantom: SAM 1 ; Type: QD 000 P40 CD; Serial: TP - 1802
- Measurement SW: DASY52, Version 52.8 (7); 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) = 12.122 W/kg

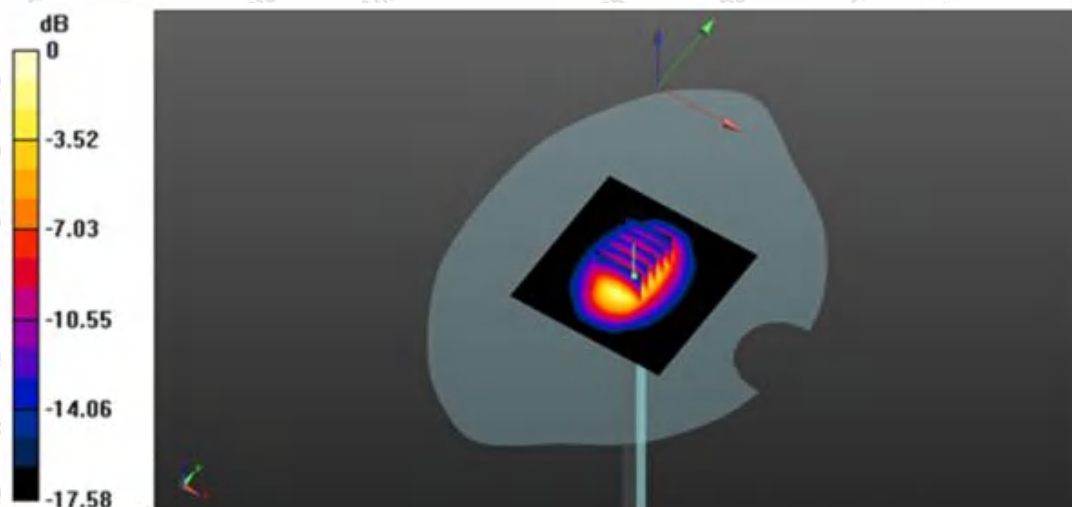
Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.35 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 16.353 W/kg

SAR(1 g) = 9.57 W/kg; SAR(10 g) = 5.03 W/kg

Maximum value of SAR (measured) = 12.142 W/kg



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1900MHz Head System Check

Date:04/25/2024

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

Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1900$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 40.12$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: May 06, 2023;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn387; Calibrated: Sep.06,2023;

Phantom: SAM 1; Type: SAM;

Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Area Scan (61x91x1):Measurement grid: $dx=15.00$ mm, $dy=15.00$ mm

Maximum value of SAR (interpolated) = 16.895 W/kg

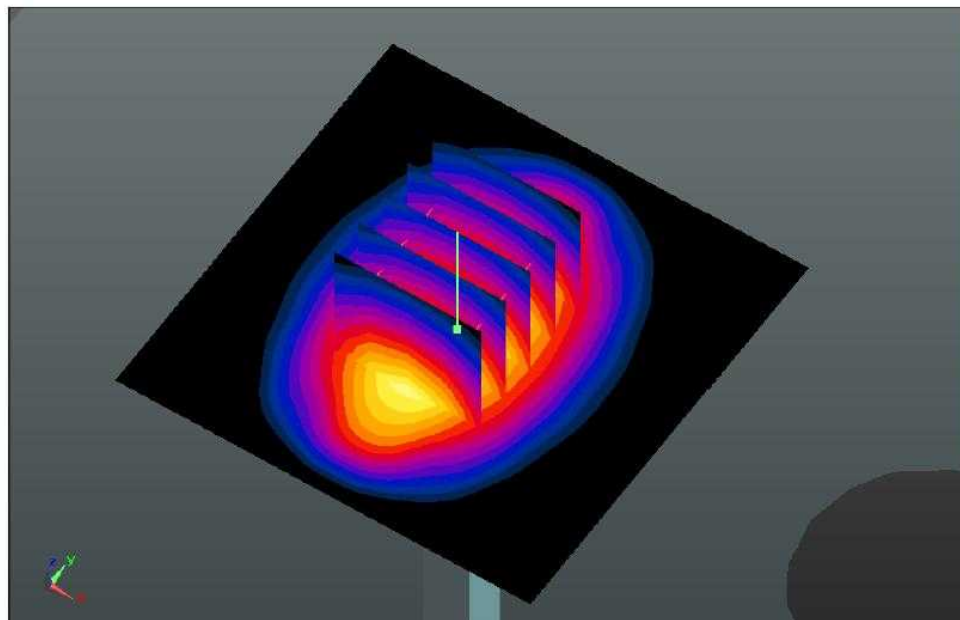
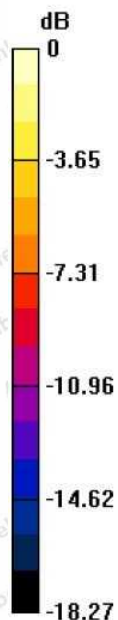
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 87.671 V/m; Power Drift = 0.08dB

Peak SAR (extrapolated) = 19.868 W/kg

SAR(1 g) = 10.18 W/kg; SAR(10 g) = 5.37 W/kg

Maximum value of SAR (measured) = 15.332 W/kg



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2450MHz Head System Check

Date:04/26/2024

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

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2450$ MHz; $\sigma = 1.85$ S/m; $\epsilon_r = 39.08$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7396; ConvF(7.53, 7.53, 7.53); Calibrated: May 06, 2023;

Sensor-Surface: 3mm (Mechanical Surface Detection)

Electronics: DAE4 Sn387; Calibrated: Sep.06.2023;

Phantom: SAM 1; Type: SAM;

Measurement SW: DASY52, Version 52.8 (1); SEMCAD X Version 14.6.5 (6469)

Area Scan (61x91x1):Measurement grid: dx=10.00 mm, dy=10.00 mm

Maximum value of SAR (interpolated) = 19.664 W/kg

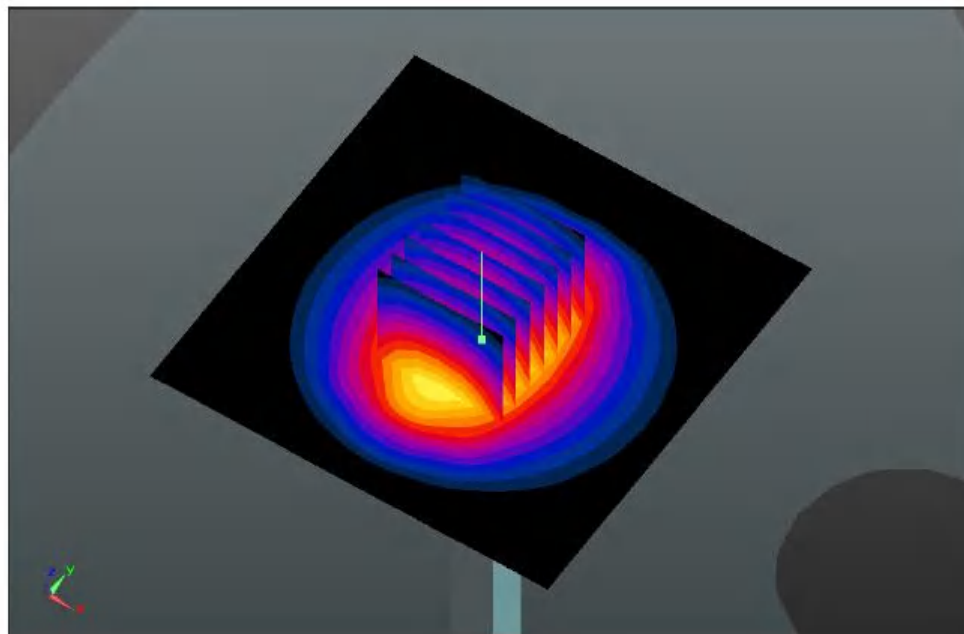
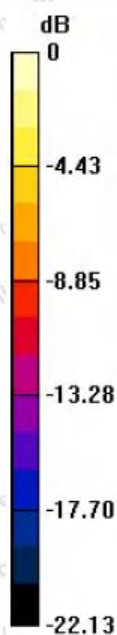
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.571 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 26.125 W/kg

SAR(1 g) = 12.95 W/kg; SAR(10 g) = 5.92 W/kg

Maximum value of SAR (measured) = 19.47W/kg



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2600MHz Head System Check

Date:04/28/2024

DUT: Dipole 2600 MHz; Type: D2600V2;

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2600$ MHz; $\sigma = 2.03$ S/m; $\epsilon_r = 39.35$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.38, 7.38, 7.38); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06.2023
- 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) = 24.576 W/kg

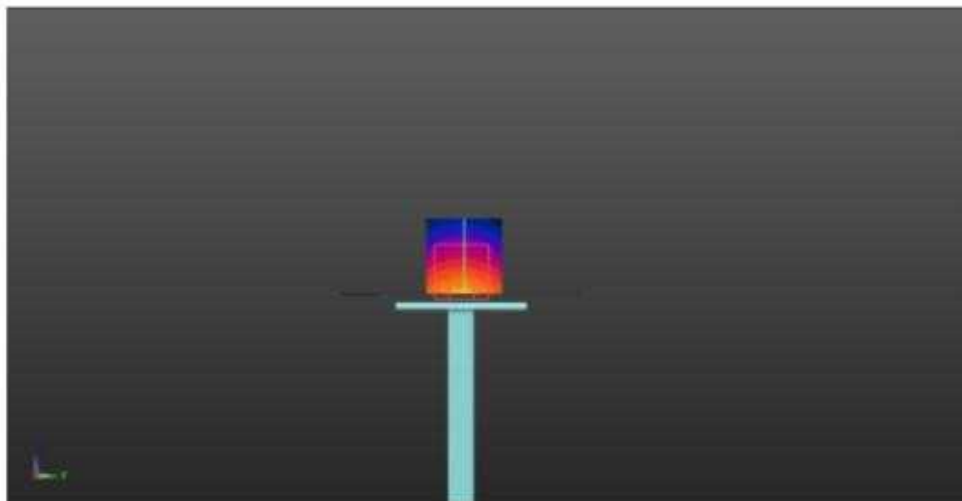
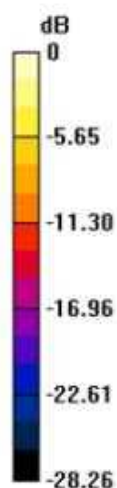
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 110.147 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 33.245 W/kg

SAR(1 g) = 13.91 W/kg; SAR(10 g) = 6.43 W/kg

Maximum value of SAR (measured) = 25.668 W/kg



Appendix C. Plots of SAR Test Data

#1

Date: 04/23/2024

GSM850_GPRS_2TX_Body Front_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; $\sigma = 0.92$ S/m; $\epsilon_r = 41.62$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: May 06, 2023;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM 1; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/FRONT /Area Scan (71x131x1):Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.226 W/kg

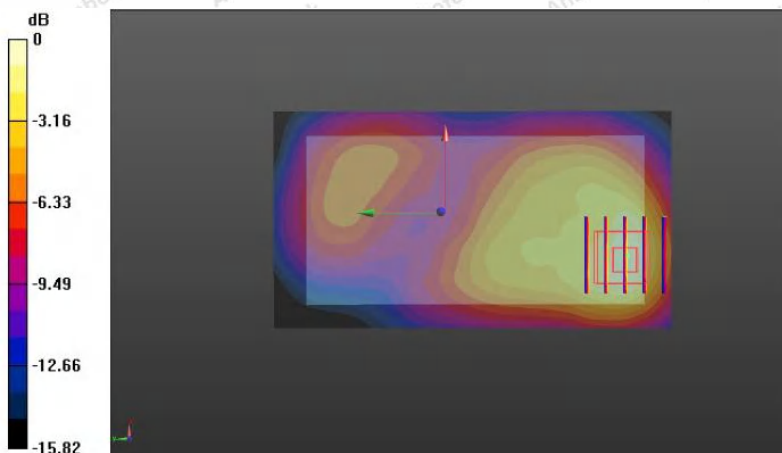
BODY/FRONT /Zoom Scan (5x5x7)/Cube 0:Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.125 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.254 W/kg

SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.369 W/kg

Maximum value of SAR (measured) = 1.236 W/kg



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#2

Date: 04/25/2024

GSM1900_GPRS_3TX_Body Front_Ch661

Communication System: UID 0, GPRS(3 Tx slots) (0); Frequency: 1880MHz;Duty Cycle: 1:1.99986

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.46 \text{ S/m}$; $\epsilon_r = 40.12$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: May 06.2023;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM 1; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front /Area Scan (71x131x1):Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (measured) =0.963 W/kg

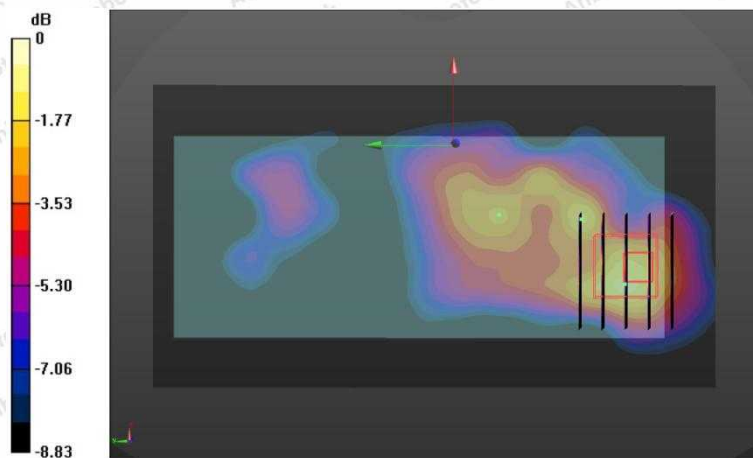
BODY/Front/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.145 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.987 W/kg

SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.264 W/kg

Maximum value of SAR (measured) = 0.951 W/kg



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#3

Date: 04/25/2024

WCDMA Band II_RMC 12.2K_Body Front_Ch9262

Communication System: UID 0, Generic WCDMA (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 40.12$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: May 06.2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front/Area Scan (71x131x1): Measurement grid: dx=1.500mm, dy=1.500mm

Maximum value of SAR (measured) =1.284 W/kg

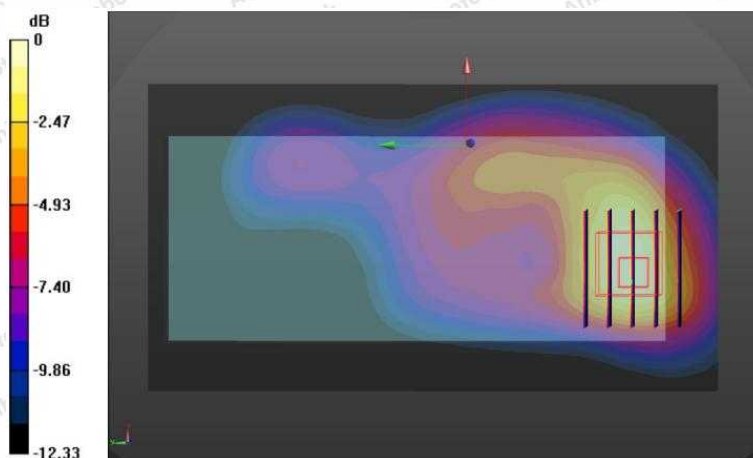
BODY/Front/Zoom Scan (5x5x7)/Cube 0:Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.321 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.369 W/kg

SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.257 W/kg

Maximum value of SAR (measured) = 0.852 W/kg



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#4

Date: 04/23/2024

WCDMA Band V_RMC 12.2K_Body Front_Ch4233

Communication System: UID 0, Generic WCDMA (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 41.62$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: May 06.2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front/Area Scan (71x131x1): Measurement grid: dx=1.500mm, dy=1.500mm

Maximum value of SAR (measured) = 1.318 W/kg

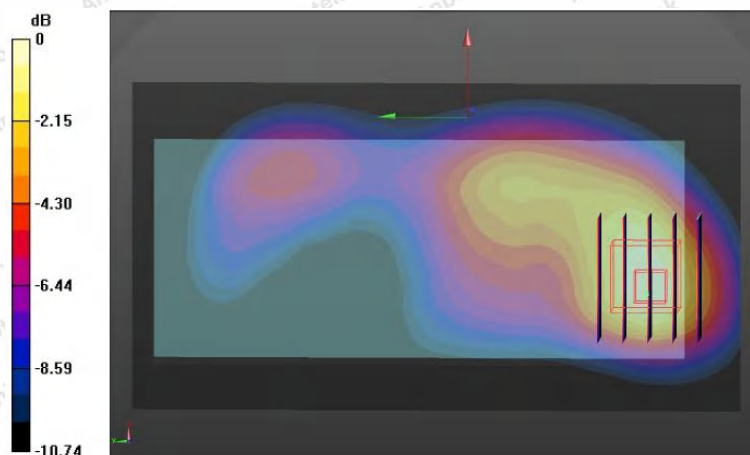
BODY/Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.472 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.357 W/kg

SAR(1 g) = 0.658W/kg; SAR(10 g) = 0.377 W/kg

Maximum value of SAR (measured) = 0.951 W/kg



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#5

Date: 04/24/2024

WCDMA Band IV_RMC 12.2K_Body Front_Ch1412

Communication System: UID 0, Generic WCDMA (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.4$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 41.62$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: May 06.2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front/Area Scan (71x131x1): Measurement grid: dx=1.500mm, dy=1.500mm

Maximum value of SAR (measured) =1.375 W/kg

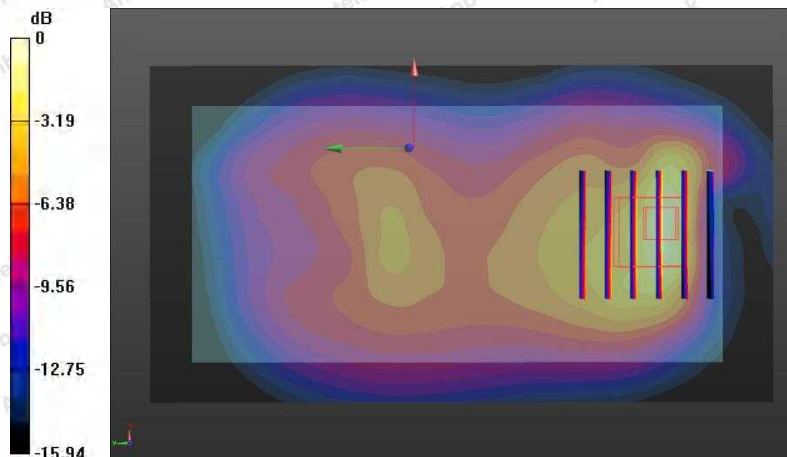
BODY/Front/Zoom Scan (5x5x7)/Cube 0:Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.591 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) =1.285 W/kg

SAR(1 g) = 0.636 W/kg; SAR(10 g) = 0.335 W/kg

Maximum value of SAR (measured) = 0.943 W/kg



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#6

Date: 04/25/2024

LTE Band 2_ Body Front_1RB_Ch18700

Communication System: UID 0, Generic LTE (0); Frequency: 1860 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1860$ MHz; $\sigma = 1.46$ S/m; $\epsilon_r = 40.12$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: May 06.2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front/Area Scan (71x131x1):Measurement grid: dx=1.500mm, dy=1.500mm

Maximum value of SAR (interpolated) = 1.183 W/kg

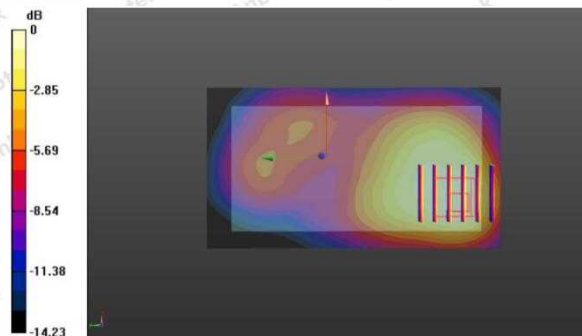
BODY/Front/Zoom Scan (5x5x7)/Cube 0:Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.735 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.025 W/kg

SAR(1 g) = 0.593 W/kg; SAR(10 g) = 0.284 W/kg

Maximum value of SAR (measured) = 1.011 W/kg



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#7

Date: 04/24/2024

LTE Band 4_ Body Front_1RB_Ch20300

Communication System: UID 0, Generic LTE (0); Frequency: 1745 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 41.62$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(10.09, 10.09,10.09); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front/Area Scan (71x131x1):Measurement grid: $dx=1.500\text{mm}$, $dy=1.500\text{mm}$

Maximum value of SAR (interpolated) = 1.137 W/kg

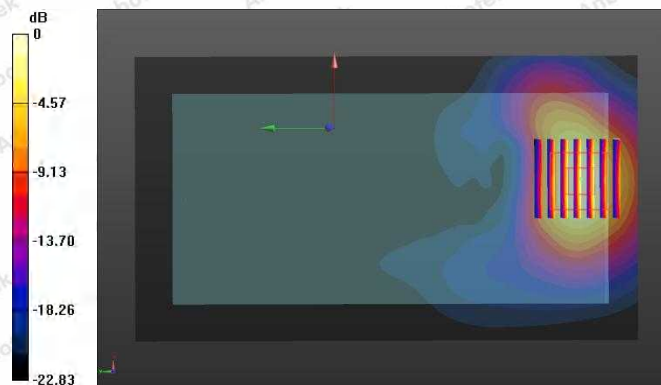
BODY/Front/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.259 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.115 W/kg

SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.266W/kg

Maximum value of SAR (measured) = 0.726 W/kg



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#8

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Date: 04/23/2024

LTE Band 5_ Body Front_1RB_Ch20525

Communication System: UID 0, Generic LTE (0); Frequency: 826.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 826.5 \text{ MHz}$; $\sigma = 0.92 \text{ S/m}$; $\epsilon_r = 41.62$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(10.09, 10.09, 10.09); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06, 2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front/Area Scan (71x131x1): Measurement grid: $dx=1.500\text{mm}$, $dy=1.500\text{mm}$

Maximum value of SAR (interpolated) = 1.426 W/kg

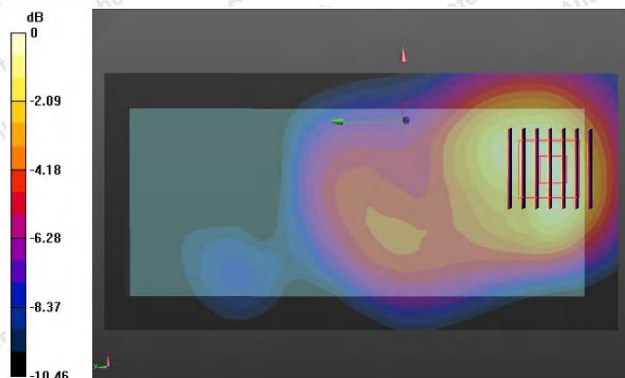
BODY/Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.425 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.318 W/kg

SAR(1 g) = 0.632 W/kg; SAR(10 g) = 0.313 W/kg

Maximum value of SAR (measured) = 0.924 W/kg



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#9

Date: 04/28/2024

LTE Band 7_ Body Front_1RB_ Ch21350

Communication System: UID 0, Generic LTE (0); Frequency: 2560 MHz;

Medium parameters used (interpolated): $f=2560$ MHz; $\sigma=2.03$, S/m; $\epsilon_r=39.35$; $\rho=1000$ kg/m³

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.38, 7.38, 7.38); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front /Area Scan (71x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) =1.068 W/kg

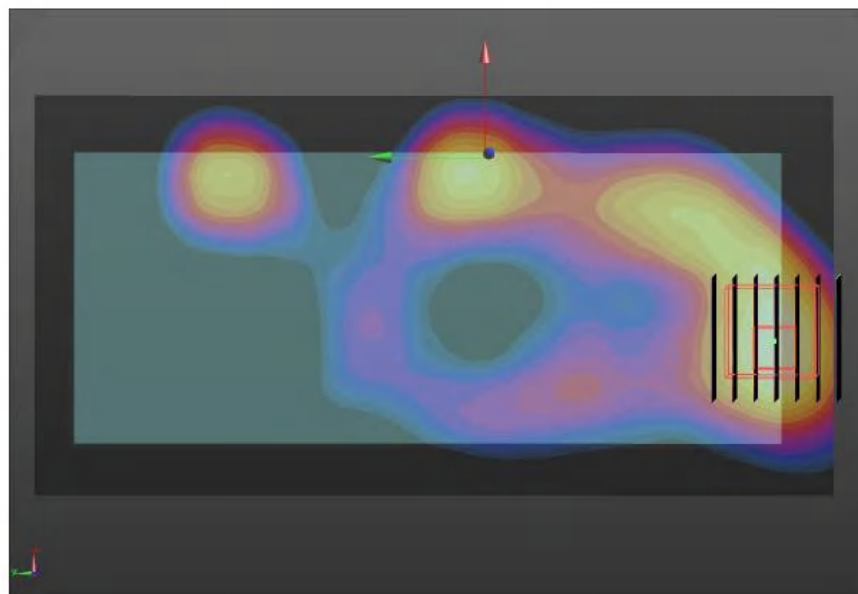
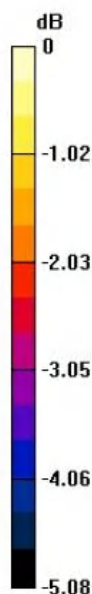
BODY/Front /Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 14.184 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.074 W/kg

SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.255 W/kg

Maximum value of SAR (measured) =0.765 W/kg



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Date: 04/22/2024

LTE Band 12_ Body Front_1RB_Ch23060

Communication System: UID 0, Generic LTE (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 704 \text{ MHz}$; $\sigma = 0.91 \text{ S/m}$; $\epsilon_r = 41.73$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(10.09, 10.09, 10.09); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front/Area Scan (71x131x1): Measurement grid: $dx=1.500\text{mm}$, $dy=1.500\text{mm}$

Maximum value of SAR (interpolated) = 1.212 W/kg

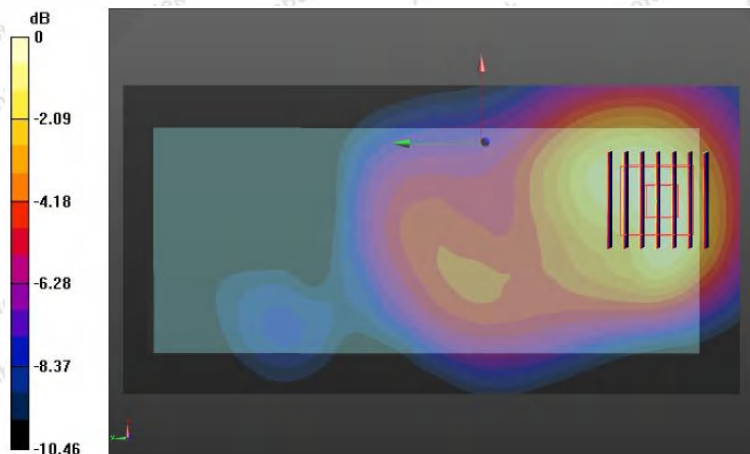
BODY/Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.345 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.223 W/kg

SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.310 W/kg

Maximum value of SAR (measured) = 0.815 W/kg



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#11

Date: 04/22/2024

LTE Band 13_ Body Front_1RB_Ch23230

Communication System: UID 0, Generic LTE (0); Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 782 \text{ MHz}$; $\sigma = 0.91 \text{ S/m}$; $\epsilon_r = 41.73$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(10.09, 10.09, 10.09); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06, 2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front /Area Scan (71x131x1): Measurement grid: $dx=1.500\text{mm}$, $dy=1.500\text{mm}$

Maximum value of SAR (interpolated) = 1.268 W/kg

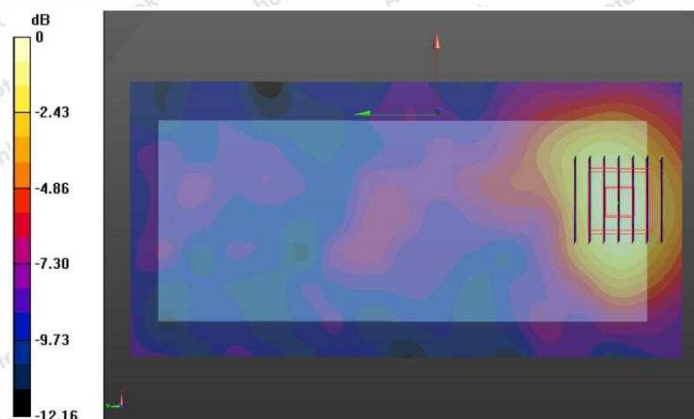
BODY/Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.842 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.258 W/kg

SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.296 W/kg

Maximum value of SAR (measured) = 0.746 W/kg



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#12

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Date: 04/22/2024

LTE Band 17_Body Front_1RB_Ch23780

Communication System: UID 0, Generic LTE (0); Frequency: 709 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 709 \text{ MHz}$; $\sigma = 2.03 \text{ S/m}$; $\epsilon_r = 39.35$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(10.09, 10.09,10.09); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front/Area Scan (71x131x1):Measurement grid: $dx=1.500\text{mm}$, $dy=1.500\text{mm}$

Maximum value of SAR (interpolated) = 1.179 W/kgs

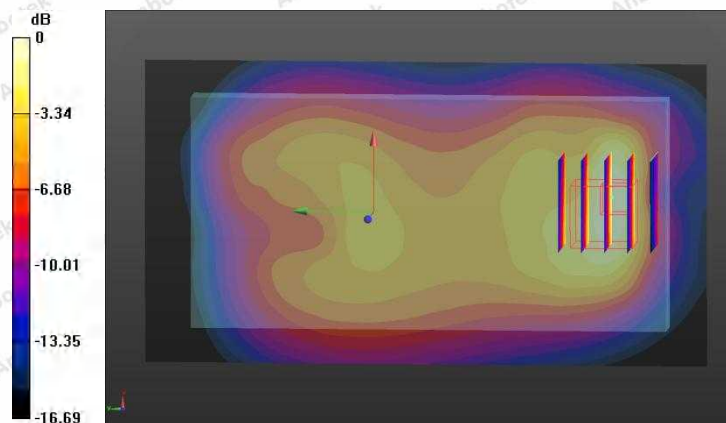
BODY/Front/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.931 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.381 W/kg

SAR(1 g) = 0.621 W/kg; SAR(10 g) = 0.305 W/kg

Maximum value of SAR (measured) = 0.931 W/kg



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Date: 04/24/2024

LTE Band 66_Body Front_1RB_Ch132572

Communication System: UID 0, Generic LTE (0); Frequency: 1770 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1770 \text{ MHz}$; $\mu = 1.41 \text{ S/m}$; $\epsilon_r = 40.25$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(10.09, 10.09,10.09); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front/Area Scan (71x131x1):Measurement grid: $dx=1.500\text{mm}$, $dy=1.500\text{mm}$

Maximum value of SAR (interpolated) = 1.268W/kgs

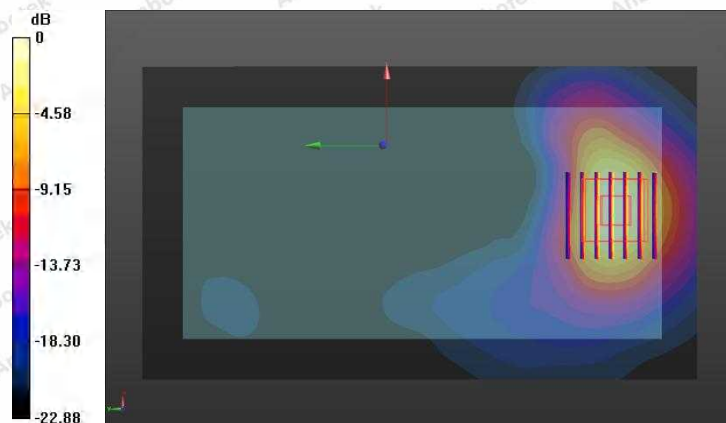
BODY/Front/Zoom Scan (5x5x7)/Cube 0:Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.805 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.267 W/kg

SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.288 W/kg

Maximum value of SAR (measured) = 0.788 W/kg



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#14

Date: 04/26/2024

WIFI 2.4G_802.11b_Body Front_Ch6

Communication System: UID 0, wifi (fcc) (0); Frequency: 2437 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.85$ S/m; $\epsilon_r = 39.08$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7396; ConvF(7.53, 7.53, 7.53); Calibrated: May 06.2023;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2023
- Phantom: SAM 1; Type: SAM;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/Front/Area Scan (91x161x1): Measurement grid: dx=1.200mm, dy=1.200mm

Maximum value of SAR (measured) = 0.556 W/kg

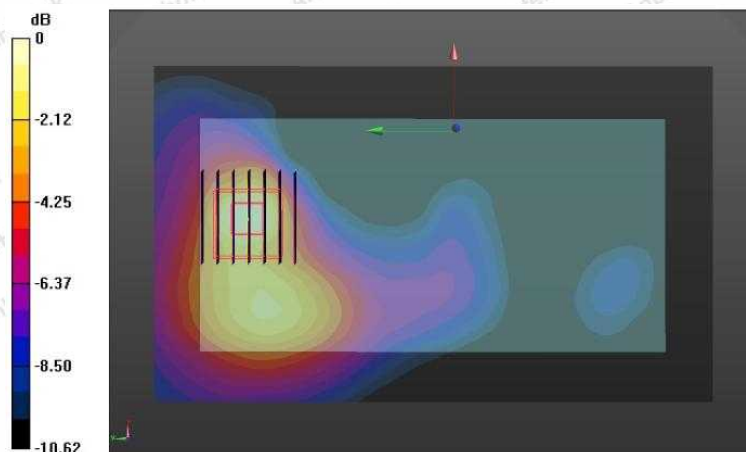
BODY/Front/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.396 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.576 W/kg

SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.122 W/kg

Maximum value of SAR (measured) = 0.547 W/kg



Appendix D. DASY System Calibration Certificate



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Client

Anbotek (Auden)

Certificate No: Z23-98671

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:7396

Calibration Procedure(s) FF-Z12-006-08
Calibration Procedures for Dosimetric E-field Probes

Calibration date: May06, 2023

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	101919	20-Jun-22 (CTTL, No.J22 X07447)	Jun-21
Power sensor NRP-Z91	101547	20-Jun-22 (CTTL, No.J22 X07447)	Jun-21
Power sensor NRP-Z91	101548	20-Jun-22 (CTTL, No.J22 X07447)	Jun-21
Reference10dBAttenuator	18N50W-10dB	13-Mar-23(CTTL, No.J23X01547)	Mar-22
Reference20dBAttenuator	18N50W-20dB	13-Mar-23(CTTL, No.J23X01548)	Mar-22
Reference Probe EX3DV4	SN 7433	26-Sep-22(SPEAG, No.EX3-7433_Sep22)	Sep-21
DAE4	SN 549	13-Dec-22(SPEAG, No.DAE4-549_Dec22)	Dec -21
Secondary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
SignalGeneratorMG3700A	6201052605	27-Jun-22 (CTTL, No.J22X04776)	Jun-21
Network Analyzer E5071C	MY46110673	13-Jan-23 (CTTL, No.J23X00285)	Jan -22

	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: May06, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: Z23-98671

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Glossary:

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A,B,C,D	modulation dependent linearization parameters
Polarization Φ	Φ rotation around probe axis
Polarization θ	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i $\theta=0$ is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}:** Assessed for E-field polarization $\theta=0$ ($f \leq 900\text{MHz}$ in TEM-cell; $f > 1800\text{MHz}$: waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not effect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z:** DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR:** PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; VR_{x,y,z}:** A,B,C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters:** Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800\text{MHz}$) and inside waveguide using analytical field distributions based on power measurements for $f > 800\text{MHz}$. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from $\pm 50\text{MHz}$ to $\pm 100\text{MHz}$.
- Spherical isotropy (3D deviation from isotropy):** in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset:** The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle:** The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).





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Probe EX3DV4

SN: 7396

Calibrated: May 06, 2023

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)





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DASY/EASY – Parameters of Probe: EX3DV4 – SN: 7396

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.54	0.53	0.50	±10.0%
DCP(mV) ^B	97.8	104.5	102.5	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB/μV	C	D dB	VR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	199.9	±2.4%
		Y	0.0	0.0	1.0		203.3	
		Z	0.0	0.0	1.0		195.0	

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X, Y, Z do not affect the E²-field uncertainty inside TSL (see Page 5 and Page 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.





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DASY/EASY – Parameters of Probe: EX3DV4 – SN: 7396

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	41.9	0.89	9.82	9.82	9.82	0.30	0.85	± 12.1%
835	41.5	0.90	9.71	9.71	9.71	0.15	1.36	± 12.1%
900	41.5	0.97	9.87	9.87	9.87	0.16	1.37	± 12.1%
1750	40.1	1.37	8.61	8.61	8.61	0.25	1.04	± 12.1%
1900	40.0	1.40	8.13	8.13	8.13	0.24	1.01	± 12.1%
2100	39.8	1.49	8.14	8.14	8.14	0.24	1.04	± 12.1%
2300	39.5	1.67	7.85	7.85	7.85	0.40	0.75	± 12.1%
2450	39.2	1.80	7.57	7.57	7.57	0.50	0.75	± 12.1%
2600	39.0	1.96	7.38	7.38	7.38	0.64	0.68	± 12.1%
5250	35.9	4.71	5.33	5.33	5.33	0.45	1.30	± 13.3%
5600	35.5	5.07	4.89	4.89	4.89	0.45	1.35	± 13.3%
5750	35.4	5.22	4.92	4.92	4.92	0.45	1.45	± 13.3%

^C Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequency below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.





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DASY/EASY – Parameters of Probe: EX3DV4 – SN: 7396

Calibration Parameter Determined in Body Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc. (k=2)
750	55.5	0.96	10.09	10.09	10.09	0.30	0.90	± 12.1%
835	55.2	0.97	9.88	9.88	9.88	0.19	1.32	± 12.1%
900	55.0	1.05	9.82	9.82	9.82	0.23	1.15	± 12.1%
1750	53.4	1.49	8.24	8.24	8.24	0.24	1.06	± 12.1%
1900	53.3	1.52	7.97	7.97	7.97	0.19	1.24	± 12.1%
2100	53.2	1.62	8.18	8.18	8.18	0.19	1.39	± 12.1%
2300	52.9	1.81	7.88	7.88	7.88	0.55	0.80	± 12.1%
2450	52.7	1.95	7.53	7.53	7.53	0.46	0.89	± 12.1%
2600	52.5	2.16	7.38	7.38	7.38	0.52	0.80	± 12.1%
5250	48.9	5.36	4.93	4.93	4.93	0.45	1.80	± 13.3%
5600	48.5	5.77	4.19	4.19	4.19	0.48	1.90	± 13.3%
5750	48.3	5.94	4.52	4.52	4.52	0.48	1.95	± 13.3%

^C Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequency below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



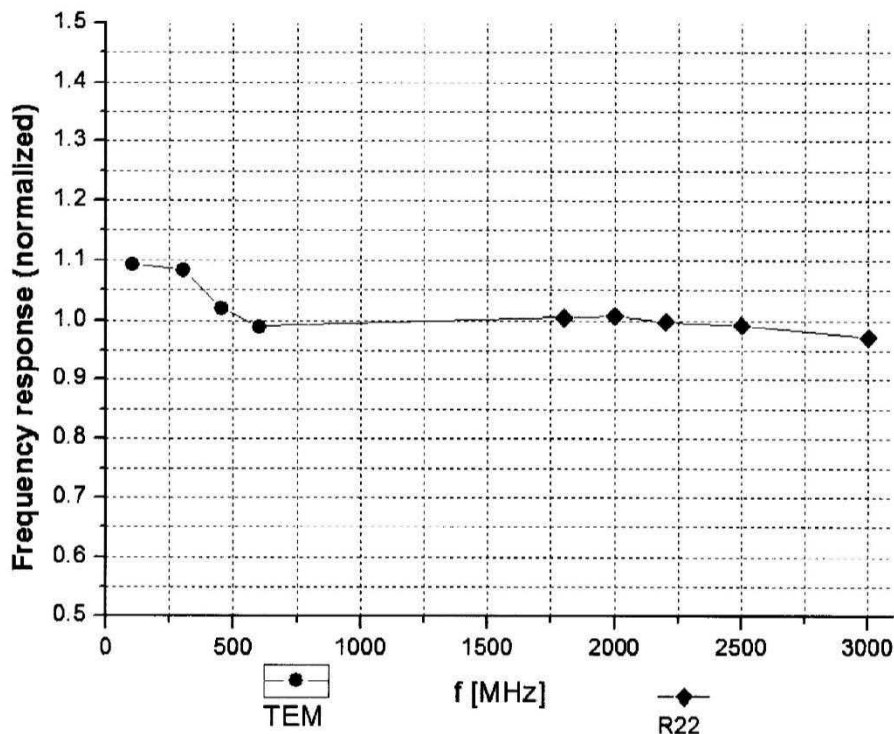


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Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: $\pm 7.4\%$ ($k=2$)





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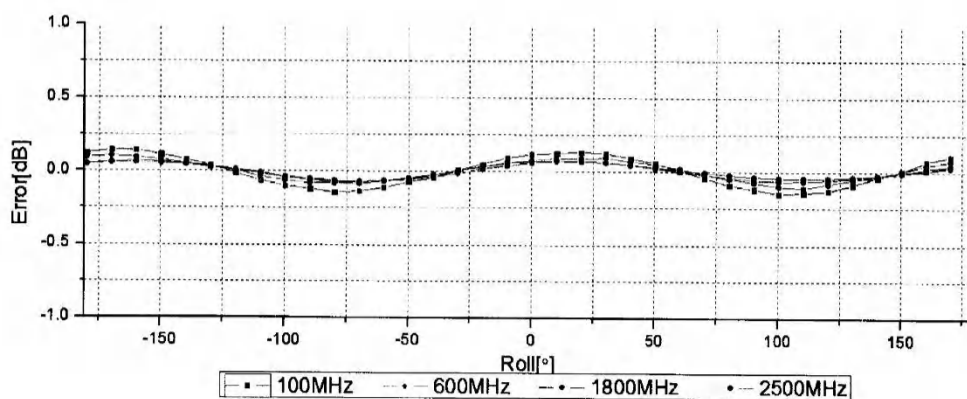
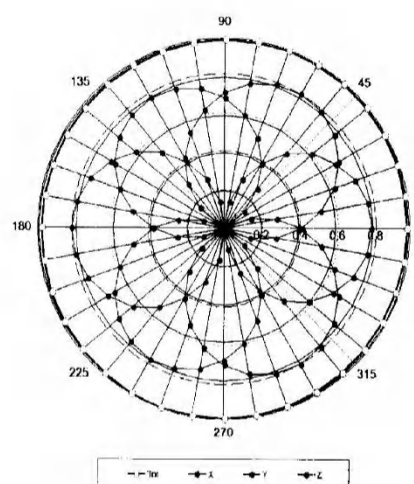
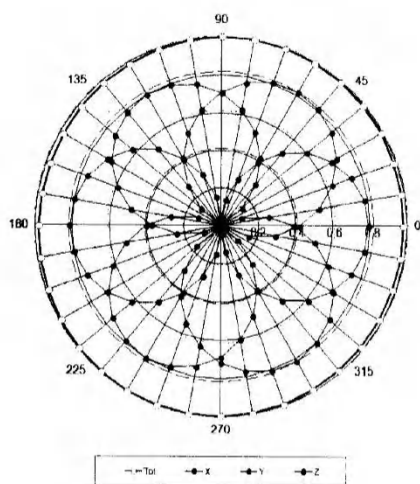
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Receiving Pattern (Φ), $\theta=0^\circ$

f=600 MHz, TEM

f=1800 MHz, R22



Uncertainty of Axial Isotropy Assessment: $\pm 1.2\%$ ($k=2$)



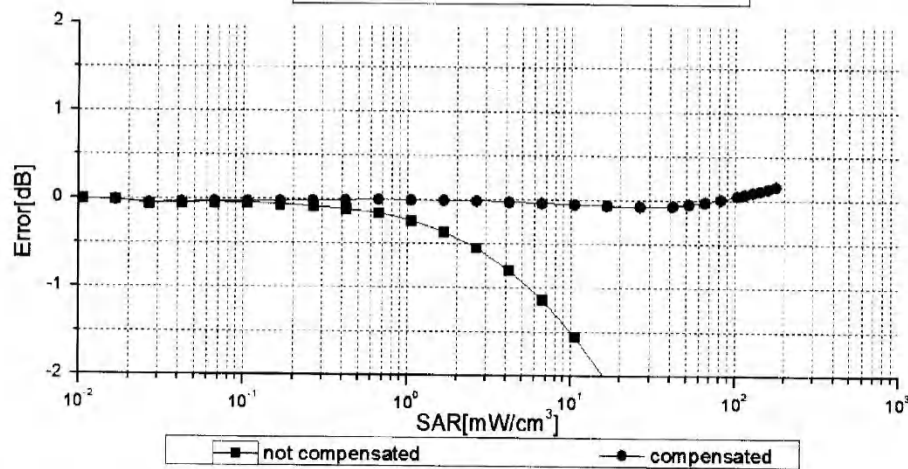
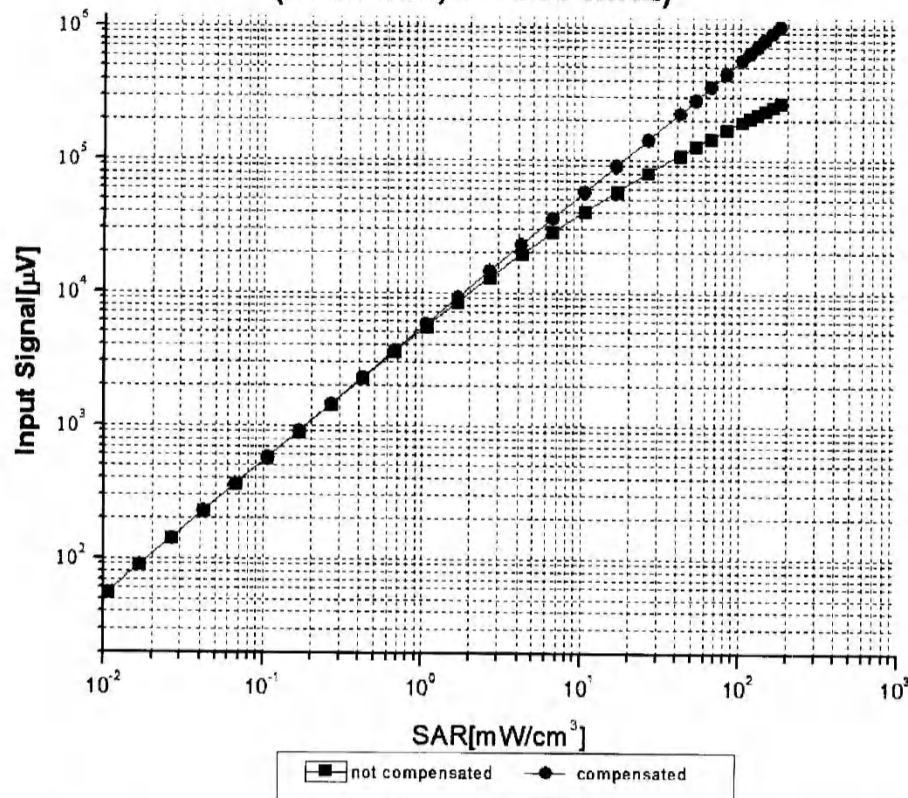


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Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f = 900 \text{ MHz}$)

**Uncertainty of Linearity Assessment: $\pm 0.9\%$ ($k=2$)**

Certificate No: Z23-98671

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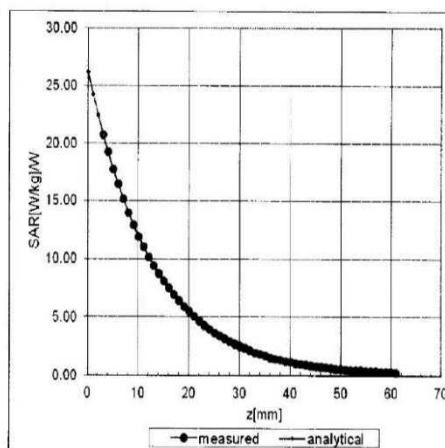
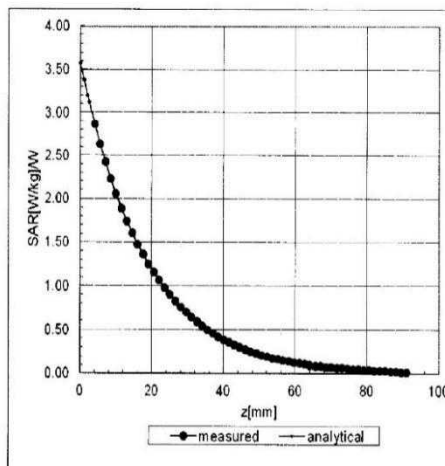
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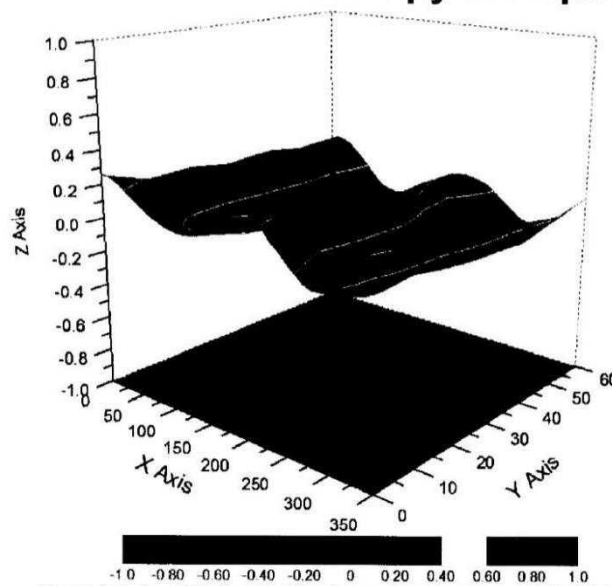
Conversion Factor Assessment

f=900 MHz, WGLS R9(H_convF)

f=1750 MHz, WGLS R22(H_convF)



Deviation from Isotropy in Liquid

Uncertainty of Spherical Isotropy Assessment: $\pm 3.2\%$ (K=2)



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DASY/EASY – Parameters of Probe: EX3DV4 – SN: 7396**Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	156.9
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm



Schmid & Partner Engineering AG

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info@speag.com, <http://www.speag.com>

IMPORTANT NOTICE

USAGE OF THE DAE 4

The DAE unit is a delicate, high precision instrument and requires careful treatment by the user. There are no serviceable parts inside the DAE. Special attention shall be given to the following points:

Battery Exchange: The battery cover of the DAE4 unit is closed using a screw, over tightening the screw may cause the threads inside the DAE to wear out.

Shipping of the DAE: Before shipping the DAE to SPEAG for calibration, remove the batteries and pack the DAE in an antistatic bag. This antistatic bag shall then be packed into a larger box or container which protects the DAE from impacts during transportation. The package shall be marked to indicate that a fragile instrument is inside.

E-Stop Failures: Touch detection may be malfunctioning due to broken magnets in the E-stop. Rough handling of the E-stop may lead to damage of these magnets. Touch and collision errors are often caused by dust and dirt accumulated in the E-stop. To prevent E-stop failure, the customer shall always mount the probe to the DAE carefully and keep the DAE unit in a non-dusty environment if not used for measurements.

Repair: Minor repairs are performed at no extra cost during the annual calibration. However, SPEAG reserves the right to charge for any repair especially if rough unprofessional handling caused the defect.

DASY Configuration Files: Since the exact values of the DAE input resistances, as measured during the calibration procedure of a DAE unit, are not used by the DASY software, a nominal value of 200 MOhm is given in the corresponding configuration file.

Important Note:

Warranty and calibration is void if the DAE unit is disassembled partly or fully by the Customer.

Important Note:

Never attempt to grease or oil the E-stop assembly. Cleaning and readjusting of the E-stop assembly is allowed by certified SPEAG personnel only and is part of the annual calibration procedure.

Important Note:

To prevent damage of the DAE probe connector pins, use great care when installing the probe to the DAE. Carefully connect the probe with the connector notch oriented in the mating position. Avoid any rotational movement of the probe body versus the DAE while turning the locking nut of the connector. The same care shall be used when disconnecting the probe from the DAE.

Schmid & Partner Engineering

TN_BR040315AD DAE4.doc

11.12.2009



Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



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C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Client **Anbotek (Auden)**

Certificate No: **DAE4-387_Sep10**

CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BM - SN: 387**

Calibration procedure(s) **QA CAL-06.v29**
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: **September 06, 2023**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	15-Aug-23 (No:22092)	Aug-22
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit Calibrator Box V2.1	SE UWS 053 AA 1001	05-Jan-23 (in house check)	In house check: Jan-23
	SE UMS 006 AA 1002	05-Jan-23 (in house check)	In house check: Jan-23

Calibrated by:	Name Dominique Steffen	Function Laboratory Technician	Signature
Approved by:	Sven Kühn	Deputy Manager	

Issued: September 06, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-387_Sep10

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Glossary

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- **DC Voltage Measurement:** Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- **Connector angle:** The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - **DC Voltage Measurement Linearity:** Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - **Common mode sensitivity:** Influence of a positive or negative common mode voltage on the differential measurement.
 - **Channel separation:** Influence of a voltage on the neighbor channels not subject to an input voltage.
 - **AD Converter Values with inputs shorted:** Values on the internal AD converter corresponding to zero input voltage
 - **Input Offset Measurement:** Output voltage and statistical results over a large number of zero voltage measurements.
 - **Input Offset Current:** Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - **Input resistance:** Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - **Low Battery Alarm Voltage:** Typical value for information. Below this voltage, a battery alarm signal is generated.
 - **Power consumption:** Typical value for information. Supply currents in various operating modes.



DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V, full range = -100...+300 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.489 $\pm$ 0.02% (k=2)	404.852 $\pm$ 0.02% (k=2)	404.862 $\pm$ 0.02% (k=2)
Low Range	3.97827 $\pm$ 1.50% (k=2)	3.95875 $\pm$ 1.50% (k=2)	3.97982 $\pm$ 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	53.0 ° $\pm$ 1 °
---	------------------



Appendix (Additional assessments outside the scope of SCS0108)**1. DC Voltage Linearity**

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	200032.85	-3.31	-0.00
Channel X + Input	20007.64	1.88	0.01
Channel X - Input	-20003.48	1.18	-0.01
Channel Y + Input	200034.23	-1.43	-0.00
Channel Y + Input	20006.60	0.91	0.00
Channel Y - Input	-20004.04	0.72	-0.00
Channel Z + Input	200035.38	-0.83	-0.00
Channel Z + Input	20003.69	-2.11	-0.01
Channel Z - Input	-20006.38	-1.59	0.01

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2001.63	0.08	0.00
Channel X + Input	202.29	0.70	0.35
Channel X - Input	-197.90	0.60	-0.30
Channel Y + Input	2001.33	-0.07	-0.00
Channel Y + Input	200.86	-0.60	-0.30
Channel Y - Input	-199.87	-1.23	0.62
Channel Z + Input	2001.61	0.27	0.01
Channel Z + Input	200.60	-0.70	-0.35
Channel Z - Input	-199.51	-0.85	0.43

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	13.50	11.56
	- 200	-8.64	-11.18
Channel Y	200	-0.81	-1.28
	- 200	1.05	0.09
Channel Z	200	7.17	6.91
	- 200	-9.46	-9.01

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	-1.70	0.33
Channel Y	200	10.70	-	-0.38
Channel Z	200	7.11	7.89	-

