FCC SAR Test Report

Client Name	:	DHI Telecom Group
Address	:	711 E. 20th St, Houston, Tx, 77008 United States
Product Name	:	Sapphire Tablet
Date	:	Nov. 27, 2021

Shenzhen Anbotek Compliance Laboratory Limited

Contents

TEST REPORT

Applicant	:	DHI Telecom Group
Manufacturer	:	DHI Telecom Group
Product Name	:	Sapphire Tablet
Model No.	:	S_TAB
Trade Mark	:	TravelWifi
Rating(s)	:	Input: DC 5V, 2A(with DC 3.8V, 5000mAh battery inside)

Test Standard(s) : IEC 62209-2:2010; IEEE 1528:2013; FCC 47 CFR Part 2 (2.1093:2013); ANSI/IEEE C95.1:2005; 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 IEEE 1528-2013, FCC 47 CFR Part 2 (2.1093), ANSI/IEEE C95.1:2005requirements.

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	Nov. 01, 2021
Date of Test	Nov. 02 - 26, 2021
Prepared By	Ella Liang (Ella Liang)
Approved & Authorized Signer	Kingkong Jin (Kingkong Jin)

Version

Version No.	Date	Description
01	Nov. 27, 2021	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 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 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	0.639	1.6
GSM1900	0.526	
WCDMA Band II	0.570	
WCDMA Band IV	0.543	
WCDMA Band V	0.621	
LTE Band 2	0.636	
LTE Band 4	0.638	
LTE Band 5	0.505	
LTE Band 7	**0.677**	
LTE Band 12	0.569	
LTE Band 13	0.658	
LTE Band 17	0.483	
LTE Band 26	0.604	
LTE Band 41	0.563	
WLAN2.4G	0.545	
WLAN5.2G	0.102	
WLAN5.3G	0.093	
WLAN5.6G	0.151	
WLAN5.8G	0.194	
Simultaneous Reported SAR (W/Kg)	**1.222**	

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 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013

2. General Information

2.1. Client Information

Applicant	:	DHI Telecom Group
Address	:	711 E. 20th St, Houston, Tx, 77008 United States
Manufacturer	:	DHI Telecom Group
Address	:	711 E. 20th St, Houston, Tx, 77008 United States
Factory	:	DHI Telecom Group
Address	:	711 E. 20th St, Houston, Tx, 77008 United States

2.2. Testing Laboratory Information

Test Site:	:	Shenzhen Anbotek Compliance Laboratory Limited
Address:	:	1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2.3. Description of EquipmentUnder Test (EUT)

Product Name	:	Sapphire Tablet
Model No.	:	S_TAB
Trade Mark	:	TravelWifi
Test Power Supply	:	DC 3.8V
Test Sample No.	:	1-2-1(Engineering Sample)
Tx Frequency	:	BT BDR+EDR/BT BLE: 2402-2480MHz 2.4G WIFI: 2412-2462MHz 5.2G WIFI: 5180MHz~5240MHz 5.3G WIFI: 5260MHz~5320MHz 5.6G WIFI: 5500MHz~5720MHz 5.8G WIFI: 5745MHz~5825MHz 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: TX: 1712.4 ~ 1752.6 MHz UMTS Band 5: TX: 826.4 ~ 846.6 MHz: LTE-FDD Band 2: TX: 1850.7 ~ 1909.3 MHz LTE-FDD Band 4: TX:1710.7 ~ 1754.3 MHz LTE-FDD Band 5: TX: 824.7 ~ 848.3 MHz LTE-FDD Band 7: TX: 2502.5 ~ 2567.5 MHz LTE-FDD Band 12: TX: 699.7 ~ 715.3 MHz LTE-FDD Band 13: TX: 779.5 ~ 784.5 MHz LTE-FDD Band 17: TX: 706.5 ~ 713.5 MHz LTE-FDD Band 26: TX: 814.7 ~ 848.3 MHz LTE-TDD Band 41: TX: 2498.5 ~ 2687.5 MHz
Type of Modulation	:	GSM:GPRS, EGPRS WCDMA:QPSK,16QAM LTE:QPSK,16QAM BT: GFSK, π/4-DQPSK, 8DPSK 2.4G WIFI:BPSK,QPSK,16QAM,64QAM 5G WIFI:OFDM with BPSK/QPSK/16QAM/64QAM/256QAM
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.		

2.4. 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.

2.5. 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 (2.1093:2013)
- ANSI/IEEE C95.1:2005
- IEEE Std 1528:2013
- 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 Devicesv02r05
- KDB 941225 D06 Hotspot SARv02r01
- KDB 648474 D04 Handset SAR v01r03

2.6. Environment of Test Site

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

2.7. 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:

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

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

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

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

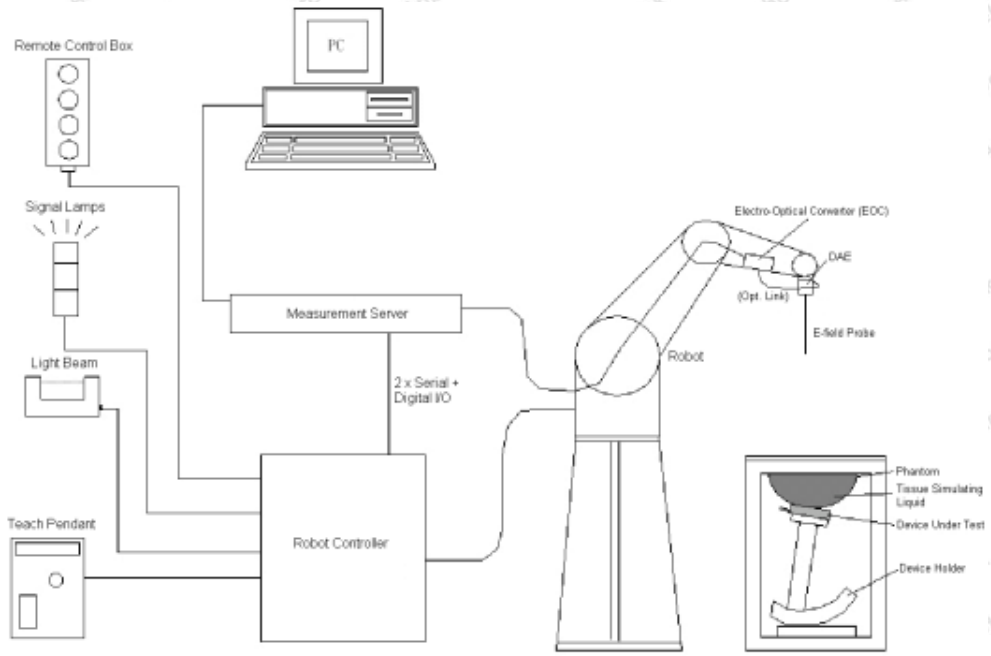
Where: C is the specific head capacity, δT is the temperature rise and δtisthe exposure duration, or related to the electrical field in the tissue by

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

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

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

4. SAR Measurement System



DASY System Configurations

The 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 warming lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

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

4.1. E-Field Probe

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

➢ E-Field Probe Specification

<EX3DV4 Probe>

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

Photo of EX3DV4

➢ E-Field Probe Calibration

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

4.2. Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

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

Photo of DAE

4.3. Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60XL) type from Stäubli SA (France). For the 6-axis 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

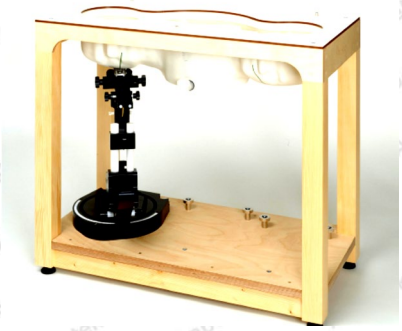
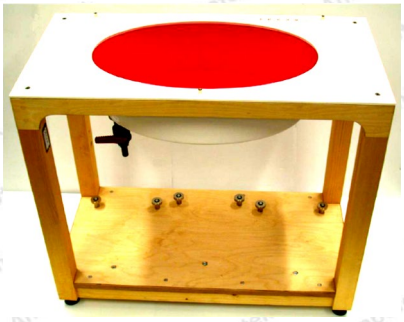


Photo of SAM Phantom

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 ±0.5mm would produce a SAR uncertainty of ± 20%. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

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

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

Device Holder

4.7. Data Storage and Evaluation

- Data Storage

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

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [A/m], [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:

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

with V_i= compensated signal of channel i, (i = x, y, z)
U_i = input signal of channel i, (i = x, y, z)
cf = crest factor of exciting field (DASY parameter)
dcp_i = diode compression point (DASY parameter)

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

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

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

with V_i = compensated signal of channel i,(i= x, y, z)
$Norm_i$= sensor sensitivity of channel i, (i= x, y, z), μV/(V/m)^2 for E-field Probes
ConvF= sensitivity enhancement in solution
a_{ij}= sensor sensitivity factors for H-field probes
f = carrier frequency [GHz]
E_i= electric field strength of channel iin V/m
H_i= magnetic field strength of channel iin A/m

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

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

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

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

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. 15,2019	Jun. 14,2022
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
SPEAG	5GHz System Validation Kit	D5GHzV2	1160	Oct. 02, 2021	Oct. 01, 2024
Rohde & Schwarz	UNIVERSAL RADIO COMMUNICATION TESTER	CMU 200	117888	Oct.26, 2021	Oct.25, 2022
Rohde & Schwarz	UNIVERSAL RADIO COMMUNICATION TESTER	CMW500	1201.0002K50-104209-JC	Oct.26, 2021	Oct.25, 2022
SPEAG	Data Acquisition Electronics	DAE4	387	Sept.06,2021	Sept.05,2022
SPEAG	Dosimetric E-Field Probe	EX3DV4	7396	May 06,2021	May 05,2022
Agilent	ENA Series Network Analyzer	E5071C	MY46317418	Oct.26, 2021	Oct.25, 2022
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	Power Meter	N1914A	MY50001102	Oct.26, 2021	Oct.25, 2022
Agilent	Power Sensor	N8481H	MY51240001	Oct.26, 2021	Oct.25, 2022
R&S	Spectrum Analyzer	N9020A	MY51170037	Oct.26, 2021	Oct.25, 2022
Agilent	Signal Generation	N5182A	MY48180656	Oct.26, 2021	Oct.25, 2022
Worken	Directional Coupler	0110A05601O-10	COM5BNW1A2	Oct.26, 2021	Oct.25, 2022

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 Head SAR

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 (εr)
For Head								
750	40.9	57.1	0.2	1.5	0.3	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1750	55.2	0	0	0.3	0	44.5	1.37	40.1
1800,1900,2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2

2600	54.8	0	0	0.1	0	45.1	1.96	39.0
5000	65.5	0	17.2	0	17.3	0	4.66	36.0
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
5000	78.6	0	10.7	0	10.7	0	5.27	49.0

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	55.5	0.96	55.26	-0.43	0.93	-3.12	22.2℃	11/02/2021
835	55.2	0.97	55.04	-0.29	0.99	2.06	22.7℃	11/04/2021
1750	53.4	1.49	53.12	-0.52	1.46	-2.01	22.3℃	11/08/2021
1900	53.3	1.52	53.83	0.99	1.5	-1.32	22.4℃	11/08/2021
2450	52.7	1.95	53.1	0.76	1.97	1.03	22.2℃	11/09/2021
2600	52.5	2.16	52.46	-0.08	2.23	3.24	22.5℃	11/09/2021
5200	49.0	5.27	48.36	-1.31	5.13	-2.66	21.9℃	11/10/2021
5300	48.74	5.52	48.56	0.37	5.43	1.63	22.6℃	11/26/2021
5600	48.47	5.76	49.7	-2.54	5.61	2.60	22.1℃	11/26/2021
5800	48.2	6.00	46.36	-3.82	6.15	2.50	21.9℃	11/10/2021

7. System Verification Procedures

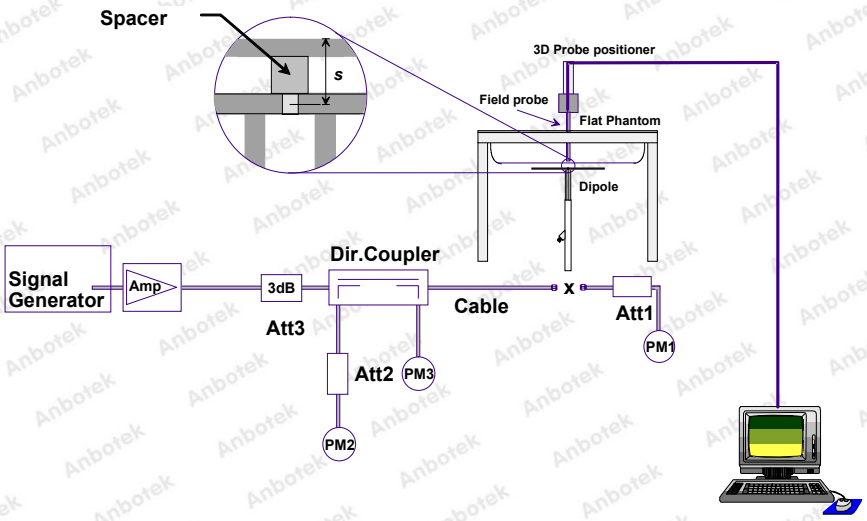
Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix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

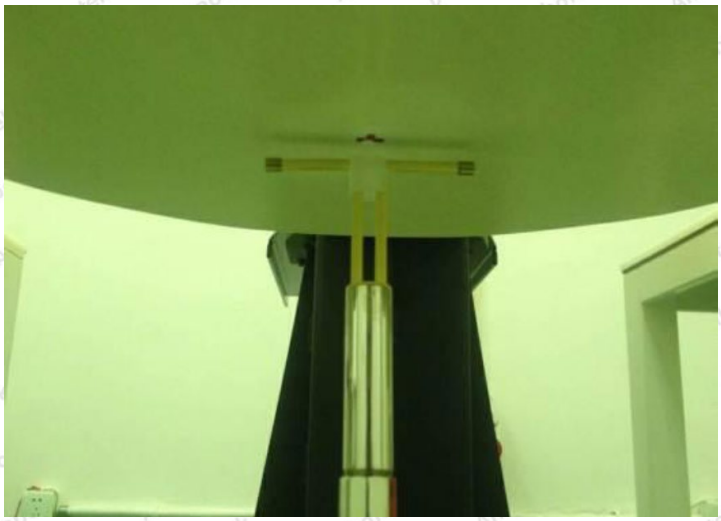


Photo of Dipole Setup

➢ 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 (%)
11/02/2021	750	250	8.53	2.15	8.60	0.82
11/04/2021	835	250	9.57	2.34	9.36	-2.19
11/08/2021	1750	250	36.7	9.72	38.88	5.94
11/08/2021	1900	250	40.1	10.14	40.56	1.15
11/09/2021	2450	250	51.8	12.94	51.76	-0.08
11/09/2021	2600	250	55.3	13.95	55.80	0.90
11/10/2021	5200	100	77.8	7.97	79.7	2.44
11/26/2021	5300	100	78.4	7.66	76.6	-2.30
11/26/2021	5600	100	81.5	8.17	81.7	0.25
11/10/2021	5800	100	78.3	7.92	79.2	1.15

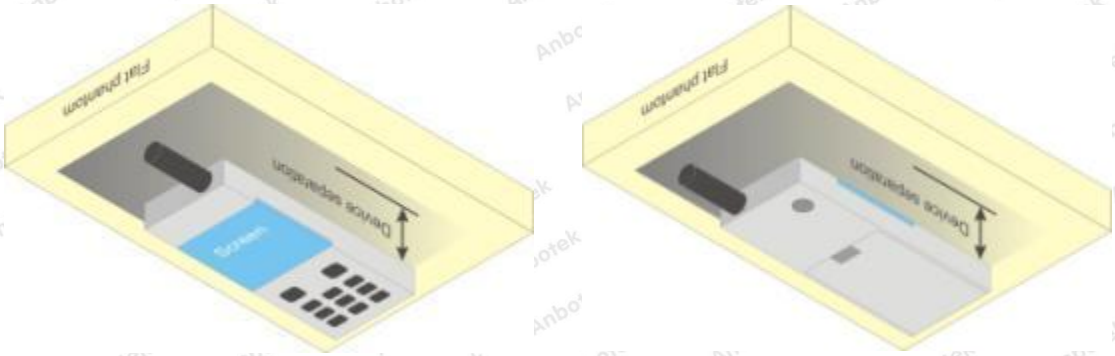
Target and Measurement SAR after Normalized

8. EUT Testing Position

8.1. Body Worn Position

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

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



Body Worn Position

9. Measurement Procedures

The measurement procedures are as follows:

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

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

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

9.1. Spatial Peak SAR Evaluation

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

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

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

(a) Extraction of the measured data (grid and values) from the Zoom Scan
(b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
(c) Generation of a high-resolution mesh within the measured volume
(d) Interpolation of all measured values form the measurement grid to the high-resolution grid
(e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
(f) Calculation of the averaged SAR within masses of 1g and 10g

9.2. Power Reference Measurement

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

9.3. Area Scan Procedures

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

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

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

9.4. Zoom Scan Procedures

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

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

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

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

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

9.5. Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregateSAR, 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 power	128	190	251	128	190	251	Tune-up power
Frequency (MHz)		824.2	836.6	848.8	824.2	836.6	848.6	
GSM (GMSK, 1 Tx slot)	34.00	33.33	33.17	33.13	24.30	24.14	24.10	24.50
GPRS (GMSK, 1 Tx slot)	34.00	33.28	33.15	33.08	24.25	24.12	24.05	24.50
GPRS (GMSK, 2 Tx slots)	33.00	32.20	32.01	31.92	26.18	25.99	25.90	26.50
GPRS (GMSK, 3 Tx slots)	31.00	30.35	30.12	30.04	26.09	25.86	25.78	26.50
GPRS (GMSK, 4 Tx slots)	29.00	28.71	28.43	28.32	25.70	25.42	25.31	26.00
EGPRS (8PSK, 1 Tx slot)	29.00	28.04	27.87	27.83	19.01	18.84	18.80	19.50
EGPRS (8PSK, 2 Tx slots)	27.00	26.81	26.64	26.69	20.79	20.62	20.67	21.00
EGPRS (8PSK, 3 Tx slots)	26.00	25.09	24.91	24.97	20.83	20.65	20.71	21.00
EGPRS (8PSK, 4 Tx slots)	24.00	23.37	23.12	23.21	20.36	20.11	20.20	20.50
Band PCS1900	**Burst Average Power (dBm)**				**Frame-Average Power (dBm)**			
TX Channel	Tune-up power	512	661	810	512	661	810	Tune-up power
Frequency (MHz)		1850.2	1880.0	1909.8	1850.2	1880.0	1909.8	
GSM (GMSK, 1 Tx slot)	32.00	31.76	31.41	30.93	22.73	22.38	21.90	23.00
GPRS (GMSK, 1 Tx slot)	32.00	31.74	31.36	30.89	22.71	22.33	21.86	23.00
GPRS (GMSK, 2 Tx slots)	31.00	30.64	29.93	29.46	24.62	23.91	23.44	23.50
GPRS (GMSK, 3 Tx slots)	29.00	28.67	28.30	27.78	24.41	24.04	23.52	24.50
GPRS (GMSK, 4 Tx slots)	27.00	26.92	26.31	25.80	23.91	23.30	22.79	24.00
EGPRS (8PSK, 1 Tx slot)	28.00	27.29	26.75	26.47	18.26	17.72	17.44	18.50
EGPRS (8PSK, 2 Tx slots)	27.00	26.91	26.42	26.21	20.89	20.40	20.19	21.00
EGPRS (8PSK, 3 Tx slots)	26.00	25.41	24.96	24.68	21.15	20.70	20.42	21.50
EGPRS (8PSK, 4 Tx slots)	24.00	23.36	22.90	22.67	20.35	19.89	19.66	20.50

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.
The calculated method are shown as below:
Frame-averaged power = Maximum burst averaged power (1 Tx Slot) – 9.03 dB
Frame-averaged power = Maximum burst averaged power (2 Tx Slots) – 6.02 dB
Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB
Frame-averaged power = Maximum burst averaged power (4 Tx Slots) – 3.01 dB

Note:

1. Per KDB 447498 D01, the maximum output power channel is used for SAR testing and for further SAR test reduction
2. For Hotspot mode SAR testing, GPRS should be evaluated, therefore the EUT was set inGPRS 3 Tx slots for GSM850and GSM1900 due to its highest frame-average power.

<WCDMA Conducted Power>

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

HSDPA Setup Configuration:

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

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

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

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

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

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

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

Setup Configuration

HSUPA Setup Configuration:

a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting * :
   i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
   ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
   iii. Set Cell Power = -86 dBm
   iv. Set Channel Type = 12.2k + HSPA
   v. Set UE Target Power
   vi. Power Ctrl Mode= Alternating bits
   vii. Set and observe the E-TFCI
   viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
d. The transmitted maximum output power was recorded.

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

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

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c.
Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 14/15 and β_d = 15/15.
Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.
Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

Setup Configuration

<WCDMA Conducted Power>

WCDMA	Band II (dBm)				Band V (dBm)			
TX Channel	Tune-up power	9262	9400	9538	Tune-up power	4132	4183	4233
Frequency (MHz)		1852.4	1880.0	1907.6		826.4	836.6	846.6
RMC 12.2Kbps	25.00	24.50	24.43	**24.73**	25.00	24.36	**24.46**	24.48
HSDPA Subtest-1	24.00	23.49	23.36	23.70	24.00	23.35	23.44	23.48
HSDPA Subtest-2	24.00	22.96	22.90	23.16	23.00	22.85	22.97	22.98
HSDPA Subtest-3	24.00	22.95	22.91	23.17	23.00	22.85	22.96	22.99
HSDPA Subtest-4	24.00	22.95	22.92	23.19	23.00	22.82	22.94	22.99
HSUPA Subtest-1	24.00	23.39	23.33	23.57	24.00	23.27	23.39	23.36
HSUPA Subtest-2	24.00	21.94	21.91	22.19	23.00	21.88	21.97	22.03
HSUPA Subtest-3	22.00	21.70	21.65	21.87	22.00	21.53	21.55	21.67
HSUPA Subtest-4	22.00	21.40	21.31	21.58	22.00	21.26	21.26	21.38
HSUPA Subtest-5	24.00	23.48	23.37	23.66	24.00	23.32	23.32	23.45

WCDMA	Band IV (dBm)			
TX Channel	Tune-up power	1312	1412	1513
Frequency (MHz)		1712.4	1732.4	1752.6
RMC 12.2Kbps	25.00	24.76	**24.76**	24.45
HSDPA Subtest-1	24.00	23.76	23.75	23.43
HSDPA Subtest-2	24.00	23.37	23.22	22.92
HSDPA Subtest-3	24.00	23.25	23.22	22.93
HSDPA Subtest-4	24.00	23.34	23.24	22.93
HSUPA Subtest-1	24.00	23.78	23.64	23.35
HSUPA Subtest-2	24.00	22.37	22.23	21.9
HSUPA Subtest-3	22.00	21.93	21.87	21.62
HSUPA Subtest-4	22.00	21.79	21.66	21.38
HSUPA Subtest-5	24.00	23.75	23.79	23.41

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 Mode:

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band2	1.4MHz	18607	1RB#0	24.12	22.71	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18607	1RB#2	24.22	22.96	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18607	1RB#5	23.22	21.77	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18607	3RB#0	23.39	22.10	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18607	3RB#1	23.77	22.52	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18607	3RB#3	22.70	21.66	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18607	6RB#0	22.60	21.44	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18900	1RB#0	22.68	21.67	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18900	1RB#2	23.11	22.03	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18900	1RB#5	23.26	22.14	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18900	3RB#0	23.05	21.77	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18900	3RB#1	23.05	22.00	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18900	3RB#3	23.40	21.97	23±1.5	22±1.5
NTNV	Band2	1.4MHz	18900	6RB#0	23.65	22.37	23±1.5	22±1.5
NTNV	Band2	1.4MHz	19193	1RB#0	22.58	21.33	23±1.5	22±1.5
NTNV	Band2	1.4MHz	19193	1RB#2	23.73	22.25	23±1.5	22±1.5
NTNV	Band2	1.4MHz	19193	1RB#5	24.09	22.63	23±1.5	22±1.5
NTNV	Band2	1.4MHz	19193	3RB#0	24.37	23.24	23±1.5	22±1.5
NTNV	Band2	1.4MHz	19193	3RB#1	23.75	22.45	23±1.5	22±1.5
NTNV	Band2	1.4MHz	19193	3RB#3	22.87	21.74	23±1.5	22±1.5
NTNV	Band2	1.4MHz	19193	6RB#0	24.22	22.83	23±1.5	22±1.5
NTNV	Band2	3MHz	18615	1RB#0	22.85	21.63	23±1.5	22±1.5
NTNV	Band2	3MHz	18615	1RB#8	23.69	22.21	23±1.5	22±1.5
NTNV	Band2	3MHz	18615	1RB#14	24.36	23.24	23±1.5	22±1.5
NTNV	Band2	3MHz	18615	8RB#0	23.72	22.37	23±1.5	22±1.5
NTNV	Band2	3MHz	18615	8RB#4	23.13	21.69	23±1.5	22±1.5
NTNV	Band2	3MHz	18615	8RB#7	22.76	21.54	23±1.5	22±1.5
NTNV	Band2	3MHz	18615	15RB#0	23.97	22.75	23±1.5	22±1.5
NTNV	Band2	3MHz	18900	1RB#0	23.24	21.92	23±1.5	22±1.5
NTNV	Band2	3MHz	18900	1RB#8	22.69	21.43	23±1.5	22±1.5
NTNV	Band2	3MHz	18900	1RB#14	23.75	22.55	23±1.5	22±1.5
NTNV	Band2	3MHz	18900	8RB#0	23.11	21.79	23±1.5	22±1.5
NTNV	Band2	3MHz	18900	8RB#4	24.25	22.79	23±1.5	22±1.5
NTNV	Band2	3MHz	18900	8RB#7	23.09	21.81	23±1.5	22±1.5
NTNV	Band2	3MHz	18900	15RB#0	24.26	23.03	23±1.5	22±1.5

NTNV	Band2	3MHz	19185	1RB#0	24.12	22.85	23±1.5	22±1.5
NTNV	Band2	3MHz	19185	1RB#8	22.91	21.66	23±1.5	22±1.5
NTNV	Band2	3MHz	19185	1RB#14	22.86	21.38	23±1.5	22±1.5
NTNV	Band2	3MHz	19185	8RB#0	24.00	22.72	23±1.5	22±1.5
NTNV	Band2	3MHz	19185	8RB#4	23.71	22.29	23±1.5	22±1.5
NTNV	Band2	3MHz	19185	8RB#7	23.18	21.70	23±1.5	22±1.5
NTNV	Band2	3MHz	19185	15RB#0	22.83	21.35	23±1.5	22±1.5
NTNV	Band2	5MHz	18625	1RB#0	24.11	22.63	23±1.5	22±1.5
NTNV	Band2	5MHz	18625	1RB#12	23.07	22.07	23±1.5	22±1.5
NTNV	Band2	5MHz	18625	1RB#24	23.90	22.78	23±1.5	22±1.5
NTNV	Band2	5MHz	18625	12RB#0	23.35	22.30	23±1.5	22±1.5
NTNV	Band2	5MHz	18625	12RB#6	24.25	22.93	23±1.5	22±1.5
NTNV	Band2	5MHz	18625	12RB#13	22.88	21.79	23±1.5	22±1.5
NTNV	Band2	5MHz	18625	25RB#0	24.12	22.83	23±1.5	22±1.5
NTNV	Band2	5MHz	18900	1RB#0	23.06	21.94	23±1.5	22±1.5
NTNV	Band2	5MHz	18900	1RB#12	23.18	21.98	23±1.5	22±1.5
NTNV	Band2	5MHz	18900	1RB#24	24.39	22.92	23±1.5	22±1.5
NTNV	Band2	5MHz	18900	12RB#0	22.75	21.64	23±1.5	22±1.5
NTNV	Band2	5MHz	18900	12RB#6	23.40	22.13	23±1.5	22±1.5
NTNV	Band2	5MHz	18900	12RB#13	22.57	21.07	23±1.5	22±1.5
NTNV	Band2	5MHz	18900	25RB#0	23.15	21.71	23±1.5	22±1.5
NTNV	Band2	5MHz	19175	1RB#0	23.25	21.91	23±1.5	22±1.5
NTNV	Band2	5MHz	19175	1RB#12	23.58	22.44	23±1.5	22±1.5
NTNV	Band2	5MHz	19175	1RB#24	23.02	21.72	23±1.5	22±1.5
NTNV	Band2	5MHz	19175	12RB#0	23.57	22.35	23±1.5	22±1.5
NTNV	Band2	5MHz	19175	12RB#6	23.53	22.10	23±1.5	22±1.5
NTNV	Band2	5MHz	19175	12RB#13	23.11	21.89	23±1.5	22±1.5
NTNV	Band2	5MHz	19175	25RB#0	23.83	22.39	23±1.5	22±1.5
NTNV	Band2	10MHz	18650	1RB#0	23.72	22.46	23±1.5	22±1.5
NTNV	Band2	10MHz	18650	1RB#24	23.78	22.54	23±1.5	22±1.5
NTNV	Band2	10MHz	18650	1RB#49	24.10	22.64	23±1.5	22±1.5
NTNV	Band2	10MHz	18650	25RB#0	24.00	22.74	23±1.5	22±1.5
NTNV	Band2	10MHz	18650	25RB#12	23.94	22.88	23±1.5	22±1.5
NTNV	Band2	10MHz	18650	25RB#25	22.62	21.16	23±1.5	22±1.5
NTNV	Band2	10MHz	18650	50RB#0	24.19	22.78	23±1.5	22±1.5
NTNV	Band2	10MHz	18900	1RB#0	22.76	21.74	23±1.5	22±1.5
NTNV	Band2	10MHz	18900	1RB#24	24.07	22.78	23±1.5	22±1.5
NTNV	Band2	10MHz	18900	1RB#49	23.34	22.02	23±1.5	22±1.5
NTNV	Band2	10MHz	18900	25RB#0	22.62	21.50	23±1.5	22±1.5
NTNV	Band2	10MHz	18900	25RB#12	23.43	22.06	23±1.5	22±1.5

NTNV	Band2	10MHz	18900	25RB#25	23.38	21.97	23±1.5	22±1.5
NTNV	Band2	10MHz	18900	50RB#0	24.40	23.20	23±1.5	22±1.5
NTNV	Band2	10MHz	19150	1RB#0	23.41	22.18	23±1.5	22±1.5
NTNV	Band2	10MHz	19150	1RB#24	22.72	21.40	23±1.5	22±1.5
NTNV	Band2	10MHz	19150	1RB#49	22.69	21.61	23±1.5	22±1.5
NTNV	Band2	10MHz	19150	25RB#0	23.95	22.92	23±1.5	22±1.5
NTNV	Band2	10MHz	19150	25RB#12	23.03	21.59	23±1.5	22±1.5
NTNV	Band2	10MHz	19150	25RB#25	23.01	21.97	23±1.5	22±1.5
NTNV	Band2	10MHz	19150	50RB#0	24.23	22.86	23±1.5	22±1.5
NTNV	Band2	15MHz	18675	1RB#0	23.66	22.55	23±1.5	22±1.5
NTNV	Band2	15MHz	18675	1RB#38	22.53	21.06	23±1.5	22±1.5
NTNV	Band2	15MHz	18675	1RB#74	23.62	22.33	23±1.5	22±1.5
NTNV	Band2	15MHz	18675	38RB#0	22.76	21.74	23±1.5	22±1.5
NTNV	Band2	15MHz	18675	38RB#18	24.16	23.06	23±1.5	22±1.5
NTNV	Band2	15MHz	18675	38RB#37	22.65	21.16	23±1.5	22±1.5
NTNV	Band2	15MHz	18675	75RB#0	22.79	21.47	23±1.5	22±1.5
NTNV	Band2	15MHz	18900	1RB#0	23.72	22.50	23±1.5	22±1.5
NTNV	Band2	15MHz	18900	1RB#38	22.70	21.69	23±1.5	22±1.5
NTNV	Band2	15MHz	18900	1RB#74	24.02	22.64	23±1.5	22±1.5
NTNV	Band2	15MHz	18900	38RB#0	23.02	21.68	23±1.5	22±1.5
NTNV	Band2	15MHz	18900	38RB#18	22.54	21.12	23±1.5	22±1.5
NTNV	Band2	15MHz	18900	38RB#37	24.33	23.20	23±1.5	22±1.5
NTNV	Band2	15MHz	18900	75RB#0	23.68	22.36	23±1.5	22±1.5
NTNV	Band2	15MHz	19125	1RB#0	23.31	22.08	23±1.5	22±1.5
NTNV	Band2	15MHz	19125	1RB#38	24.15	22.97	23±1.5	22±1.5
NTNV	Band2	15MHz	19125	1RB#74	22.74	21.63	23±1.5	22±1.5
NTNV	Band2	15MHz	19125	38RB#0	22.83	21.54	23±1.5	22±1.5
NTNV	Band2	15MHz	19125	38RB#18	23.98	22.61	23±1.5	22±1.5
NTNV	Band2	15MHz	19125	38RB#37	23.49	22.25	23±1.5	22±1.5
NTNV	Band2	15MHz	19125	75RB#0	22.67	21.24	23±1.5	22±1.5
NTNV	Band2	20MHz	18700	1RB#0	23.94	22.84	23±1.5	22±1.5
NTNV	Band2	20MHz	18700	1RB#49	23.57	22.27	23±1.5	22±1.5
NTNV	Band2	20MHz	18700	1RB#99	24.43	23.32	23±1.5	22±1.5
NTNV	Band2	20MHz	18700	50RB#0	23.12	21.96	23±1.5	22±1.5
NTNV	Band2	20MHz	18700	50RB#25	23.00	21.76	23±1.5	22±1.5
NTNV	Band2	20MHz	18700	50RB#50	22.99	21.69	23±1.5	22±1.5
NTNV	Band2	20MHz	18700	100RB#0	23.90	22.89	23±1.5	22±1.5
NTNV	Band2	20MHz	18900	1RB#0	22.88	21.41	23±1.5	22±1.5
NTNV	Band2	20MHz	18900	1RB#49	23.98	22.84	23±1.5	22±1.5
NTNV	Band2	20MHz	18900	1RB#99	23.09	21.74	23±1.5	22±1.5

NTNV	Band2	20MHz	18900	50RB#0	23.89	22.48	23±1.5	22±1.5
NTNV	Band2	20MHz	18900	50RB#25	24.38	23.16	23±1.5	22±1.5
NTNV	Band2	20MHz	18900	50RB#50	23.54	22.44	23±1.5	22±1.5
NTNV	Band2	20MHz	18900	100RB#0	22.58	21.19	23±1.5	22±1.5
NTNV	Band2	20MHz	19100	1RB#0	22.57	21.56	23±1.5	22±1.5
NTNV	Band2	20MHz	19100	1RB#49	22.79	21.31	23±1.5	22±1.5
NTNV	Band2	20MHz	19100	1RB#99	23.21	21.99	23±1.5	22±1.5
NTNV	Band2	20MHz	19100	50RB#0	23.89	22.43	23±1.5	22±1.5
NTNV	Band2	20MHz	19100	50RB#25	23.78	22.77	23±1.5	22±1.5
NTNV	Band2	20MHz	19100	50RB#50	23.49	22.18	23±1.5	22±1.5
NTNV	Band2	20MHz	19100	100RB#0	23.12	21.93	23±1.5	22±1.5

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band4	1.4MHz	19957	1RB#0	22.89	21.41	23±1.5	22±1.5
NTNV	Band4	1.4MHz	19957	1RB#2	23.25	21.92	23±1.5	22±1.5
NTNV	Band4	1.4MHz	19957	1RB#5	23.51	22.45	23±1.5	22±1.5
NTNV	Band4	1.4MHz	19957	3RB#0	22.66	21.33	23±1.5	22±1.5
NTNV	Band4	1.4MHz	19957	3RB#1	22.99	21.97	23±1.5	22±1.5
NTNV	Band4	1.4MHz	19957	3RB#3	24.33	23.14	23±1.5	22±1.5
NTNV	Band4	1.4MHz	19957	6RB#0	23.35	22.35	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20175	1RB#0	24.19	23.19	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20175	1RB#2	22.63	21.62	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20175	1RB#5	22.90	21.49	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20175	3RB#0	22.93	21.72	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20175	3RB#1	24.28	22.90	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20175	3RB#3	23.77	22.55	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20175	6RB#0	23.62	22.23	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20393	1RB#0	23.35	22.29	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20393	1RB#2	23.12	21.70	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20393	1RB#5	23.88	22.41	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20393	3RB#0	22.98	21.85	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20393	3RB#1	23.83	22.79	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20393	3RB#3	23.02	21.86	23±1.5	22±1.5
NTNV	Band4	1.4MHz	20393	6RB#0	23.71	22.37	23±1.5	22±1.5
NTNV	Band4	3MHz	19965	1RB#0	23.87	22.80	23±1.5	22±1.5
NTNV	Band4	3MHz	19965	1RB#8	24.19	22.71	23±1.5	22±1.5
NTNV	Band4	3MHz	19965	1RB#14	22.70	21.53	23±1.5	22±1.5
NTNV	Band4	3MHz	19965	8RB#0	23.41	22.05	23±1.5	22±1.5

NTNV	Band4	3MHz	19965	8RB#4	24.10	22.85	23±1.5	22±1.5
NTNV	Band4	3MHz	19965	8RB#7	23.86	22.56	23±1.5	22±1.5
NTNV	Band4	3MHz	19965	15RB#0	22.96	21.46	23±1.5	22±1.5
NTNV	Band4	3MHz	20175	1RB#0	24.38	23.02	23±1.5	22±1.5
NTNV	Band4	3MHz	20175	1RB#8	24.39	22.97	23±1.5	22±1.5
NTNV	Band4	3MHz	20175	1RB#14	22.64	21.61	23±1.5	22±1.5
NTNV	Band4	3MHz	20175	8RB#0	23.22	21.75	23±1.5	22±1.5
NTNV	Band4	3MHz	20175	8RB#4	24.23	22.96	23±1.5	22±1.5
NTNV	Band4	3MHz	20175	8RB#7	24.14	22.73	23±1.5	22±1.5
NTNV	Band4	3MHz	20175	15RB#0	22.96	21.62	23±1.5	22±1.5
NTNV	Band4	3MHz	20385	1RB#0	23.37	22.08	23±1.5	22±1.5
NTNV	Band4	3MHz	20385	1RB#8	23.30	22.26	23±1.5	22±1.5
NTNV	Band4	3MHz	20385	1RB#14	23.69	22.65	23±1.5	22±1.5
NTNV	Band4	3MHz	20385	8RB#0	23.87	22.81	23±1.5	22±1.5
NTNV	Band4	3MHz	20385	8RB#4	22.80	21.65	23±1.5	22±1.5
NTNV	Band4	3MHz	20385	8RB#7	24.08	22.97	23±1.5	22±1.5
NTNV	Band4	3MHz	20385	15RB#0	22.77	21.27	23±1.5	22±1.5
NTNV	Band4	5MHz	19975	1RB#0	23.77	22.30	23±1.5	22±1.5
NTNV	Band4	5MHz	19975	1RB#12	24.30	23.21	23±1.5	22±1.5
NTNV	Band4	5MHz	19975	1RB#24	23.08	21.99	23±1.5	22±1.5
NTNV	Band4	5MHz	19975	12RB#0	24.04	22.82	23±1.5	22±1.5
NTNV	Band4	5MHz	19975	12RB#6	23.21	22.18	23±1.5	22±1.5
NTNV	Band4	5MHz	19975	12RB#13	24.34	22.97	23±1.5	22±1.5
NTNV	Band4	5MHz	19975	25RB#0	24.01	22.63	23±1.5	22±1.5
NTNV	Band4	5MHz	20175	1RB#0	23.05	21.71	23±1.5	22±1.5
NTNV	Band4	5MHz	20175	1RB#12	23.11	21.93	23±1.5	22±1.5
NTNV	Band4	5MHz	20175	1RB#24	22.94	21.55	23±1.5	22±1.5
NTNV	Band4	5MHz	20175	12RB#0	22.64	21.29	23±1.5	22±1.5
NTNV	Band4	5MHz	20175	12RB#6	24.44	22.95	23±1.5	22±1.5
NTNV	Band4	5MHz	20175	12RB#13	23.72	22.69	23±1.5	22±1.5
NTNV	Band4	5MHz	20175	25RB#0	23.28	21.95	23±1.5	22±1.5
NTNV	Band4	5MHz	20375	1RB#0	23.60	22.44	23±1.5	22±1.5
NTNV	Band4	5MHz	20375	1RB#12	24.03	22.78	23±1.5	22±1.5
NTNV	Band4	5MHz	20375	1RB#24	23.58	22.56	23±1.5	22±1.5
NTNV	Band4	5MHz	20375	12RB#0	24.18	23.12	23±1.5	22±1.5
NTNV	Band4	5MHz	20375	12RB#6	23.04	21.98	23±1.5	22±1.5
NTNV	Band4	5MHz	20375	12RB#13	23.23	22.12	23±1.5	22±1.5
NTNV	Band4	5MHz	20375	25RB#0	24.39	23.30	23±1.5	22±1.5
NTNV	Band4	10MHz	20000	1RB#0	23.16	22.05	23±1.5	22±1.5
NTNV	Band4	10MHz	20000	1RB#24	24.43	23.23	23±1.5	22±1.5

NTNV	Band4	10MHz	20000	1RB#49	24.26	22.85	23±1.5	22±1.5
NTNV	Band4	10MHz	20000	25RB#0	24.26	22.79	23±1.5	22±1.5
NTNV	Band4	10MHz	20000	25RB#12	24.33	22.99	23±1.5	22±1.5
NTNV	Band4	10MHz	20000	25RB#25	23.35	22.21	23±1.5	22±1.5
NTNV	Band4	10MHz	20000	50RB#0	23.72	22.28	23±1.5	22±1.5
NTNV	Band4	10MHz	20175	1RB#0	23.40	21.96	23±1.5	22±1.5
NTNV	Band4	10MHz	20175	1RB#24	23.62	22.20	23±1.5	22±1.5
NTNV	Band4	10MHz	20175	1RB#49	22.65	21.56	23±1.5	22±1.5
NTNV	Band4	10MHz	20175	25RB#0	24.23	22.84	23±1.5	22±1.5
NTNV	Band4	10MHz	20175	25RB#12	24.28	22.94	23±1.5	22±1.5
NTNV	Band4	10MHz	20175	25RB#25	22.84	21.36	23±1.5	22±1.5
NTNV	Band4	10MHz	20175	50RB#0	23.52	22.25	23±1.5	22±1.5
NTNV	Band4	10MHz	20350	1RB#0	22.95	21.88	23±1.5	22±1.5
NTNV	Band4	10MHz	20350	1RB#24	22.60	21.19	23±1.5	22±1.5
NTNV	Band4	10MHz	20350	1RB#49	23.33	21.84	23±1.5	22±1.5
NTNV	Band4	10MHz	20350	25RB#0	23.53	22.33	23±1.5	22±1.5
NTNV	Band4	10MHz	20350	25RB#12	24.06	22.91	23±1.5	22±1.5
NTNV	Band4	10MHz	20350	25RB#25	23.91	22.74	23±1.5	22±1.5
NTNV	Band4	10MHz	20350	50RB#0	23.33	22.09	23±1.5	22±1.5
NTNV	Band4	15MHz	20025	1RB#0	23.37	22.05	23±1.5	22±1.5
NTNV	Band4	15MHz	20025	1RB#38	23.88	22.87	23±1.5	22±1.5
NTNV	Band4	15MHz	20025	1RB#74	23.03	22.01	23±1.5	22±1.5
NTNV	Band4	15MHz	20025	38RB#0	23.65	22.25	23±1.5	22±1.5
NTNV	Band4	15MHz	20025	38RB#18	24.20	22.86	23±1.5	22±1.5
NTNV	Band4	15MHz	20025	38RB#37	23.04	21.54	23±1.5	22±1.5
NTNV	Band4	15MHz	20025	75RB#0	24.20	23.18	23±1.5	22±1.5
NTNV	Band4	15MHz	20175	1RB#0	22.66	21.21	23±1.5	22±1.5
NTNV	Band4	15MHz	20175	1RB#38	24.15	22.68	23±1.5	22±1.5
NTNV	Band4	15MHz	20175	1RB#74	23.56	22.25	23±1.5	22±1.5
NTNV	Band4	15MHz	20175	38RB#0	22.82	21.76	23±1.5	22±1.5
NTNV	Band4	15MHz	20175	38RB#18	23.34	22.30	23±1.5	22±1.5
NTNV	Band4	15MHz	20175	38RB#37	22.73	21.68	23±1.5	22±1.5
NTNV	Band4	15MHz	20175	75RB#0	22.86	21.64	23±1.5	22±1.5
NTNV	Band4	15MHz	20325	1RB#0	22.75	21.43	23±1.5	22±1.5
NTNV	Band4	15MHz	20325	1RB#38	22.97	21.82	23±1.5	22±1.5
NTNV	Band4	15MHz	20325	1RB#74	24.31	23.17	23±1.5	22±1.5
NTNV	Band4	15MHz	20325	38RB#0	22.54	21.35	23±1.5	22±1.5
NTNV	Band4	15MHz	20325	38RB#18	22.97	21.90	23±1.5	22±1.5
NTNV	Band4	15MHz	20325	38RB#37	22.98	21.59	23±1.5	22±1.5
NTNV	Band4	15MHz	20325	75RB#0	24.43	22.98	23±1.5	22±1.5

NTNV	Band4	20MHz	20050	1RB#0	23.41	22.26	23±1.5	22±1.5
NTNV	Band4	20MHz	20050	1RB#49	22.95	21.60	23±1.5	22±1.5
NTNV	Band4	20MHz	20050	1RB#99	22.55	21.07	23±1.5	22±1.5
NTNV	Band4	20MHz	20050	50RB#0	23.77	22.31	23±1.5	22±1.5
NTNV	Band4	20MHz	20050	50RB#25	23.90	22.61	23±1.5	22±1.5
NTNV	Band4	20MHz	20050	50RB#50	24.16	22.83	23±1.5	22±1.5
NTNV	Band4	20MHz	20050	100RB#0	23.80	22.41	23±1.5	22±1.5
NTNV	Band4	20MHz	20175	1RB#0	24.02	23.02	23±1.5	22±1.5
NTNV	Band4	20MHz	20175	1RB#49	23.50	22.46	23±1.5	22±1.5
NTNV	Band4	20MHz	20175	1RB#99	22.97	21.91	23±1.5	22±1.5
NTNV	Band4	20MHz	20175	50RB#0	22.86	21.39	23±1.5	22±1.5
NTNV	Band4	20MHz	20175	50RB#25	23.35	21.87	23±1.5	22±1.5
NTNV	Band4	20MHz	20175	50RB#50	23.69	22.41	23±1.5	22±1.5
NTNV	Band4	20MHz	20175	100RB#0	24.13	22.87	23±1.5	22±1.5
NTNV	Band4	20MHz	20300	1RB#0	23.82	22.53	23±1.5	22±1.5
NTNV	Band4	20MHz	20300	1RB#49	22.83	21.36	23±1.5	22±1.5
NTNV	Band4	20MHz	20300	1RB#99	23.45	22.36	23±1.5	22±1.5
NTNV	Band4	20MHz	20300	50RB#0	23.53	22.42	23±1.5	22±1.5
NTNV	Band4	20MHz	20300	50RB#25	24.09	22.85	23±1.5	22±1.5
NTNV	Band4	20MHz	20300	50RB#50	24.21	22.98	23±1.5	22±1.5
NTNV	Band4	20MHz	20300	100RB#0	22.83	21.35	23±1.5	22±1.5

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band5	1.4MHz	20407	1RB#0	22.28	20.94	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20407	1RB#2	21.99	20.75	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20407	1RB#5	21.52	20.31	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20407	3RB#0	22.33	20.96	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20407	3RB#1	21.97	20.74	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20407	3RB#3	21.63	20.41	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20407	6RB#0	23.21	21.96	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20525	1RB#0	23.04	21.89	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20525	1RB#2	22.48	21.11	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20525	1RB#5	23.03	21.79	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20525	3RB#0	22.65	21.47	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20525	3RB#1	22.70	21.30	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20525	3RB#3	22.84	21.50	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20525	6RB#0	21.77	20.75	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20643	1RB#0	22.70	21.65	22±1.5	21±1.5

NTNV	Band5	1.4MHz	20643	1RB#2	22.42	21.08	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20643	1RB#5	22.67	21.65	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20643	3RB#0	21.77	20.30	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20643	3RB#1	21.83	20.57	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20643	3RB#3	22.72	21.48	22±1.5	21±1.5
NTNV	Band5	1.4MHz	20643	6RB#0	21.61	20.30	22±1.5	21±1.5
NTNV	Band5	3MHz	20415	1RB#0	21.55	20.22	22±1.5	21±1.5
NTNV	Band5	3MHz	20415	1RB#8	22.66	21.53	22±1.5	21±1.5
NTNV	Band5	3MHz	20415	1RB#14	21.71	20.35	22±1.5	21±1.5
NTNV	Band5	3MHz	20415	8RB#0	22.48	21.09	22±1.5	21±1.5
NTNV	Band5	3MHz	20415	8RB#4	21.59	20.28	22±1.5	21±1.5
NTNV	Band5	3MHz	20415	8RB#7	22.34	21.08	22±1.5	21±1.5
NTNV	Band5	3MHz	20415	15RB#0	23.43	22.09	22±1.5	21±1.5
NTNV	Band5	3MHz	20525	1RB#0	21.68	20.45	22±1.5	21±1.5
NTNV	Band5	3MHz	20525	1RB#8	23.33	22.09	22±1.5	21±1.5
NTNV	Band5	3MHz	20525	1RB#14	22.72	21.72	22±1.5	21±1.5
NTNV	Band5	3MHz	20525	8RB#0	22.56	21.38	22±1.5	21±1.5
NTNV	Band5	3MHz	20525	8RB#4	22.46	21.37	22±1.5	21±1.5
NTNV	Band5	3MHz	20525	8RB#7	22.78	21.73	22±1.5	21±1.5
NTNV	Band5	3MHz	20525	15RB#0	23.25	21.84	22±1.5	21±1.5
NTNV	Band5	3MHz	20635	1RB#0	23.28	22.16	22±1.5	21±1.5
NTNV	Band5	3MHz	20635	1RB#8	22.59	21.51	22±1.5	21±1.5
NTNV	Band5	3MHz	20635	1RB#14	21.64	20.16	22±1.5	21±1.5
NTNV	Band5	3MHz	20635	8RB#0	22.48	21.06	22±1.5	21±1.5
NTNV	Band5	3MHz	20635	8RB#4	22.61	21.20	22±1.5	21±1.5
NTNV	Band5	3MHz	20635	8RB#7	23.05	21.77	22±1.5	21±1.5
NTNV	Band5	3MHz	20635	15RB#0	22.89	21.45	22±1.5	21±1.5
NTNV	Band5	5MHz	20425	1RB#0	21.95	20.85	22±1.5	21±1.5
NTNV	Band5	5MHz	20425	1RB#12	23.24	22.02	22±1.5	21±1.5
NTNV	Band5	5MHz	20425	1RB#24	21.86	20.78	22±1.5	21±1.5
NTNV	Band5	5MHz	20425	12RB#0	22.76	21.57	22±1.5	21±1.5
NTNV	Band5	5MHz	20425	12RB#6	21.56	20.16	22±1.5	21±1.5
NTNV	Band5	5MHz	20425	12RB#13	22.22	20.94	22±1.5	21±1.5
NTNV	Band5	5MHz	20425	25RB#0	23.17	21.80	22±1.5	21±1.5
NTNV	Band5	5MHz	20525	1RB#0	22.10	20.92	22±1.5	21±1.5
NTNV	Band5	5MHz	20525	1RB#12	22.60	21.38	22±1.5	21±1.5
NTNV	Band5	5MHz	20525	1RB#24	22.21	21.21	22±1.5	21±1.5
NTNV	Band5	5MHz	20525	12RB#0	22.36	21.25	22±1.5	21±1.5
NTNV	Band5	5MHz	20525	12RB#6	23.15	21.94	22±1.5	21±1.5
NTNV	Band5	5MHz	20525	12RB#13	23.41	21.91	22±1.5	21±1.5

NTNV	Band5	5MHz	20525	25RB#0	23.01	22.00	22±1.5	21±1.5
NTNV	Band5	5MHz	20625	1RB#0	22.47	21.04	22±1.5	21±1.5
NTNV	Band5	5MHz	20625	1RB#12	21.72	20.47	22±1.5	21±1.5
NTNV	Band5	5MHz	20625	1RB#24	22.17	21.07	22±1.5	21±1.5
NTNV	Band5	5MHz	20625	12RB#0	22.42	21.38	22±1.5	21±1.5
NTNV	Band5	5MHz	20625	12RB#6	22.76	21.42	22±1.5	21±1.5
NTNV	Band5	5MHz	20625	12RB#13	22.25	20.93	22±1.5	21±1.5
NTNV	Band5	5MHz	20625	25RB#0	23.16	22.09	22±1.5	21±1.5
NTNV	Band5	10MHz	20450	1RB#0	23.38	22.14	22±1.5	21±1.5
NTNV	Band5	10MHz	20450	1RB#24	22.75	21.42	22±1.5	21±1.5
NTNV	Band5	10MHz	20450	1RB#49	23.35	22.01	22±1.5	21±1.5
NTNV	Band5	10MHz	20450	25RB#0	21.98	20.70	22±1.5	21±1.5
NTNV	Band5	10MHz	20450	25RB#12	21.69	20.59	22±1.5	21±1.5
NTNV	Band5	10MHz	20450	25RB#25	22.43	21.08	22±1.5	21±1.5
NTNV	Band5	10MHz	20450	50RB#0	22.73	21.58	22±1.5	21±1.5
NTNV	Band5	10MHz	20525	1RB#0	21.59	20.18	22±1.5	21±1.5
NTNV	Band5	10MHz	20525	1RB#24	22.56	21.22	22±1.5	21±1.5
NTNV	Band5	10MHz	20525	1RB#49	22.95	21.62	22±1.5	21±1.5
NTNV	Band5	10MHz	20525	25RB#0	23.20	21.79	22±1.5	21±1.5
NTNV	Band5	10MHz	20525	25RB#12	22.70	21.55	22±1.5	21±1.5
NTNV	Band5	10MHz	20525	25RB#25	22.64	21.61	22±1.5	21±1.5
NTNV	Band5	10MHz	20525	50RB#0	23.38	22.05	22±1.5	21±1.5
NTNV	Band5	10MHz	20600	1RB#0	23.31	22.07	22±1.5	21±1.5
NTNV	Band5	10MHz	20600	1RB#24	22.13	20.82	22±1.5	21±1.5
NTNV	Band5	10MHz	20600	1RB#49	22.19	20.98	22±1.5	21±1.5
NTNV	Band5	10MHz	20600	25RB#0	23.16	21.94	22±1.5	21±1.5
NTNV	Band5	10MHz	20600	25RB#12	23.40	22.13	22±1.5	21±1.5
NTNV	Band5	10MHz	20600	25RB#25	21.64	20.50	22±1.5	21±1.5
NTNV	Band5	10MHz	20600	50RB#0	21.97	20.77	22±1.5	21±1.5

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band7	5MHz	20775	1RB#0	23.25	21.90	23±1.5	22±1.5
NTNV	Band7	5MHz	20775	1RB#12	22.87	21.41	23±1.5	22±1.5
NTNV	Band7	5MHz	20775	1RB#24	22.58	21.17	23±1.5	22±1.5
NTNV	Band7	5MHz	20775	12RB#0	22.64	21.15	23±1.5	22±1.5
NTNV	Band7	5MHz	20775	12RB#6	23.64	22.37	23±1.5	22±1.5
NTNV	Band7	5MHz	20775	12RB#13	22.68	21.27	23±1.5	22±1.5
NTNV	Band7	5MHz	20775	25RB#0	24.35	23.05	23±1.5	22±1.5

NTNV	Band7	5MHz	21100	1RB#0	23.62	22.38	23±1.5	22±1.5
NTNV	Band7	5MHz	21100	1RB#12	23.66	22.66	23±1.5	22±1.5
NTNV	Band7	5MHz	21100	1RB#24	22.55	21.20	23±1.5	22±1.5
NTNV	Band7	5MHz	21100	12RB#0	23.03	21.63	23±1.5	22±1.5
NTNV	Band7	5MHz	21100	12RB#6	23.94	22.94	23±1.5	22±1.5
NTNV	Band7	5MHz	21100	12RB#13	23.75	22.62	23±1.5	22±1.5
NTNV	Band7	5MHz	21100	25RB#0	22.55	21.52	23±1.5	22±1.5
NTNV	Band7	5MHz	21425	1RB#0	23.16	22.01	23±1.5	22±1.5
NTNV	Band7	5MHz	21425	1RB#12	22.72	21.24	23±1.5	22±1.5
NTNV	Band7	5MHz	21425	1RB#24	22.62	21.55	23±1.5	22±1.5
NTNV	Band7	5MHz	21425	12RB#0	23.57	22.12	23±1.5	22±1.5
NTNV	Band7	5MHz	21425	12RB#6	22.72	21.45	23±1.5	22±1.5
NTNV	Band7	5MHz	21425	12RB#13	22.92	21.47	23±1.5	22±1.5
NTNV	Band7	5MHz	21425	25RB#0	23.69	22.30	23±1.5	22±1.5
NTNV	Band7	10MHz	20800	1RB#0	24.12	22.68	23±1.5	22±1.5
NTNV	Band7	10MHz	20800	1RB#24	24.43	23.29	23±1.5	22±1.5
NTNV	Band7	10MHz	20800	1RB#49	24.18	22.71	23±1.5	22±1.5
NTNV	Band7	10MHz	20800	25RB#0	22.84	21.59	23±1.5	22±1.5
NTNV	Band7	10MHz	20800	25RB#12	23.53	22.50	23±1.5	22±1.5
NTNV	Band7	10MHz	20800	25RB#25	24.02	22.88	23±1.5	22±1.5
NTNV	Band7	10MHz	20800	50RB#0	22.99	21.94	23±1.5	22±1.5
NTNV	Band7	10MHz	21100	1RB#0	23.20	21.93	23±1.5	22±1.5
NTNV	Band7	10MHz	21100	1RB#24	23.45	22.23	23±1.5	22±1.5
NTNV	Band7	10MHz	21100	1RB#49	22.72	21.54	23±1.5	22±1.5
NTNV	Band7	10MHz	21100	25RB#0	23.22	22.08	23±1.5	22±1.5
NTNV	Band7	10MHz	21100	25RB#12	22.74	21.43	23±1.5	22±1.5
NTNV	Band7	10MHz	21100	25RB#25	23.39	21.94	23±1.5	22±1.5
NTNV	Band7	10MHz	21100	50RB#0	22.86	21.61	23±1.5	22±1.5
NTNV	Band7	10MHz	21400	1RB#0	23.47	22.28	23±1.5	22±1.5
NTNV	Band7	10MHz	21400	1RB#24	24.31	22.96	23±1.5	22±1.5
NTNV	Band7	10MHz	21400	1RB#49	23.00	21.84	23±1.5	22±1.5
NTNV	Band7	10MHz	21400	25RB#0	24.33	23.14	23±1.5	22±1.5
NTNV	Band7	10MHz	21400	25RB#12	24.29	23.08	23±1.5	22±1.5
NTNV	Band7	10MHz	21400	25RB#25	23.96	22.84	23±1.5	22±1.5
NTNV	Band7	10MHz	21400	50RB#0	24.32	23.19	23±1.5	22±1.5
NTNV	Band7	15MHz	20825	1RB#0	22.69	21.19	23±1.5	22±1.5
NTNV	Band7	15MHz	20825	1RB#38	22.75	21.71	23±1.5	22±1.5
NTNV	Band7	15MHz	20825	1RB#74	23.19	21.73	23±1.5	22±1.5
NTNV	Band7	15MHz	20825	38RB#0	23.18	22.00	23±1.5	22±1.5
NTNV	Band7	15MHz	20825	38RB#18	24.30	23.17	23±1.5	22±1.5

NTNV	Band7	15MHz	20825	38RB#37	23.28	22.04	23±1.5	22±1.5
NTNV	Band7	15MHz	20825	75RB#0	23.45	22.09	23±1.5	22±1.5
NTNV	Band7	15MHz	21100	1RB#0	22.67	21.44	23±1.5	22±1.5
NTNV	Band7	15MHz	21100	1RB#38	23.06	21.56	23±1.5	22±1.5
NTNV	Band7	15MHz	21100	1RB#74	23.68	22.68	23±1.5	22±1.5
NTNV	Band7	15MHz	21100	38RB#0	23.31	21.98	23±1.5	22±1.5
NTNV	Band7	15MHz	21100	38RB#18	23.46	22.18	23±1.5	22±1.5
NTNV	Band7	15MHz	21100	38RB#37	22.83	21.65	23±1.5	22±1.5
NTNV	Band7	15MHz	21100	75RB#0	23.38	22.32	23±1.5	22±1.5
NTNV	Band7	15MHz	21375	1RB#0	23.59	22.10	23±1.5	22±1.5
NTNV	Band7	15MHz	21375	1RB#38	22.73	21.53	23±1.5	22±1.5
NTNV	Band7	15MHz	21375	1RB#74	23.11	21.79	23±1.5	22±1.5
NTNV	Band7	15MHz	21375	38RB#0	22.59	21.21	23±1.5	22±1.5
NTNV	Band7	15MHz	21375	38RB#18	23.37	22.27	23±1.5	22±1.5
NTNV	Band7	15MHz	21375	38RB#37	22.70	21.55	23±1.5	22±1.5
NTNV	Band7	15MHz	21375	75RB#0	22.89	21.59	23±1.5	22±1.5
NTNV	Band7	20MHz	20850	1RB#0	22.81	21.71	23±1.5	22±1.5
NTNV	Band7	20MHz	20850	1RB#49	23.20	21.89	23±1.5	22±1.5
NTNV	Band7	20MHz	20850	1RB#99	24.18	22.95	23±1.5	22±1.5
NTNV	Band7	20MHz	20850	50RB#0	22.77	21.49	23±1.5	22±1.5
NTNV	Band7	20MHz	20850	50RB#25	23.24	21.93	23±1.5	22±1.5
NTNV	Band7	20MHz	20850	50RB#50	23.63	22.52	23±1.5	22±1.5
NTNV	Band7	20MHz	20850	100RB#0	23.28	22.12	23±1.5	22±1.5
NTNV	Band7	20MHz	21100	1RB#0	24.29	23.07	23±1.5	22±1.5
NTNV	Band7	20MHz	21100	1RB#49	23.23	22.23	23±1.5	22±1.5
NTNV	Band7	20MHz	21100	1RB#99	22.86	21.58	23±1.5	22±1.5
NTNV	Band7	20MHz	21100	50RB#0	23.54	22.17	23±1.5	22±1.5
NTNV	Band7	20MHz	21100	50RB#25	22.69	21.19	23±1.5	22±1.5
NTNV	Band7	20MHz	21100	50RB#50	22.55	21.14	23±1.5	22±1.5
NTNV	Band7	20MHz	21100	100RB#0	23.95	22.54	23±1.5	22±1.5
NTNV	Band7	20MHz	21350	1RB#0	22.91	21.77	23±1.5	22±1.5
NTNV	Band7	20MHz	21350	1RB#49	23.89	22.78	23±1.5	22±1.5
NTNV	Band7	20MHz	21350	1RB#99	23.97	22.49	23±1.5	22±1.5
NTNV	Band7	20MHz	21350	50RB#0	23.87	22.46	23±1.5	22±1.5
NTNV	Band7	20MHz	21350	50RB#25	23.13	22.08	23±1.5	22±1.5
NTNV	Band7	20MHz	21350	50RB#50	22.96	21.62	23±1.5	22±1.5
NTNV	Band7	20MHz	21350	100RB#0	23.85	22.84	23±1.5	22±1.5

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band12	1.4MHz	23017	1RB#0	24.12	22.75	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23017	1RB#2	23.29	21.89	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23017	1RB#5	22.51	21.31	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23017	3RB#0	23.53	22.41	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23017	3RB#1	24.17	23.13	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23017	3RB#3	24.24	23.14	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23017	6RB#0	22.92	21.79	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23095	1RB#0	24.39	22.97	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23095	1RB#2	23.04	21.84	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23095	1RB#5	23.91	22.42	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23095	3RB#0	23.64	22.30	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23095	3RB#1	23.47	22.33	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23095	3RB#3	24.30	23.10	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23095	6RB#0	23.53	22.10	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23173	1RB#0	24.07	22.81	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23173	1RB#2	23.96	22.72	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23173	1RB#5	23.63	22.42	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23173	3RB#0	23.32	22.23	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23173	3RB#1	24.06	23.01	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23173	3RB#3	23.53	22.28	23±1.5	22±1.5
NTNV	Band12	1.4MHz	23173	6RB#0	22.59	21.58	23±1.5	22±1.5
NTNV	Band12	3MHz	23025	1RB#0	22.90	21.84	23±1.5	22±1.5
NTNV	Band12	3MHz	23025	1RB#8	22.50	21.25	23±1.5	22±1.5
NTNV	Band12	3MHz	23025	1RB#14	24.40	23.27	23±1.5	22±1.5
NTNV	Band12	3MHz	23025	8RB#0	22.68	21.26	23±1.5	22±1.5
NTNV	Band12	3MHz	23025	8RB#4	24.08	22.86	23±1.5	22±1.5
NTNV	Band12	3MHz	23025	8RB#7	23.44	22.03	23±1.5	22±1.5
NTNV	Band12	3MHz	23025	15RB#0	24.22	23.00	23±1.5	22±1.5
NTNV	Band12	3MHz	23095	1RB#0	23.28	22.02	23±1.5	22±1.5
NTNV	Band12	3MHz	23095	1RB#8	23.32	22.13	23±1.5	22±1.5
NTNV	Band12	3MHz	23095	1RB#14	22.97	21.79	23±1.5	22±1.5
NTNV	Band12	3MHz	23095	8RB#0	24.03	22.58	23±1.5	22±1.5
NTNV	Band12	3MHz	23095	8RB#4	23.65	22.46	23±1.5	22±1.5
NTNV	Band12	3MHz	23095	8RB#7	23.03	22.03	23±1.5	22±1.5
NTNV	Band12	3MHz	23095	15RB#0	23.73	22.63	23±1.5	22±1.5
NTNV	Band12	3MHz	23165	1RB#0	22.88	21.84	23±1.5	22±1.5

NTNV	Band12	3MHz	23165	1RB#8	23.98	22.94	23±1.5	22±1.5
NTNV	Band12	3MHz	23165	1RB#14	24.17	22.90	23±1.5	22±1.5
NTNV	Band12	3MHz	23165	8RB#0	23.11	21.95	23±1.5	22±1.5
NTNV	Band12	3MHz	23165	8RB#4	23.86	22.41	23±1.5	22±1.5
NTNV	Band12	3MHz	23165	8RB#7	22.84	21.40	23±1.5	22±1.5
NTNV	Band12	3MHz	23165	15RB#0	23.27	22.16	23±1.5	22±1.5
NTNV	Band12	5MHz	23035	1RB#0	24.39	23.09	23±1.5	22±1.5
NTNV	Band12	5MHz	23035	1RB#12	23.04	21.54	23±1.5	22±1.5
NTNV	Band12	5MHz	23035	1RB#24	22.71	21.60	23±1.5	22±1.5
NTNV	Band12	5MHz	23035	12RB#0	23.20	22.17	23±1.5	22±1.5
NTNV	Band12	5MHz	23035	12RB#6	24.24	23.01	23±1.5	22±1.5
NTNV	Band12	5MHz	23035	12RB#13	23.03	21.85	23±1.5	22±1.5
NTNV	Band12	5MHz	23035	25RB#0	24.23	22.94	23±1.5	22±1.5
NTNV	Band12	5MHz	23095	1RB#0	23.33	22.23	23±1.5	22±1.5
NTNV	Band12	5MHz	23095	1RB#12	23.25	22.17	23±1.5	22±1.5
NTNV	Band12	5MHz	23095	1RB#24	22.51	21.09	23±1.5	22±1.5
NTNV	Band12	5MHz	23095	12RB#0	23.21	22.17	23±1.5	22±1.5
NTNV	Band12	5MHz	23095	12RB#6	23.90	22.62	23±1.5	22±1.5
NTNV	Band12	5MHz	23095	12RB#13	23.47	22.09	23±1.5	22±1.5
NTNV	Band12	5MHz	23095	25RB#0	23.66	22.41	23±1.5	22±1.5
NTNV	Band12	5MHz	23155	1RB#0	23.42	22.07	23±1.5	22±1.5
NTNV	Band12	5MHz	23155	1RB#12	23.40	22.12	23±1.5	22±1.5
NTNV	Band12	5MHz	23155	1RB#24	22.58	21.38	23±1.5	22±1.5
NTNV	Band12	5MHz	23155	12RB#0	24.17	22.81	23±1.5	22±1.5
NTNV	Band12	5MHz	23155	12RB#6	23.23	22.03	23±1.5	22±1.5
NTNV	Band12	5MHz	23155	12RB#13	23.41	22.11	23±1.5	22±1.5
NTNV	Band12	5MHz	23155	25RB#0	23.13	22.06	23±1.5	22±1.5
NTNV	Band12	10MHz	23060	1RB#0	23.36	22.09	23±1.5	22±1.5
NTNV	Band12	10MHz	23060	1RB#24	22.93	21.70	23±1.5	22±1.5
NTNV	Band12	10MHz	23060	1RB#49	24.35	23.08	23±1.5	22±1.5
NTNV	Band12	10MHz	23060	25RB#0	23.42	21.92	23±1.5	22±1.5
NTNV	Band12	10MHz	23060	25RB#12	23.12	21.64	23±1.5	22±1.5
NTNV	Band12	10MHz	23060	25RB#25	22.59	21.29	23±1.5	22±1.5
NTNV	Band12	10MHz	23060	50RB#0	24.00	22.56	23±1.5	22±1.5
NTNV	Band12	10MHz	23095	1RB#0	23.49	22.21	23±1.5	22±1.5
NTNV	Band12	10MHz	23095	1RB#24	22.89	21.88	23±1.5	22±1.5
NTNV	Band12	10MHz	23095	1RB#49	23.36	22.31	23±1.5	22±1.5
NTNV	Band12	10MHz	23095	25RB#0	24.29	22.80	23±1.5	22±1.5
NTNV	Band12	10MHz	23095	25RB#12	23.29	22.06	23±1.5	22±1.5
NTNV	Band12	10MHz	23095	25RB#25	22.78	21.40	23±1.5	22±1.5

NTNV	Band12	10MHz	23095	50RB#0	23.75	22.48	23±1.5	22±1.5
NTNV	Band12	10MHz	23130	1RB#0	24.37	23.23	23±1.5	22±1.5
NTNV	Band12	10MHz	23130	1RB#24	24.22	22.86	23±1.5	22±1.5
NTNV	Band12	10MHz	23130	1RB#49	24.34	23.25	23±1.5	22±1.5
NTNV	Band12	10MHz	23130	25RB#0	22.67	21.42	23±1.5	22±1.5
NTNV	Band12	10MHz	23130	25RB#12	23.29	21.80	23±1.5	22±1.5
NTNV	Band12	10MHz	23130	25RB#25	23.07	21.81	23±1.5	22±1.5
NTNV	Band12	10MHz	23130	50RB#0	23.62	22.22	23±1.5	22±1.5

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band13	5MHz	23205	1RB#0	21.57	20.43	22±1.5	21±1.5
NTNV	Band13	5MHz	23205	1RB#12	23.21	22.17	22±1.5	21±1.5
NTNV	Band13	5MHz	23205	1RB#24	22.52	21.49	22±1.5	21±1.5
NTNV	Band13	5MHz	23205	12RB#0	23.09	21.95	22±1.5	21±1.5
NTNV	Band13	5MHz	23205	12RB#6	22.04	20.81	22±1.5	21±1.5
NTNV	Band13	5MHz	23205	12RB#13	22.64	21.38	22±1.5	21±1.5
NTNV	Band13	5MHz	23205	25RB#0	21.55	20.28	22±1.5	21±1.5
NTNV	Band13	5MHz	23230	1RB#0	22.76	21.31	22±1.5	21±1.5
NTNV	Band13	5MHz	23230	1RB#12	22.43	20.93	22±1.5	21±1.5
NTNV	Band13	5MHz	23230	1RB#24	21.97	20.62	22±1.5	21±1.5
NTNV	Band13	5MHz	23230	12RB#0	22.58	21.30	22±1.5	21±1.5
NTNV	Band13	5MHz	23230	12RB#6	23.35	22.27	22±1.5	21±1.5
NTNV	Band13	5MHz	23230	12RB#13	22.05	20.77	22±1.5	21±1.5
NTNV	Band13	5MHz	23230	25RB#0	21.91	20.57	22±1.5	21±1.5
NTNV	Band13	5MHz	23255	1RB#0	21.97	20.53	22±1.5	21±1.5
NTNV	Band13	5MHz	23255	1RB#12	23.29	21.90	22±1.5	21±1.5
NTNV	Band13	5MHz	23255	1RB#24	23.19	22.19	22±1.5	21±1.5
NTNV	Band13	5MHz	23255	12RB#0	21.82	20.52	22±1.5	21±1.5
NTNV	Band13	5MHz	23255	12RB#6	21.84	20.79	22±1.5	21±1.5
NTNV	Band13	5MHz	23255	12RB#13	23.42	22.40	22±1.5	21±1.5
NTNV	Band13	5MHz	23255	25RB#0	21.65	20.16	22±1.5	21±1.5
NTNV	Band13	10MHz	23230	1RB#0	21.87	20.64	22±1.5	21±1.5
NTNV	Band13	10MHz	23230	1RB#24	23.07	21.73	22±1.5	21±1.5
NTNV	Band13	10MHz	23230	1RB#49	21.79	20.74	22±1.5	21±1.5
NTNV	Band13	10MHz	23230	25RB#0	21.98	20.75	22±1.5	21±1.5
NTNV	Band13	10MHz	23230	25RB#12	23.06	21.94	22±1.5	21±1.5
NTNV	Band13	10MHz	23230	25RB#25	22.54	21.47	22±1.5	21±1.5
NTNV	Band13	10MHz	23230	50RB#0	22.02	20.86	22±1.5	21±1.5

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band17	5MHz	23755	1RB#0	23.66	22.36	23±1.5	22±1.5
NTNV	Band17	5MHz	23755	1RB#12	23.86	22.81	23±1.5	22±1.5
NTNV	Band17	5MHz	23755	1RB#24	24.10	23.07	23±1.5	22±1.5
NTNV	Band17	5MHz	23755	12RB#0	23.72	22.26	23±1.5	22±1.5
NTNV	Band17	5MHz	23755	12RB#6	23.16	22.10	23±1.5	22±1.5
NTNV	Band17	5MHz	23755	12RB#13	23.15	22.09	23±1.5	22±1.5
NTNV	Band17	5MHz	23755	25RB#0	23.46	22.27	23±1.5	22±1.5
NTNV	Band17	5MHz	23790	1RB#0	24.14	23.00	23±1.5	22±1.5
NTNV	Band17	5MHz	23790	1RB#12	23.68	22.35	23±1.5	22±1.5
NTNV	Band17	5MHz	23790	1RB#24	23.12	21.83	23±1.5	22±1.5
NTNV	Band17	5MHz	23790	12RB#0	23.61	22.53	23±1.5	22±1.5
NTNV	Band17	5MHz	23790	12RB#6	22.53	21.27	23±1.5	22±1.5
NTNV	Band17	5MHz	23790	12RB#13	22.52	21.19	23±1.5	22±1.5
NTNV	Band17	5MHz	23790	25RB#0	24.19	22.79	23±1.5	22±1.5
NTNV	Band17	5MHz	23825	1RB#0	22.76	21.35	23±1.5	22±1.5
NTNV	Band17	5MHz	23825	1RB#12	23.72	22.69	23±1.5	22±1.5
NTNV	Band17	5MHz	23825	1RB#24	23.56	22.42	23±1.5	22±1.5
NTNV	Band17	5MHz	23825	12RB#0	24.42	23.16	23±1.5	22±1.5
NTNV	Band17	5MHz	23825	12RB#6	23.24	21.96	23±1.5	22±1.5
NTNV	Band17	5MHz	23825	12RB#13	22.54	21.42	23±1.5	22±1.5
NTNV	Band17	5MHz	23825	25RB#0	22.82	21.34	23±1.5	22±1.5
NTNV	Band17	10MHz	23780	1RB#0	23.34	21.90	23±1.5	22±1.5
NTNV	Band17	10MHz	23780	1RB#24	24.35	23.18	23±1.5	22±1.5
NTNV	Band17	10MHz	23780	1RB#49	23.35	22.03	23±1.5	22±1.5
NTNV	Band17	10MHz	23780	25RB#0	24.26	22.86	23±1.5	22±1.5
NTNV	Band17	10MHz	23780	25RB#12	23.69	22.68	23±1.5	22±1.5
NTNV	Band17	10MHz	23780	25RB#25	24.41	23.26	23±1.5	22±1.5
NTNV	Band17	10MHz	23780	50RB#0	24.10	22.80	23±1.5	22±1.5
NTNV	Band17	10MHz	23790	1RB#0	24.32	22.82	23±1.5	22±1.5
NTNV	Band17	10MHz	23790	1RB#24	23.58	22.38	23±1.5	22±1.5
NTNV	Band17	10MHz	23790	1RB#49	23.00	21.97	23±1.5	22±1.5
NTNV	Band17	10MHz	23790	25RB#0	22.53	21.29	23±1.5	22±1.5
NTNV	Band17	10MHz	23790	25RB#12	23.98	22.77	23±1.5	22±1.5
NTNV	Band17	10MHz	23790	25RB#25	22.60	21.15	23±1.5	22±1.5
NTNV	Band17	10MHz	23790	50RB#0	24.01	22.87	23±1.5	22±1.5
NTNV	Band17	10MHz	23800	1RB#0	24.06	22.97	23±1.5	22±1.5

NTNV	Band17	10MHz	23800	1RB#24	23.64	22.44	23±1.5	22±1.5
NTNV	Band17	10MHz	23800	1RB#49	23.01	21.77	23±1.5	22±1.5
NTNV	Band17	10MHz	23800	25RB#0	23.90	22.58	23±1.5	22±1.5
NTNV	Band17	10MHz	23800	25RB#12	22.83	21.67	23±1.5	22±1.5
NTNV	Band17	10MHz	23800	25RB#25	24.22	22.84	23±1.5	22±1.5
NTNV	Band17	10MHz	23800	50RB#0	23.83	22.69	23±1.5	22±1.5

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band26	1.4MHz	26697	1RB#0	23.00	21.96	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26697	1RB#2	22.37	21.02	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26697	1RB#5	22.66	21.41	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26697	3RB#0	22.50	21.28	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26697	3RB#1	22.18	21.10	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26697	3RB#3	22.77	21.51	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26697	6RB#0	22.84	21.57	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26740	1RB#0	22.98	21.59	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26740	1RB#2	22.24	21.24	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26740	1RB#5	23.13	21.88	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26740	3RB#0	23.02	21.87	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26740	3RB#1	23.05	21.95	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26740	3RB#3	23.02	21.99	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26740	6RB#0	23.02	21.88	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26783	1RB#0	22.33	21.00	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26783	1RB#2	22.74	21.32	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26783	1RB#5	23.11	22.03	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26783	3RB#0	22.03	20.60	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26783	3RB#1	22.72	21.54	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26783	3RB#3	23.24	22.05	22±1.5	21±1.5
NTNV	Band26	1.4MHz	26783	6RB#0	22.16	20.91	22±1.5	21±1.5
NTNV	Band26	3MHz	26705	1RB#0	22.24	20.76	22±1.5	21±1.5
NTNV	Band26	3MHz	26705	1RB#8	23.03	21.96	22±1.5	21±1.5
NTNV	Band26	3MHz	26705	1RB#14	22.58	21.14	22±1.5	21±1.5
NTNV	Band26	3MHz	26705	8RB#0	23.07	21.82	22±1.5	21±1.5
NTNV	Band26	3MHz	26705	8RB#4	22.64	21.49	22±1.5	21±1.5
NTNV	Band26	3MHz	26705	8RB#7	23.15	22.05	22±1.5	21±1.5
NTNV	Band26	3MHz	26705	15RB#0	22.12	20.87	22±1.5	21±1.5
NTNV	Band26	3MHz	26740	1RB#0	22.26	21.08	22±1.5	21±1.5

NTNV	Band26	3MHz	26740	1RB#8	22.79	21.31	22±1.5	21±1.5
NTNV	Band26	3MHz	26740	1RB#14	22.12	20.98	22±1.5	21±1.5
NTNV	Band26	3MHz	26740	8RB#0	22.07	20.97	22±1.5	21±1.5
NTNV	Band26	3MHz	26740	8RB#4	22.74	21.66	22±1.5	21±1.5
NTNV	Band26	3MHz	26740	8RB#7	22.98	21.98	22±1.5	21±1.5
NTNV	Band26	3MHz	26740	15RB#0	23.12	21.63	22±1.5	21±1.5
NTNV	Band26	3MHz	26775	1RB#0	22.65	21.25	22±1.5	21±1.5
NTNV	Band26	3MHz	26775	1RB#8	22.85	21.58	22±1.5	21±1.5
NTNV	Band26	3MHz	26775	1RB#14	23.33	22.01	22±1.5	21±1.5
NTNV	Band26	3MHz	26775	8RB#0	22.61	21.46	22±1.5	21±1.5
NTNV	Band26	3MHz	26775	8RB#4	22.74	21.55	22±1.5	21±1.5
NTNV	Band26	3MHz	26775	8RB#7	22.72	21.62	22±1.5	21±1.5
NTNV	Band26	3MHz	26775	15RB#0	23.38	22.02	22±1.5	21±1.5
NTNV	Band26	5MHz	26715	1RB#0	22.84	21.74	22±1.5	21±1.5
NTNV	Band26	5MHz	26715	1RB#12	22.42	21.01	22±1.5	21±1.5
NTNV	Band26	5MHz	26715	1RB#24	22.25	20.93	22±1.5	21±1.5
NTNV	Band26	5MHz	26715	12RB#0	22.31	21.17	22±1.5	21±1.5
NTNV	Band26	5MHz	26715	12RB#6	23.40	21.98	22±1.5	21±1.5
NTNV	Band26	5MHz	26715	12RB#13	22.95	21.78	22±1.5	21±1.5
NTNV	Band26	5MHz	26715	25RB#0	22.90	21.69	22±1.5	21±1.5
NTNV	Band26	5MHz	26740	1RB#0	23.01	21.58	22±1.5	21±1.5
NTNV	Band26	5MHz	26740	1RB#12	23.03	21.69	22±1.5	21±1.5
NTNV	Band26	5MHz	26740	1RB#24	22.14	20.86	22±1.5	21±1.5
NTNV	Band26	5MHz	26740	12RB#0	22.71	21.58	22±1.5	21±1.5
NTNV	Band26	5MHz	26740	12RB#6	22.27	21.19	22±1.5	21±1.5
NTNV	Band26	5MHz	26740	12RB#13	23.00	21.83	22±1.5	21±1.5
NTNV	Band26	5MHz	26740	25RB#0	22.84	21.57	22±1.5	21±1.5
NTNV	Band26	5MHz	26765	1RB#0	23.02	21.53	22±1.5	21±1.5
NTNV	Band26	5MHz	26765	1RB#12	22.52	21.18	22±1.5	21±1.5
NTNV	Band26	5MHz	26765	1RB#24	23.38	22.10	22±1.5	21±1.5
NTNV	Band26	5MHz	26765	12RB#0	23.45	22.44	22±1.5	21±1.5
NTNV	Band26	5MHz	26765	12RB#6	22.64	21.17	22±1.5	21±1.5
NTNV	Band26	5MHz	26765	12RB#13	22.92	21.87	22±1.5	21±1.5
NTNV	Band26	5MHz	26765	25RB#0	22.48	21.39	22±1.5	21±1.5
NTNV	Band26	10MHz	26740	1RB#0	23.24	21.92	22±1.5	21±1.5
NTNV	Band26	10MHz	26740	1RB#24	23.37	22.23	22±1.5	21±1.5
NTNV	Band26	10MHz	26740	1RB#49	23.18	21.85	22±1.5	21±1.5
NTNV	Band26	10MHz	26740	25RB#0	22.28	21.28	22±1.5	21±1.5
NTNV	Band26	10MHz	26740	25RB#12	22.59	21.31	22±1.5	21±1.5
NTNV	Band26	10MHz	26740	25RB#25	22.53	21.17	22±1.5	21±1.5

NTNV	Band26	10MHz	26740	50RB#0	22.53	21.12	22±1.5	21±1.5
NTNV	Band26	15MHz	26765	1RB#0	23.04	21.74	22±1.5	21±1.5
NTNV	Band26	15MHz	26765	1RB#38	23.08	21.80	22±1.5	21±1.5
NTNV	Band26	15MHz	26765	1RB#74	22.66	21.45	22±1.5	21±1.5
NTNV	Band26	15MHz	26765	38RB#0	22.85	21.74	22±1.5	21±1.5
NTNV	Band26	15MHz	26765	38RB#18	23.28	22.08	22±1.5	21±1.5
NTNV	Band26	15MHz	26765	38RB#37	23.02	21.72	22±1.5	21±1.5
NTNV	Band26	15MHz	26765	75RB#0	22.59	21.14	22±1.5	21±1.5

Condition	Band	Channel Bandwidth	Channel	RB Configure	Result (dBm)		Tune-Up	
					QPSK	16QAM	QPSK	16QAM
NTNV	Band41	5MHz	39675	1RB#0	23.94	22.71	23±1.5	22±1.5
NTNV	Band41	5MHz	39675	1RB#12	23.20	21.70	23±1.5	22±1.5
NTNV	Band41	5MHz	39675	1RB#24	23.01	21.78	23±1.5	22±1.5
NTNV	Band41	5MHz	39675	12RB#0	23.85	22.71	23±1.5	22±1.5
NTNV	Band41	5MHz	39675	12RB#6	23.07	21.71	23±1.5	22±1.5
NTNV	Band41	5MHz	39675	12RB#13	24.35	22.91	23±1.5	22±1.5
NTNV	Band41	5MHz	39675	25RB#0	23.71	22.63	23±1.5	22±1.5
NTNV	Band41	5MHz	40147	1RB#0	23.83	22.79	23±1.5	22±1.5
NTNV	Band41	5MHz	40147	1RB#12	23.15	21.76	23±1.5	22±1.5
NTNV	Band41	5MHz	40147	1RB#24	23.23	21.73	23±1.5	22±1.5
NTNV	Band41	5MHz	40147	12RB#0	23.67	22.75	23±1.5	22±1.5
NTNV	Band41	5MHz	40147	12RB#6	23.23	21.69	23±1.5	22±1.5
NTNV	Band41	5MHz	40147	12RB#13	24.12	22.96	23±1.5	22±1.5
NTNV	Band41	5MHz	40147	25RB#0	23.88	22.74	23±1.5	22±1.5
NTNV	Band41	5MHz	40620	1RB#0	22.89	21.48	23±1.5	22±1.5
NTNV	Band41	5MHz	40620	1RB#12	23.96	22.58	23±1.5	22±1.5
NTNV	Band41	5MHz	40620	1RB#24	22.83	21.42	23±1.5	22±1.5
NTNV	Band41	5MHz	40620	12RB#0	22.59	21.20	23±1.5	22±1.5
NTNV	Band41	5MHz	40620	12RB#6	22.63	21.16	23±1.5	22±1.5
NTNV	Band41	5MHz	40620	12RB#13	23.92	22.66	23±1.5	22±1.5
NTNV	Band41	5MHz	40620	25RB#0	23.45	22.21	23±1.5	22±1.5
NTNV	Band41	5MHz	41092	1RB#0	22.77	21.41	23±1.5	22±1.5
NTNV	Band41	5MHz	41092	1RB#12	23.91	22.68	23±1.5	22±1.5
NTNV	Band41	5MHz	41092	1RB#24	22.88	21.43	23±1.5	22±1.5
NTNV	Band41	5MHz	41092	12RB#0	22.56	21.29	23±1.5	22±1.5
NTNV	Band41	5MHz	41092	12RB#6	22.69	21.46	23±1.5	22±1.5
NTNV	Band41	5MHz	41092	12RB#13	23.81	22.29	23±1.5	22±1.5
NTNV	Band41	5MHz	41092	25RB#0	23.69	22.33	23±1.5	22±1.5

NTNV	Band41	5MHz	41565	1RB#0	23.97	22.47	23±1.5	22±1.5
NTNV	Band41	5MHz	41565	1RB#12	22.90	21.41	23±1.5	22±1.5
NTNV	Band41	5MHz	41565	1RB#24	22.75	21.42	23±1.5	22±1.5
NTNV	Band41	5MHz	41565	12RB#0	23.11	21.67	23±1.5	22±1.5
NTNV	Band41	5MHz	41565	12RB#6	23.58	22.33	23±1.5	22±1.5
NTNV	Band41	5MHz	41565	12RB#13	24.01	22.96	23±1.5	22±1.5
NTNV	Band41	5MHz	41565	25RB#0	22.54	21.28	23±1.5	22±1.5
NTNV	Band41	10MHz	39700	1RB#0	23.50	22.21	23±1.5	22±1.5
NTNV	Band41	10MHz	39700	1RB#24	23.47	22.39	23±1.5	22±1.5
NTNV	Band41	10MHz	39700	1RB#49	23.22	21.84	23±1.5	22±1.5
NTNV	Band41	10MHz	39700	25RB#0	22.98	21.63	23±1.5	22±1.5
NTNV	Band41	10MHz	39700	25RB#12	22.60	21.39	23±1.5	22±1.5
NTNV	Band41	10MHz	39700	25RB#25	22.63	21.44	23±1.5	22±1.5
NTNV	Band41	10MHz	39700	50RB#0	23.26	22.01	23±1.5	22±1.5
NTNV	Band41	10MHz	40160	1RB#0	23.33	22.25	23±1.5	22±1.5
NTNV	Band41	10MHz	40160	1RB#24	23.46	22.32	23±1.5	22±1.5
NTNV	Band41	10MHz	40160	1RB#49	23.57	21.73	23±1.5	22±1.5
NTNV	Band41	10MHz	40160	25RB#0	22.34	21.55	23±1.5	22±1.5
NTNV	Band41	10MHz	40160	25RB#12	22.69	21.43	23±1.5	22±1.5
NTNV	Band41	10MHz	40160	25RB#25	22.48	21.49	23±1.5	22±1.5
NTNV	Band41	10MHz	40160	50RB#0	23.51	22.27	23±1.5	22±1.5
NTNV	Band41	10MHz	40620	1RB#0	22.65	21.18	23±1.5	22±1.5
NTNV	Band41	10MHz	40620	1RB#24	24.32	22.96	23±1.5	22±1.5
NTNV	Band41	10MHz	40620	1RB#49	23.72	22.58	23±1.5	22±1.5
NTNV	Band41	10MHz	40620	25RB#0	23.31	21.85	23±1.5	22±1.5
NTNV	Band41	10MHz	40620	25RB#12	23.29	22.10	23±1.5	22±1.5
NTNV	Band41	10MHz	40620	25RB#25	23.24	21.85	23±1.5	22±1.5
NTNV	Band41	10MHz	40620	50RB#0	24.25	22.82	23±1.5	22±1.5
NTNV	Band41	10MHz	41080	1RB#0	22.33	21.22	23±1.5	22±1.5
NTNV	Band41	10MHz	41080	1RB#24	24.19	22.68	23±1.5	22±1.5
NTNV	Band41	10MHz	41080	1RB#49	23.27	22.54	23±1.5	22±1.5
NTNV	Band41	10MHz	41080	25RB#0	23.16	21.78	23±1.5	22±1.5
NTNV	Band41	10MHz	41080	25RB#12	23.18	22.15	23±1.5	22±1.5
NTNV	Band41	10MHz	41080	25RB#25	23.17	21.81	23±1.5	22±1.5
NTNV	Band41	10MHz	41080	50RB#0	24.21	22.68	23±1.5	22±1.5
NTNV	Band41	10MHz	41540	1RB#0	24.36	23.20	23±1.5	22±1.5
NTNV	Band41	10MHz	41540	1RB#24	22.52	21.28	23±1.5	22±1.5
NTNV	Band41	10MHz	41540	1RB#49	22.65	21.32	23±1.5	22±1.5
NTNV	Band41	10MHz	41540	25RB#0	23.67	22.56	23±1.5	22±1.5
NTNV	Band41	10MHz	41540	25RB#12	23.64	22.37	23±1.5	22±1.5

NTNV	Band41	10MHz	41540	25RB#25	23.71	22.55	23±1.5	22±1.5
NTNV	Band41	10MHz	41540	50RB#0	23.90	22.42	23±1.5	22±1.5
NTNV	Band41	15MHz	39725	1RB#0	23.87	22.45	23±1.5	22±1.5
NTNV	Band41	15MHz	39725	1RB#38	23.01	21.97	23±1.5	22±1.5
NTNV	Band41	15MHz	39725	1RB#74	23.28	21.86	23±1.5	22±1.5
NTNV	Band41	15MHz	39725	38RB#0	24.33	22.85	23±1.5	22±1.5
NTNV	Band41	15MHz	39725	38RB#18	23.12	21.90	23±1.5	22±1.5
NTNV	Band41	15MHz	39725	38RB#37	23.48	22.35	23±1.5	22±1.5
NTNV	Band41	15MHz	39725	75RB#0	22.72	21.56	23±1.5	22±1.5
NTNV	Band41	15MHz	40173	1RB#0	23.56	22.40	23±1.5	22±1.5
NTNV	Band41	15MHz	40173	1RB#38	23.12	21.92	23±1.5	22±1.5
NTNV	Band41	15MHz	40173	1RB#74	23.18	21.71	23±1.5	22±1.5
NTNV	Band41	15MHz	40173	38RB#0	24.11	22.85	23±1.5	22±1.5
NTNV	Band41	15MHz	40173	38RB#18	23.19	21.68	23±1.5	22±1.5
NTNV	Band41	15MHz	40173	38RB#37	23.38	22.44	23±1.5	22±1.5
NTNV	Band41	15MHz	40173	75RB#0	22.70	21.59	23±1.5	22±1.5
NTNV	Band41	15MHz	40620	1RB#0	23.97	22.96	23±1.5	22±1.5
NTNV	Band41	15MHz	40620	1RB#38	24.19	23.14	23±1.5	22±1.5
NTNV	Band41	15MHz	40620	1RB#74	24.44	23.39	23±1.5	22±1.5
NTNV	Band41	15MHz	40620	38RB#0	23.61	22.22	23±1.5	22±1.5
NTNV	Band41	15MHz	40620	38RB#18	23.27	22.03	23±1.5	22±1.5
NTNV	Band41	15MHz	40620	38RB#37	22.57	21.34	23±1.5	22±1.5
NTNV	Band41	15MHz	40620	75RB#0	23.46	22.44	23±1.5	22±1.5
NTNV	Band41	15MHz	41093	1RB#0	23.68	22.88	23±1.5	22±1.5
NTNV	Band41	15MHz	41093	1RB#38	24.41	23.52	23±1.5	22±1.5
NTNV	Band41	15MHz	41093	1RB#74	24.28	23.57	23±1.5	22±1.5
NTNV	Band41	15MHz	41093	38RB#0	23.52	22.16	23±1.5	22±1.5
NTNV	Band41	15MHz	41093	38RB#18	23.38	22.15	23±1.5	22±1.5
NTNV	Band41	15MHz	41093	38RB#37	22.51	21.57	23±1.5	22±1.5
NTNV	Band41	15MHz	41093	75RB#0	23.15	22.66	23±1.5	22±1.5
NTNV	Band41	15MHz	41515	1RB#0	24.09	22.61	23±1.5	22±1.5
NTNV	Band41	15MHz	41515	1RB#38	23.83	22.47	23±1.5	22±1.5
NTNV	Band41	15MHz	41515	1RB#74	23.10	22.03	23±1.5	22±1.5
NTNV	Band41	15MHz	41515	38RB#0	24.25	22.90	23±1.5	22±1.5
NTNV	Band41	15MHz	41515	38RB#18	23.95	22.88	23±1.5	22±1.5
NTNV	Band41	15MHz	41515	38RB#37	22.86	21.83	23±1.5	22±1.5
NTNV	Band41	15MHz	41515	75RB#0	22.77	21.50	23±1.5	22±1.5
NTNV	Band41	20MHz	39750	1RB#0	22.61	21.61	23±1.5	22±1.5
NTNV	Band41	20MHz	39750	1RB#49	22.88	21.79	23±1.5	22±1.5
NTNV	Band41	20MHz	39750	1RB#99	22.50	21.47	23±1.5	22±1.5

NTNV	Band41	20MHz	39750	50RB#0	24.40	22.91	23±1.5	22±1.5
NTNV	Band41	20MHz	39750	50RB#25	23.23	21.95	23±1.5	22±1.5
NTNV	Band41	20MHz	39750	50RB#50	23.19	22.18	23±1.5	22±1.5
NTNV	Band41	20MHz	39750	100RB#0	22.90	21.66	23±1.5	22±1.5
NTNV	Band41	20MHz	40185	1RB#0	22.76	21.62	23±1.5	22±1.5
NTNV	Band41	20MHz	40185	1RB#49	22.52	21.30	23±1.5	22±1.5
NTNV	Band41	20MHz	40185	1RB#99	23.04	21.87	23±1.5	22±1.5
NTNV	Band41	20MHz	40185	50RB#0	23.11	22.11	23±1.5	22±1.5
NTNV	Band41	20MHz	40185	50RB#25	24.26	23.17	23±1.5	22±1.5
NTNV	Band41	20MHz	40185	50RB#50	22.76	21.55	23±1.5	22±1.5
NTNV	Band41	20MHz	40185	100RB#0	23.79	22.35	23±1.5	22±1.5
NTNV	Band41	20MHz	40620	1RB#0	22.95	21.65	23±1.5	22±1.5
NTNV	Band41	20MHz	40620	1RB#49	22.67	21.34	23±1.5	22±1.5
NTNV	Band41	20MHz	40620	1RB#99	23.23	21.93	23±1.5	22±1.5
NTNV	Band41	20MHz	40620	50RB#0	23.29	22.02	23±1.5	22±1.5
NTNV	Band41	20MHz	40620	50RB#25	24.41	23.21	23±1.5	22±1.5
NTNV	Band41	20MHz	40620	50RB#50	22.94	21.61	23±1.5	22±1.5
NTNV	Band41	20MHz	40620	100RB#0	23.84	22.44	23±1.5	22±1.5
NTNV	Band41	20MHz	41055	1RB#0	22.83	21.57	23±1.5	22±1.5
NTNV	Band41	20MHz	41055	1RB#49	22.55	21.22	23±1.5	22±1.5
NTNV	Band41	20MHz	41055	1RB#99	23.16	21.76	23±1.5	22±1.5
NTNV	Band41	20MHz	41055	50RB#0	23.24	22.05	23±1.5	22±1.5
NTNV	Band41	20MHz	41055	50RB#25	24.33	23.19	23±1.5	22±1.5
NTNV	Band41	20MHz	41055	50RB#50	22.92	21.53	23±1.5	22±1.5
NTNV	Band41	20MHz	41055	100RB#0	23.86	22.39	23±1.5	22±1.5
NTNV	Band41	20MHz	41490	1RB#0	22.86	21.44	23±1.5	22±1.5
NTNV	Band41	20MHz	41490	1RB#49	23.02	21.75	23±1.5	22±1.5
NTNV	Band41	20MHz	41490	1RB#99	24.03	22.60	23±1.5	22±1.5
NTNV	Band41	20MHz	41490	50RB#0	23.31	22.15	23±1.5	22±1.5
NTNV	Band41	20MHz	41490	50RB#25	22.86	21.48	23±1.5	22±1.5
NTNV	Band41	20MHz	41490	50RB#50	23.80	22.51	23±1.5	22±1.5
NTNV	Band41	20MHz	41490	100RB#0	23.27	22.13	23±1.5	22±1.5

<WLAN 2.4GHz Conducted Power>

Mode	Channel	Frequency (MHz)	Conducted Output Power(dBm)	Tune-up power(dBm)
802.11b	1	2412	19.70	21.00
	6	2437	20.18	21.00
	11	2462	19.73	21.00
802.11g	1	2412	23.03	24.00
	6	2437	23.39	24.00
	11	2462	22.95	24.00
802.11n(HT20)	1	2412	22.83	24.00
	6	2437	23.33	24.00
	11	2462	22.88	24.00
802.11n(HT40)	3	2422	23.86	25.00
	6	2437	**24.40**	25.00
	9	2452	24.18	25.00

<WLAN 5GHz Conducted Power>

Band 1:

Mode	Channel Frequency (MHz)	Average Power output (dBm)	Tune-up power(dBm)
802.11a	5180	15.32	16.00
	5200	15.29	16.00
	5240	14.93	16.00
802.11n (HT20)	5180	15.28	16.00
	5200	15.26	16.00
	5240	14.64	16.00
802.11ac (HT20)	5180	15.26	16.00
	5200	15.19	16.00
	5240	14.78	16.00
802.11n (HT40)	5190	16.07	17.00
	5230	15.82	17.00
802.11ac (HT40)	5190	**16.11**	17.00
	5230	15.87	17.00
802.11ac (HT80)	5210	15.73	17.00

Band 2:

Mode	Channel Frequency (MHz)	Average Power output (dBm)	**Tune-up power(dBm)**
802.11a	5260	14.74	16.00
	5280	14.75	16.00
	5320	**15.12**	16.00
802.11n (HT20)	5240	14.64	16.00
	5260	14.57	16.00
	5280	14.53	16.00
802.11ac (HT20)	5260	14.03	16.00
	5280	14.09	16.00
	5320	14.35	16.00
802.11n (HT40)	5270	14.86	16.00
	5310	14.95	16.00
802.11ac (HT40)	5270	14.81	16.00
	5310	14.85	16.00
802.11ac (HT80)	5290	15.12	16.00

Band 3:

Mode	Channel Frequency (MHz)	Average Power output (dBm)	**Tune-up power(dBm)**
802.11a	5500	14.89	16.00
	5580	14.48	16.00
	5700	15.66	16.00
802.11n (HT20)	5500	14.71	16.00
	5580	14.25	16.00
	5700	15.34	16.00
802.11ac (HT20)	5500	14.58	16.00
	5580	14.12	16.00
	5700	15.35	16.00
802.11n (HT40)	5510	15.54	16.50
	5550	15.40	16.50
	5670	16.04	16.50
802.11ac (HT40)	5510	15.51	16.50
	5550	15.31	16.50
	5670	**16.13**	16.50

802.11ac (HT80)	5530	15.10	16.00
	5610	14.58	16.00

Band 4:

Mode	Channel Frequency (MHz)	Average Power output (dBm)	**Tune-up power(dBm)**
802.11a	5745	15.80	16.00
	5785	15.84	16.00
	5825	15.10	16.00
802.11n (HT20)	5745	15.62	16.00
	5785	15.60	16.00
	5825	14.83	16.00
802.11ac (HT20)	5745	15.68	16.00
	5785	15.64	16.00
	5825	14.87	16.00
802.11n (HT40)	5755	16.51	17.00
	5795	16.26	17.00
802.11ac (HT40)	5755	**16.61**	17.00
	5795	16.27	17.00
802.11ac (HT80)	5775	16.30	17.00

Note:

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

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

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

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

The result is rounded to one decimal place for comparison

Mode	Frequency (GHz)	Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
802.11 n (HT40)	2437	25.0	44.67	10	6.973	3.0
802.11ac40	5230	13.0	19.95	10	4.562	3.0
802.11ac40	5755	12.6	18.20	10	4.366	3.0

2. Base on the result of note1, RF exposure evaluation of 2.4G/5.2G/5.8G 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.

DSSS SAR value*（OFDM power/DSSS power）=0.246 W/kg *(63.096 mW/41.687 mW)=0.425 W/kg≤ 1.2 W/kg, so the ratio of OFDMis not requiredRF exposure evaluation

<Bluetooth Conducted Power>

Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power(dBm)
BT BDR (GFSK)	00	2402	2.98	3.00
	39	2441	4.52	4.00
	78	2480	4.13	4.00
BT EDR (Π/4DQPSK)	00	2402	7.36	9.00
	39	2441	8.75	9.00
	78	2480	8.26	9.00
BT EDR (8DPSK)	00	2402	7.61	9.00
	39	2441	**8.98**	9.00
	78	2480	8.53	9.00
BT BLE (GFSK)	00	2402	6.91	7.00
	19	2440	8.29	9.00
	39	2480	7.88	9.00

Note:

Per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

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

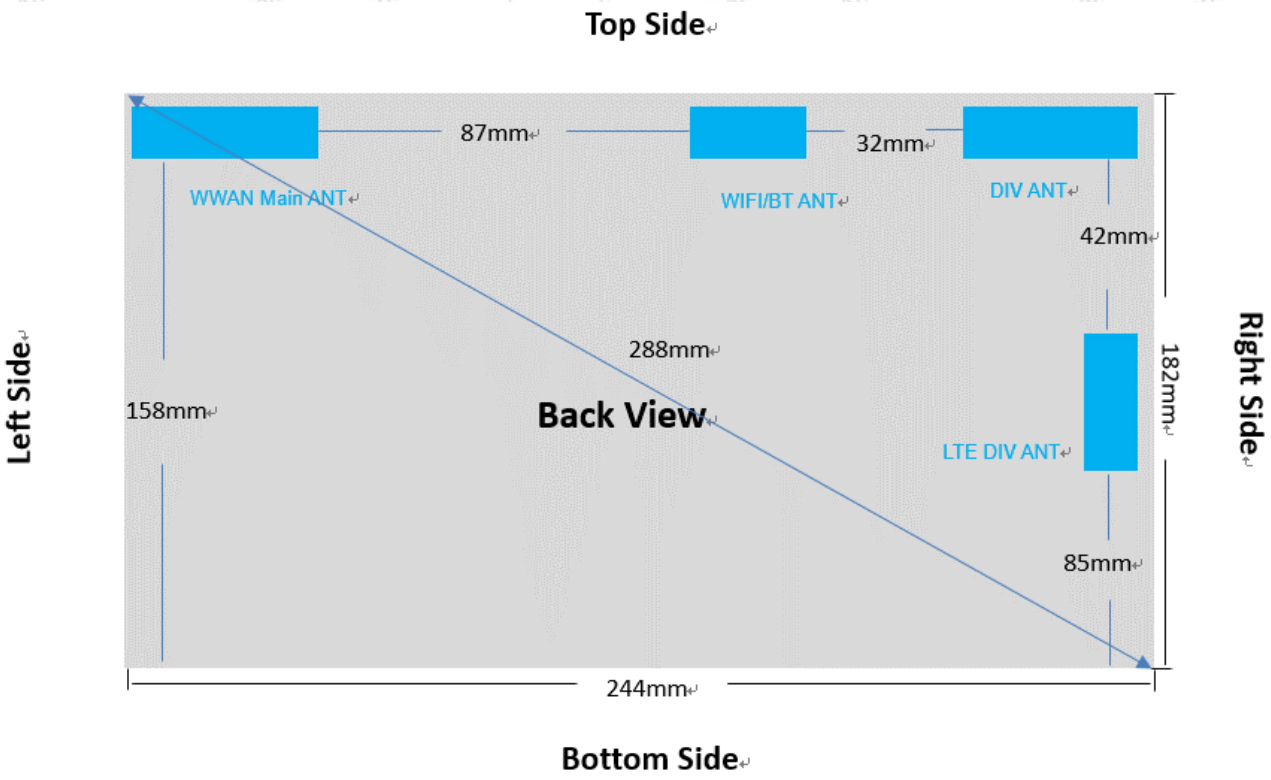
Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds
9.00	5	2.441	2.48

Per KDB 447498 D01, when the minimum test separation distance is <10 mm, a distance of 10 mm is applied to determine SAR test exclusion. The test exclusion threshold is 2.48 which is<= 3, SAR testing is not required.

11. Antenna Location



EUT BACK VIEW

Distance of The Antenna to the EUT surface and edge						
Antennas	**Front**	**Back**	**Top Side**	**Bottom Side**	**Left Side**	**Right Side**
BT&WLAN	<25mm	<25mm	<25mm	>25mm	>25mm	>25mm
WWAN	<25mm	<25mm	<25mm	>25mm	<25mm	>25mm

Positions for SAR tests; Hotspot mode						
Antennas	**Front**	**Back**	**Top Side**	**Bottom Side**	**Left Side**	**Right Side**
BT&WLAN	Yes	Yes	Yes	No	No	No
WWAN	Yes	Yes	Yes	No	Yes	No

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≤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 ≤ 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 ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 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 ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 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 ≥0.8W/Kg; if the deviation among the repeated measurement is ≤20%,and the measured SAR <1.45W/Kg, only one repeated measurement is required.

9.When the user enables the personal Wireless router functions for the handsets, actual operationsinclude simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot beevaluated 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 transmissionfrequency RF signal.

12.1. Body–worn and Hotspot 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)
	GSM850	GPRS(3 Tx slots)	Front	0	128	824.2	26.09	26.50	1.099	0.08	0.358	0.393
#1	GSM850	GPRS(3 Tx slots)	Back	0	128	824.2	26.09	26.50	1.099	0.10	0.581	**0.639**
	GSM850	GPRS(3 Tx slots)	Left Side	0	128	824.2	26.09	26.50	1.099	0.03	0.312	0.343
	GSM850	GPRS(3 Tx slots)	Right Side	0	128	824.2	N/A	N/A	N/A	N/A	N/A	N/A
	GSM850	GPRS(3 Tx slots)	Top Side	0	128	824.2	26.09	26.50	1.099	0.33	0.536	0.589
	GSM850	GPRS(3 Tx slots)	Bottom Side	0	128	824.2	N/A	N/A	N/A	N/A	N/A	N/A
	PCS1900	GPRS(3 Tx slots)	Front	0	512	1850.2	24.41	24.5	1.021	-0.01	0.313	0.320
#2	PCS1900	GPRS(3 Tx slots)	Back	0	512	1850.2	24.41	24.5	1.021	0.05	0.515	**0.526**
	PCS1900	GPRS(3 Tx slots)	Left Side	0	512	1850.2	24.41	24.5	1.021	-0.12	0.334	0.341
	PCS1900	GPRS(3 Tx slots)	Right Side	0	512	1850.2	N/A	N/A	N/A	N/A	N/A	N/A
	PCS1900	GPRS(3 Tx slots)	Top Side	0	512	1850.2	24.41	24.5	1.021	-0.07	0.465	0.475
	PCS1900	GPRS(3 Tx slots)	Bottom Side	0	512	1850.2	N/A	N/A	N/A	N/A	N/A	N/A

<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	Front	0	9538	1907.6	24.73	25.00	1.064	-0.05	0.311	0.331
#3	WCDMA Band II	RMC 12.2K	Back	0	9538	1907.6	24.73	25.00	1.064	0.08	0.536	**0.570**
	WCDMA Band II	RMC 12.2K	Left Side	0	9538	1907.6	24.73	25.00	1.064	0.10	0.286	0.304
	WCDMA Band II	RMC 12.2K	Right Side	0	9538	1907.6	N/A	N/A	N/A	N/A	N/A	N/A
	WCDMA Band II	RMC 12.2K	Top Side	0	9538	1907.6	24.73	25.00	1.064	0.11	0.473	0.503
	WCDMA Band II	RMC 12.2K	Bottom Side	0	9538	1907.6	N/A	N/A	N/A	N/A	N/A	N/A
	WCDMA Band V	RMC 12.2K	Front	0	4183	836.6	23.84	23.9	1.003	-0.10	0.277	0.314
#4	WCDMA Band V	RMC 12.2K	Back	0	4183	836.6	24.46	25.00	1.132	-0.06	0.548	**0.621**
	WCDMA Band V	RMC 12.2K	Left Side	0	4183	836.6	24.46	25.00	1.132	0.18	0.263	0.298
	WCDMA Band V	RMC 12.2K	Right Side	0	4183	836.6	N/A	N/A	N/A	N/A	N/A	N/A
	WCDMA Band V	RMC 12.2K	Top Side	0	4183	836.6	24.46	25.00	1.132	0.15	0.502	0.568
	WCDMA Band V	RMC 12.2K	Bottom Side	0	4183	836.6	N/A	N/A	N/A	N/A	N/A	N/A
	WCDMA Band IV	RMC 12.2K	Front	0	1412	1732.4	24.76	25.00	1.057	0.06	0.344	0.364
#5	WCDMA Band IV	RMC 12.2K	Back	0	1412	1732.4	24.76	25.00	1.057	0.12	0.514	**0.543**
	WCDMA Band IV	RMC 12.2K	Left Side	0	1412	1732.4	24.76	25.00	1.057	-0.08	0.321	0.339
	WCDMA Band IV	RMC 12.2K	Right Side	0	1412	1732.4	N/A	N/A	N/A	N/A	N/A	N/A
	WCDMA Band IV	RMC 12.2K	Top Side	0	1412	1732.4	24.76	25.00	1.057	-0.10	0.486	0.514

	WCDMA Band IV	RMC 12.2K	Bottom Side	0	1412	1732.4	N/A	N/A	N/A	N/A	N/A	N/A

<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	Front	0	18700	1860	24.43	24.5	1.016	0.05	0.392	0.398
	LTE Band 2	20MHz/50RB	Front	0	18700	1860	23.12	24.5	1.374	0.11	0.217	0.298
#6	LTE Band 2	20MHz/1RB	Back	0	18700	1860	24.43	24.5	1.016	0.13	0.626	**0.636**
	LTE Band 2	20MHz/50RB	Back	0	18700	1860	23.12	24.5	1.374	0.07	0.423	0.581
	LTE Band 2	20MHz/1RB	Left Side	0	18700	1860	24.43	24.5	1.016	0.08	0.263	0.267
	LTE Band 2	20MHz/50RB	Left Side	0	18700	1860	23.12	24.5	1.374	0.06	0.155	0.213
	LTE Band 2	20MHz/1RB	Right Side	0	19100	1900	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 2	20MHz/50RB	Right Side	0	19100	1900	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 2	20MHz/1RB	Top Side	0	18700	1860	24.43	24.5	1.016	0.10	0.516	0.524
	LTE Band 2	20MHz/50RB	Top Side	0	18700	1860	23.12	24.5	1.374	0.10	0.348	0.478
	LTE Band 2	20MHz/1RB	Bottom Side	0	19100	1900	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 2	20MHz/50RB	Bottom Side	0	19100	1900	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 4	20MHz/1RB	Front	0	20175	1732.5	24.02	24.5	1.117	0.16	0.353	0.353
	LTE Band 4	20MHz/50RB	Front	0	20175	1732.5	23.69	24.5	1.205	0.15	0.311	0.311
#7	LTE Band 4	20MHz/1RB	Back	0	20175	1732.5	24.02	24.5	1.117	-0.06	0.571	**0.638**
	LTE Band 4	20MHz/50RB	Back	0	20175	1732.5	23.69	24.5	1.205	0.10	0.472	0.569
	LTE Band 4	20MHz/1RB	Left Side	0	20175	1732.5	24.02	24.5	1.117	0.09	0.284	0.317
	LTE Band 4	20MHz/50RB	Left Side	0	20175	1732.5	23.69	24.5	1.205	0.15	0.228	0.275
	LTE Band 4	20MHz/1RB	Right Side	0	20175	1732.5	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 4	20MHz/50RB	Right Side	0	20175	1732.5	N/A	N/A	N/A	N/A	N/A	N/A

	LTE Band 4	20MHz/1RB	Top Side	0	20175	1732.5	24.02	24.5	1.117	0.06	0.480	0.536
	LTE Band 4	20MHz/50RB	Top Side	0	20175	1732.5	23.69	24.5	1.205	0.07	0.432	0.521
	LTE Band 4	20MHz/1RB	Bottom Side	0	20175	1732.5	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 4	20MHz/50RB	Bottom Side	0	20175	1732.5	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 5	10MHz/1RB	Front	0	20600	844	23.31	23.5	1.045	0.15	0.291	0.304
	LTE Band 5	10MHz/50RB	Front	0	20600	844	23.40	23.5	1.023	0.12	0.255	0.261
#8	LTE Band 5	10MHz/1RB	Back	0	20600	844	23.31	23.5	1.045	0.08	0.483	**0.505**
	LTE Band 5	10MHz/50RB	Back	0	20600	844	23.40	23.5	1.023	0.11	0.463	0.474
	LTE Band 5	10MHz/1RB	Left Side	0	20600	844	23.31	23.5	1.045	0.06	0.235	0.246
	LTE Band 5	10MHz/50RB	Left Side	0	20600	844	23.40	23.5	1.023	0.04	0.233	0.238
	LTE Band 5	10MHz/1RB	Right Side	0	20600	844	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 5	10MHz/50RB	Right Side	0	20600	844	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 5	10MHz/1RB	Top Side	0	20600	844	23.31	23.5	1.045	0.06	0.444	0.464
	LTE Band 5	10MHz/50RB	Top Side	0	20600	844	23.40	23.5	1.023	0.03	0.417	0.427
	LTE Band 5	10MHz/1RB	Bottom Side	0	20600	844	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 5	10MHz/50RB	Bottom Side	0	20600	844	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 7	20MHz/1RB	Front	0	21100	2535	24.29	24.5	1.050	0.15	0.285	0.299
	LTE Band 7	20MHz/50RB	Front	0	21100	2535	23.54	24.5	1.247	0.16	0.231	0.288
#9	LTE Band 7	20MHz/1RB	Back	0	21100	2535	24.29	24.5	1.050	0.12	0.645	**0.677**
	LTE Band 7	20MHz/50RB	Back	0	21100	2535	23.54	24.5	1.247	0.11	0.539	0.672
	LTE Band 7	20MHz/1RB	Left Side	0	21100	2535	24.29	24.5	1.050	0.06	0.371	0.389
	LTE Band 7	20MHz/50RB	Left Side	0	21100	2535	23.54	24.5	1.247	0.08	0.265	0.331
	LTE Band 7	20MHz/1RB	Right Side	0	21100	2535	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 7	20MHz/50RB	Right Side	0	21100	2535	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 7	20MHz/1RB	Top Side	0	21100	2535	24.29	24.5	1.050	0.05	0.596	0.626
	LTE Band 7	20MHz/50RB	Top Side	0	21100	2535	23.54	24.5	1.247	0.06	0.471	0.588
	LTE Band 7	20MHz/1RB	Bottom Side	0	21100	2535	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 7	20MHz/50RB	Bottom Side	0	21100	2535	N/A	N/A	N/A	N/A	N/A	N/A

	LTE Band 12	10MHz/1RB	Front	0	23130	711	24.37	24.5	1.030	0.10	0.279	0.287
	LTE Band 12	10MHz/50RB	Front	0	23130	711	23.29	24.5	1.321	0.12	0.203	0.268
#10	LTE Band 12	10MHz/1RB	Back	0	23130	711	24.37	24.5	1.030	0.08	0.552	**0.569**
	LTE Band 12	10MHz/50RB	Back	0	23130	711	23.29	24.5	1.321	0.06	0.413	0.546
	LTE Band 12	10MHz/1RB	Left Side	0	23130	711	24.37	24.5	1.030	-0.10	0.193	0.199
	LTE Band 12	10MHz/50RB	Left Side	0	23130	711	23.29	24.5	1.321	-0.06	0.122	0.161
	LTE Band 12	10MHz/1RB	Right Side	0	23130	711	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 12	10MHz/50RB	Right Side	0	23130	711	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 12	10MHz/1RB	Top Side	0	23130	711	24.37	24.5	1.030	23130	0.476	0.490
	LTE Band 12	10MHz/50RB	Top Side	0	23130	711	23.29	24.5	1.321	23130	0.364	0.481
	LTE Band 12	10MHz/1RB	Bottom Side	0	23130	711	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 12	10MHz/50RB	Bottom Side	0	23130	711	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 13	10MHz/1RB	Front	0	23230	782	23.07	23.5	1.104	0.12	0.267	0.295
	LTE Band 13	10MHz/50RB	Front	0	23230	782	23.06	23.5	1.107	-0.06	0.251	0.278
#11	LTE Band 13	10MHz/1RB	Back	0	23230	782	23.07	23.5	1.104	0.06	0.596	**0.658**
	LTE Band 13	10MHz/50RB	Back	0	23230	782	23.06	23.5	1.107	0.09	0.570	0.631
	LTE Band 13	10MHz/1RB	Left Side	0	23230	782	23.07	23.5	1.104	-0.13	0.233	0.257
	LTE Band 13	10MHz/50RB	Left Side	0	23230	782	23.06	23.5	1.107	-0.10	0.215	0.238
	LTE Band 13	10MHz/1RB	Right Side	0	23230	782	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 13	10MHz/50RB	Right Side	0	23230	782	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 13	10MHz/1RB	Top Side	0	23230	782	23.07	23.5	1.104	0.17	0.537	0.593
	LTE Band 13	10MHz/50RB	Top Side	0	23230	782	23.06	23.5	1.107	0.13	0.513	0.568
	LTE Band 13	10MHz/1RB	Bottom Side	0	23230	782	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 13	10MHz/50RB	Bottom Side	0	23230	782	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 17	10MHz/1RB	Front	0	23790	710	24.32	24.5	1.042	0.12	0.258	0.269
	LTE Band 17	10MHz/50RB	Front	0	23790	710	23.98	24.5	1.127	0.11	0.210	0.237
#12	LTE Band 17	10MHz/1RB	Back	0	23790	710	24.32	24.5	1.042	0.15	0.463	**0.483**
	LTE Band 17	10MHz/50RB	Back	0	23790	710	23.98	24.5	1.127	0.08	0.412	0.464
	LTE Band 17	10MHz/1RB	Left Side	0	23790	710	24.32	24.5	1.042	-0.04	0.166	0.173
	LTE Band 17	10MHz/50RB	Left Side	0	23790	710	23.98	24.5	1.127	-0.08	0.128	0.144
	LTE Band 17	10MHz/1RB	Right Side	0	23790	710	N/A	N/A	N/A	N/A	N/A	N/A

	LTE Band 17	10MHz/50RB	Right Side	0	23790	710	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 17	10MHz/1RB	Top Side	0	23790	710	24.32	24.5	1.042	23790	0.377	0.393
	LTE Band 17	10MHz/50RB	Top Side	0	23790	710	23.98	24.5	1.127	23790	0.342	0.386
	LTE Band 17	10MHz/1RB	Bottom Side	0	23790	710	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 17	10MHz/50RB	Bottom Side	0	23790	710	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 26	20MHz/1RB	Front	0	26765	821.5	23.08	23.5	1.102	0.12	0.279	0.307
	LTE Band 26	20MHz/50RB	Front	0	26765	821.5	23.28	23.5	1.052	0.11	0.289	0.304
#13	LTE Band 26	20MHz/1RB	Back	0	26765	821.5	23.08	23.5	1.102	0.08	0.548	**0.604**
	LTE Band 26	20MHz/50RB	Back	0	26765	821.5	23.28	23.5	1.052	0.02	0.556	0.585
	LTE Band 26	20MHz/1RB	Left Side	0	26765	821.5	23.08	23.5	1.102	0.06	0.283	0.312
	LTE Band 26	20MHz/50RB	Left Side	0	26765	821.5	23.28	23.5	1.052	0.08	0.291	0.306
	LTE Band 26	20MHz/1RB	Right Side	0	26765	821.5	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 26	20MHz/50RB	Right Side	0	26765	821.5	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 26	20MHz/1RB	Top Side	0	26765	821.5	23.08	23.5	1.102	0.09	0.475	0.523
	LTE Band 26	20MHz/50RB	Top Side	0	26765	821.5	23.28	23.5	1.052	0.08	0.486	0.511
	LTE Band 26	20MHz/1RB	Bottom Side	0	26765	821.5	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 26	20MHz/50RB	Bottom Side	0	26765	821.5	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 41	20MHz/1RB	Front	0	41490	2680	24.03	24.5	1.114	0.10	0.292	0.325
	LTE Band 41	20MHz/50RB	Front	0	41490	2680	23.80	24.5	1.175	0.15	0.254	0.298
#14	LTE Band 41	20MHz/1RB	Back	0	41490	2680	24.03	24.5	1.114	-0.08	0.505	**0.563**
	LTE Band 41	20MHz/50RB	Back	0	41490	2680	23.80	24.5	1.175	0.02	0.446	0.524
	LTE Band 41	20MHz/1RB	Left Side	0	41490	2680	24.03	24.5	1.114	0.06	0.245	0.273
	LTE Band 41	20MHz/50RB	Left Side	0	41490	2680	23.80	24.5	1.175	0.12	0.202	0.237
	LTE Band 41	20MHz/1RB	Right Side	0	41490	2680	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 41	20MHz/50RB	Right Side	0	41490	2680	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 41	20MHz/1RB	Top Side	0	41490	2680	24.03	24.5	1.114	0.07	0.439	0.489
	LTE Band 41	20MHz/50RB	Top Side	0	41490	2680	23.80	24.5	1.175	0.08	0.386	0.454
	LTE Band 41	20MHz/1RB	Bottom Side	0	41490	2680	N/A	N/A	N/A	N/A	N/A	N/A
	LTE Band 41	20MHz/50RB	Bottom Side	0	41490	2680	N/A	N/A	N/A	N/A	N/A	N/A

<WIFI 2.4GHz>

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	802.11n (HT40)	Front	0	6	2437	24.40	25.0	1.148	0.07	0.302	0.347
#15	WIFI2.4GHz	802.11n (HT40)	Back	0	6	2437	24.40	25.0	1.148	-0.03	0.475	**0.545**
	WIFI2.4GHz	802.11n (HT40)	Left Side	0	6	2437	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI2.4GHz	802.11n (HT40)	Right Side	0	6	2437	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI2.4GHz	802.11n (HT40)	Top Side	0	6	2437	24.40	25.0	1.148	0.10	0.417	0.479
	WIFI2.4GHz	802.11n (HT40)	Bottom Side	0	6	2437	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.2GHz	802.11 ac(HT40)	Front	0	38	5190	16.11	16.5	1.094	0.09	0.058	0.063
#16	WIFI5.2GHz	802.11 ac(HT40)	Back	0	38	5190	16.11	16.5	1.094	-0.05	0.093	**0.102**
	WIFI5.2GHz	802.11 ac(HT40)	Left Side	0	38	5190	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.2GHz	802.11 ac(HT40)	Right Side	0	38	5190	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.2GHz	802.11 ac(HT40)	Top Side	0	38	5190	16.11	16.5	1.094	0.08	0.082	0.090
	WIFI5.2GHz	802.11 ac(HT40)	Bottom Side	0	38	5190	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.3GHz	802.11a	Front	0	64	5320	15.12	16.0	1.225	0.08	0.043	0.053
#17	WIFI5.3GHz	802.11a	Back	0	64	5320	15.12	16.0	1.225	0.05	0.076	**0.093**
	WIFI5.3GHz	802.11a	Left Side	0	64	5320	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.3GHz	802.11a	Right Side	0	64	5320	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.3GHz	802.11a	Top Side	0	64	5320	15.12	16.0	1.225	0.11	0.069	0.084
	WIFI5.3GHz	802.11a	Bottom Side	0	64	5320	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.6GHz	802.11 ac(HT40)	Front	0	134	5670	16.13	16.5	1.089	0.16	0.078	0.085
#18	WIFI5.6GHz	802.11 ac(HT40)	Back	0	134	5670	16.13	16.5	1.089	0.07	0.139	**0.151**

	WIFI5.6GHz	802.11 ac(HT40)	Left Side	0	134	5670	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.6GHz	802.11 ac(HT40)	Right Side	0	134	5670	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.6GHz	802.11 ac(HT40)	Top Side	0	134	5670	16.13	16.5	1.089	0.05	0.115	0.125
	WIFI5.6GHz	802.11 ac(HT40)	Bottom Side	0	134	5670	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.8GHz	802.11 ac(HT40)	Front	0	151	5755	16.61	17.0	1.094	0.12	0.106	0.116
#19	WIFI5.8GHz	802.11 ac(HT40)	Back	0	151	5755	16.61	17.0	1.094	0.07	0.177	**0.194**
	WIFI5.8GHz	802.11 ac(HT40)	Left Side	0	151	5755	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.8GHz	802.11 ac(HT40)	Right Side	0	151	5755	N/A	N/A	N/A	N/A	N/A	N/A
	WIFI5.8GHz	802.11 ac(HT40)	Top Side	0	151	5755	16.61	17.0	1.094	0.17	0.142	0.155
	WIFI5.8GHz	802.11 ac(HT40)	Bottom Side	0	151	5755	N/A	N/A	N/A	N/A	N/A	N/A

Note:

1. Per KDB 865664 D01V01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is≥0.8W/Kg.
2. Per KDB 865664 D01V01,if the ratio of largest to smallest SAR for the original and first repeated measurement is≤1.2and the measured SAR＜1.45W/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 ≥ 1.45W/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 2.4G
2.	WCDMA+WIFI 2.4G
3.	LTE+WIFI2.4G
4.	GSM+BT
5.	WCDMA+ BT
6.	LTE+BT
7.	GSM+WIFI 5G
8.	WCDMA+ WIFI 5G
9.	LTE+WIFI 5G

Note:

1. WIFI 2.4GHz, WIFI 5GHz and Bluetoothshare the same antenna, and can not transmit simultaneously.
2. EUT will choose either GSM/WCDMA/ LTE according to the network signal condition; therefore, GSM/WCDMA / LTE cannot transmit simultaneously.

Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v05r02, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v05r02 4.3.2.2), the following equation must be used to estimate the standalone 1g SAR and 10g extremity SAR for simultaneous transmission assessment involving that transmitter.

$$\text{Estimated SAR} = \frac{\sqrt{f(GHz)}}{7.5(18.75)} \cdot \frac{\text{Max. power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

Mode	Max. tune-up Power (dBm)	Exposure Position	Body -worn
		Test Distance (mm)	0
BT	9.0	Estimated SAR (W/kg)	0.166

Note:

1. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according is applied to determine estimated SAR.
2. (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm; where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

Next to the mouth exposure requires 1-g SAR, and the wrist-worn condition requires 10-g extremity SAR.

Evaluation of Simultaneous SAR

<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	0.347	0.393	0.320	0.740	1.6	N/A
Back	**0.545**	**0.639**	**0.526**	**1.184**	1.6	N/A
Left Side	N/A	0.343	0.341	0.343	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.479	0.589	0.475	1.068	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	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
Front	0.347	0.331	0.364	0.314	0.711	1.6	N/A
Back	**0.545**	**0.570**	**0.543**	**0.621**	**1.166**	1.6	N/A
Left Side	N/A	0.304	0.339	0.298	0.339	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.479	0.503	0.514	0.568	1.047	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	N/A	1.6	N/A

<LTE+2.4GWiFi >

Test Position	WiFi SAR_{1-g} (W/Kg)	LTE BAND 2_{1-g} (W/Kg)	LTE BAND 4_{1-g} (W/Kg)	LTE BAND 5_{1-g} (W/Kg)	LTE BAND 7_{1-g} (W/Kg)	LTE BAND 12_{1-g} (W/Kg)	MAX. ΣSAR_{1-g} (W/Kg)	SAR_{1-g} Limit (W/Kg)	Simut. Meas. Required
Front	0.347	0.398	0.353	0.304	0.299	0.287	0.745	1.6	N/A
Back	**0.545**	**0.636**	**0.638**	**0.505**	**0.677**	**0.569**	**1.222**	1.6	N/A
Left Side	N/A	0.267	0.317	0.246	0.389	0.199	0.389	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.479	0.524	0.536	0.464	0.626	0.490	1.105	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A

Test Position	WiFi SAR_{1-g} (W/Kg)	LTE BAND 13_{1-g} (W/Kg)	LTE BAND 17_{1-g} (W/Kg)	LTE BAND 26_{1-g} (W/Kg)	LTE BAND 41_{1-g} (W/Kg)	MAX. ΣSAR_{1-g} (W/Kg)	SAR_{1-g} Limit (W/Kg)	Simut. Meas. Required
Front	0.347	0.295	0.269	0.307	0.325	0.672	1.6	N/A
Back	**0.545**	**0.658**	**0.483**	**0.604**	**0.563**	**1.203**	1.6	N/A
Left Side	N/A	0.257	0.173	0.312	0.273	0.312	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.479	0.593	0.393	0.523	0.489	1.072	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A

<GSM+BT>

Test Position	BT 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	0.166	0.393	0.320	0.559	1.6	N/A
Back	**0.166**	**0.639**	**0.526**	**0.805**	1.6	N/A
Left Side	N/A	0.343	0.341	0.343	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.166	0.589	0.475	0.755	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	1.6	N/A

<WCDMA+BT >

Test Position	BT 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
Front	0.166	0.331	0.364	0.314	0.530	1.6	N/A
Back	**0.166**	**0.570**	**0.543**	**0.621**	**0.787**	1.6	N/A
Left Side	N/A	0.304	0.339	0.298	0.339	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.166	0.503	0.514	0.568	0.734	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	N/A	1.6	N/A

<LTE+BT >

Test Position	WiFi SAR_{1-g} (W/Kg)	LTE BAND 2_{1-g} (W/Kg)	LTE BAND 4_{1-g} (W/Kg)	LTE BAND 5_{1-g} (W/Kg)	LTE BAND 7_{1-g} (W/Kg)	LTE BAND 12_{1-g} (W/Kg)	MAX. ΣSAR_{1-g} (W/Kg)	SAR_{1-g} Limit (W/Kg)	Simut. Meas. Required
Front	0.166	0.398	0.353	0.304	0.299	0.287	0.564	1.6	N/A
Back	**0.166**	**0.636**	**0.638**	**0.505**	**0.677**	**0.569**	**0.843**	1.6	N/A
Left Side	N/A	0.267	0.317	0.246	0.389	0.199	0.389	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.166	0.524	0.536	0.464	0.626	0.490	0.792	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A

Test Position	WiFi SAR_{1-g} (W/Kg)	LTE BAND 13_{1-g} (W/Kg)	LTE BAND 17_{1-g} (W/Kg)	LTE BAND 26_{1-g} (W/Kg)	LTE BAND 41_{1-g} (W/Kg)	MAX. ΣSAR_{1-g} (W/Kg)	SAR_{1-g} Limit (W/Kg)	Simut. Meas. Required
Front	0.166	0.295	0.269	0.307	0.325	0.491	1.6	N/A
Back	**0.166**	**0.658**	**0.483**	**0.604**	**0.563**	**0.824**	1.6	N/A
Left Side	N/A	0.257	0.173	0.312	0.273	0.312	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.166	0.593	0.393	0.523	0.489	0.759	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A

<GSM+5GWiFi>

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	0.116	0.393	0.320	0.509	1.6	N/A
Back	**0.194**	**0.639**	**0.526**	**0.833**	1.6	N/A
Left Side	N/A	0.343	0.341	0.343	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.155	0.589	0.475	0.744	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	1.6	N/A

<WCDMA+5GWiFi >

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
Front	0.116	0.331	0.364	0.314	0.480	1.6	N/A
Back	**0.194**	**0.570**	**0.543**	**0.621**	**0.815**	1.6	N/A
Left Side	N/A	0.304	0.339	0.298	0.339	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.155	0.503	0.514	0.568	0.723	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	N/A	1.6	N/A

<LTE+5GWiFi >

Test Position	WiFi SAR_{1-g} (W/Kg)	LTE BAND 2_{1-g} (W/Kg)	LTE BAND 4_{1-g} (W/Kg)	LTE BAND 5_{1-g} (W/Kg)	LTE BAND 7_{1-g} (W/Kg)	LTE BAND 12_{1-g} (W/Kg)	MAX. ΣSAR_{1-g} (W/Kg)	SAR_{1-g} Limit (W/Kg)	Simut. Meas. Required
Front	0.116	0.398	0.353	0.304	0.299	0.287	0.514	1.6	N/A
Back	**0.194**	**0.636**	**0.638**	**0.505**	**0.677**	**0.569**	**0.871**	1.6	N/A
Left Side	N/A	0.267	0.317	0.246	0.389	0.199	0.389	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.155	0.524	0.536	0.464	0.626	0.490	0.781	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A

Test Position	WiFi SAR_{1-g} (W/Kg)	LTE BAND 13_{1-g} (W/Kg)	LTE BAND 17_{1-g} (W/Kg)	LTE BAND 26_{1-g} (W/Kg)	LTE BAND 41_{1-g} (W/Kg)	MAX. ΣSAR_{1-g} (W/Kg)	SAR_{1-g} Limit (W/Kg)	Simut. Meas. Required
Front	0.116	0.295	0.269	0.307	0.325	0.441	1.6	N/A
Back	**0.194**	**0.658**	**0.483**	**0.604**	**0.563**	**0.852**	1.6	N/A
Left Side	N/A	0.257	0.173	0.312	0.273	0.312	1.6	N/A
Right Side	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A
Top side	0.155	0.593	0.393	0.523	0.489	0.748	1.6	N/A
Bottom Side	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A

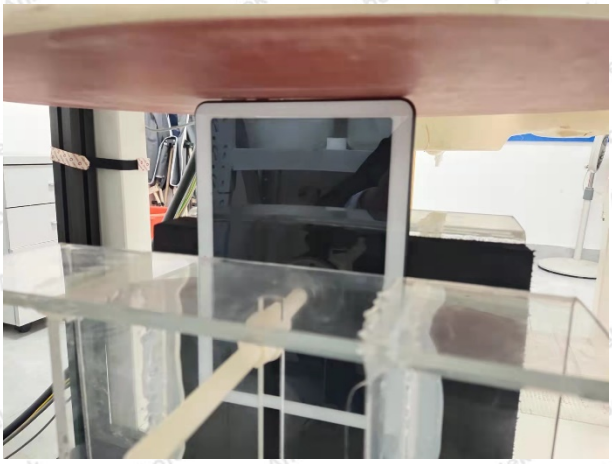
14. Measurement Uncertainty

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

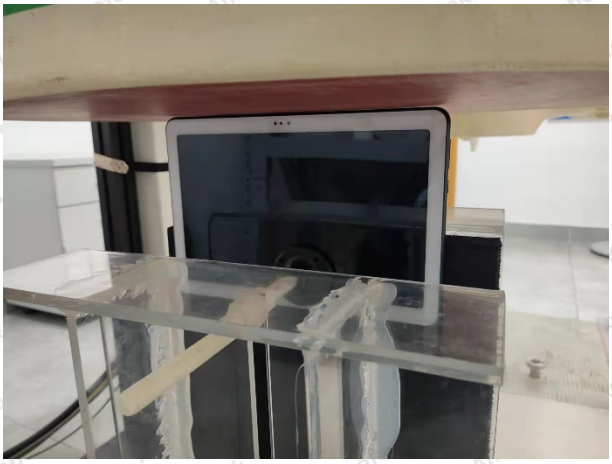
Appendix A. EUT Photos and Test Setup Photos

Front (0mm)

Back (0mm)



Left(0mm)



Top(0mm)

Appendix B. Plots of SAR System Check

750MHz Body System Check

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

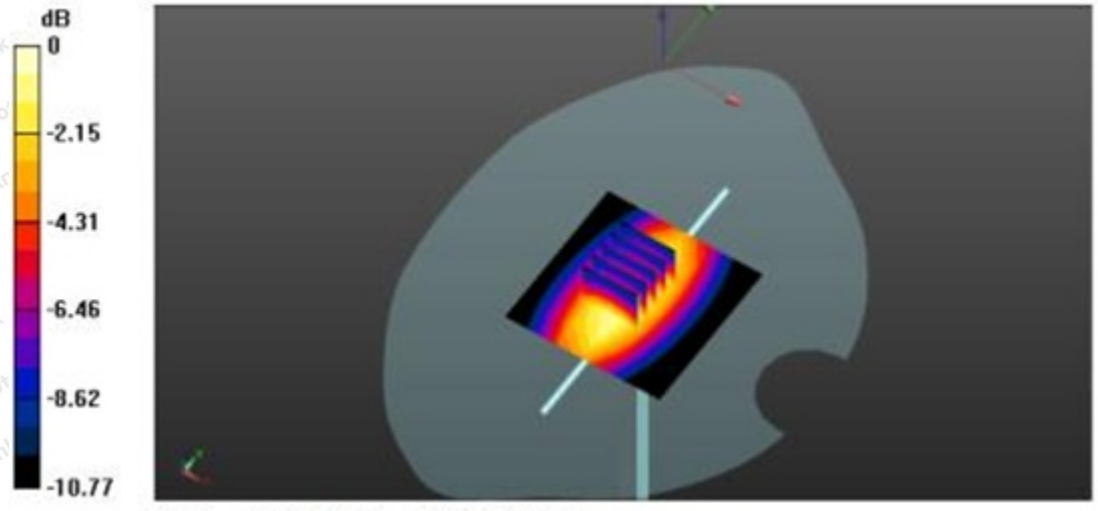
Date:11/02/2021

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.93 S/m; εr = 55.26; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7396; ConvF(10.09, 10.09, 10.09); Calibrated: May,06.2021;
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn387; Calibrated: Sep.06.2021
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=15mm, dy=15mm
Maximum value of SAR (measured) = 2.28 W/kg
Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 58.616 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.77 W/kg
SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.40 W/kg
Maximum value of SAR (measured) = 3.01 W/kg



System Performance Check at 835 MHz Body

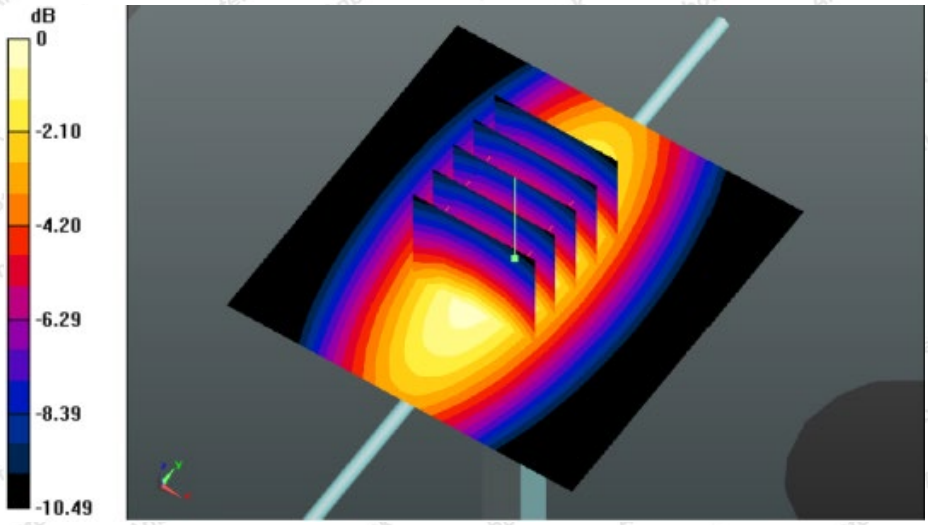
DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d154
Date:11/04/2021
Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.99 S/m; ε_r = 55.04; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:
•Probe: EX3DV4 - SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: 05,06.2021;
•Sensor-Surface: 4mm (Mechanical Surface Detection)
•Electronics: DAE4 Sn387; Calibrated: Sep.06,2021;
•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 mm, dy=15.00 mm
Maximum value of SAR (interpolated) = 2.892 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 50.236 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 3.251 W/kg
SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 2.879 W/kg



1750MHz Head System Check

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

Date:11/08/2021

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

Medium parameters used (interpolated): f =1750 MHz; σ =1.46 S/m; εr =53.12; ρ =1000 kg/m3

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7396; ConvF(8.24, 8.24, 8.24); Calibrated: May,06.2021;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06.2021;
- 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) = 12.1 W/kg

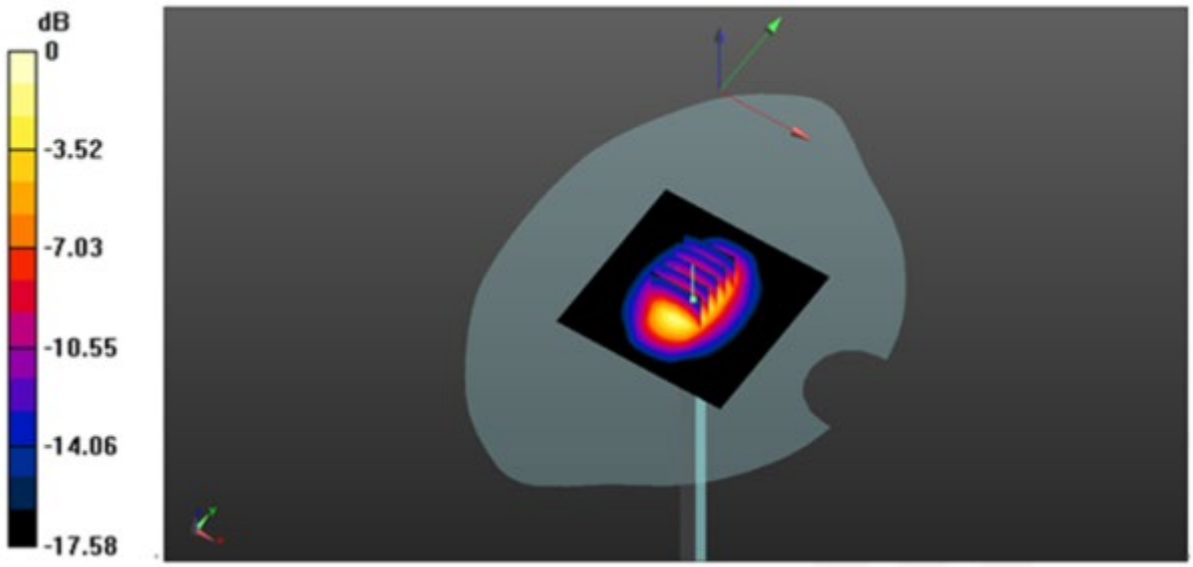
Configuration/Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.55 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 16.828 W/kg

SAR(1 g) =9.72 W/kg; SAR(10 g) = 5.08 W/kg

Maximum value of SAR (measured) = 12.0 W/kg

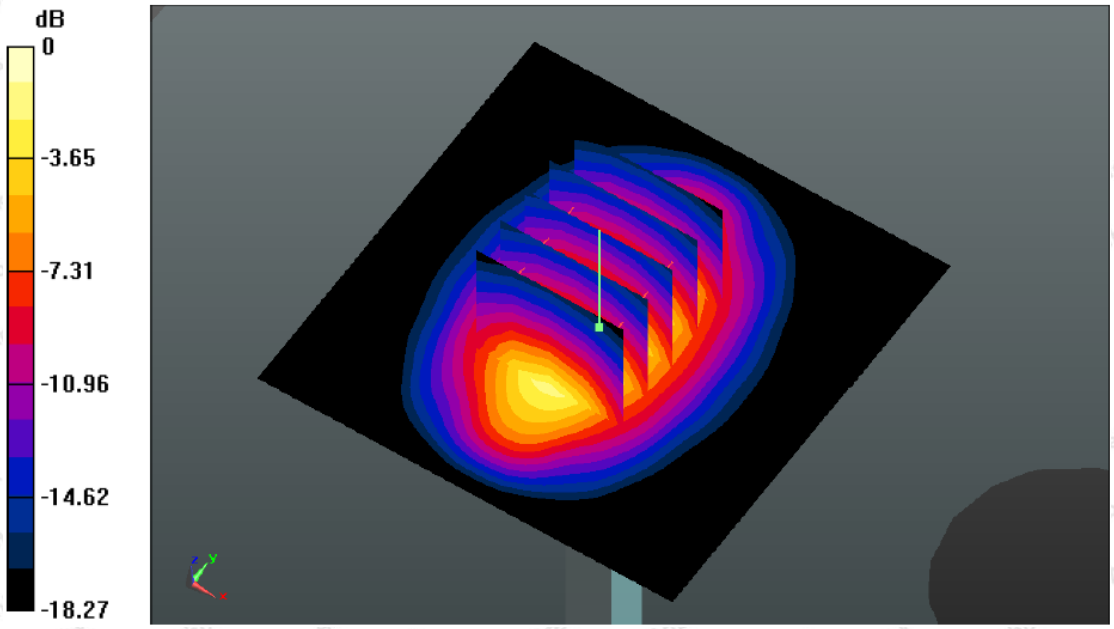


System Performance Check at 1900 MHz Body

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d175
Date:11/08/2021
Communication System: CW; Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1900 MHz; σ = 1.50S/m; εr = 53.83; ρ = 1000 kg/m3
Phantom section: Flat Section

DASY5 Configuration:
Probe: EX3DV4 - SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: 05,06.2021;
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn387; Calibrated: Sep.06,2021;
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) = 16.365 W/kg
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 87.414 V/m; Power Drift = -0.12dB
Peak SAR (extrapolated) = 19.622 W/kg
SAR(1 g) = 10.14 W/kg; SAR(10 g) = 5.32 W/kg
Maximum value of SAR (measured) = 15.11 W/kg

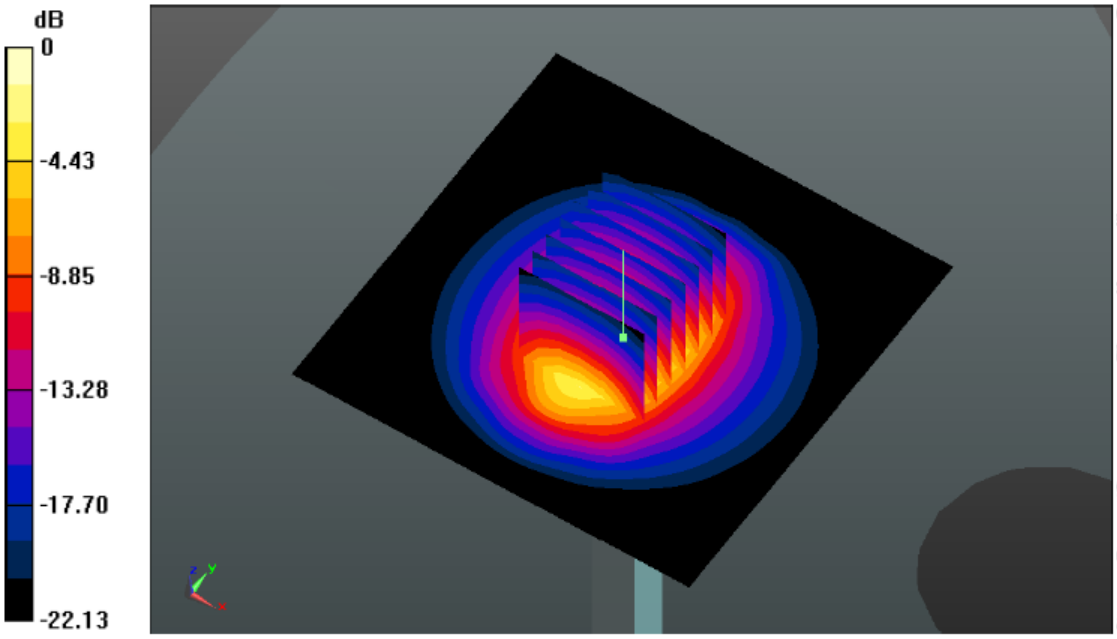


System Performance Check at 2450 MHz Body
DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 910
Date:11/09/2021

Communication System: CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2450 MHz; σ = 1.97S/m; εr = 53.1; ρ = 1000 kg/m3
Phantom section: Flat Section

DASY5 Configuration:
Probe: EX3DV4 - SN7396; ConvF(7.53, 7.53, 7.53); Calibrated: 05,06.2021;
Sensor-Surface: 3mm (Mechanical Surface Detection)
Electronics: DAE4 Sn387; Calibrated: Sep.06.2021
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) = 19.225 W/kg
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 84.153 V/m; Power Drift = 0.05dB
Peak SAR (extrapolated) = 26.125 W/kg
SAR(1 g) = 12.94 W/kg; SAR(10 g) = 5.92 W/kg
Maximum value of SAR (measured) = 19.18W/kg



2600MHz Head System Check at Body

DUT: Dipole 2600 MHz; Type: D2600V2;

Date:11/09/2021

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

Medium parameters used (interpolated): f = 2600 MHz; σ = 2.23S/m; εr = 52.46; ρ = 1000 kg/m3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.38, 7.38, 7.38); Calibrated: 05,06.2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06.2021
- 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) = 24.8 W/kg

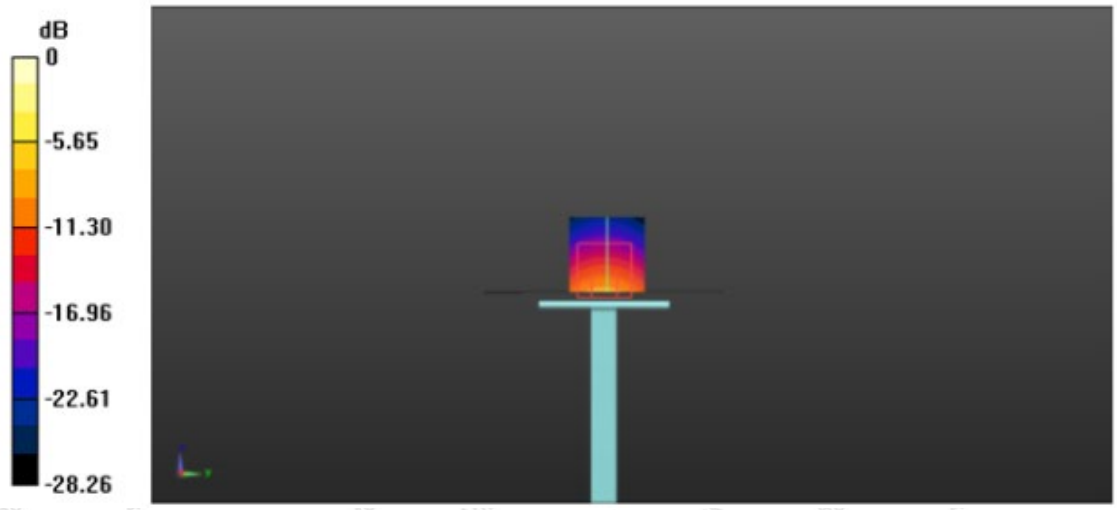
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 110.2 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 33.1 W/kg

SAR(1 g) = 13.95 W/kg; SAR(10 g) = 6.47 W/kg

Maximum value of SAR (measured) = 25.6 W/kg



5200MHz System Check

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1160

Date:11/10/2021

Communication System: UID 0, CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5200 MHz; σ = 5.13 S/m; ε_r= 48.36; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: 05,06.2021;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2021
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1671
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.6 W/kg

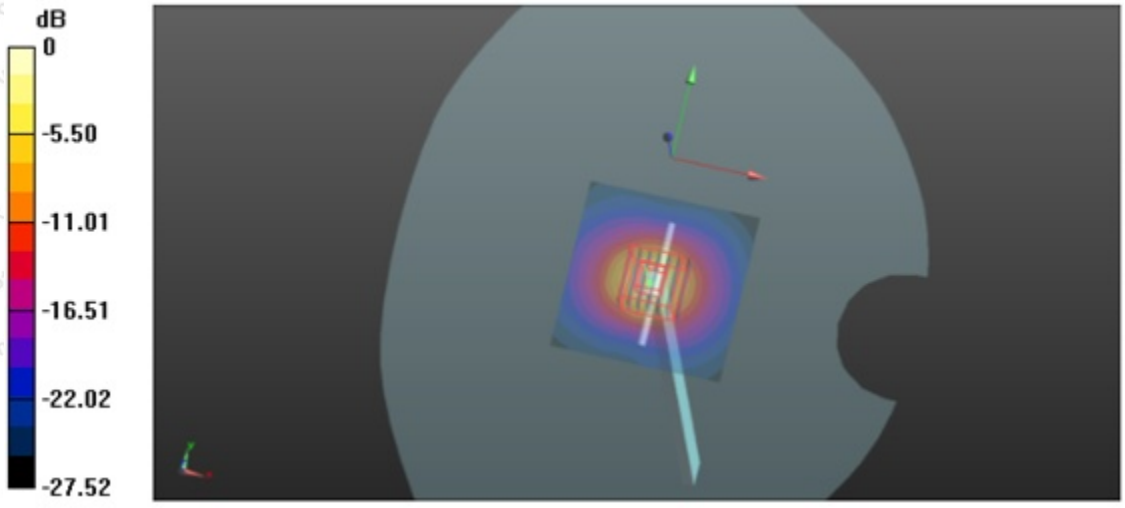
Configuration/Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.935 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 7.97 W/kg; SAR(10 g) = 2.17 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



5300MHz Body System Check

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1160

Date:11/26/2021

Communication System: UID 0, CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5300 MHz; σ = 5.43 S/m; ε_r = 48.56; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2020
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 20.7 W/kg

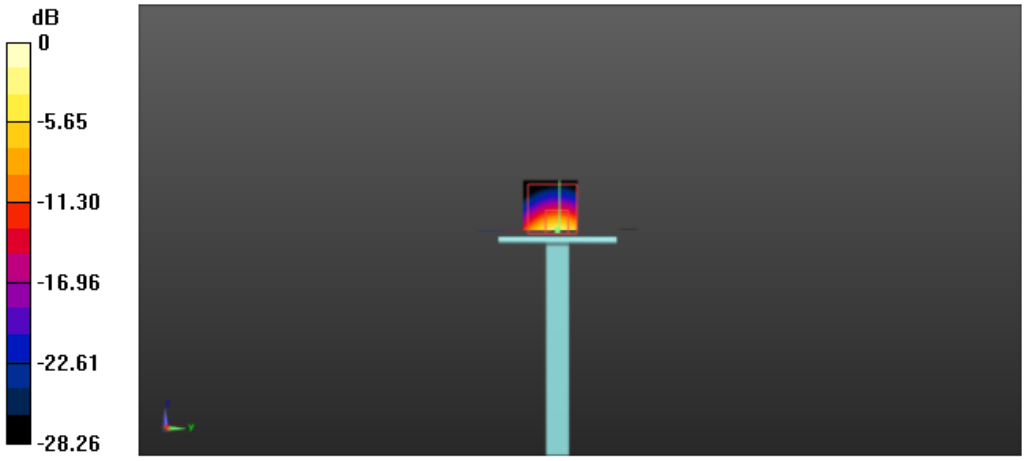
Configuration/Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 58.463 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 33.8 W/kg

SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.16 W/kg

Maximum value of SAR (measured) = 20.2 W/kg



0 dB = 20.2 W/kg = 13.05 dBW/kg

5600MHz Body System Check

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1160

Date:11/26/2021

Communication System: UID 0, CW; Frequency: 5600 MHz;Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz; σ = 5.61 S/m; ε_r = 49.7; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.19, 4.19, 4.19); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2020
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.7 W/kg

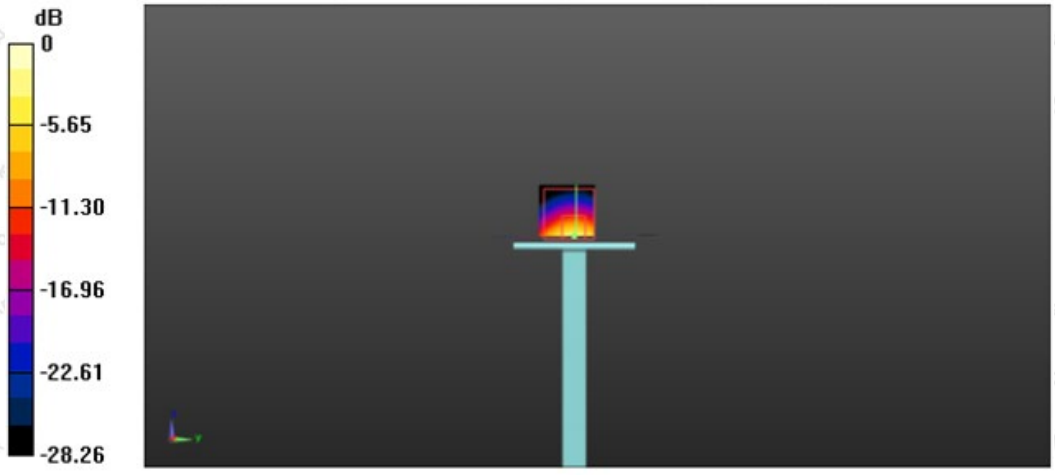
Configuration/Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 58.375 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 33.6 W/kg

SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.24 W/kg

Maximum value of SAR (measured) = 20.6 W/kg



5800MHz System Check

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1160

Date: 11/10/2021

Communication System: UID 0, CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5800 MHz; σ = 6.15 S/m; ε_r= 46.36; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.52, 4.52, 4.52); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.1 W/kg

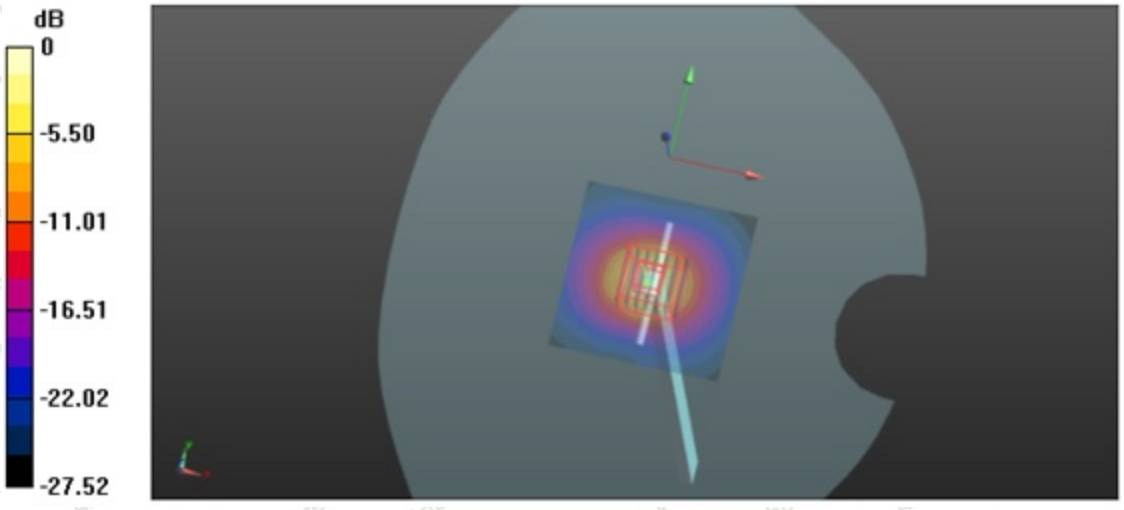
Configuration/Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.005 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 7.92 W/kg; SAR(10 g) = 2.09 W/kg

Maximum value of SAR (measured) = 19.4 W/kg



Appendix C. Plots of SAR Test Data

#1

Date: 11/04/2021

GSM850_GPRS_3TX_Body Back_Ch128

Communication System: UID 0, GPRS(4 Tx slots) (0); Frequency: 824.2MHz;Duty Cycle: 1:1.99986

Medium parameters used (interpolated): f = 824.2 MHz; σ = 0.99 S/m; ε_r = 55.04; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

•Probe: EX3DV4 - SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: May 06, 2021;
•Sensor-Surface: 4mm (Mechanical Surface Detection)
•Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
•Phantom: SAM 1; Type: SAM;
•Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.727 W/kg

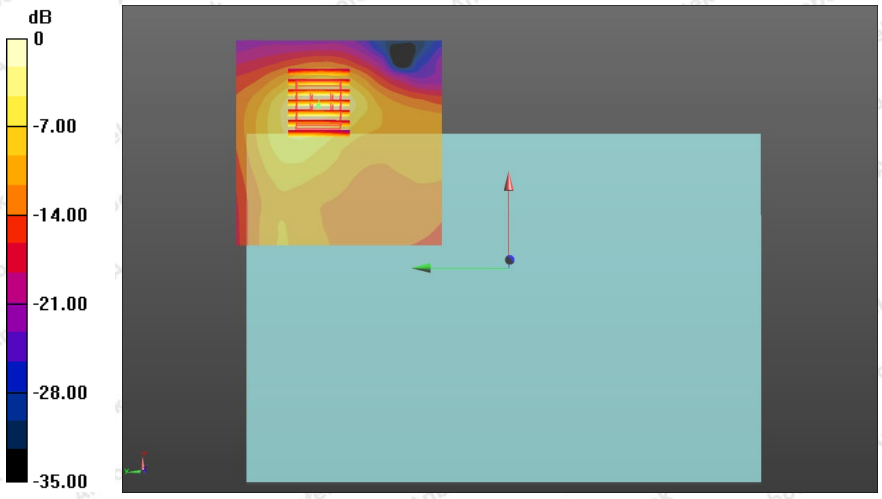
BODY/BACK /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.54 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.724 W/kg

SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.282 W/kg

Maximum value of SAR (measured) =0.715 W/kg



#2

Date: 11/08/2021

GSM1900_GPRS_3TX_Body Back_Ch512

Communication System: UID 0, GPRS(4 Tx slots) (0); Frequency: 1850.2MHz;Duty Cycle: 1:1.99986

Medium parameters used: f = 1850.2 MHz; σ = 1.50 S/m; ε_r = 53.83; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

•Probe: EX3DV4 - SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: 05,06.2021;

•Sensor-Surface: 4mm (Mechanical Surface Detection)

•Electronics: DAE4 Sn387; Calibrated: Sep.06,2021

•Phantom: SAM 1; Type: SAM;

•Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/4ST-BACK/Area Scan (101x101x1): Measurement grid: dx=1.000mm, dy=1.000mm

Maximum value of SAR (measured) =0.625 W/kg

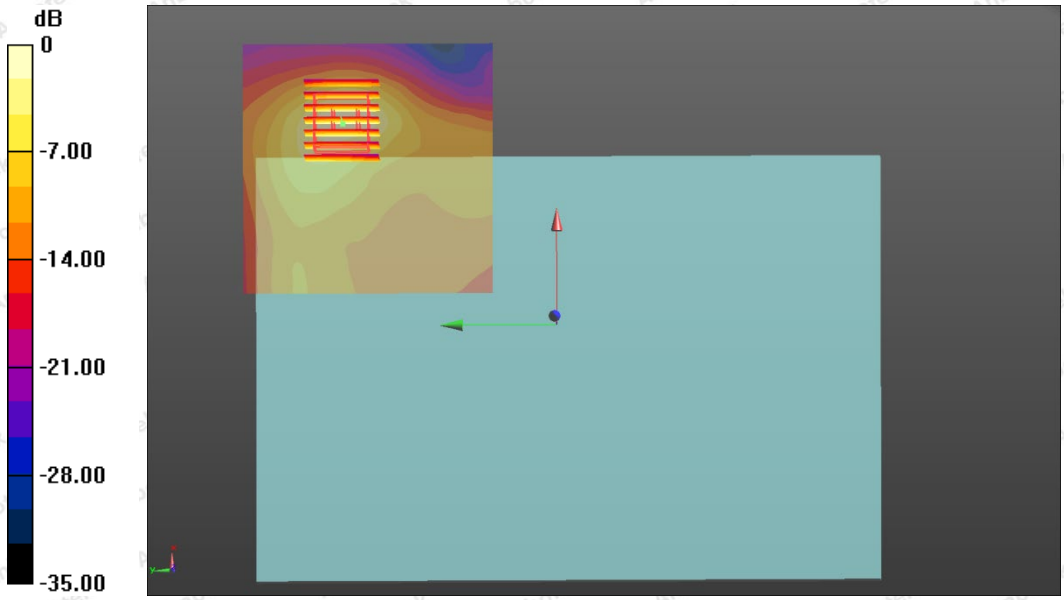
BODY/4ST-BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.65 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.636 W/kg

SAR(1 g) = 0.515 W/kg; SAR(10 g) = 0.271 W/kg

Maximum value of SAR (measured) = 0.665 W/kg



#3

Date: 11/08/2021

WCDMA 1900_RMC 12.2K_Body Back_Ch9538

Communication System: UID 0, Generic WCDMA (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

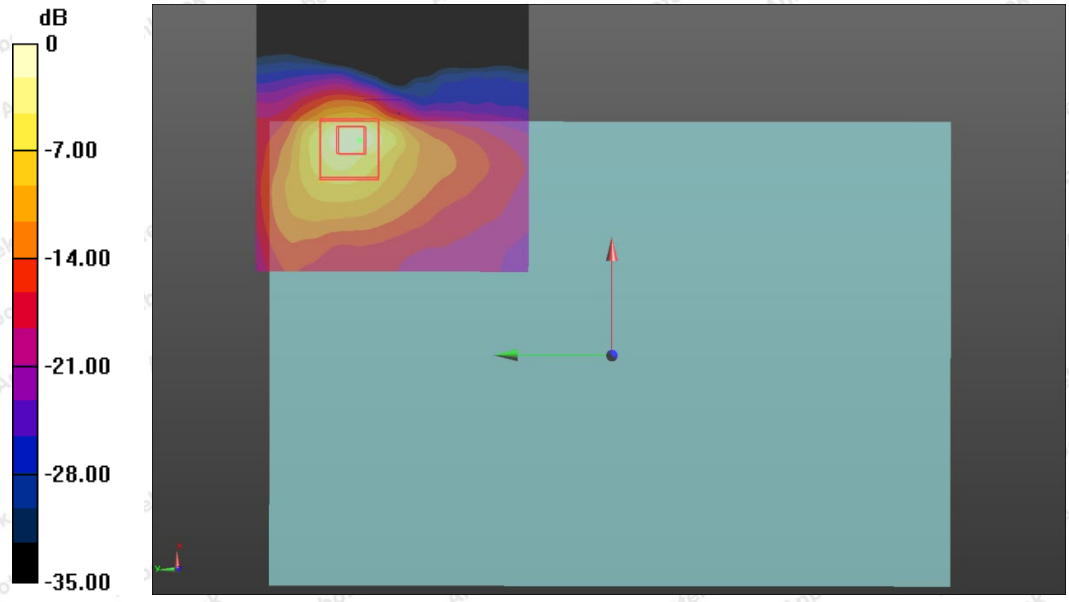
Medium parameters used: f = 1907.6 MHz; σ = 1.50 S/m; ε_r = 53.83; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: May,06.2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)
- **BODY/BACK/Area Scan (101x101x1):** Measurement grid: dx=1.000mm, dy=1.000mm
  Maximum value of SAR (measured) =0.671 W/kg

  BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
  Reference Value = 13.11V/m; Power Drift = 0.08dB
  Peak SAR (extrapolated) = 0.667 W/kg
  SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.275 W/kg
  Maximum value of SAR (measured) = 0.654 W/kg



#4

Date: 11/04/2021

WCDMA 850_RMC 12.2K_Body Back_Ch4183

Communication System: UID 0, Generic WCDMA (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.99 S/m; ε_r = 55.04; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: May,06.2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK/Area Scan (101x101x1): Measurement grid: dx=1.000mm, dy=1.000mm

Maximum value of SAR (measured) =0.663 W/kg

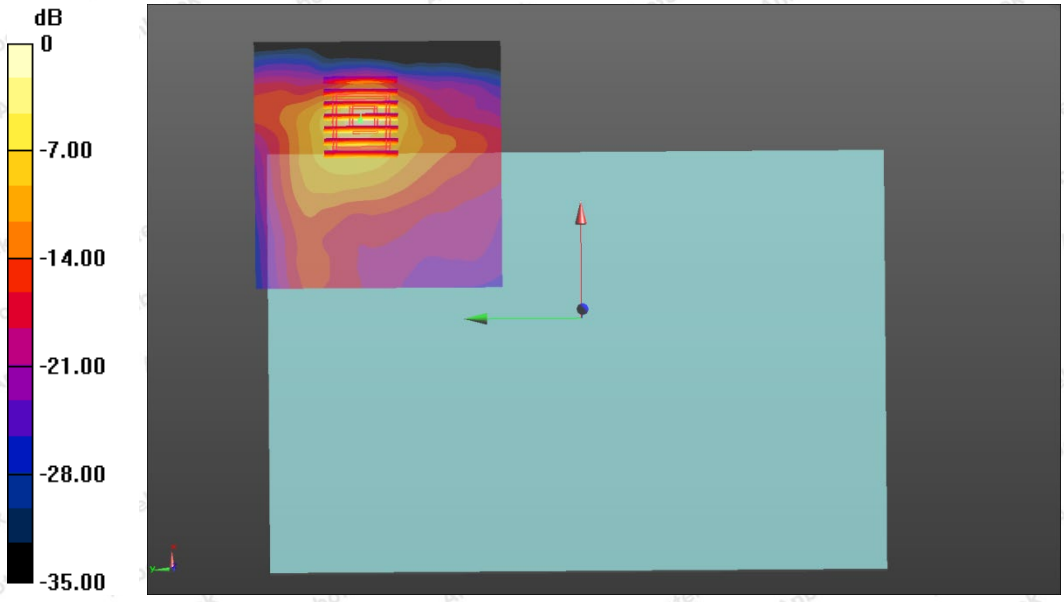
BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.32 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.655 W/kg

SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.316 W/kg

Maximum value of SAR (measured) = 0.658 W/kg



#5

Date: 11/08/2021

WCDMA 1700_RMC 12.2K_Body Back_Ch1412

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

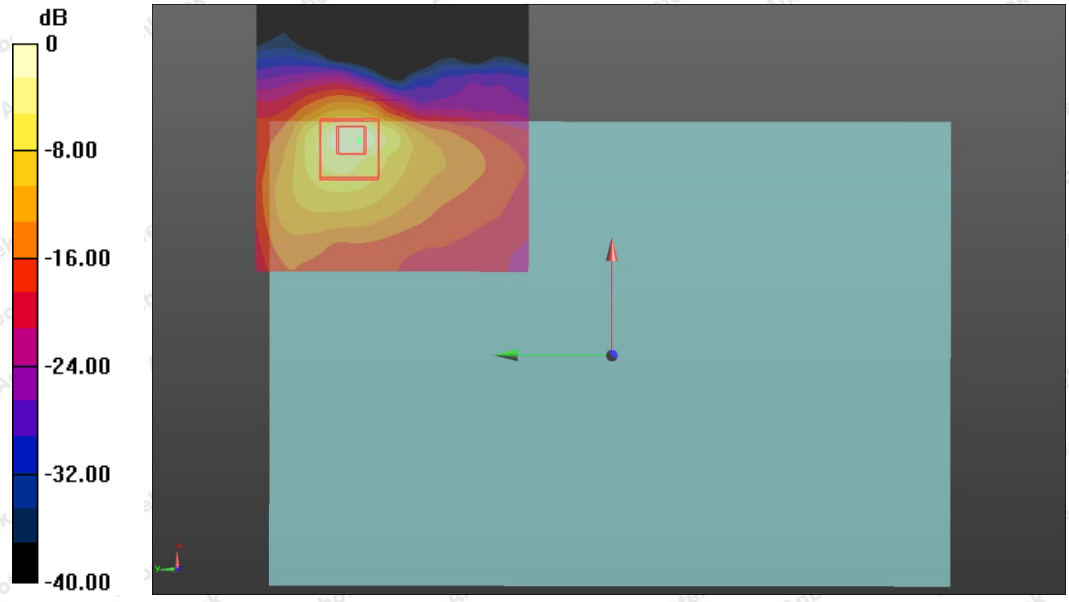
Medium parameters used: f = 1732.4 MHz; σ = 1.46 S/m; ε_r = 53.12; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(8.24, 8.24, 8.24); Calibrated: May,06.2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)
- **BODY/BACK/Area Scan (101x101x1):** Measurement grid: dx=1.000mm, dy=1.000mm
  Maximum value of SAR (measured) =0.642 W/kg

  BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
  Reference Value = 11.82 V/m; Power Drift = 0.12 dB
  Peak SAR (extrapolated) = 0.635 W/kg
  SAR(1 g) = 0.514 W/kg; SAR(10 g) = 0.265 W/kg
  Maximum value of SAR (measured) = 0.628 W/kg



#6

Date: 11/08/2021

LTE Band 2_ Body Back_1RB_Ch18700

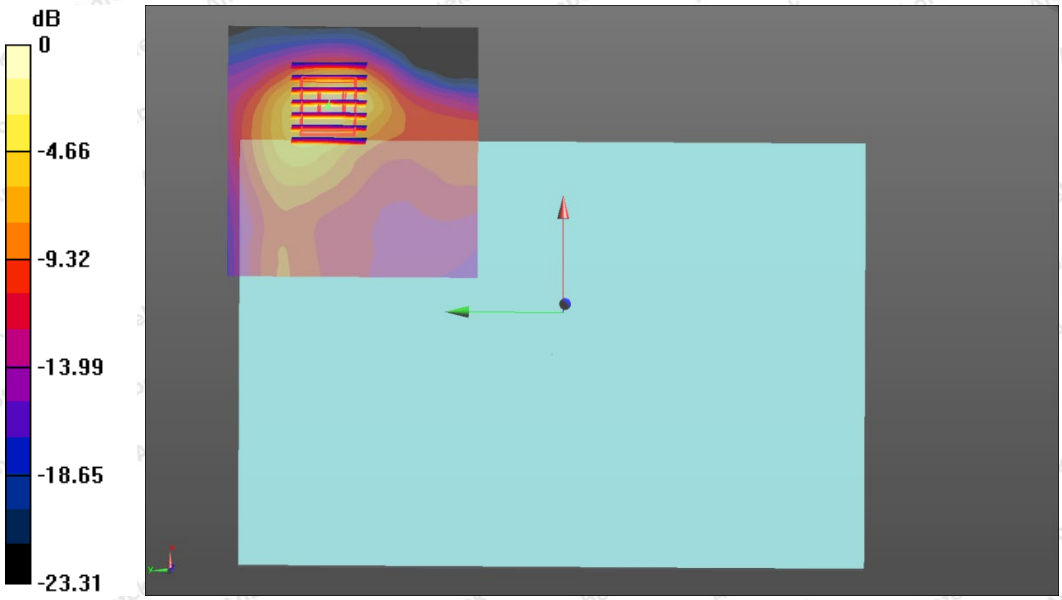
Communication System: UID 0, Generic LTE (0); Frequency: 1860.0 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1860.0 MHz; σ = 1.50 S/m; ε_r = 53.83; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.97, 7.97, 7.97); Calibrated: May,06.2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK /Area Scan (101x101x1): Measurement grid: dx=1.000mm, dy=1.000mm
Maximum value of SAR (interpolated) = 0.786 W/kg

BODY/BACK /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.36 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.782 W/kg
SAR(1 g) = 0.626 W/kg; SAR(10 g) = 0.307 W/kg
Maximum value of SAR (measured) = 0.773 W/kg



#7

Date: 11/08/2021

LTE Band 4_ Body Back_1RB_Ch20175

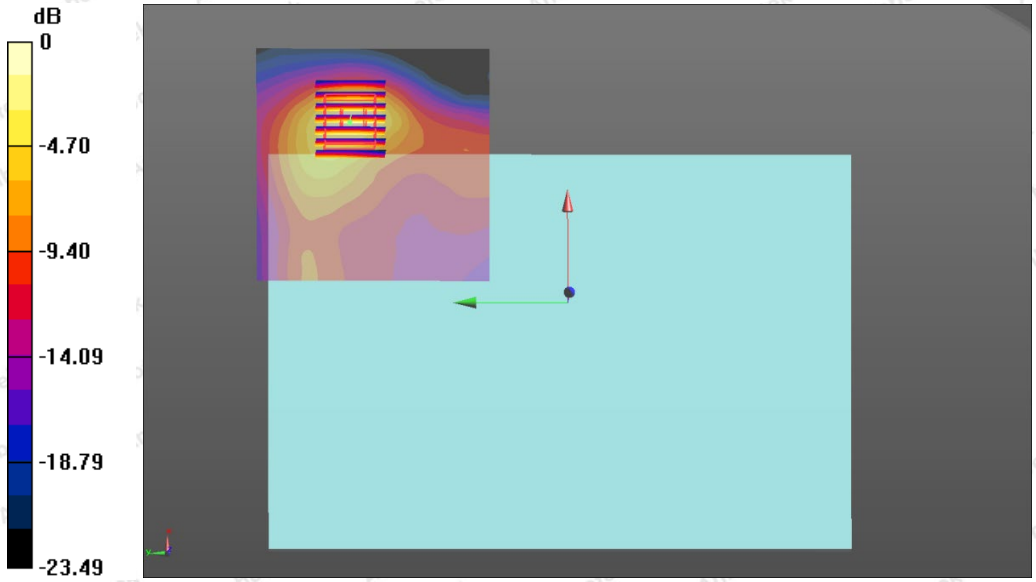
Communication System: UID 0, Generic LTE (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.46 S/m; ε_r = 53.12; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(8.24, 8.24, 8.24); Calibrated: May,06.2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK /Area Scan (101x101x1): Measurement grid: dx=1.000mm, dy=1.000mm
Maximum value of SAR (interpolated) = 0.654 W/kg

BODY/BACK /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.65 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.645 W/kg
SAR(1 g) = 0.571 W/kg; SAR(10 g) = 0.282 W/kg
Maximum value of SAR (measured) = 0.638 W/kg



#8
Date: 11/04/2021

LTE Band 5_ Body Back_1RB_Ch20600

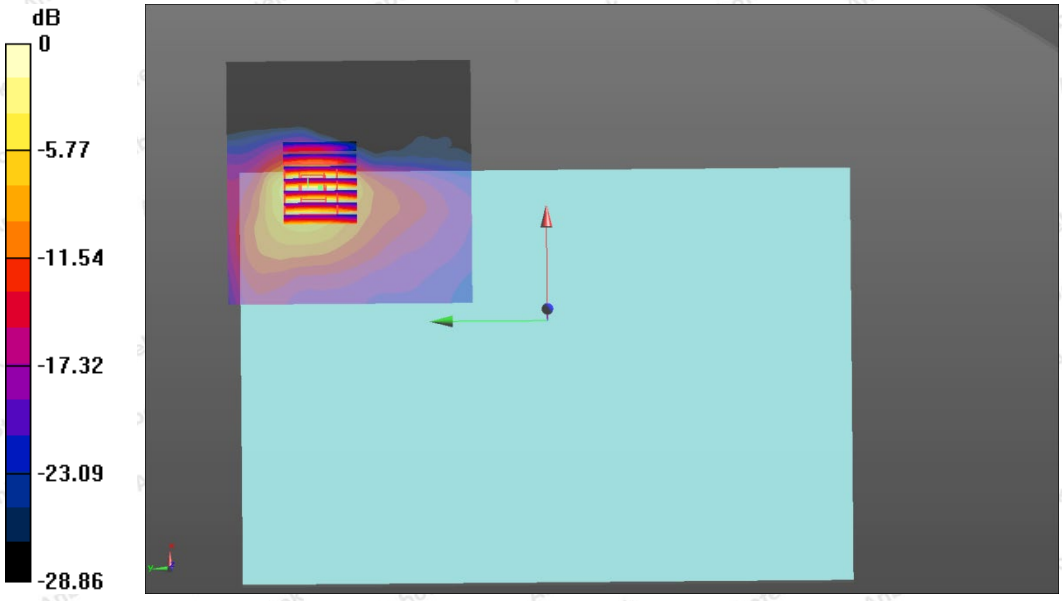
Communication System: UID 0, Generic LTE (0); Frequency: 844 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 844 MHz; σ = 0.99 S/m; ε_r= 55.04; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(9.88, 9.88, 9.88); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK /Area Scan (101x101x1): Measurement grid: dx=1.000mm, dy=1.000mm
Maximum value of SAR (interpolated) = 0.529 W/kg

BODY/BACK /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.41 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.533 W/kg
SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.225 W/kg
Maximum value of SAR (measured) = 0.504 W/kg



#9

Date: 11/09/2021

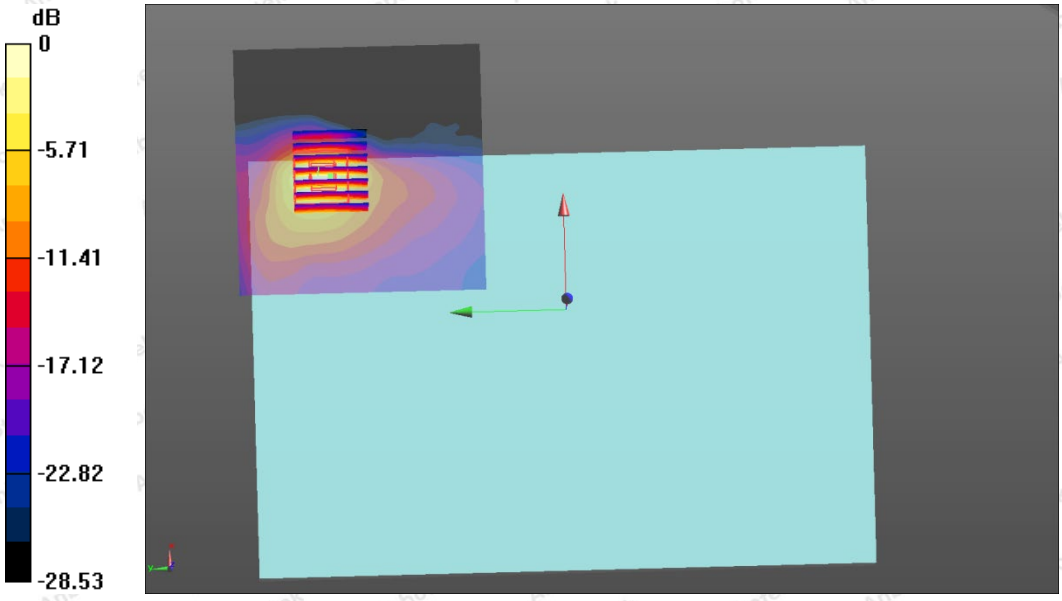
LTE Band 7_ Body Back_1RB_ Ch21100

Communication System: UID 0, Generic LTE (0); Frequency: 2535 MHz;
Medium parameters used (interpolated): f=2535 MHz; σ=2.23S/m; εr=52.46; ρ=1000 kg/m3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.38, 7.38, 7.38); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Unnamed procedure/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.775 W/kg
Configuration/Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.94 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.766 W/kg
SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.323 W/kg
Maximum value of SAR (measured) =0.762 W/kg



#10

Date: 11/02/2021

LTE Band 12_ Body Back_1RB_Ch23130

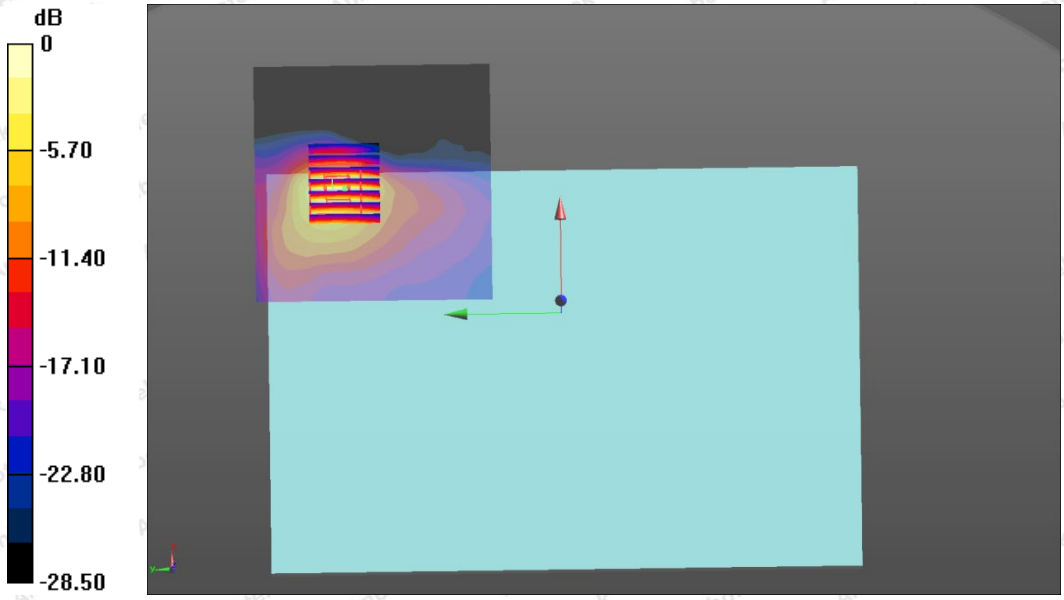
Communication System: UID 0, Generic LTE (0); Frequency: 711 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 711 MHz; σ = 0.93 S/m; ε_r= 55.26; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(10.09, 10.09,10.09); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK/Area Scan (101x101x1): Measurement grid: dx=1.000mm, dy=1.000mm
Maximum value of SAR (interpolated) = 0.671 W/kg

BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.89 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.789 W/kg
SAR(1 g) = 0.552 W/kg; SAR(10 g) = 0.267 W/kg
Maximum value of SAR (measured) = 0.774 W/kg



#11

Date: 11/02/2021

LTE Band 13_ Body Back_1RB_Ch23230

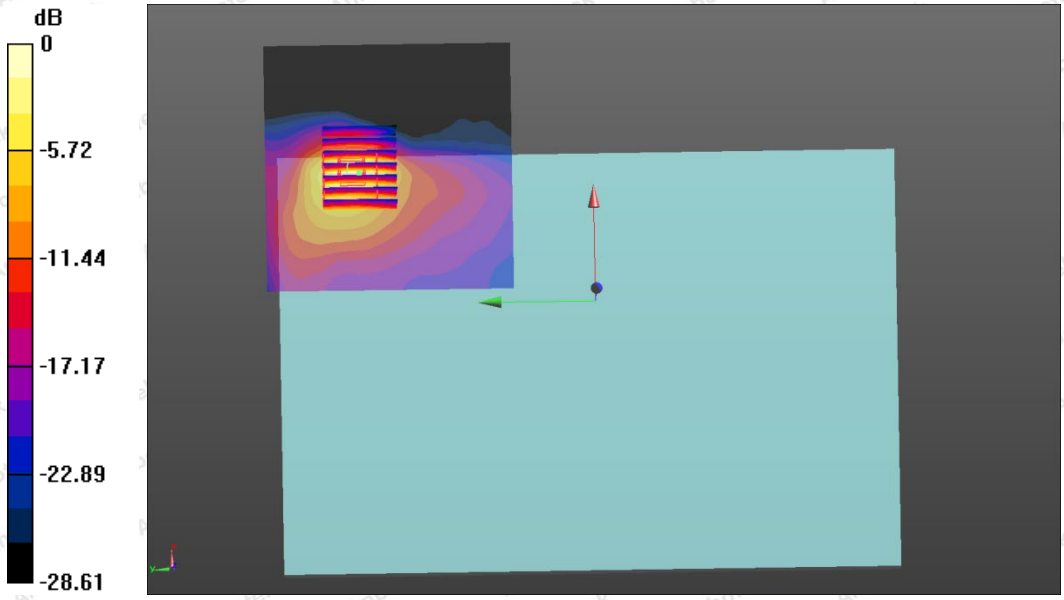
Communication System: UID 0, Generic LTE (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; = 0.93 S/m; ε_r= 55.26; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(10.09, 10.09,10.09); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK /Area Scan (101x101x1): Measurement grid: dx=1.000mm, dy=1.000mm
Maximum value of SAR (interpolated) = 0.726 W/kg

BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.15 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.724 W/kg
SAR(1 g) = 0.596 W/kg; SAR(10 g) = 0.312 W/kg
Maximum value of SAR (measured) = 0.710 W/kg



#12

Date: 11/02/2021

LTE Band 17_ Body Back_1RB_Ch23790

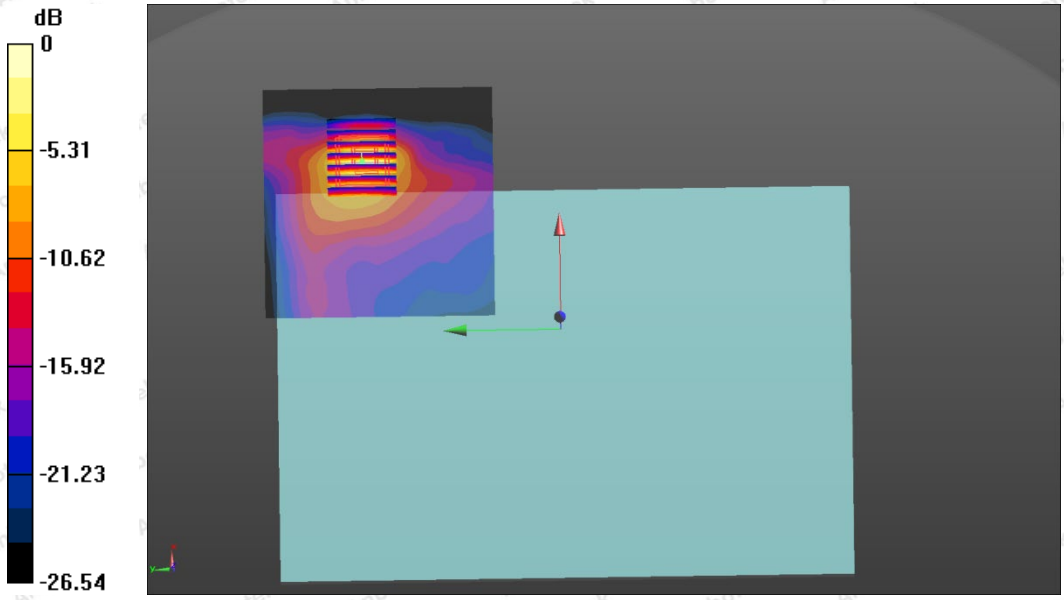
Communication System: UID 0, Generic LTE (0); Frequency: 710 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 710 MHz; σ = 0.93 S/m; ε_r= 55.26; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(10.09, 10.09,10.09); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK /Area Scan (101x101x1): Measurement grid: dx=1.000mm, dy=1.000mm
Maximum value of SAR (interpolated) = 0.581 W/kg

BODY/BACK /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.46 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.595 W/kg
SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.284 W/kg
Maximum value of SAR (measured) = 0.568 W/kg



#13

Date: 11/04/2021

LTE Band 26_ Body Back_1RB_Ch26765

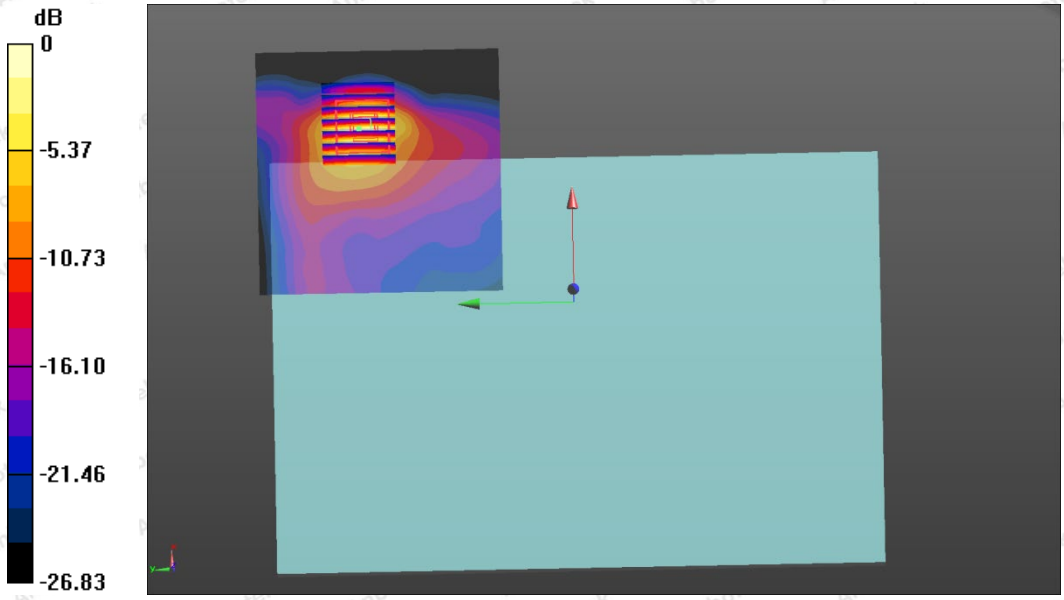
Communication System: UID 0, Generic LTE (0); Frequency: 821.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 821.5 MHz; = 0.99 S/m; ε_r= 55.04; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(10.09, 10.09,10.09); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK/Area Scan (101x101x1): Measurement grid: dx=1.000mm, dy=1.000mm
Maximum value of SAR (interpolated) = 0.720 W/kg

BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.67 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.718 W/kg
SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.274 W/kg
Maximum value of SAR (measured) = 0.702 W/kg



#14

Date: 11/09/2021

LTE Band 41_ Body Back_1RB_Ch41490

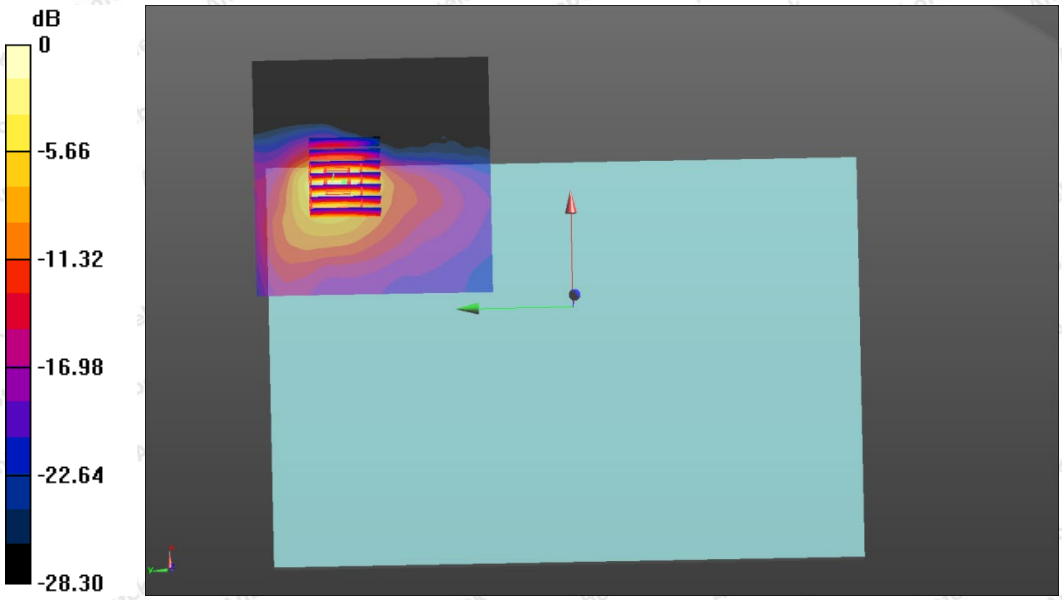
Communication System: UID 0, Generic LTE (0); Frequency: 2680 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2680 MHz; σ = 2.23 S/m; ε_r = 52.46; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(7.38, 7.38, 7.38); Calibrated: May,06.2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK/Area Scan (101x101x1): Measurement grid: dx=1.000mm, dy=1.000mm
Maximum value of SAR (interpolated) = 0.526 W/kg

BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.57 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.532 W/kg
SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.287 W/kg
Maximum value of SAR (measured) = 0.521 W/kg



#15

Date: 11/09/2021

WIFI 2.4G_802.11n(HT40)_Body Back _Ch6

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

Medium parameters used (interpolated): f = 2437 MHz; σ = 1.97 S/m; ε_r = 53.1; ρ = 1000 kg/m^3

Phantom section: Flat Section

DASY5 Configuration:

•Probe: EX3DV4 - SN7396; ConvF(7.53, 7.53, 7.53); Calibrated: 05,06.2021;

•Sensor-Surface: 4mm (Mechanical Surface Detection)

•Electronics: DAE4 Sn387; Calibrated: Sep.06,2021

•Phantom: SAM 1; Type: SAM;

•Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/BACK/Area Scan (101x151x1): Measurement grid: dx=1.000mm, dy=1.000mm

Maximum value of SAR (measured) = 0.555 W/kg

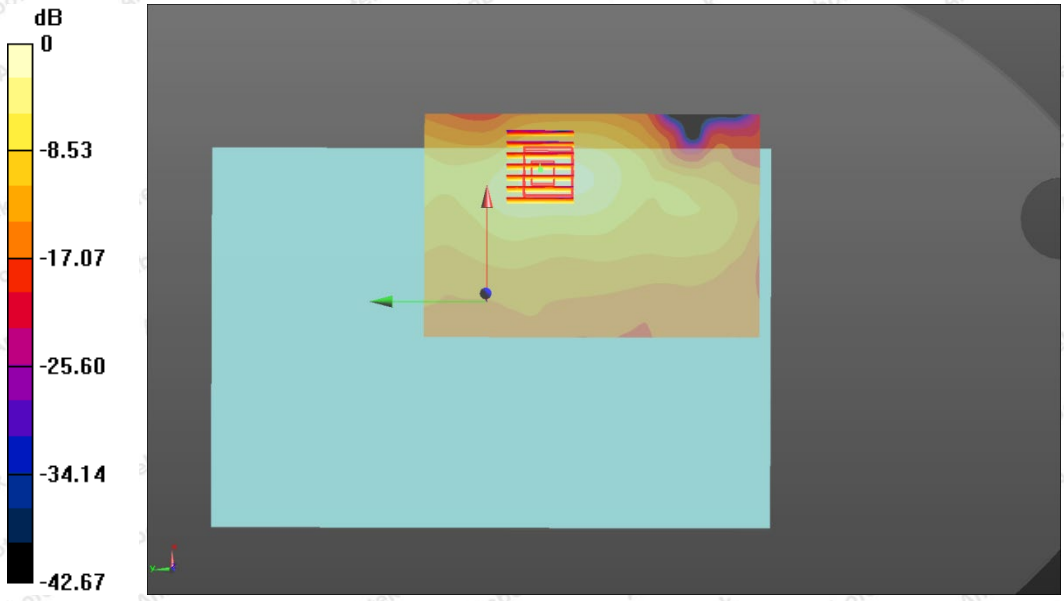
BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.23 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.552 W/kg

SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.226 W/kg

Maximum value of SAR (measured) = 0.515 W/kg



#16

Date: 11/10/2021

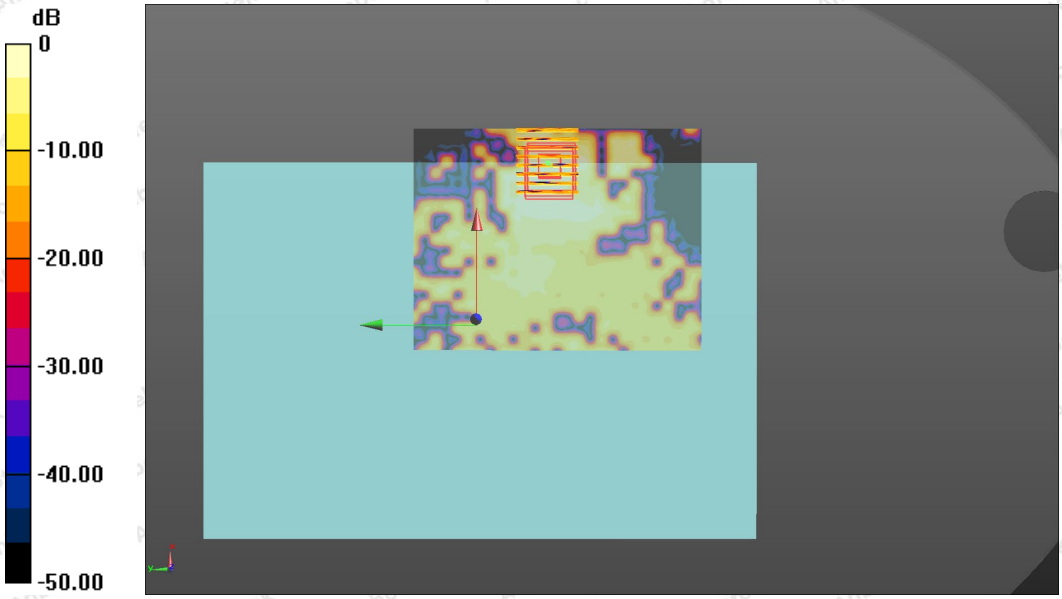
WIFI 5.2G_802.11ac(HT40)_Body back_Ch38

Communication System: UID 0, 802.11a (0); Frequency: 5190MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5190 MHz; σ = 5.13 S/m; ε_r= 48.36; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: 05,06.2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

BODY/ BACK /Area Scan (101x151x1): Measurement grid: dx=1.000mm, dy=1.000mm
Maximum value of SAR (measured) = 0.165W/kg
BODY/ BACK /Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.56 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.156 W/kg
SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.041 W/kg
Maximum value of SAR (measured) = 0.150 W/kg



#17

Date: 11/26/2021

WIFI 5.3G_802.11a_Body back _Ch64

Communication System: UID 0, wifi (fcc) (0); Frequency: 5320MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 5320 MHz; σ = 5.43 S/m; εr = 48.56; ρ = 1000 kg/m3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2020
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/ BACK /Area Scan (101x151x1): Measurement grid: dx=1.000mm, dy=1.000mm

Maximum value of SAR (measured) = 0.124 W/kg

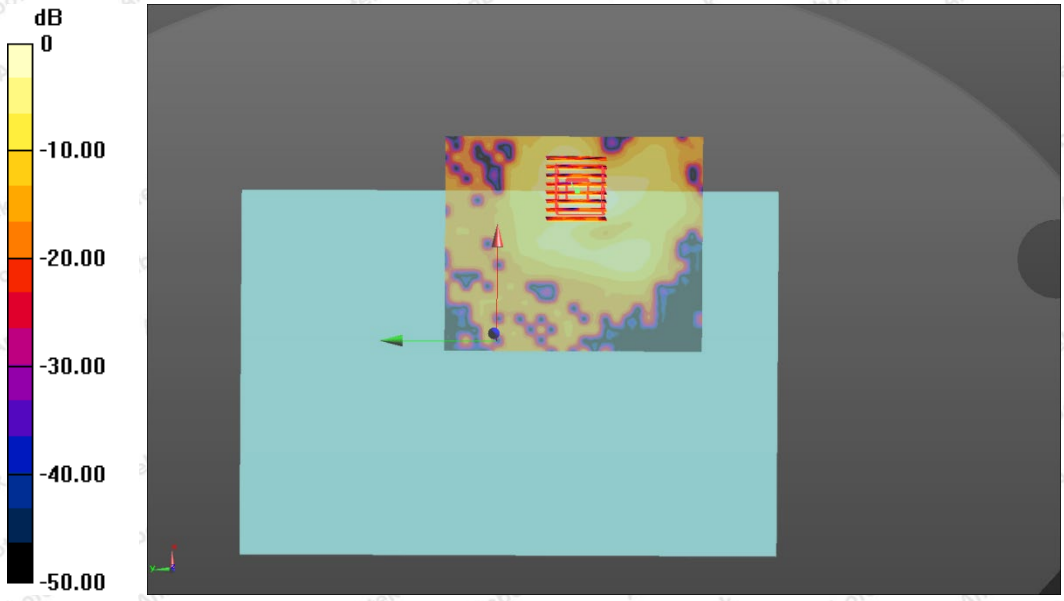
BODY/ BACK /Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 3.366 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.123 W/kg

SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.033 W/kg

Maximum value of SAR (measured) = 0.118 W/kg



#18

Date: 11/26/2021

WIFI 5.6G_802.11ac(HT40)_ Body back _Ch138

Communication System: UID 0, wifi (fcc) (0); Frequency: 5670 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 5670 MHz; σ = 5.61 S/m; εr = 49.7; ρ = 1000 kg/m3

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.19, 4.19, 4.19); Calibrated: May 06, 2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2020
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY/ BACK /Area Scan (101x151x1): Measurement grid: dx=1.000mm, dy=1.000mm

Maximum value of SAR (measured) = 0.178 W/kg

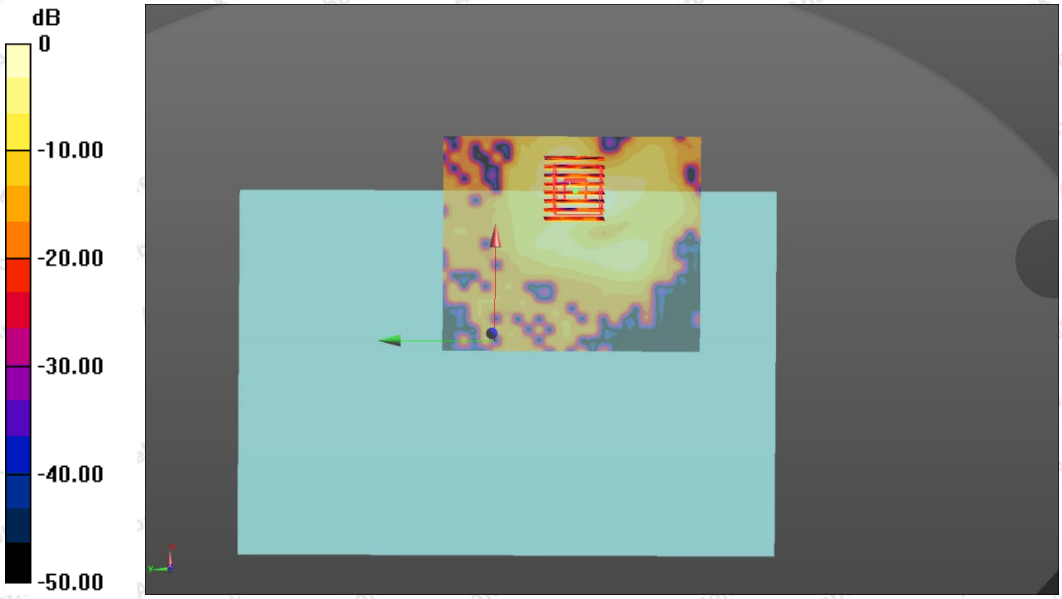
BODY/ BACK /Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 10.752 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.183W/kg

SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.054W/kg

Maximum value of SAR (measured) = 0.175 W/kg



#19

Date: 11/10/2021

WIFI 5.8G_802.11ac(HT40)_Body back _Ch151

Communication System: UID 0, 802.11a (0); Frequency: 5755MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5755 MHz; σ = 6.15 S/m; ε_r= 46.36; ρ = 1000 kg/m^3
Phantom section: Flat Section
DASY5 Configuration:

- Probe: EX3DV4 – SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: 06.05.2021;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep.06,2021
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

BODY/ BACK /Area Scan (101x151x1): Measurement grid: dx=1.000mm, dy=1.000mm
Maximum value of SAR (measured) =0.232 W/kg

BODY/ BACK /Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.92 V/m; Power Drift =0.07 dB
Peak SAR (extrapolated) = 0.239 W/kg
SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.076 W/kg
Maximum value of SAR (measured) = 0.225 W/kg