

SAR Test Report

Report No.	: FCC_SAR_SL19060603-SLX-017
Applicant	: Viavi Solutions, Inc.
Address	: 6001 America Center Drive, 6th Floor, San Jose, CA 95002
Product	: DSP Series Field Meter
Brand	: Viavi
Model No.	: NSC-100
Standards	 EN 62209-1:2016, IEC 62209-1:2016 EN 62209-2:2010, IEC 62209-2:2010 FCC 47 CFR Part 2 (2.1093), RSS-102 Issue 5 IEEE C95.1:1992, IEEE Std 1528:2013 KDB 865664 D01 v01r04, KDB 865664 D02 v01r04 KDB 447498 D01 v06
Sample Received Date	: 09/01/2019
Date of Testing	: 09/10/2019-09/29/2019
Lab Address	: 775 Montague Expressway, Milpitas, CA 95035
Test Location	: 775 Montague Expressway, Milpitas, CA 95035

The above equipment has been tested by Bureau Veritas Consumer Products Services, Inc., Milpitas Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared By :

Approved By :

Deon Dai / Test Engineer

en

CRE TESTING CERT # 2742-01

Chen Ge / Engineer Review



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Release Control Record

Report No.	Reason for Change	Date Issued
FCC_SAR_SL19060603-SLX-017	Initial release	10/14/2019



1. Summary of Maximum SAR Value

Highest Standalone Transmission SAR	Highest Body SAR-1g Tested at 0 mm (W/kg)
WLAN	0.985



2. Description of Equipment Under Test

Product	DSP Series Field Meter
Brand	Viavi
Test Model	NSC-100
Identification No. of EUT	TTDH0012190004
Series Model	N/A
Model Difference	N/A
Status of EUT	Engineer Sample
Power Supply Rating	100-240VAC,1.2A, 50-60Hz
Modulation Type	GFSK,π/4DQPSK,8DPSK CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	FHSS,DSSS,OFDM
Transfer Rate	BDR/EDR: 1/2/3Mbps BT_LE:1Mbps 802.11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 300Mbps 802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 1200Mbps 802.11ac: up to 3466.4Mbps
Operating Frequency	2.402 ~ 2.48 GHz 2.412 ~ 2.462GHz 5150 ~ 5350MHz and 5470 ~ 5725MHz 5745 ~ 5825MHz
Number of Channel	BDR/EDR: 79 BT_LE:40 11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40) 802.11a, 802.11n (HT20), 802.11ac (VHT20): 16 802.11n (HT40), 802.11ac (VHT40): 6 802.11ac (VHT80): 4 For 5GHz(U-NII-1+ U-NII-3): 802.11a, 802.11n (HT20), 802.11ac (VHT20): 9 802.11n (HT40), 802.11ac (VHT40): 6 802.11ac (VHT80): 3
Antenna Type	PIFA Antenna
Antenna Connector	U.FL Connector

Note:

1. The EUT uses following adapter.

no Eor dood following dduptor.		
Brand	FSP	
Model	FSP045-D3MR3	
Input Power	100-240V,1.2A, 50-60Hz	
Output Power	5.0V/9.0V/12.0V/15.0V 3.0A	
Power Line	20.0V 2.25A	

2. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.



3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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.

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

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

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

SAR measurement can be related to the electrical field in the tissue by

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

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

3.2 SPEAG DASY6 System

The DASY6 system in cDASY6/DASY5 V5.2 SAR Configuration is shown below:

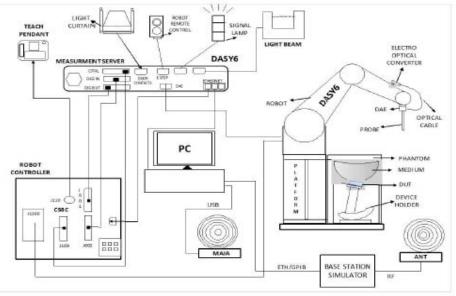


Fig-3.1 SPEAG DASY6 System Setup



The cDASY6 system for performing compliance tests consist of the following items:

- Robot (6 Axis) & Parts
 - -Controller
 - -Teach Pendant
 - -Signal Lamps -Remote Control
- Phantoms
- Platforms
- Tissue/Head Sim. Liquids
- Dielectric Measurement Kit
- DUT Holder
- Probes & Dipole Kit
- Data Acquisition Electronics (DAE)
- Measurement Server
- Light Beam Unit
- Computer & Software
- MAIA / ANT

Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with autozeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter, and a command decoder with a 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 mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts used for mechanical surface detection and probe collision detection.

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

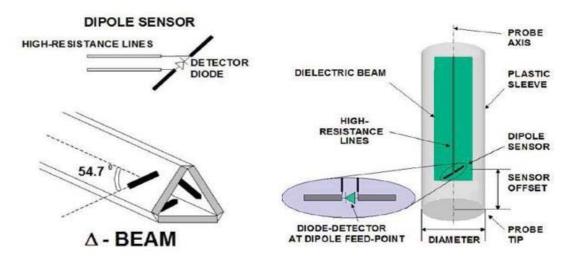


The DAE works with either two standard 9V batteries or two 9V (more precisely, 8.4V or 9.6V) rechargeable batteries. Because the electronics automatically power-down unused components during braking or between measurements, the battery lifetime depends on system usage. Typical lifetimes are >20 hours for standard and >10 hours for rechargeable batteries. Remove the batteries if you do not plan to use the DAE for a long period of time.



Probes

The DASY system can support many different probe types.



Dosimetric Probes: These probes are specially designed and calibrated for use in liquids with high permittivities. They should not be used in air, since the spherical isotropy in air is poor $(\pm 2dB)$. The dosimetric probes are specially calibrated in various liquids at different frequencies.

Free-Space Probes: These are electric and magnetic field probes specially designed for measurements in free space. The *z*-sensor is aligned to the probe axis, and the rotation angle of the *x*-sensor is specified. This allows the DASY system to automatically align the probe in the measurement grid for field component measurement. The free-space probes are generally not calibrated in liquid. (The H-field probes can be used in liquids without any change to the parameters.)

Temperature Probes: These small and sensitive temperature probes for general use are based on a completely different parameter set and evaluation procedures. Temperature rise features allow direct SAR evaluations with these probes.

Audio Magnetic Probes: The AM1D probes are active probes with a single sensor each for axial and radial measurement scans as defined for audio band magnetic (ABM) signals testing in the ANSI C63.19 standard. The AM1D probe is fully RF shielded.

Teaching Probe: Teaching Probes are special probes, which are used for performing mother scans to detect and record the phantom inner surface location. These probes are mounted on special purpose DAEs, shipped along with the probes.

Probe	Freq. Range	Tip Diameter	Sensor Offset	Rec. Sensor- Phantom
				Dist.
ES3DV3	10 MHz-4 GHz	4.0mm	2mm	3.0mm
EX3DV3	10 MHz-6 GHz	2.5mm	1mm	1.4mm

Light-Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm, as well as the probe length and the horizontal probe offset, are measured. The



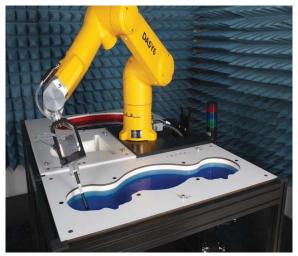
software then corrects all movements within the measurement jobs, such that the robot coordinates are valid for the probe tip.



The repeatability of this process is better than 0.1mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.

Phantoms

SPEAG phantoms are high-quality products constructed of materials compatible with all tissue simulating liquids, including aggressive, e.g., DGBE type, solvents. The shells are constructed with a very tight tolerance of less than 0.2mm, and all parameters correspond to those requested by SAR standards. Full computer-aided design (CAD) information have been predefined in the DASY6 software, enabling fast and easy usage.



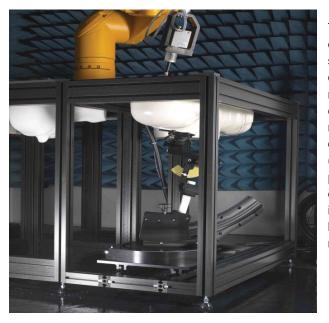
The SAM-Twin phantom (shown in front of DASY6) is a fiberglass shell phantom with shell thickness 2mm, except in the ear region where the thickness is increased to 6mm. The phantom has three measurement areas: 1) Left Head, 2) Right Head, and 3) Flat Section. For larger devices, the use of the ELI Phantom (shown behind DASY6) is required.

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6GHz. ELI has been optimized for performance and can be integrated into a SPEAG standard phantom table. A cover is provided to prevent evaporation of water and changes in liquid parameters. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points.



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 5mm distance, a positioning uncertainty of ± 0.5 mm would produce uncertainty in the SAR of $\pm 20\%$. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions at which the devices must be measured are defined by the standards.



The DASY device holder is designed to cope with the different positions described in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus, the device needs no repositioning when the angles are changed. The DASY device holder is constructed of low-loss polyoxymethylene (POM) material, which has 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.

DASY6 Measurement Chain

The DASY6 dosimetric measurement system signal chain is shown in the figure below:

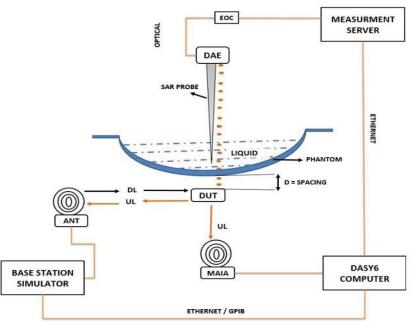


Figure 1: cDASY6 V6.4 Dosimetric Measurement System Signal Chain

The base-station simulator is controlled by the computer, to setup a specific test mode call with the device under test (DUT).

The DUT is placed in the Device Holder and held at a fixed spacing / orientation with respect to the phantom.



The phantom has a fixed geometry and thickness defined by the compliance standards. The phantom is filled with liquid medium of known permittivity and conductivity.

The uplink signal transmitted by the DUT is measured inside the medium by the probe, which is accurately positioned at a precisely known distance and defined orientation with respect to the phantom surface, normal at the point by the 6-axis robot positioner.

The dipole / loop sensors at the probe tips pick up the signal and generate a voltage, which is measured by the voltmeter inside the data acquisition electronics (DAE). The DAE returns digital values, which are converted to an optical signal and transmitted via the electro-optic converter (EOC) to the measurement server (MS). The data is finally recorded in the DASY6 software.

The Modulation and Interference Analyzer (MAIA) measures the uplink signal and the cDASY6 V6.4 software calculated signal characteristics such as bandwidth, modulation frequency, etc. and matches these with the known characteristics of the test mode call parameters set up via the base-station simulator. This is important, as the probe has different calibration factors for different types of uplink signals – to obtain an accurate reading, the uplink signal must match the probe calibration factors applied.

In case of a new or unknown signal, the MAIA is used to ascertain the best match of probe calibration factors depending on the characteristics of measured signal.

The free-space E-field / H-field measurement setup is also similar. The SAR probe is replaced by the E- an/or H-field probe, while the DUT is typically placed on a plane surface. The data acquisition and signaling processing via the DAE, EOC, and MS by the DASY6 software remains the same.

Data Evaluation

The fields and SAR are calculated from the measured voltage (probe voltage acquired by the DAE) and the following parameters:

	- Sensitivity	normi, ai0, ai1, ai2
Probe Parameters	- Conversion factor	ConvFi
	- Diode compression point	dcpi
	- Probe Modulation	ai,bi,ci,d
Device Parameter	- Frequency	f
	- Crest factor	cf
Media Parameters	- Conductivity	σ
	- Relative Permittivity	ρ

Parameters are stored in the measurement file.

Approximated Probe Response Linearization using Crest Factor

This linearization method is enabled when a custom defined communication system is measured. The compensation applied is a function of the measured voltage, the detector diode compression points and the crest factor of the measured signal.

		$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$	
with	Vi	= linearized voltage of channel i (uV)	(i = x, y, z)
	Ui	= measured voltage of channel i (uV)	(i = x, y, z)
	cf	= crest factor of exciting field	(DASY parameter)



(Probe parameter, i = x, y, z)

The resulting linearized voltage is only approximated because the probe is not calibrated to this specific signal.

Probe Response Linearization for Specific Calibrated Communication Signals

Modern communication protocols employ complex modulation schemes and channel access techniques. probe linearization using crest factor method may lead to large measurement errors over the full dynamic range when measuring complex modulations. DASY features an advanced probe response linearization that reduces the maximal measurement error while considerably increasing the probe dynamic range.

The measured voltage is first compensated:

$$V_{compi} = U_i + U_i^2 \cdot \frac{10^{\frac{d}{10}}}{dcp_i}$$

With V_{compi} = compensated voltage of channel i (μ V) (i = x,y,z) U_i = input voltage of channel i (μ V) (i = x,y,z) d = PMR factor d (dB) (Probe parameter) dcp_i = diode compression point of channel i (μ V) $\sqrt{}$

The compensated voltage is converted in $dB\sqrt{\mu V}$:

$$V_{compi_{dB}\sqrt{\mu V}} = 10 \cdot \log_{10}(V_{compi})$$

A correction factor specific to the communication signal is calculated using the PMR factors:

$$corr_i = a_i \cdot e^{-(\frac{V_{compi_{dB}\sqrt{\mu V}} - b_i}{c_i})^2}$$

with	$corr_i$	= correction factor of channel i (dB)	(i = x,y,z)
	$V_{compi_{dB}\sqrt{\mu V}}$	= compensated voltage of channel i $(dB\sqrt{\mu V})$	(i = x,y,z)
	ai	= PMR factor a of channel i (dB)	(Probe parameter, $i = x,y,z$)
	b_i	= PMR factor b of channel i $(dB\sqrt{\mu V})$	(Probe parameter, $i = x,y,z$)
	c_i	= PMR factor c of channel i	(Probe parameter, i = x,y,z)

The voltage $V_{i_{dB}\sqrt{\mu V}}$ is the linearized voltage in dB $\sqrt{\mu V}$:

$$V_{i_{dB}\sqrt{\mu V}} = V_{compi_{dB}\sqrt{\mu V}} - corr_i$$

$$\begin{array}{ll} \text{with} & V_{i_{dB}\sqrt{\mu V}} &= \text{linearized voltage of channel i} \ (dB\sqrt{\mu V}) & (\text{i} = \text{x,y,z}) \\ V_{compi_{dB}\sqrt{\mu V}} &= \text{compensated voltage of channel i} \ (dB\sqrt{\mu V}) & (\text{i} = \text{x,y,z}) \\ Corr_i &= \text{correction factor of channel i} \ (\text{dB}) & (\text{i} = \text{x,y,z}) \end{array}$$

Finally, the linearized voltage is converted in μ V:

$$V_i = 10^{\frac{V_{i_{dB}\sqrt{\mu V}}}{10}}$$

with
$$V_i$$
 = linearized voltage of channel i (μV) (i = x,y,z)
 $V_{i_{dB}\sqrt{\mu V}}$ = linearized voltage of channel i ($dB\sqrt{\mu V}$) (i = x,y,z)

Field and SAR Calculation

The primary field data for each channel are calculated using the linearized voltage:



		E-field probes:	$E_i = \sqrt{\frac{V_i}{Norm_i \cdot Co}}$	mvF
		H-field probes:	$H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f}{f}$	$+ a_{i2}f^2$
with	V_i	= linearized voltage of char	nnel i	(i = x.v.z)
	Norm _i	= sensor sensitivity of chan		(i = x,y,z) (i = x,y,z)
		$\mu V/(V/m)^2$ for E-field		(
	ConvF	= sensitivity enhancement		
	a_{ij}	= sensor sensitivity factors		
	f	= carrier frequency [GHz]		
	E_i	= electric field strength of	channel i in V/m	
	H_i	= magnetic field strength o		

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

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

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

$$\begin{split} SAR &= E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1'000} \\ \text{with } SAR &= \text{local specific absorption rate in mW/g} \\ E_{tot} &= \text{total field strength in V/m} \\ \sigma &= \text{conductivity in [mho/m] or [Siemens/m]} \\ \rho &= \text{equivalent tissue density in g/cm}^3 \end{split}$$

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



SAR Measurement

The procedure for assessing the peak spatial-average SAR value consists of the following steps:

Power Reference Measurement

The reference and drift jobs are useful jobs for monitoring the power drift of the device under test in the batch process. Both jobs measure the field at a specified reference position, at a selectable distance from the phantom surface. The reference position can be either the selected section's grid reference point or a user point in this section. The reference job projects the selected point onto the phantom surface, orients the probe perpendicularly to the surface, and approaches the surface using the selected detection method.

Area Scan

An Area Scan job is part of the compliance testing protocol of the DUT. The main goal of this job is to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. The selection of these properties is highly dependent on the size (and position) of the DUT, frequency of operation, DUT-phantom offset and available time for the assessment. If the SAR distribution is a-priori not known, the grid extent should be such that it covers the whole area of the DUT.

• Zoom Scan

For dosimetric application, it is necessary to assess the peak spatial SAR value averaged over a volume. For this purpose, fine resolution volume scans need to be performed at the peak SAR location(s) determined during the Area Scan.

A measurement grid within a zoom scan is defined by the grid extents (X,Y,Z), Offsets and Step Sizes (X,Y,Z). While step sizes in X and Y are usually a fixed value, DASY6 software permits to have a graded step size for the Z direction, for which a grading ratio can be defined. Graded grids are useful for SAR evaluations at higher frequencies (> 2GHz) as the decay rate is high and a higher number of measurements closer to the phantom surface is required to accurately extrapolate the measured values to the phantom surface.

Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for one reference measurement. This allows a user to monitor the power drift of the device under test within a batch process. In the properties of the Drift job, the user can specify a limit for the drift and have OPENSAR software stop the measurements if this limit is exceeded.

SAR Measurement Scan Description Fast Scan Description

Fast Scan is used to assess the peak spatial SAR values within a cubic averaging volume containing 1g and 10g of simulated tissue in only 10s provided the absorption pattern (antenna and frequency band). Fast Scans compare the measured pattern of a given test configuration to the ones measured previously. If a similar pattern shape (matching configuration) is found, a scaling factor defined as difference in amplitude of the two configurations is computed. The Area and Zoom Scans results available for the matching configuration are then scaled to assess the 1g and 10g SAR of the measured configuration.

Grid Settings

The grid extents used for Fast Scans are the same as for Area Scans.



Area Scan Description

Area Scans are used to determine the peak location of the measured field before doing a finer measurement around the hotspot. Area Scans measure a two-dimensional volume covering the full device under test area. cDASY6 V6.4 uses Fast Averaged SAR algorithm to compute the 1g and 10g of simulated tissue from the Area Scan.

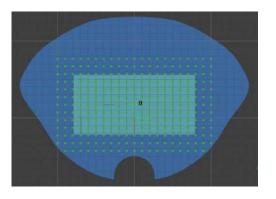
Grid Settings

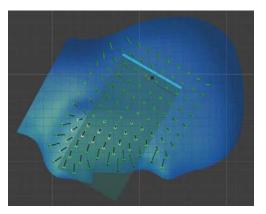
Automated Grid Settings

cDASY6 V6.4 automatically generates Area Scan grid settings based on device dimensions. The scan extent is defined by the device dimensions plus additional 15mm on each side.

For Flat phantom sections both the device under test and the area scan are centered around the phantom device reference point. For Left Head and Right Head phantom sections, Area Scans are anchored to the ERP (Ear Reference Point) and oriented along the Ear Mouth line. The device under test position on this line is given by the speaker position which is always placed at the ERP. The scans extents are defined by the device height and width increased by 15mm on each side.

Figure 1 shows a typical area scan grid for Flat and Left Head phantom sections.





- (a) Flat Phantom Section
- (b) Left Head Phantom Section

Figure 1: Measurement Grid for Area Scans

Table 1 describes the Area Scan grid extents used in Flat, Left Head and Right Head phantom sections.

Section	Position	Extent X [mm]	Extent Y [mm]
Flat	TOP (SCREEN)	Width + 30	Height + 30
Flat	BOTTOM (COVER)	Width + 30	Height + 30
Flat	EDGE TOP	Thickness + 30	Width + 30
Flat	EDGE BOTTOM	Thickness + 30	Width + 30
Flat	EDGE LEFT	Thickness + 30	Height + 30
Flat	EDGE RIGHT	Thickness + 30	Height + 30
LEFT / RIGHT HEAD	CHEEK	Width + 30	Height + 30
LEFT / RIGHT HEAD	TILT	Width + 30	Height + 30

Table 1: Area Scan Grid Extents in Flat, Left Head and Right Head Phantom Sections

Area Scan grid steps and sensor distance to surface are defined in Table 2.



f [GHz]	d sensor- surface	Step X, Y [mm]
[0] 12]	[mm]	[]
0 - 2	3	14
2 - 3	3	14
3 - 4	3	10
4 - 6	3	10

Table 2: Area Scan Grid Settings in Flat Phantom Sections

User defined Grid Settings

In cDASY6 V6.4 user defined grid settings can be applied as well. In the scan properties of the measurement the grid extent, grid step and grid offset can be changed after changing the default selection 'DUT dimensions + 15 mm' to 'User defined' see figure 2. and figure 3.

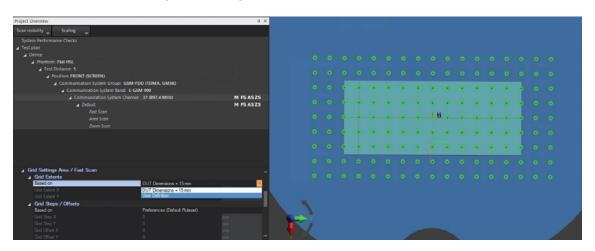
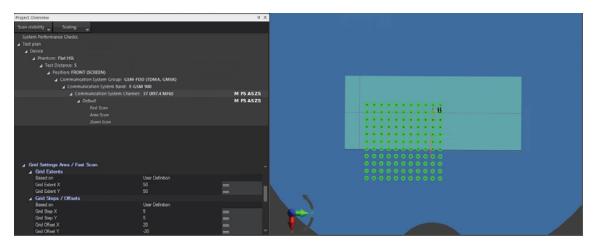
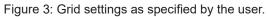


Figure 2: Default grid settings based on DUT dimensions.







Special Case of Specialized Phantoms

For Headstand and Facedown phantoms, the DUT can't be defined using a simple brick shape. Also, the transmitting might operate in any area of the head. For these phantoms, cDASY6 V6.4 features a tool to easily define the measurable area: the user can directly draw the grid on the 3D view by defining a tetragonal with 4 points. Due to the geometry of the phantom, no area scan is performed in the Forearm phantom.

Zoom Scan Description

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1g and 10g of simulated tissue. Zoom scans measure a three-dimensional volume (cube). The bottom face of the cube is centered on the maximum of the preceding Area Scan in the same measurement group. For maxima at border of the phantom, auto extend zoom scan when maxima on boundary feature can be enabled in Application Preferences Scan Settings with Administrator access level. **Grid Settings**

Automated Grid Settings

Zoom Scans are always anchored to the peak location of the preceding Area Scan. The sensor distance to the surface depends on the probe type used during measurement: 1.4mm for EX probes and 3mm for ES probes. Table 3 describes the grid settings used for Zoom Scans in Flat phantom sections.

f [GHz]	Extend XYZ [mm]	Step XY [mm]	Step Z	Graded	Grading Ratio [mm]
[• · · -]	[]	[]	[mm]		[]
0 - 2	30 x 30 x 30	6	6	No	-
2 - 3	30 x 30 x 30	6	6	No	-
3 - 4	22 x 22 x 22	4	1.8	Yes	1.4
4 - 6	22 x 22 x 22	4	1.4	Yes	1.4

Table 3: Zoom Scan Grid Settings in Flat, Left Head and Right Head Phantom Sections

User defined Grid Settings

Similar like for Area Scans the grid settings for Zoom Scans can be customized. After selecting the 'User Defined' option, Grid extent x,y,z, grid step x,y,z as well as Graded grid and Grading ratio can be set by the user.

Power Monitoring Scan

Power monitoring scans are used to monitor the power drift of the device under test. The local SAR strength is measured at a reference position at the beginning and at the end of the scan. The power drift is computed using the formula:

$$P_{drift}[dB] = 10 \cdot \log_{10} \frac{SAR_{beginning}}{SAR_{end}}$$

Power monitoring scans are available for fully integrated in Area and Zoom Scans. They can be enabled in Application Preferences Scan Settings. For Area Scans, the reference point is defined as the maximum location of the preceding Fast Scan. A Fast Scan will be automatically performed if none has been performed and power monitoring is enabled. For Zoom Scans, it is defined at the first point of the measured grid.

Check Scan

The Check Scan is used for system check purpose only and consists of a standard Zoom Scan (30x30x30mm) and a 1D Rotation Scan. The 1D Rotation Scan is anchored to the interpolated maximum of the preceding Zoom Scan. The extrapolated peak SAR value is extracted above the dipole center.



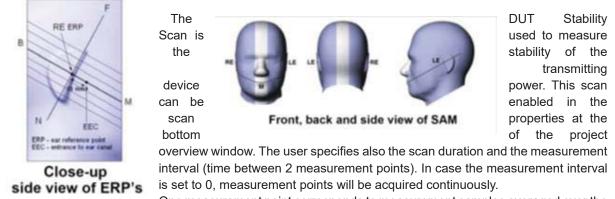
Validation Scan

The Validation Scan is used for system validation purpose only and consists of an extended Zoom Scan (50x30x30mm) and a 1D Rotation Scan. The 1D Rotation Scan is anchored to the interpolated maximum of the preceding Zoom Scan. The extrapolated peak SAR values are extracted above the dipole center and at 20mm transverse offset from the Zoom Scan.

Time Averaged SAR Scan

Time Averaged SAR applies to devices which can monitor and control the time averaged transmitted power in realtime over the period define in the applicable standards.

DUT Stability Scan



One measurement point corresponds to measurement samples averaged over the integration time specified in Application Preferences Scan Settings. For instance, if the measurement interval is 5s and the integration time 0.5s, a measurement point will be acquired every 5s. This measurement point corresponds to instantaneous SAR readings averaged over 0.5s. The result shows the DUT power drift in %.

$$SAR_{drift(\%)} = 100 \cdot \left(\frac{SAR_{max} - SAR_{min}}{SAR_{avg}} - \right)$$

SAR_{drift(%)} is the SAR drift over the measured period in % SAR_{min} is the minimum measured SAR value SAR_{max} is the maximum measured SAR value SAR_{avg} is the SAR value averaged over all measurement points

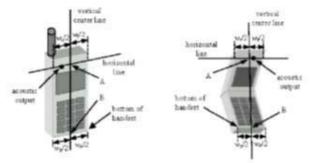
Device Reference Point Definition of Reference Points

Ear Reference Point

Figure 6.2 shows the front, back and side views of the SAM Phantom. The point "M" is the reference point for the center of the mouth, "LE" is the left ear reference point (ERP), and "RE" is the right ERP. The ERPs are 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 6.1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front) is perpendicular to the reference plane and passing through the RE (or LE) is called the Reference Pivoting Line (see Figure 6.1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].



Two imaginary lines on the device need to be established: the vertical centerline and the horizontal line. The test device is placed in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point" (See Fig. 6.3). The "test device reference point" is than located at the same level as the center of the ear reference point. The test device is positioned so that the "vertical centerline" is bisecting the front surface of the device at its top and bottom edges, positioning the "ear reference point" on the outer surface of both the left and right head phantoms on the ear reference point.



Handset Vertical Center & Horizontal Line Reference Points



Test Configuration – Positioning for Cheek/Touch

Position the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure below), such that the plane defined by the vertical center line and the horizontal line of the device is approximately parallel to the sagittal plane of the phantom



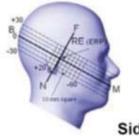
Front, Side and Top View of Cheek/Touch Position

Translate the device towards the phantom along the line passing through RE and LE until the device touches the ear.

While maintaining the device in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to MB-NF including the line MB (called the reference plane).

Rotate the device around the vertical centerline until the device (horizontal line) is symmetrical with respect to the line NF.

While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE and maintaining the device contact with the ear, rotate the device about the line NF until any point on the device is in contact with a phantom point below the ear (cheek). See Figure below.



Side view w/ relevant markings



Test Configuration – Positioning for Ear/15° Tilt

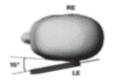
With the test device aligned in the Cheek/Touch Position":

1. While maintaining the orientation of the device, retracted the device parallel to the reference plane far enough to enable a rotation of the device by 15 degrees.

2. Rotate the device around the horizontal line by 15 degrees.







Front, Side and Top View of Ear/15' Tilt Position

3. While maintaining the orientation of the device, move the device parallel to the reference plane until any part of the device touches the head. (In this position, point A is located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, the angle of the device shall be reduced. The tilted position is obtained

when any part of the device is in contact with the ear as well as a second part of the device is in contact with the head (see Figure below).

Test Configuration – Body Worn Configuration

Body-worn operating configurations are tested with the accessories attached to the device and positioned against a flat phantom in a normal use configuration. A device with a headset output is tested with a headset connected to the device. Body dielectric parameters are used.

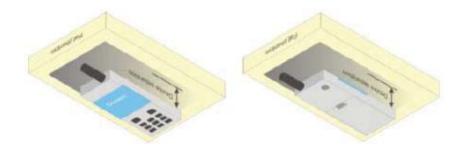
Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only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

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration where a separation distance between the back of the device and the flat phantom is used. All test position spacing are documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessory(ies), including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

In all cases SAR measurements are performed to investigate the worst-case positioning. Worst-case positioning is then documented and used to perform Body SAR testing.







Liquid Depth

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. 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. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in Table-3.1.

	1 1 1 1 1 2 1 3 1 3 1 3 2 0 2 1 2 2 2 3
Photo of Liquid Height for Head Position	Photo of Liquid Height for Body Position

The dielectric properties of the tissue simulating liquids are defined in IEC 62209-1 and IEC 62209-2. The dielectric properties of the tissue simulating liquids were verified prior to the SAR evaluation using a dielectric assessment kit and a network analyzer.

Target Frequency	Head		Bo	ody
MHz	εr	σ (S/m)	εr	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	53.19	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

Table-3.1 Targets of Tissue Simulating Liquid



The following table gives the recipes for tissue simulating liquids.

		l able-	3.2 Recipes	of Tissue S	imulating Lic	quid		
Tissue Type	Bactericide	DGBE	HEC	NaCl	Sucrose	Triton X-100	Water	Diethylene Glycol Mono- hexylether
H750	0.2	-	0.2	1.5	56.0	-	42.1	-
H835	0.2	-	0.2	1.5	57.0	-	41.1	-
H900	0.2	-	0.2	1.4	58.0	-	40.2	-
H1450	-	43.3	-	0.6	-	-	56.1	-
H1640	-	45.8	-	0.5	-	-	53.7	-
H1750	-	47.0	-	0.4	-	-	52.6	-
H1800	-	44.5	-	0.3	-	-	55.2	-
H1900	-	44.5	-	0.2	-	-	55.3	-
H2000	-	44.5	-	0.1	-	-	55.4	-
H2300	-	44.9	-	0.1	-	-	55.0	-
H2450	-	45.0	-	0.1	-	-	54.9	-
H2600	-	45.1	-	0.1	-	-	54.8	-
H3500	-	8.0	-	0.2	-	20.0	71.8	-
H5G	-	-	-	-	-	17.2	65.5	17.3

Table-3.2 Recipes of Tissue Simulating Liquid

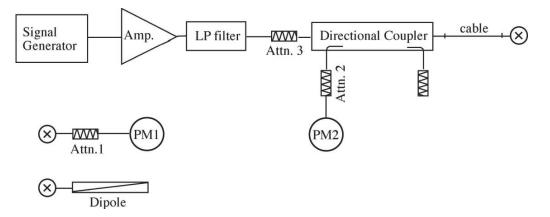


3.3 SAR System Verification

The relative permittivity and conductivity of the test liquid should be measured before the system verification and the measured liquid parameters must be entered in the DASY6 software. If the measured values differ from the target liquid parameters in the corresponding standards for testing compliance, the liquid composition should be adjusted. If the system verification is performed with slightly different (measured) liquid parameters, the expected SAR will also be different.

The reference dipole source must be placed beneath the flat phantom or the flat section of the SAM Twin Phantom with the correct distance spacer in place. The distance spacer should touch the phantom surface with a light pressure at the reference marking (little cross) and be oriented parallel to the long side of the phantom. Accurate positioning is not necessary, since the system will search for the peak SAR location, except that the dipole arms should be parallel to the surface. The device holder for mobile phones can be left in place but should be rotated away from the dipole.

The forward power into the reference dipole source at the SMA connector should be determined as accurately as possible. The following section describe the recommended setup to measure the dipole input power. The actual dipole input power level can be between 20mW and several watts. The result can later be normalized to any power level. It is strongly recommended to note the actual power level used; otherwise this crucial information for later reference is lost.



The figure shows the recommended setup. The PM1 (incl. Att1) measures the forward power at the end of the cable where the dipole would be connected. The signal generator is adjusted for the desired forward power at the dipole connector and the power meter PM2 is read at that level. After connecting the cable to the dipole, the signal generator is readjusted for the same reading at power meter PM2. If the signal generator does not allow a setting in 0.01dB steps, the remaining difference at PM2 must be noted and considered in the normalization of the system check results.



4.1 EUT Configuration and Setting

<Considerations Related to WLAN for Setup and Testing>

In general, various vendor specific external test software and chipset based internal test modes are typically used for SAR measurement. These chipset based test mode utilities are generally hardware and manufacturer dependent, and often include substantial flexibility to reconfigure or reprogram a device. A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement. The test frequencies established using test mode must correspond to the actual channel frequencies.

This device has installed WLAN engineering testing software which can provide continuous transmitting RF Signal. During WLAN SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.

<Considerations Related to Bluetooth for Setup and Testing>

This device has installed Bluetooth engineering testing software which can provide continuous transmitting RF signal. During Bluetooth SAR testing, this device was operated to transmit continuously at the maximum transmission duty with specified transmission mode, operating frequency, lowest data rate, and maximum output power.



4.2 EUT Testing Position

This variant report is made for verification. All the worst SAR configurations specified in the original SAR report was repeated and verified to ensure the device remains compliant.

According to technical standards, handsets are tested for SAR compliance in head and body-worn accessory described in the following

According handsets compliance accessory



subsections.

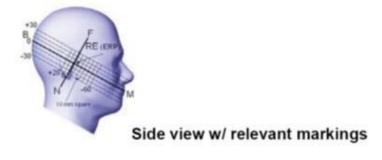
to technical standards, are tested for SAR in head, body-worn and other use configurations the following subsections.

described in Front, Side and Top View of Cheek/Touch Position

Since this tablet has receiver and it can be used in close proximity to the ear as handset. According to technical standards, this tablet is tested for SAR compliance in head described in the following subsections.

Test Configuration – Positioning for Cheek/Touch

Position the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure below), such that the plane defined by the vertical center line and the horizontal line of the device is approximately parallel to the sagittal plane of the phantom



Translate the device towards the phantom along the line passing through RE and LE until the device touches the ear.

While maintaining the device in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to MB-NF including the line MB (called the reference plane).

Rotate the device around the vertical centerline until the device (horizontal line) is symmetrical with respect to the line NF.

While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE and maintaining the device contact with the ear, rotate the device about the line NF until any point on the device is in contact with a phantom point below the ear (cheek). See Figure below.

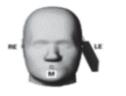


Test Configuration – Positioning for Ear/15° Tilt

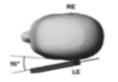
With the test device aligned in the Cheek/Touch Position":

1. While maintaining the orientation of the device, retracted the device parallel to the reference plane far enough to enable a rotation of the device by 15 degrees.

2. Rotate the device around the horizontal line by 15 degrees.







Front, Side and Top View of Ear/15' Tilt Position

3. While maintaining the orientation of the device, move the device parallel to the reference plane until any part of the device touches the head. (In this position, point A is located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna, the angle of the device shall be reduced. The tilted position is obtained

when any part of the device is in contact with the ear as well as a second part of the device is in contact with the head (see Figure below).

Test Configuration – Body Worn Configuration

Body-worn operating configurations are tested with the accessories attached to the device and positioned against a flat phantom in a normal use configuration. A device with a headset output is tested with a headset connected to the device. Body dielectric parameters are used.

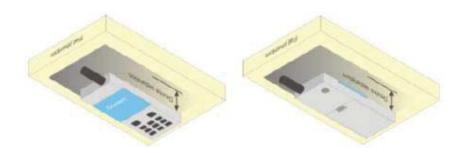
Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only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

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration where a separation distance between the back of the device and the flat phantom is used. All test position spacing are documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessory(ies), including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

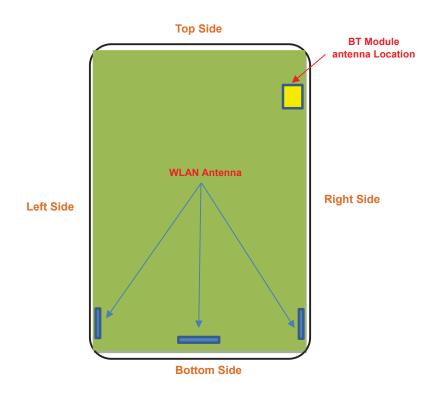
In all cases SAR measurements are performed to investigate the worst-case positioning. Worst-case positioning is then documented and used to perform Body SAR testing.







Antenna Location



The separation distance for antenna to edge:

Antenna	To Top Side (mm)	To Bottom Side (mm)	To Left Side (mm)	To Right Side (mm)	To Front Side (mm)	To Rear Side (mm)
WLAN	171	11	8	9	5	3
BT	45	150	90	15	10	40

Note: The antenna is detached from EUT.



For PC card setup, SAR evaluation was tested in one position. It is the bottom of laptop PC directly against the flat phantom. In this position, the air gap between the EUT and the phantom is 5 mm.

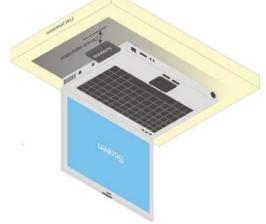


Fig-4.1 Illustration for Lap-touching Position

For USB dongle transmitter, SAR evaluation was tested for all USB orientations illustrated as below with a deviceto-phantom separation distance of 5 mm. Also, the tip of USB dongle was tested as well at the specified separation distance perpendicular to the phantom.

USB Orientation 1	USB Orientation 2	USB Orientation 3	USB Orientation 4
(Horizontal-Up)	(Horizontal-Down)	(Vertical-Front)	(Vertical-Back)

Fig-4.2 Illustration for USB Connector Orientations



4.2.1 Face Exposure Conditions

For two-way radio that is held at a distance from the face of the user when transmitting. The device under test shall be positioned at the distance to the phantom surface that corresponds to the intended use as specified by the manufacturer in the user instructions. If the intended use is not specified, a separation distance of 25 mm between the phantom surface and the device shall be used.

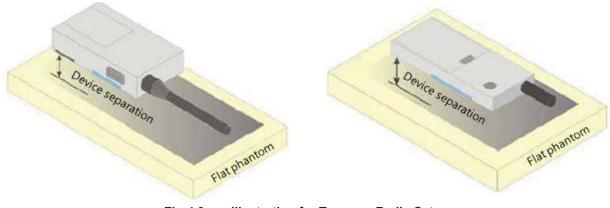


Fig-4.3 Illustration for Two-way Radio Setup

For wireless-enabled video camera that can send data to a network or other device, the device whose intended use requires a separation distance from the user (e.g., device with a viewing screen), this shall be positioned at the distance to the phantom surface that corresponds to the intended use as specified by the manufacturer in the user instructions. If the intended use is not specified, a separation distance of 25 mm between the phantom surface and the device shall be used. The device whose intended use requires the user's face to be in contact with the device (e.g., device with an optical viewfinder), this shall be placed directly against the phantom.

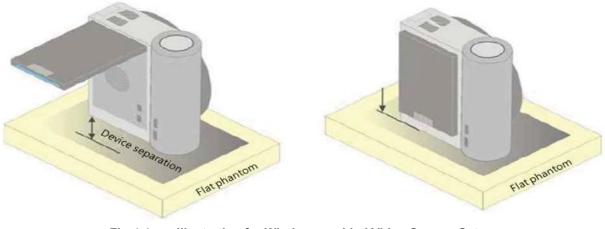


Fig-4.4 Illustration for Wireless-enabled Video Camera Setup

For wireless-enabled digital camera that can send data to a network or other device, the device whose intended use requires a separation distance from the user (e.g., device with a viewing screen), this shall be positioned at the distance to the phantom surface that corresponds to the intended use as specified by the manufacturer in the user instructions. If the intended use is not specified, a separation distance of 25 mm between the phantom surface and



the device shall be used. The device whose intended use requires the user's face to be in contact with the device (e.g., device with an optical viewfinder), this shall be placed directly against the phantom.

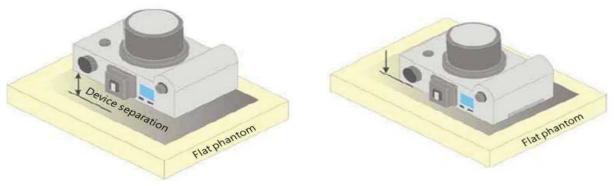
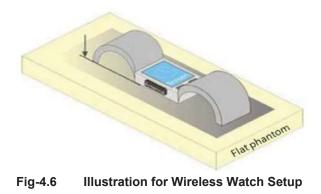


Fig-4.5 Illustration for Wireless-enabled Digital Camera Setup

4.2.2 Limbs Exposure Conditions

For wireless watch whose intended use includes being strapped to the arm or leg of the user while transmitting (except in idle mode), the strap shall be opened so that it is divided into two parts as shown in below. The device shall be positioned directly against the phantom surface with the strap straightened as much as possible and the back of the device towards the phantom. If the strap cannot normally be opened to allow placing in direct contact with the phantom surface, it may be necessary to break the strap of the device but ensuring to not damage the antenna.





4.3 Tissue Verification

Tissue Type	Frequency (MHz)	Liquid Temp. (°C)	Measured Conductivity (σ)	Measured Permittivity (ε _r)	Target Conductivity (σ)	Target Permittivity (ε _r)	Conductivity Deviation (%)	Permittivity Deviation (%)	Test Date
Body	2450	23	2.01	53.1	1.99	51.5	0.8	3.1	09/10/2019
Body	5250	23	5.39	48.2	5.36	49.0	0.6	-1.6	09/10/2019
Body	5600	23	5.89	47.5	5.76	48.5	2.2	-2.0	09/10/2019
Body	5750	23	6.11	47/2	5.94	48.3	2.9	-2.2	09/10/2019

The measuring results for tissue simulating liquid are shown as below.

Note:

1. The dielectric properties of the tissue simulating liquid must be measured within 24 hours before the SAR testing and within $\pm 5\%$ of the target values. Liquid temperature during the SAR testing must be within ± 2 °C.

2. Since the maximum deviation of dielectric properties of the tissue simulating liquid is within 5%, SAR correction is evaluated in the measurement uncertainty shown on section 6 of this report.

4.4 System Verification

The measuring results for system check are shown as below.

Test Date	Frequency (MHz)	1W Target SAR-1g (W/kg)	Measured SAR-1g (W/kg)	Normalized to 1W SAR-1g (W/kg)	Deviation (%)
09/10/2019	2450	51.4	5.06	50.6	-1.56
09/10/2019	5250	76.4	7.53	75.3	-1.44
09/10/2019	5600	78.5	7.78	77.8	-0.89
09/10/2019	5750	74.8	7.39	73.9	-1.20

Note:

Comparing to the reference SAR value provided by SPEAG, the validation data should be within its specification of 10 %. The result indicates the system check can meet the variation criterion and the plots can be referred to Appendix A of this report.



4.5 Maximum Output Power

4.5.1 Measured Conducted Power Result

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below. **BT&BLE**

Туре	Test mode	Freq (MHz)	СН	Power (dBm)
		2402	Low	7.51
	BDR	2441	Mid	7.48
		2480	High	7.20
	EDR	2402	Low	6.92
Output Power		2441	Mid	7.02
		2480	High	7.11
		2412	Low	7.23
	BLE	2437	Mid	7.66
		2462	High	7.35

WLAN_2.4G

Туре	Test mode	Freq (MHz)	СН	Power (dBm)
		2412	Low	16.76
	802.11b	2437	Mid	16.82
		2462	High	16.75
	802.11g	2412	Low	16.83
		2437	Mid	16.56
		2462	High	16.84
Output Power	802.11n-20M	2412	Low	16.77
		2437	Mid	16.78
		2462	High	16.74
		2422	Low	16.77
	802.11n-40M	2437	Mid	16.82
		2452	High	16.88



WLAN_5G

Туре	Test mode	Freq (MHz)	СН	Power (dBm)
		5180	Low	14.65
		5200	Mid	14.89
		5240	High	14.51
		5260	Low	14.67
		5280	Mid	14.75
	000.44	5320	High	14.88
	802.11a	5500	Low	14.92
		5580	Mid	14.65
		5700	High	14.84
		5745	Low	14.81
		5785	Mid	14.66
		5825	High	14.87
		5180	Low	13.77
		5200	Mid	13.81
	802.11n-20M	5240	High	13.79
		5260	Low	13.88
		5280	Mid	13.66
		5320	High	13.71
		5500	Low	13.81
Output Power		5580	Mid	13.59
		5700	High	13.92
		5745	Low	13.76
		5785	Mid	13.87
		5825	High	13.88
Γ		5190	Low	12.76
		5230	High	12.98
		5270	Low	12.65
		5310	High	12.67
	802.11n-40M	5510	Low	12.68
		5550	Mid	12.98
		5670	High	12.67
		5755	Low	12.88
		5795	High	12.79
Γ		5210	Low	12.77
		5290	High	12.69
	802.11ac-80M	5530	Low	12.92
		5610	High	12.77
		5775	Mid	12.84



Note:

- 1. SAR testing was performed on the maximum frame-averaged power mode.
- The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8)



4.6 SAR Testing Results

4.6.1 SAR Results for Body Exposure Condition (Separation Distance is 0 mm Gap) WLAN 2.4G

	WLAN_2	.40								
Freq Band	Freq (MHz)	Position	Distance	Rated Max Power (dBm)	Measured Output Power (dBm)	Raw SAR 1g(W/kg)	Crest factor	Power Drift (dB)	Scaled SAR (Tune-up & Duty Cycle) (W/kg)	1g SAR Limit (W/kg)
	2412	Left side	0mm	17	16.76	0.019	1	0.16	0.020	1.6
802.11-b	2437	Left side	0mm	17	16.82	0.021	1	0	0.022	1.6
	2462	Left side	0mm	17	16.75	0.022	1	0.21	0.023	1.6
	2412	Left side	0mm	17	16.83	0.02	1	0	0.021	1.6
802.11-g	2437	Left side	0mm	17	16.56	0.02	1	0	0.022	1.6
	2462	Left side	0mm	17	16.84	0.053	1	0	0.055	1.6
	2412	Left side	0mm	17	16.77	0.02	1	0.53	0.021	1.6
802.11-n	2437	Left side	0mm	17	16.78	0.019	1	0	0.020	1.6
	2462	Left side	0mm	17	16.74	0.02	1	0	0.021	1.6
	2422	Left side	0mm	17	16.77	0.02	1	0	0.021	1.6
802.11- n40	2437	Left side	0mm	17	16.82	0.02	1	0	0.021	1.6
	2452	Left side	0mm	17	16.88	0.021	1	0	0.021	1.6
	2412	Right side	0mm	17	16.76	0.019	1	0	0.020	1.6
802.11-b	2437	Right side	0mm	17	16.82	0.017	1	0	0.018	1.6
	2462	Right side	0mm	17	16.75	0.018	1	0	0.019	1.6
	2412	Right side	0mm	17	16.83	0.017	1	0.13	0.018	1.6
802.11-g	2437	Right side	0mm	17	16.56	0.017	1	0	0.019	1.6
	2462	Right side	0mm	17	16.84	0.018	1	0.16	0.019	1.6
	2412	Right side	0mm	17	16.77	0.017	1	0	0.018	1.6
802.11-n	2437	Right side	0mm	17	16.78	0.017	1	0	0.018	1.6
	2462	Right side	0mm	17	16.74	0.018	1	0	0.019	1.6
	2422	Right side	0mm	17	16.77	0.018	1	0	0.019	1.6
802.11- n40	2437	Right side	0mm	17	16.82	0.019	1	0	0.020	1.6
-	2452	Right side	0mm	17	16.88	0.017	1	0	0.017	1.6



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Freq Band	Freq (MHz)	Position	Distance	Rated Max Power (dBm)	Measured Output Power (dBm)	Raw SAR 1g(W/kg)	Crest factor	Power Drift (dB)	Scaled SAR (Tune-up & Duty Cycle) (W/kg)	1g SAR Limit (W/kg)
	2412	Front side	0mm	17	16.76	0.008	1	0	0.008	1.6
802.11-b	2437	Front side	0mm	17	16.82	0.01	1	0.2	0.010	1.6
	2462	Front side	0mm	17	16.75	0.005	1	0	0.005	1.6
	2412	Front side	0mm	17	16.83	0.008	1	0	0.008	1.6
802.11-g	2437	Front side	0mm	17	16.56	0.007	1	0	0.008	1.6
	2462	Front side	0mm	17	16.84	0.009	1	0	0.009	1.6
	2412	Front side	0mm	17	16.77	0.007	1	0	0.007	1.6
802.11-n	2437	Front side	0mm	17	16.78	0.006	1	0	0.006	1.6
	2462	Front side	0mm	17	16.74	0.008	1	0	0.008	1.6
	2422	Front side	0mm	17	16.77	0.007	1	0	0.007	1.6
802.11- n40	2437	Front side	0mm	17	16.82	0.008	1	0	0.008	1.6
	2452	Front side	0mm	17	16.88	0.009	1	0	0.009	1.6
	2412	Back side	0mm	17	16.76	0.009	1	1.15	0.010	1.6
802.11-b	2437	Back side	0mm	17	16.82	0.01	1	0	0.010	1.6
	2462	Back side	0mm	17	16.75	0.01	1	0	0.011	1.6
	2412	Back side	0mm	17	16.83	0.008	1	0	0.008	1.6
802.11-g	2437	Back side	0mm	17	16.56	0.009	1	0	0.010	1.6
	2462	Back side	0mm	17	16.84	0.009	1	0	0.009	1.6
	2412	Back side	0mm	17	16.77	0.008	1	0	0.008	1.6
802.11-n	2437	Back side	0mm	17	16.78	0.008	1	0	0.008	1.6
	2462	Back side	0mm	17	16.74	0.008	1	0.28	0.008	1.6
	2422	Back side	0mm	17	16.77	0.008	1	0	0.008	1.6
802.11- n40	2437	Back side	0mm	17	16.82	0.009	1	0.32	0.009	1.6
	2452	Back side	0mm	17	16.88	0.009	1	0.21	0.009	1.6



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Freq Band	Freq (MHz)	Position	Distance	Rated Max Power (dBm)	Measured Output Power (dBm)	Raw SAR 1g(W/kg)	Crest factor	Power Drift (dB)	Scaled SAR (Tune-up & Duty Cycle) (W/kg)	1g SAR Limit (W/kg)
	2412	Bottom side	0mm	17	16.76	0.033	1	0	0.035	1.6
802.11-b	2437	Bottom side	0mm	17	16.82	0.033	1	0	0.034	1.6
	2462	Bottom side	0mm	17	16.75	0.035	1	0.02	0.037	1.6
	2412	Bottom side	0mm	17	16.83	0.034	1	0.01	0.035	1.6
802.11-g	2437	Bottom side	0mm	17	16.56	0.034	1	0.01	0.038	1.6
	2462	Bottom side	0mm	17	16.84	0.035	1	0.14	0.036	1.6
	2412	Bottom side	0mm	17	16.77	0.033	1	0	0.035	1.6
802.11-n	2437	Bottom side	0mm	17	16.78	0.034	1	0	0.036	1.6
	2462	Bottom side	0mm	17	16.74	0.035	1	0	0.037	1.6
	2422	Bottom side	0mm	17	16.77	0.033	1	0	0.035	1.6
802.11- n40	2437	Bottom side	0mm	17	16.82	0.035	1	0.04	0.036	1.6
	2452	Bottom side	0mm	17	16.88	0.035	1	0	0.036	1.6



WLAN_5G

Freq Band	Freq (MHz)	Position	Distance	Rated Max Power (dBm)	Measured Output Power (dBm)	Raw SAR 1g(W/kg)	Crest factor	Power Drift (dB)	Scaled SAR (Tune- up & Duty Cycle) (W/kg)	1g SAR Limit (W/kg)
	5180	Left side	0mm	15	14.65	0.725	1	0	0.786	1.6
	5200	Left side	0mm	15	14.89	0.725	1	0	0.744	1.6
	5240	Left side	0mm	15	14.51	0.742	1	0	0.831	1.6
	5260	Left side	0mm	15	14.67	0.748	1	0	0.807	1.6
	5280	Left side	0mm	15	14.75	0.763	1	0	0.808	1.6
802.11a	5320	Left side	0mm	15	14.88	0.765	1	0	0.786	1.6
002.11a	5500	Left side	0mm	15	14.92	0.918	1	0	0.935	1.6
	5580	Left side	0mm	15	14.65	0.869	1	0	0.942	1.6
	5700	Left side	0mm	15	14.84	0.872	1	0	0.905	1.6
	5745	Left side	0mm	15	14.81	0.267	1	0	0.279	1.6
	5785	Left side	0mm	15	14.66	0.288	1	0	0.311	1.6
	5825	Left side	0mm	15	14.87	0.926	1	0	0.954	1.6
	5180	Left side	0mm	14	13.77	0.839	1	0	0.885	1.6
	5200	Left side	0mm	14	13.81	0.728	1	0	0.761	1.6
	5240	Left side	0mm	14	13.79	0.742	1	0	0.779	1.6
	5260	Left side	0mm	14	13.88	0.778	1	0	0.800	1.6
	5280	Left side	0mm	14	13.66	0.774	1	0	0.837	1.6
000.44	5320	Left side	0mm	14	13.71	0.802	1	0	0.857	1.6
802.11n	5500	Left side	0mm	14	13.81	0.815	1	0	0.851	1.6
	5580	Left side	0mm	14	13.59	0.865	1	0	0.951	1.6
	5700	Left side	0mm	14	13.92	0.849	1	0	0.865	1.6
	5745	Left side	0mm	14	13.76	0.849	1	0	0.897	1.6
	5785	Left side	0mm	14	13.87	0.821	1	0	0.846	1.6
	5825	Left side	0mm	14	13.88	0.842	1	0	0.866	1.6
	5190	Left side	0mm	13	12.76	0.655	1	0	0.692	1.6
	5230	Left side	0mm	13	12.98	0.66	1	0	0.663	1.6
	5270	Left side	0mm	13	12.65	0.712	1	0	0.772	1.6
	5310	Left side	0mm	13	12.67	0.702	1	0	0.757	1.6
802.11n- HT40	5510	Left side	0mm	13	12.68	0.838	1	0.01	0.902	1.6
	5550	Left side	0mm	13	12.98	0.898	1	0	0.902	1.6
	5670	Left side	0mm	13	12.67	0.913	1	0.05	0.985	1.6
	5755	Left side	0mm	13	12.88	0.911	1	0	0.937	1.6
	5795	Left side	0mm	13	12.79	0.883	1	0	0.927	1.6
	5210	Left side	0mm	13	12.77	0.778	1	0	0.820	1.6
	5290	Left side	0mm	13	12.69	0.774	1	0	0.831	1.6
802.11ac- VHT80	5530	Left side	0mm	13	12.92	0.748	1	0	0.762	1.6
	5610	Left side	0mm	13	12.77	0.868	1	0	0.915	1.6
	5775	Left side	0mm	13	12.84	0.911	1	0	0.945	1.6

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Freq Band	Freq (MHz)	Position	Distance	Rated Max Power (dBm)	Measured Output Power (dBm)	Raw SAR 1g(W/kg)	Crest factor	Power Drift (dB)	Scaled SAR (Tune- up & Duty Cycle) (W/kg)	1g SAR Limit (W/kg)
	5180	Right side	0mm	15	14.65	0.608	1	0.05	0.659	1.6
	5200	Right side	0mm	15	14.89	0.616	1	0	0.632	1.6
	5240	Right side	0mm	15	14.51	0.636	1	0.01	0.712	1.6
	5260	Right side	0mm	15	14.67	0.639	1	0	0.689	1.6
	5280	Right side	0mm	15	14.75	0.643	1	0.04	0.681	1.6
902.11-	5320	Right side	0mm	15	14.88	0.661	1	0.02	0.680	1.6
802.11a	5500	Right side	0mm	15	14.92	0.781	1	0	0.796	1.6
	5580	Right side	0mm	15	14.65	0.823	1	0	0.892	1.6
	5700	Right side	0mm	15	14.84	0.809	1	0.02	0.839	1.6
	5745	Right side	0mm	15	14.81	0.841	1	0	0.879	1.6
	5785	Right side	0mm	15	14.66	0.857	1	0	0.927	1.6
	5825	Right side	0mm	15	14.87	0.879	1	0	0.906	1.6
	5180	Right side	0mm	14	13.77	0.614	1	0.01	0.647	1.6
	5200	Right side	0mm	14	13.81	0.63	1	0.02	0.658	1.6
	5240	Right side	0mm	14	13.79	0.643	1	0.01	0.675	1.6
	5260	Right side	0mm	14	13.88	0.662	1	0	0.681	1.6
	5280	Right side	0mm	14	13.66	0.788	1	0	0.852	1.6
	5320	Right side	0mm	14	13.71	0.814	1	0	0.870	1.6
802.11n	5500	Right side	0mm	14	13.81	0.781	1	0.01	0.816	1.6
	5580	Right side	0mm	14	13.59	0.823	1	0	0.904	1.6
	5700	Right side	0mm	14	13.92	0.809	1	0.02	0.824	1.6
	5745	Right side	0mm	14	13.76	0.814	1	0	0.860	1.6
	5785	Right side	0mm	14	13.87	0.867	1	0	0.893	1.6
	5825	Right side	0mm	14	13.88	0.889	1	0	0.914	1.6
	5190	Right side	0mm	13	12.76	0.612	1	0.03	0.647	1.6
	5230	Right side	0mm	13	12.98	0.629	1	0	0.632	1.6
	5270	Right side	0mm	13	12.65	0.798	1	0	0.865	1.6
	5310	Right side	0mm	13	12.67	0.662	1	0	0.714	1.6
802.11n- HT40	5510	Right side	0mm	13	12.68	0.787	1	0	0.847	1.6
H140	5550	Right side	0mm	13	12.98	0.812	1	0	0.816	1.6
	5670	Right side	0mm	13	12.67	0.839	1	0	0.905	1.6
	5755	Right side	0mm	13	12.88	0.821	1	0.02	0.844	1.6
	5795	Right side	0mm	13	12.79	0.809	1	0	0.849	1.6
	5210	Right side	0mm	13	12.77	0.842	1	0	0.888	1.6
	5290	Right side	0mm	13	12.69	0.833	1	0	0.895	1.6
802.11ac-	5530	Right side	0mm	13	12.92	0.798	1	0	0.813	1.6
VHT80	5610	Right side	0mm	13	12.77	0.788	1	0	0.831	1.6
	5775	Right side	0mm	13	12.84	0.774	1	0	0.803	1.6
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Freq Band	Freq (MHz)	Position	Distance	Rated Max Power (dBm)	Measured Output Power (dBm)	Raw SAR 1g(W/kg)	Crest factor	Power Drift (dB)	Scaled SAR (Tune- up & Duty Cycle) (W/kg)	1g SAR Limit (W/kg)
	5180	Front side	0mm	15	14.65	0.032	1	0.92	0.035	1.6
	5200	Front side	0mm	15	14.89	0.038	1	0.05	0.039	1.6
	5240	Front side	0mm	15	14.51	0.033	1	0	0.037	1.6
	5260	Front side	0mm	15	14.67	0.036	1	0	0.039	1.6
	5280	Front side	0mm	15	14.75	0.034	1	1.14	0.036	1.6
000 11-	5320	Front side	0mm	15	14.88	0.036	1	0	0.037	1.6
802.11a	5500	Front side	0mm	15	14.92	0.041	1	0.78	0.042	1.6
	5580	Front side	0mm	15	14.65	0.043	1	0	0.047	1.6
	5700	Front side	0mm	15	14.84	0.043	1	1.18	0.045	1.6
	5745	Front side	0mm	15	14.81	0.043	1	0	0.045	1.6
	5785	Front side	0mm	15	14.66	0.043	1	0	0.047	1.6
	5825	Front side	0mm	15	14.87	0.047	1	1.11	0.048	1.6
	5180	Front side	0mm	14	13.77	0.04	1	0	0.042	1.6
	5200	Front side	0mm	14	13.81	0.044	1	0.99	0.046	1.6
	5240	Front side	0mm	14	13.79	0.042	1	0	0.044	1.6
	5260	Front side	0mm	14	13.88	0.048	1	0	0.049	1.6
	5280	Front side	0mm	14	13.66	0.044	1	0	0.048	1.6
	5320	Front side	0mm	14	13.71	0.041	1	0	0.044	1.6
802.11n	5500	Front side	0mm	14	13.81	0.039	1	0.11	0.041	1.6
	5580	Front side	0mm	14	13.59	0.04	1	0	0.044	1.6
	5700	Front side	0mm	14	13.92	0.041	1	0	0.042	1.6
	5745	Front side	0mm	14	13.76	0.049	1	0	0.052	1.6
	5785	Front side	0mm	14	13.87	0.04	1	1.18	0.041	1.6
	5825	Front side	0mm	14	13.88	0.043	1	0	0.044	1.6
	5190	Front side	0mm	13	12.76	0.047	1	0	0.050	1.6
	5230	Front side	0mm	13	12.98	0.049	1	0	0.049	1.6
	5270	Front side	0mm	13	12.65	0.048	1	0	0.052	1.6
	5310	Front side	0mm	13	12.67	0.048	1	0	0.052	1.6
802.11n- HT40	5510	Front side	0mm	13	12.68	0.039	1	0	0.042	1.6
	5550	Front side	0mm	13	12.98	0.043	1	1.22	0.043	1.6
	5670	Front side	0mm	13	12.67	0.045	1	0	0.049	1.6
	5755	Front side	0mm	13	12.88	0.045	1	0	0.046	1.6
	5795	Front side	0mm	13	12.79	0.047	1	0	0.049	1.6
	5210	Front side	0mm	13	12.77	0.048	1	0	0.051	1.6
	5290	Front side	0mm	13	12.69	0.045	1	0	0.048	1.6
802.11ac- VHT80	5530	Front side	0mm	13	12.92	0.038	1	0	0.039	1.6
	5610	Front side	0mm	13	12.77	0.039	1	0	0.041	1.6
	5775	Front side	0mm	13	12.84	0.042	1	0	0.044	1.6

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Freq Band	Freq (MHz)	Position	Distance	Rated Max Power (dBm)	Measured Output Power (dBm)	Raw SAR 1g(W/kg)	Crest factor	Power Drift (dB)	Scaled SAR (Tune- up & Duty Cycle) (W/kg)	1g SAR Limit (W/kg)
	5180	Back side	0mm	15	14.65	0.032	1	0	0.035	1.6
	5200	Back side	0mm	15	14.89	0.036	1	0	0.037	1.6
	5240	Back side	0mm	15	14.51	0.034	1	0	0.038	1.6
	5260	Back side	0mm	15	14.67	0.034	1	2.07	0.037	1.6
	5280	Back side	0mm	15	14.75	0.033	1	0.19	0.035	1.6
000 44 -	5320	Back side	0mm	15	14.88	0.036	1	0	0.037	1.6
802.11a	5500	Back side	0mm	15	14.92	0.041	1	0	0.042	1.6
	5580	Back side	0mm	15	14.65	0.042	1	0	0.046	1.6
	5700	Back side	0mm	15	14.84	0.043	1	0	0.045	1.6
	5745	Back side	0mm	15	14.81	0.044	1	0.66	0.046	1.6
	5785	Back side	0mm	15	14.66	0.046	1	0	0.050	1.6
	5825	Back side	0mm	15	14.87	0.044	1	0	0.045	1.6
	5180	Back side	0mm	14	13.77	0.043	1	0	0.045	1.6
	5200	Back side	0mm	14	13.81	0.046	1	0	0.048	1.6
	5240	Back side	0mm	14	13.79	0.043	1	0	0.045	1.6
	5260	Back side	0mm	14	13.88	0.044	1	0	0.045	1.6
	5280	Back side	0mm	14	13.66	0.043	1	0	0.047	1.6
	5320	Back side	0mm	14	13.71	0.044	1	0	0.047	1.6
802.11n	5500	Back side	0mm	14	13.81	0.044	1	0	0.046	1.6
	5580	Back side	0mm	14	13.59	0.041	1	0	0.045	1.6
	5700	Back side	0mm	14	13.92	0.044	1	0	0.045	1.6
	5745	Back side	0mm	14	13.76	0.045	1	0	0.048	1.6
	5785	Back side	0mm	14	13.87	0.041	1	0	0.042	1.6
	5825	Back side	0mm	14	13.88	0.048	1	0	0.049	1.6
	5190	Back side	0mm	13	12.76	0.047	1	0	0.050	1.6
	5230	Back side	0mm	13	12.98	0.046	1	0	0.046	1.6
	5270	Back side	0mm	13	12.65	0.046	1	0	0.050	1.6
	5310	Back side	0mm	13	12.67	0.043	1	0	0.046	1.6
802.11n- HT40	5510	Back side	0mm	13	12.68	0.048	1	0	0.052	1.6
H140 .	5550	Back side	0mm	13	12.98	0.041	1	0	0.041	1.6
	5670	Back side	0mm	13	12.67	0.046	1	0	0.050	1.6
	5755	Back side	0mm	13	12.88	0.049	1	0	0.050	1.6
	5795	Back side	0mm	13	12.79	0.041	1	0	0.043	1.6
	5210	Back side	0mm	13	12.77	0.043	1	0	0.045	1.6
	5290	Back side	0mm	13	12.69	0.042	1	0	0.045	1.6
802.11ac-	5530	Back side	0mm	13	12.92	0.043	1	0	0.044	1.6
VHT80	5610	Back side	0mm	13	12.77	0.046	1	0	0.049	1.6
	5775	Back side	0mm	13	12.84	0.043	1	0	0.045	1.6

										BUREAU VERITAS
Freq Band	Freq (MHz)	Position	Dist ance	Rated Max Power (dBm)	Measured Output Power (dBm)	Raw SAR 1g(W/kg)	Crest factor	Power Drift (dB)	Scaled SAR (Tune- up & Duty Cycle) (W/kg)	1g SAR Limit (W/kg)
	5180	Bottom side	0mm	15	14.65	0.148	1	0.01	0.160	1.6
	5200	Bottom side	0mm	15	14.89	0.148	1	0	0.152	1.6
	5240	Bottom side	0mm	15	14.51	0.149	1	0.17	0.167	1.6
	5260	Bottom side	0mm	15	14.67	0.154	1	0.28	0.166	1.6
	5280	Bottom side	0mm	15	14.75	0.158	1	2.3	0.167	1.6
000.44	5320	Bottom side	0mm	15	14.88	0.152	1	0.17	0.156	1.6
802.11a	5500	Bottom side	0mm	15	14.92	0.175	1	0.1	0.178	1.6
	5580	Bottom side	0mm	15	14.65	0.204	1	0	0.221	1.6
	5700	Bottom side	0mm	15	14.84	0.202	1	0	0.210	1.6
	5745	Bottom side	0mm	15	14.81	0.215	1	0	0.225	1.6
	5785	Bottom side	0mm	15	14.66	0.205	1	0	0.222	1.6
	5825	Bottom side	0mm	15	14.87	0.174	1	0.04	0.179	1.6
	5180	Bottom side	0mm	14	13.77	0.158	1	0	0.167	1.6
	5200	Bottom side	0mm	14	13.81	0.177	1	0	0.185	1.6
	5240	Bottom side	0mm	14	13.79	0.199	1	0	0.209	1.6
	5260	Bottom side	0mm	14	13.88	0.188	1	0	0.193	1.6
	5280	Bottom side	0mm	14	13.66	0.181	1	0	0.196	1.6
	5320	Bottom side	0mm	14	13.71	0.187	1	0	0.200	1.6
802.11n	5500	Bottom side	0mm	14	13.81	0.201	1	0	0.210	1.6
	5580	Bottom side	0mm	14	13.59	0.21	1	0.18	0.231	1.6
	5700	Bottom side	0mm	14	13.92	0.195	1	0	0.199	1.6
	5745	Bottom side	0mm	14	13.76	0.202	1	0	0.213	1.6
	5785	Bottom side	0mm	14	13.87	0.205	1	0	0.211	1.6
	5825	Bottom side	0mm	14	13.88	0.198	1	0	0.204	1.6
	5190	Bottom side	0mm	13	12.76	0.178	1	0	0.188	1.6
	5230	Bottom side	0mm	13	12.98	0.125	1	0	0.126	1.6
	5270	Bottom side	0mm	13	12.65	0.130	1	0	0.141	1.6
	5310	Bottom side	0mm	13	12.67	0.132	1	0	0.142	1.6
802.11n- HT40	5510	Bottom side	0mm	13	12.68	0.195	1	0.28	0.210	1.6
	5550	Bottom side	0mm	13	12.98	0.211	1	0.07	0.212	1.6
	5670	Bottom side	0mm	13	12.67	0.174	1	0.07	0.188	1.6
	5755	Bottom side	0mm	13	12.88	0.168	1	0	0.173	1.6
	5795	Bottom side	0mm	13	12.79	0.178	1	0	0.187	1.6
	5210	Bottom side	0mm	13	12.77	0.157	1	0	0.166	1.6
802.11a	5290	Bottom side	0mm	13	12.69	0.158	1	0	0.170	1.6
C-	5530	Bottom side	0mm	13	12.92	0.202	1	0	0.206	1.6
VHT80	5610	Bottom side	0mm	13	12.77	0.202	1	0	0.213	1.6
	5775	Bottom side	0mm	13	12.84	0.203	1	0	0.211	1.6



Note: SAR testing was performed on the maximum power mode. No hotspot detected for Bluetooth BDR/EDR and Low energy.

Test Engineer : Deon Dai



4. Calibration of Test Equipment

Equipment	Model	SN	Cal. Date	Cal. Interval
PC	Dell-U2417H	CN-OXVNNT- WS200-7AE-	N/A	N/A
		AONW-AO5		
MXG Vector Signal Generator	N5182A	MY47071065	06/28/2019	1 Year
Digital Thermometer	DTM3000	1259033	N/A	N/A
S-Parameter Network Analyzer	8753ES	US38161019	11/10/2018	1 Year
Data Acquisition Electronics (DAE)	DAE4	1522	02/11/2019	1 Year
E-field PROBE	EX3DV4	7525	08/21/2019	1 Year
Mother Scan Teaching PROBE	TP6V2	N/A	08/21/2019	1 Year
Dielectric parameter probes	DAK3.5 probe	1261	08/22/2019	1 Year
Dipole antenna	D600V3	10006	10/02/2018	1 Year
Light Beam Unit	LB5/80	1037	N/A	N/A
Modulation and Interference Analyzer	MAIA	1313	N/A	N/A
Omni-Directional Ultra-Wideband		1116	N/A	N/A
Antenna	ANT	1110	IN/A	N/A
DUMMY PROBE	None	SN 31/10	N/A	N/A
SAM-TWIN PHANTOM	Twin-SAM V8.0	1929	N/A	N/A
ELI Phantom	ELI V8.0	2071	N/A	N/A
PHANTOM TABLE	N/A	N/A	N/A	N/A
6 AXIS ROBOT	Staubuli Tx 60 L	N/A	N/A	N/A



5. Information of the Testing Laboratories

Bureau Veritas is a global leader in testing, inspection and certification (TIC) services. We help businesses improve safety, sustainability and productivity; and our clients include the majority of leading brands in retail, manufacturing and other industries. With a presence in every major country around the world, our quality assurance and compliance solutions are vital in helping our customers enhance product quality and concept-to-consumer journeys. We also assist with increasing speed to market, profitability and brand equity throughout the supply chain. Bureau Veritas is a leading wireless/IoT testing, inspection, audit and certification provider, with a global network of test laboratories to support the IoT industry in areas of connectivity, security, interoperability as well as quality, health & safety, and environmental/chemical requirements.

If you have any comments, please feel free to contact us at the following:

Milpitas EMC/RF/Safety/Telecom Lab 775 Montague Expressway, Milpitas, CA 95035 Tel: +1 408 526 1188	Sunnyvale OTA/Bluetooth Lab 1293 Anvilwood Avenue, Sunnyvale, CA 94089 Tel: +1 669 600 5293
Littleton EMC/RF/Safety/Environmental Lab 1 Distribution Center Cir #1, Littleton, MA 01460 Tel: +1 978 486 8880	Irvine OTA/PTCRB/Bluetooth/V2X Lab 15 Musick, Irvine, CA 92618 Tel: +1 949 716 6512
Email: sales.eaw@us.bureauveritas.com	

Web Site: www.cpsusa-bureauveritas.com

The address and road map of all our labs can be found in our web site also.

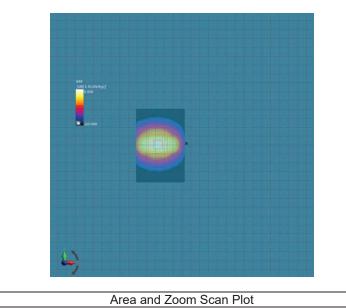


Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

Test specification:	System Verification	System Verification						
	Temp(oC):	23						
Environ Conditions:	Humidity (%):	44						
	Atmospheric(mPa):	1017	- Result:	Pass				
Mains Power:	N/A		Result.	Pass				
Test Date:	09/10/2019							
Tested by:	Deon Dai							
Remarks:	System Validation, dipole, CW signal, duty cycle =1							

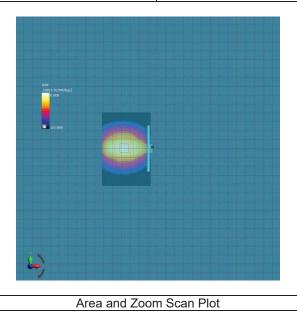
Frequency (MHz)	2450	
Relative Permittivity (real part)	50.8	
Conductivity (S/m)	1.98	
Probe SN	EX3DV4 - SN7469	
DAE SN	DAE4 Sn1522	
Conversion Factor (dB)	8.5	
Area Scan Resolution (mm)	14.0 x 14.0	
Zoom Scan Resolution (mm)	6.0 x 6.0 x 6.0	
Zoom Scan Size (mm)	30.0 x 30.0 x 30.0	
Power Drift (dB)	1.12	
SAR 1g (W/Kg)	5.06	





Test specification:	System Verification			
Environ Conditions:	Temp(oC):	23		Dees
	Humidity (%):	44		
	Atmospheric(mPa):	1017	Result:	
Mains Power:	N/A		Result.	Pass
Test Date:	09/10/2019			
Tested by:	Deon Dai			
Remarks:	System Validation, dipole, CW signal, duty cycle =1			

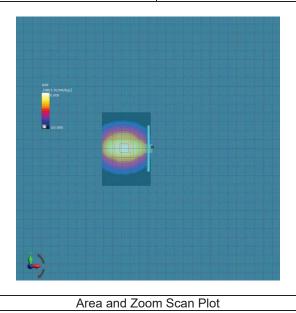
Frequency (MHz)	5250
Relative Permittivity (real part)	48.90
Conductivity (S/m)	5.36
Probe SN	EX3DV4 - SN7469
DAE SN	DAE4 Sn1522
Conversion Factor (dB)	5.41
Area Scan Resolution (mm)	10.0 x 10.0
Zoom Scan Resolution (mm)	4.0 x 4.0 x 1.4
Zoom Scan Size (mm)	22.0 x 22.0 x 22.0
Power Drift (dB)	1.01
SAR 1g (W/Kg)	7.53





Test specification:	System Verification			
Environ Conditions:	Temp(oC):	23		Dees
	Humidity (%):	44		
	Atmospheric(mPa):	1017	Booult	
Mains Power:	N/A		Result:	Pass
Test Date:	09/10/2019			
Tested by:	Deon Dai			
Remarks:	System Validation, dipole, CW signal, duty cycle =1			

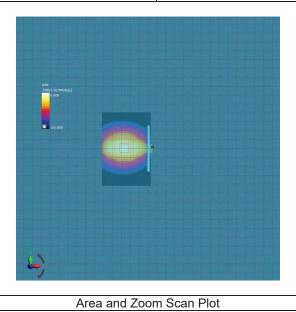
Frequency (MHz)	5600
Relative Permittivity (real part)	48.5
Conductivity (S/m)	1.98
Probe SN	EX3DV4 - SN7469
DAE SN	DAE4 Sn1522
Conversion Factor (dB)	5.41
Area Scan Resolution (mm)	10.0 x 10.0
Zoom Scan Resolution (mm)	4.0 x 4.0 x 1.4
Zoom Scan Size (mm)	22.0 x 22.0 x 22.0
Power Drift (dB)	1.13
SAR 1g (W/Kg)	7.78





Test specification:	System Verification			
Environ Conditions:	Temp(oC):	23		Dees
	Humidity (%):	44		
	Atmospheric(mPa):	1017	Result:	
Mains Power:	N/A		Result.	Pass
Test Date:	09/10/2019			
Tested by:	Deon Dai			
Remarks:	System Validation, dipole, CW signal, duty cycle =1			

Frequency (MHz)	5750	
Relative Permittivity (real part)	50.8	
Conductivity (S/m)	1.98	
Probe SN	EX3DV4 - SN7469	
DAE SN	DAE4 Sn1522	
Conversion Factor (dB)	5.41	
Area Scan Resolution (mm)	10.0 x 10.0	
Zoom Scan Resolution (mm)	4.0 x 4.0 x 1.4	
Zoom Scan Size (mm)	22.0 x 22.0 x 22.0	
Power Drift (dB)	1.21	
SAR 1g (W/Kg)	7.39	



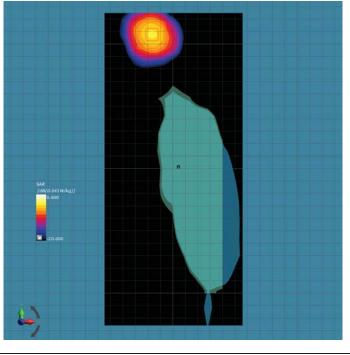


Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination are shown as follows.

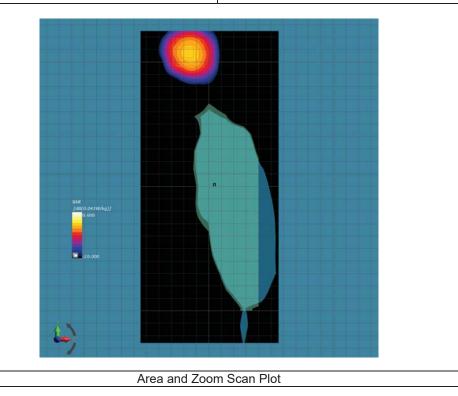
The plots for SAR measurement are shown as follows. Wlan_2.4G

Test specification:	Body_Low_802.11b_24	Body_Low_802.11b_2412_Left Side_0mm		
	Temp(oC): 23	Temp(oC): 23		
Environ Conditions:	Humidity (%): 44	Humidity (%): 44		
	Atmospheric(mPa): 101	15	Result:	Pass
Mains Power:	N/A		Result.	Pass
Test Date:	09/17/2019-09/30/2019	1		
Tested by:	Deon Dai			
Remarks:	-			
Frequency (MHz)		2412 (Channel 1)		
Relative permittivity (real pa	art)	53.2		
Conductivity (S/m)		2.00		
Probe SN		EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522		
Conversion Factor (dB)		8.5		
Area Scan Resolution (mm)		14x14		
Zoom Scan Resolution (mm)		6x6x6		
Zoom Scan Size (mm)		30x30x30		
Power Drift (dB)		0.16		
SAR 1g (W/Kg)		0.019		



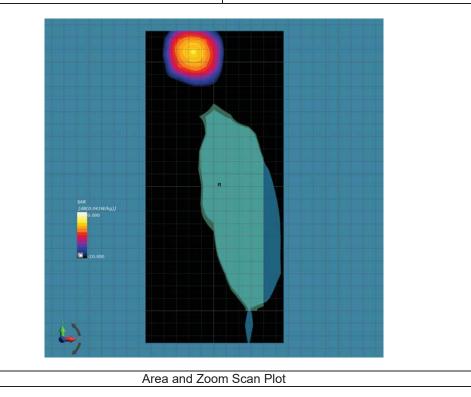


Test specification:	Body_Mid_802.1	Body_Mid_802.11b_2437_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-			•	
Frequency (MHz)		2437 (Channel 6	2437 (Channel 6)		
Relative permittivity (rea	part)	53.2	53.2		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN74	69		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.021	0.021		



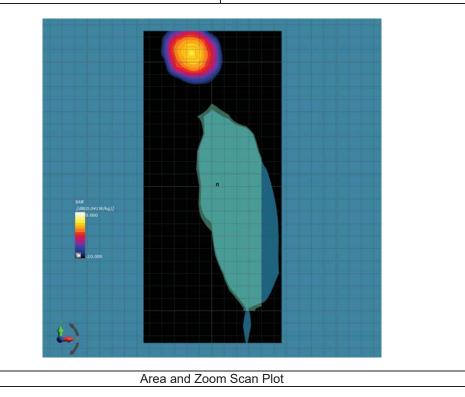


Test specification:	Body_High_802.	Body_High_802.11b_2462_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa	a): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)	·	2462 (Channel 1	2462 (Channel 11)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.02	2.02		
Probe SN		EX3DV4 - SN746	69		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.21	0.21		
SAR 1g (W/Kg)		0.022	0.022		



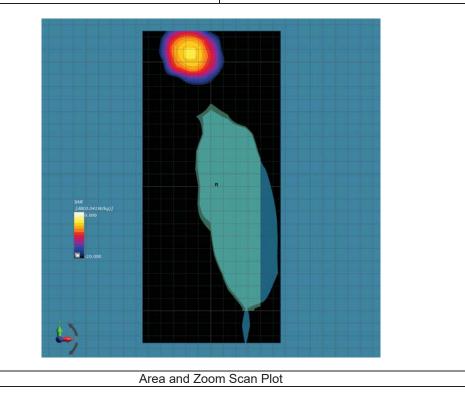


Test specification:	Body_Low_802.7	Body_Low_802.11g_2412_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·	•	
Frequency (MHz)		2412 (Channel 1	2412 (Channel 1)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)	· ·	1.99	1.99		
Probe SN		EX3DV4 - SN74	69		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.02	0.02		



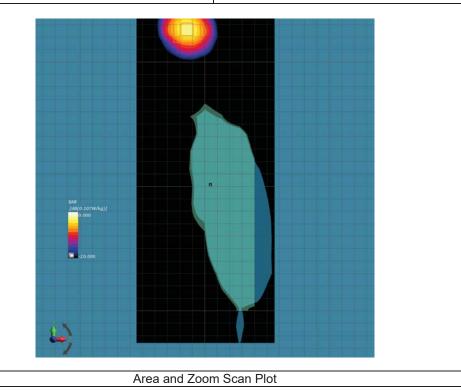


Test specification:	Body_Mid_802.1	Body_Mid_802.11g_2437_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)	·	2437 (Channel 6	2437 (Channel 6)		
Relative permittivity (rea	l part)	53.2	53.2		
Conductivity (S/m)	· · ·	1.99	1.99		
Probe SN		EX3DV4 - SN74	69		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.02	0.02		



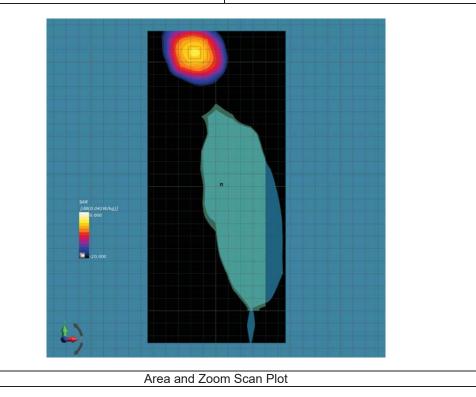


Test specification:	Body_High_802.	Body_High_802.11g_2462_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·	•	
Frequency (MHz)		2422 (Channel 1	2422 (Channel 11)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.053	0.053		



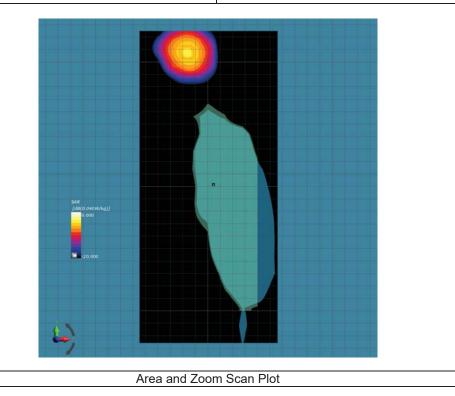


Test specification:	Body_Low_802.1	Body_Low_802.11n_2412_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa	a): 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2412 (Channel 1	2412 (Channel 1)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.53	0.53		
SAR 1g (W/Kg)		0.02	0.02		



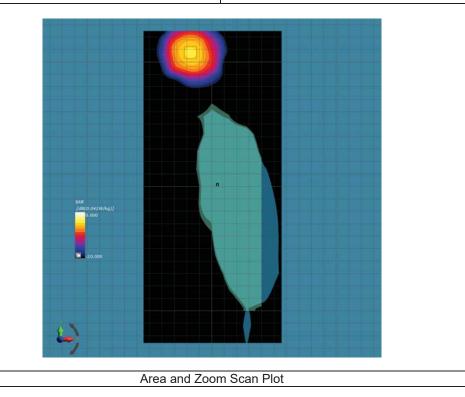


Test specification:	Body_Mid_802.1	1n_2437_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-			•	
Frequency (MHz)	·	2437 (Channel 6	2437 (Channel 6)		
Relative permittivity (rea	l part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	וm)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.019	0.019		



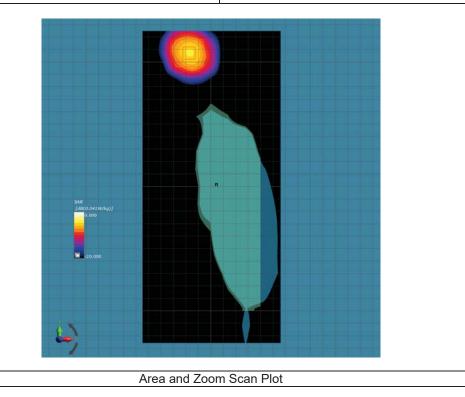


Test specification:	Body_High_802.	Body_High_802.11n_2462_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa	a): 1015	Desults	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)		2422 (Channel 2	2422 (Channel 11)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.020	0.020		



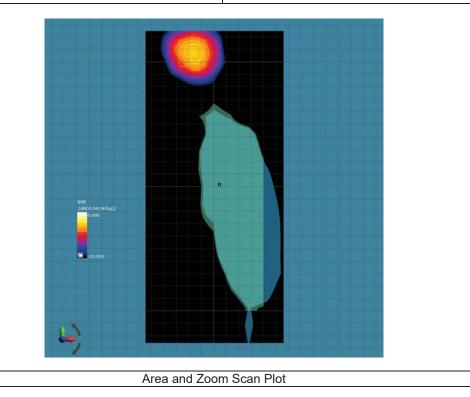


Test specification:	Body_Low_802.	11n40_2422_Left Side_0m	m		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desult	Dees	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/3	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-		•		
Frequency (MHz)		2422 (Channel 3	2422 (Channel 3)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.02	0.02		



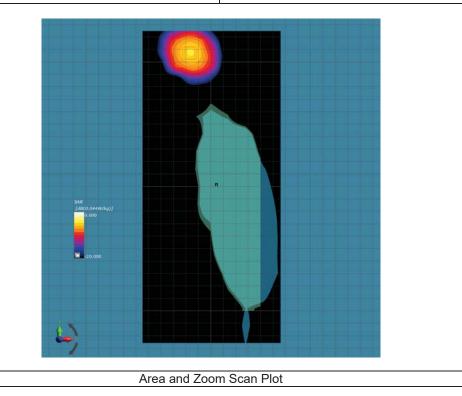


Test specification:	Body_Mid_802.1	1n40_2437_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mP	a): 1015	Desults	Deee	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/3	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2437 (Channel 6)	2437 (Channel 6)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.02	0.02		



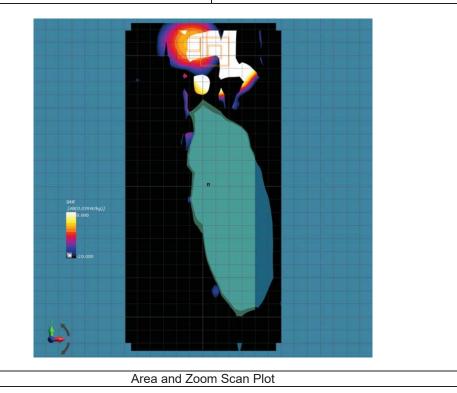


Test specification:	Body_High_802.	11n40_2452_Left Side_0m	ım		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desults	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)		2452 (Channel 1	2452 (Channel 11)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN740	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.021	0.021		



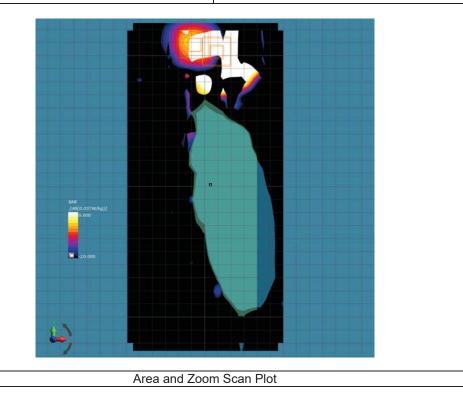


Test specification:	Body_Low_802.1	1b_2412_Right Side_0m	m		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa	ı): 1015	Desult	Dees	
Mains Power:	N/A	•	Result:	Pass	
Test Date:	09/17/2019-09/30	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-		·	•	
Frequency (MHz)		2412 (Channel	2412 (Channel 1)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.019	0.019		



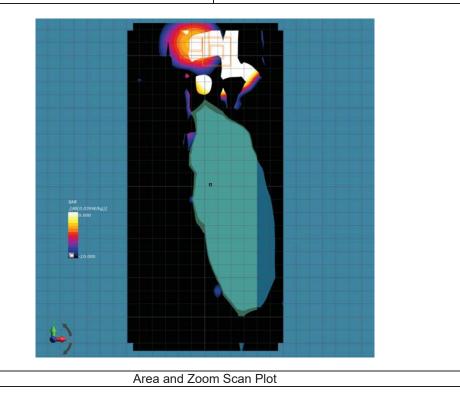


Test specification:	Body_Mid_802.1	1b_2437_Right Side_0m	m		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa	a): 1015	Desult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-			•	
Frequency (MHz)	·	2437 (Channel	2437 (Channel 6)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN7	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.017	0.017		



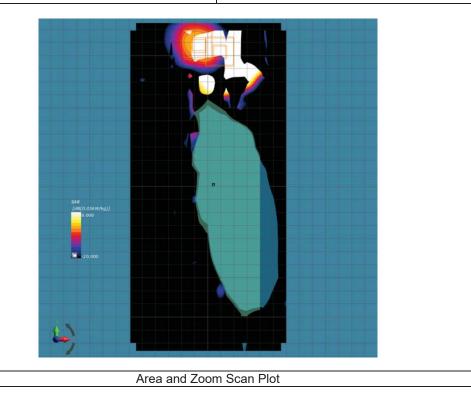


Test specification:	Body_High_802.11	b_2462_Right Side_0mi	m		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa)	: 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-			•	
Frequency (MHz)		2462 (Channel 1	2462 (Channel 11)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.02	2.02		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mi	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.018			



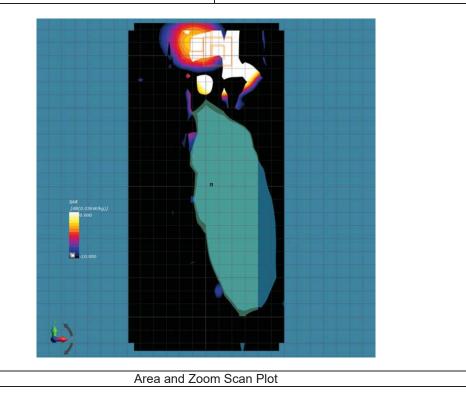


Test specification:	Body_Low_802.1	1g_2412_Right Side_0mn	n		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa	ı): 1015	Desult	Dees	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/30	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-			•	
Frequency (MHz)	Frequency (MHz)		2412 (Channel 1)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
		0.13	0.13		
SAR 1g (W/Kg)		0.017	0.017		



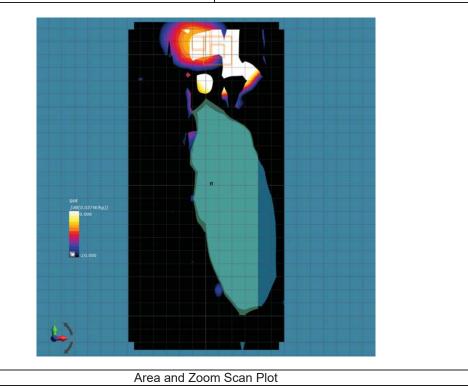


Test specification:	Body_Mid_802.11	g_2437_Right Side_0mi	m		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa	a): 1015	Desult	Deee	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/30	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-		·	•	
Frequency (MHz)		2437 (Channel	2437 (Channel 6)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.017			



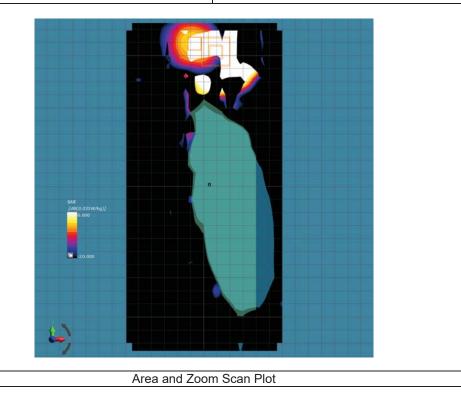


Test specification:	Body_High_802.11g	g_2462_Right Side_0m	m		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa):	1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2422 (Channel 1	2422 (Channel 11)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mi	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.16	0.16		
SAR 1g (W/Kg)		0.018			



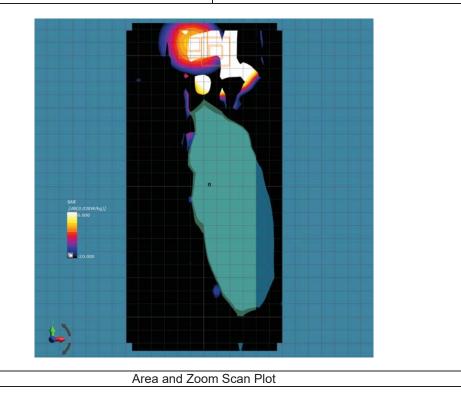


Test specification:	Body_Low_802.11	Body_Low_802.11n_2412_Right Side_0mm				
Environ Conditions:	Temp(oC): 23	Temp(oC): 23		Pass		
	Humidity (%): 44	Humidity (%): 44				
	Atmospheric(mPa	Atmospheric(mPa): 1015				
Mains Power:	N/A	N/A				
Test Date:	09/17/2019-09/30/	09/17/2019-09/30/2019				
Tested by:	Deon Dai			1		
Remarks:	-			•		
Frequency (MHz)		2412 (Channel 1	2412 (Channel 1)			
Relative permittivity (real part)		53.2	53.2			
Conductivity (S/m)		1.99	1.99			
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469			
DAE SN		DAE4 Sn1522	DAE4 Sn1522			
Conversion Factor (dB)		8.5	8.5			
Area Scan Resolution (mm)		14x14	14x14			
Zoom Scan Resolution (mm)		6x6x6	6x6x6			
Zoom Scan Size (mm)		30x30x30	30x30x30			
Power Drift (dB)		0	0			
SAR 1g (W/Kg)		0.017	0.017			



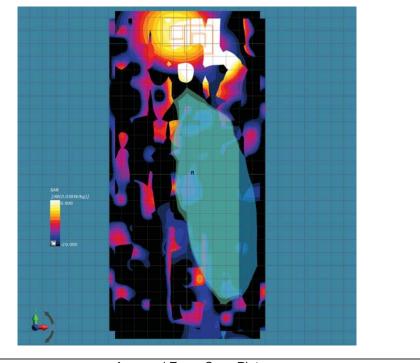


Test specification:	Body_Mid_802.11	Body_Mid_802.11n_2437_Right Side_0mm				
Environ Conditions:	Temp(oC): 23	Temp(oC): 23		Pass		
	Humidity (%): 44	Humidity (%): 44				
	Atmospheric(mPa	Atmospheric(mPa): 1015				
Mains Power:	N/A	N/A				
Test Date:	09/17/2019-09/30	09/17/2019-09/30/2019				
Tested by:	Deon Dai			1		
Remarks:	-		·			
Frequency (MHz)		2437 (Channel 6	2437 (Channel 6)			
Relative permittivity (real part)		53.2	53.2			
Conductivity (S/m)		1.99	1.99			
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469			
DAE SN		DAE4 Sn1522	DAE4 Sn1522			
Conversion Factor (dB)		8.5	8.5			
Area Scan Resolution (mm)		14x14	14x14			
Zoom Scan Resolution (mm)		6x6x6	6x6x6			
Zoom Scan Size (mm)		30x30x30	30x30x30			
Power Drift (dB)		0	0			
SAR 1g (W/Kg)		0.017	0.017			





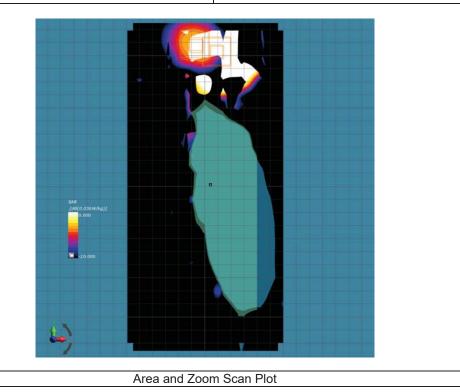
Test specification:	Body_High_802.11n_	2462_Right Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 10)15	Result:	Pass	
Mains Power:	N/A		Result.	Pass	
Test Date:	09/17/2019-09/30/201	09/17/2019-09/30/2019			
Tested by:	Deon Dai	Deon Dai			
Remarks:	-				
Frequency (MHz)		2422 (Channel 11)			
Relative permittivity (real p	art)	53.2			
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522			
Conversion Factor (dB)		8.5			
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6			
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0			
SAR 1g (W/Kg)		0.018	0.018		



Area and Zoom Scan Plot

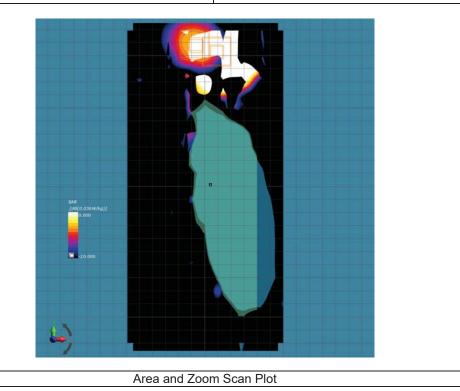


Test specification:	Body_Low_802.11	n40_2422_Right Side_(Dmm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa)	: 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	09/17/2019-09/30/2019			
Tested by:	Deon Dai	Deon Dai			
Remarks:	-				
Frequency (MHz)		2422 (Channel	2422 (Channel 3)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.018	0.018		



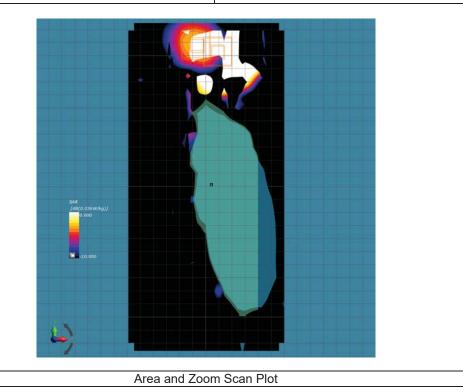


Test specification:	Body_Mid_802.11n4	40_2437_Right Side_0m	m		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa):	1015	Desults	Daaa	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	09/17/2019-09/30/2019			
Tested by:	Deon Dai	Deon Dai			
Remarks:	-		·	•	
Frequency (MHz)		2437 (Channel 6)	2437 (Channel 6)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mr	n)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.019			



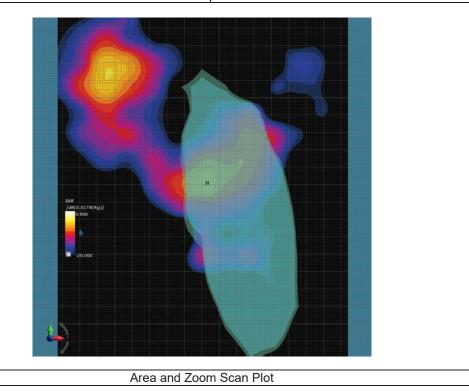


Test specification:	Body_High_802.1	1n40_2452_Right Side_0)mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa)): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/	09/17/2019-09/30/2019			
Tested by:	Deon Dai	Deon Dai			
Remarks:	-				
Frequency (MHz)		2452 (Channel 1	2452 (Channel 11)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.017			



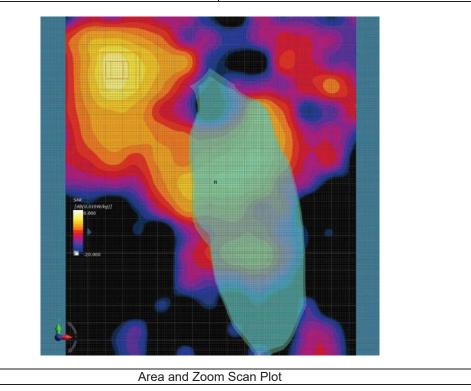


Test specification:	Body_Low_802.11b_24	12_Front Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 10 ⁻	15	- Result:	Pass	
Mains Power:	N/A			Pass	
Test Date:	09/17/2019-09/30/2019	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-			•	
Frequency (MHz)		2412 (Channel 1)			
Relative permittivity (real pa	art)	53.2			
Conductivity (S/m)		2.00			
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522			
Conversion Factor (dB)		8.5			
Area Scan Resolution (mm)		14x14			
Zoom Scan Resolution (mm)		6x6x6			
Zoom Scan Size (mm)		30x30x30			
Power Drift (dB)		0			
SAR 1g (W/Kg)		0.008			



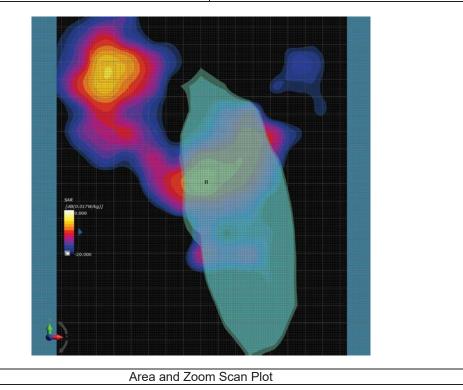


Test specification:	Body_Mid_802.11b_243	37_Front Side_0mm		
	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44		
	Atmospheric(mPa): 101	5	Result:	Pass
Mains Power:	N/A		Result.	Pass
Test Date:	09/17/2019-09/30/2019			
Tested by:	Deon Dai			
Remarks:	-			•
Frequency (MHz)		2437 (Channel 6)		
Relative permittivity (real pa	rt)	53.2		
Conductivity (S/m)		2.00		
Probe SN		EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522		
Conversion Factor (dB)		8.5		
Area Scan Resolution (mm)		14x14		
Zoom Scan Resolution (mm)		6x6x6		
Zoom Scan Size (mm)		30x30x30		
Power Drift (dB)		0.2		
SAR 1g (W/Kg)		0.01		



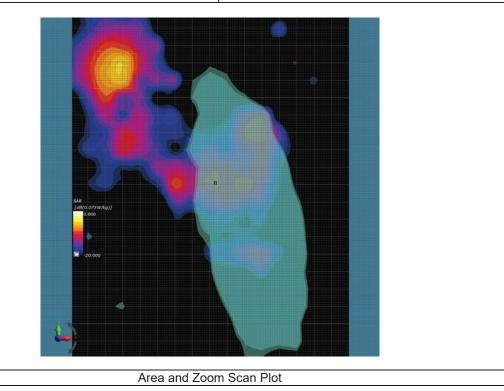


Test specification:	Body_High_802.11b_24	62_Front Side_0mm		
	Temp(oC): 23	Temp(oC): 23		
Environ Conditions:	Humidity (%): 44	Humidity (%): 44		
	Atmospheric(mPa): 101	5	Result:	Pass
Mains Power:	N/A		Result.	Pass
Test Date:	09/17/2019-09/30/2019			
Tested by:	Deon Dai			
Remarks:	-			
Frequency (MHz)		2462 (Channel 11)		
Relative permittivity (real pa	urt)	53.1		
Conductivity (S/m)		2.02		
Probe SN		EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522		
Conversion Factor (dB)		8.5		
Area Scan Resolution (mm)		14x14		
Zoom Scan Resolution (mm)		6x6x6		
Zoom Scan Size (mm)		30x30x30		
Power Drift (dB)		0		
SAR 1g (W/Kg)		0.005		



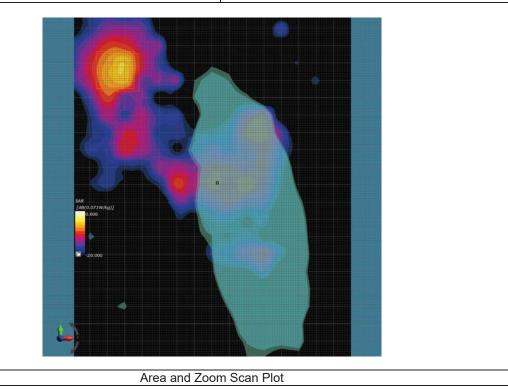


Test specification:	Body_Low_802.11g_2	2412_Front Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 1	015	Decult	Pass	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/201	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-		•		
Frequency (MHz)		2412 (Channel 1)			
Relative permittivity (real p	art)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5			
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0			
SAR 1g (W/Kg)		0.008			



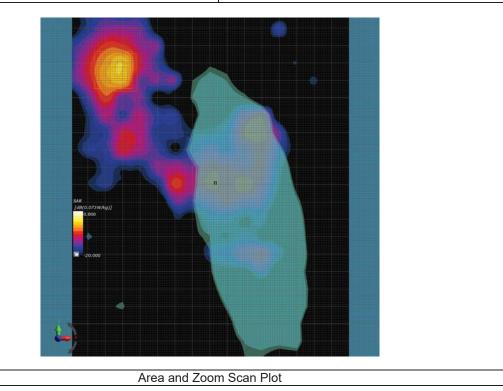


Test specification:	Body_Mid_802.11g_2	437_Front Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 1	015	Result:	Pass	
Mains Power:	N/A		Result.	Pass	
Test Date:	09/17/2019-09/30/201	09/17/2019-09/30/2019			
Tested by:	Deon Dai	Deon Dai			
Remarks:	-				
Frequency (MHz)		2437 (Channel 6)			
Relative permittivity (real page	art)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5			
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0			
SAR 1g (W/Kg)		0.007	0.007		



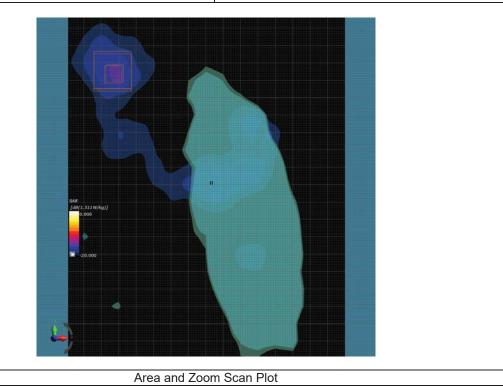


Test specification:	Body_High_802.11g_	2462_Front Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 10	015	Decult	Daga	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/201	09/17/2019-09/30/2019			
Tested by:	Deon Dai	Deon Dai			
Remarks:	-				
Frequency (MHz)		2422 (Channel 11)			
Relative permittivity (real p	art)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522			
Conversion Factor (dB)		8.5			
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0			
SAR 1g (W/Kg)		0.009	0.009		



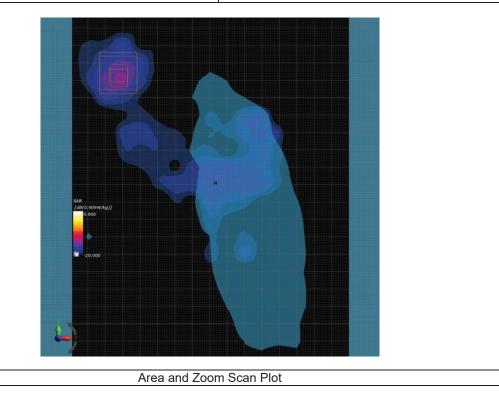


Test specification:	Body_Low_802.11n_	2412_Front Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 1	015	Decult	Pass	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/20	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2412 (Channel 1)	2412 (Channel 1)		
Relative permittivity (real p	art)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.007	0.007		



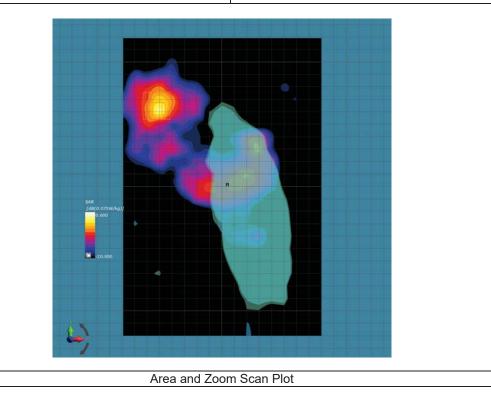


Test specification:	Body_Mid_802.11n_2	2437_Front Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 1	015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/20	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2437 (Channel 6)	2437 (Channel 6)		
Relative permittivity (real p	oart)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.006			



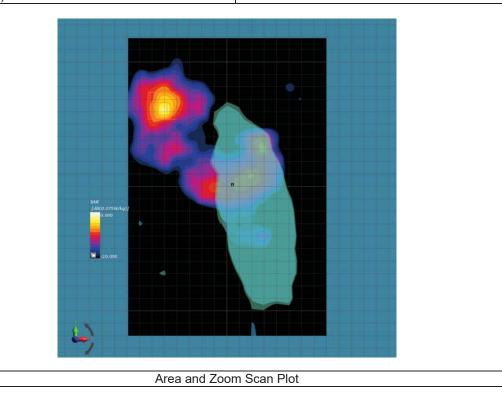


Test specification:	Body_High_802.	11n_2462_Front Side_0mn	n		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa	a): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2422 (Channel 1	2422 (Channel 11)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.008	0.008		



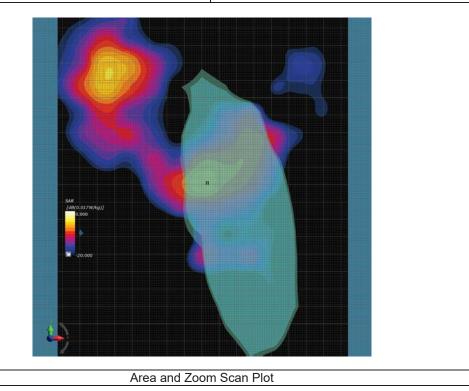


Test specification:	Body_Low_802.	11n40_2422_Front Side_0	mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Result:	Deee	
Mains Power:	N/A			Pass	
Test Date:	09/17/2019-09/3	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2422 (Channel 3	2422 (Channel 3)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.007	0.007		



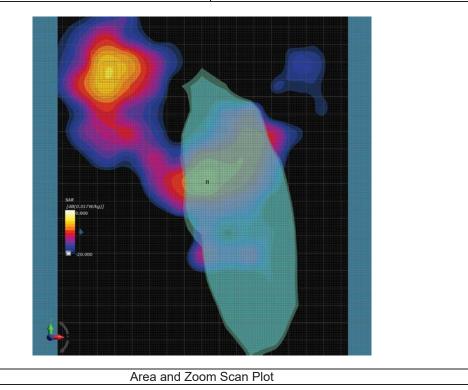


Test specification:	Body_Mid_802.11n40	_2437_Front Side_0mm	ו		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 10)15	Decult	Pass	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/201	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2437 (Channel 6)			
Relative permittivity (real p	art)	53.1			
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522			
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.008	0.008		



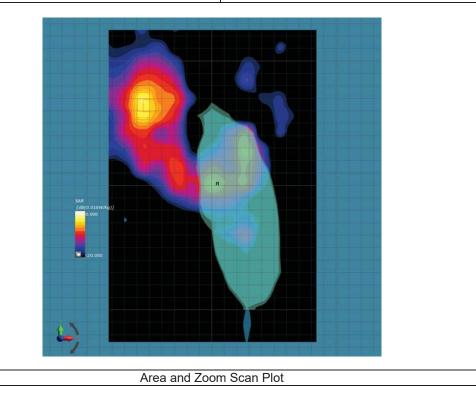


Test specification:	Body_High_802.11n40	2452_Front side_0mm		
	Temp(oC): 23	Temp(oC): 23		
Environ Conditions:	Humidity (%): 44			
	Atmospheric(mPa): 101	5	Result:	Pass
Mains Power:	N/A		Result.	Pass
Test Date:	09/17/2019-09/30/2019			
Tested by:	Deon Dai			
Remarks:	-			
Frequency (MHz)		2452 (Channel 11)		
Relative permittivity (real pa	ırt)	53.1		
Conductivity (S/m)		2.00		
Probe SN		EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522		
Conversion Factor (dB)		8.5		
Area Scan Resolution (mm)		14x14		
Zoom Scan Resolution (mm)		6x6x6		
Zoom Scan Size (mm)		30x30x30		
Power Drift (dB)		0		
SAR 1g (W/Kg)		0.009		



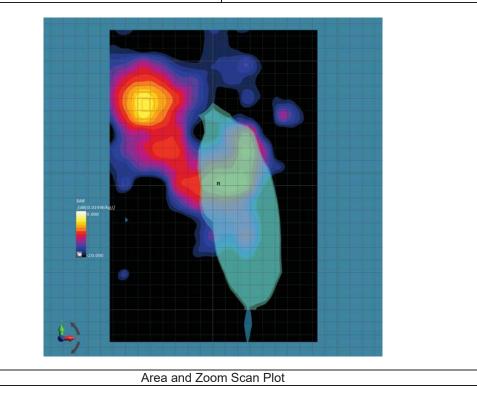


Test specification:	Body_Low_802.11b_	2412_Back Side_0mm	n		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 1	015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/20	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2412 (Channel 1	2412 (Channel 1)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		1.15	1.15		
SAR 1g (W/Kg)		0.009			



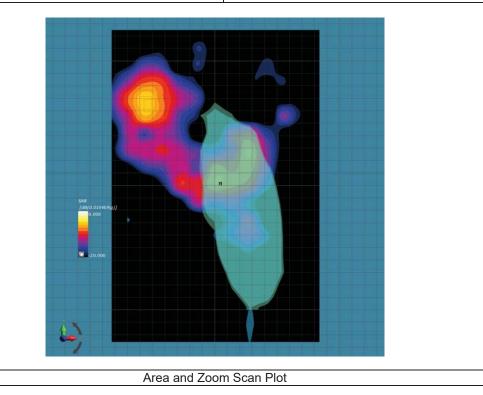


Test specification:	Body_Mid_802.11	b_2437_Back Side_0m	m		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa)): 1015	Result:	Pass	
Mains Power:	N/A		Result.	Pass	
Test Date:	09/17/2019-09/30/	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2437 (Channel	2437 (Channel 6)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN7	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.01			



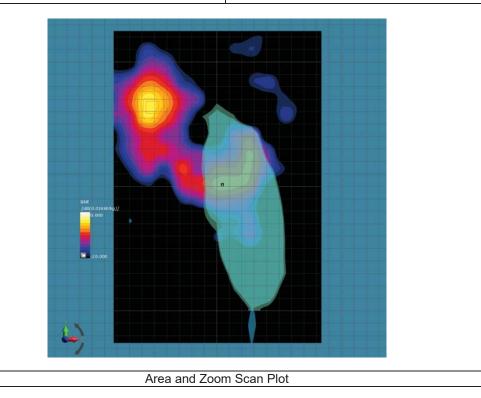


Test specification:	Body_High_802.11	b_2462_Back Side_0m	m		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa)	: 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-		· ·		
Frequency (MHz)		2462 (Channel 2	2462 (Channel 11)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.02	2.02		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.01			



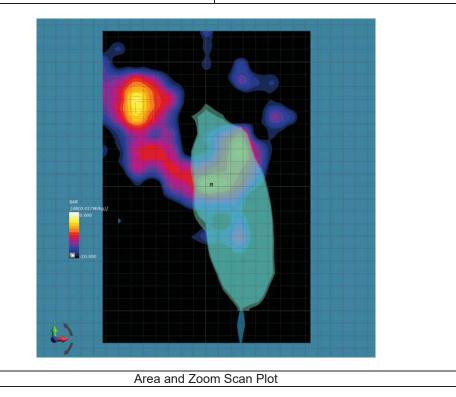


Test specification:	Body_Low_802.	11g_2412_Back Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mF	Atmospheric(mPa): 1015		Deee	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/3	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2412 (Channel 1)	2412 (Channel 1)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.008	0.008		



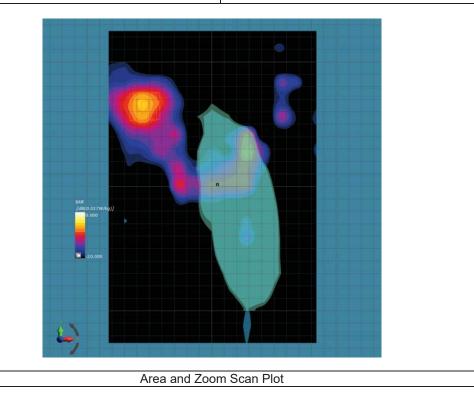


Test specification:	Body_Mid_802.2	11g_2437_Back Side_0	mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mF	Pa): 1015	Desult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2437 (Chann	2437 (Channel 6)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN	EX3DV4 - SN7469		
DAE SN		DAE4 Sn152	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.009			



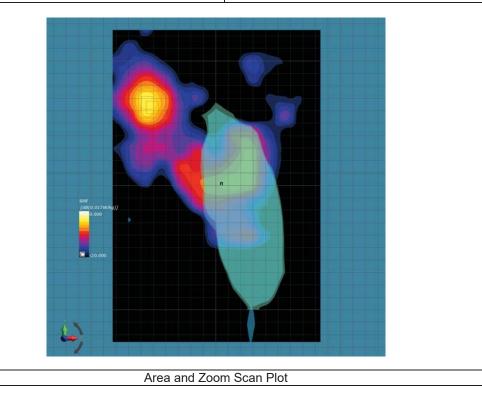


Test specification:	Body_High_802.1	1g_2462_Back Side_0m	ım		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa	a): 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30	09/17/2019-09/30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2462 (Channel	2462 (Channel 11)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.009			



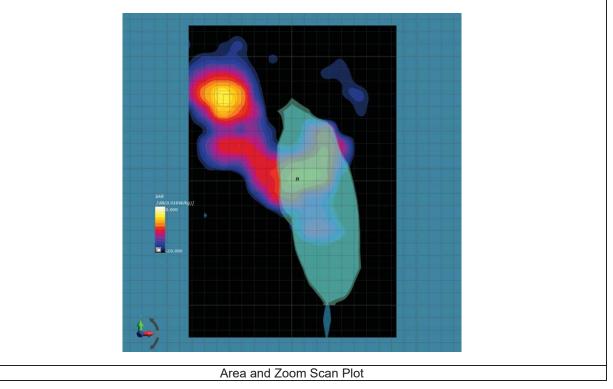


Test specification:	Body_Low_802.11n_2	412_Back Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 10)15	Decult	Pass	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2019				
Tested by:	Deon Dai				
Remarks:	-			•	
Frequency (MHz)		2412 (Channel 1)			
Relative permittivity (real p	oart)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522			
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0			
SAR 1g (W/Kg)		0.008			



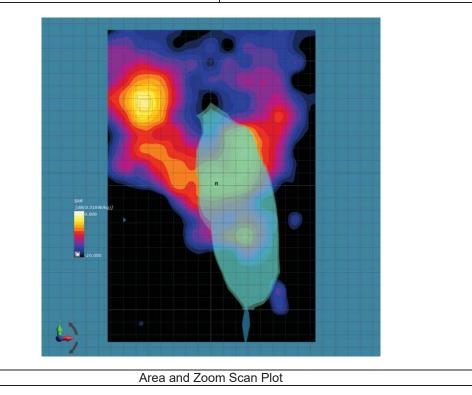


Test specification:	Body_Mid_802.11n_243	7_Back Side_0mm		
	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44			
	Atmospheric(mPa): 101	5	Result:	Pass
Mains Power:	N/A		Result.	Pass
Test Date:	09/17/2019-09/30/2019			
Tested by:	Deon Dai			
Remarks:	-			
Frequency (MHz)		2437 (Channel 6)		
Relative permittivity (real par	t)	53.2		
Conductivity (S/m)		1.99		
Probe SN		EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522		
Conversion Factor (dB)		8.5		
Area Scan Resolution (mm)		14x14		
Zoom Scan Resolution (mm)		6x6x6		
Zoom Scan Size (mm)		30x30x30		
Power Drift (dB)		0		
SAR 1g (W/Kg)		0.008		



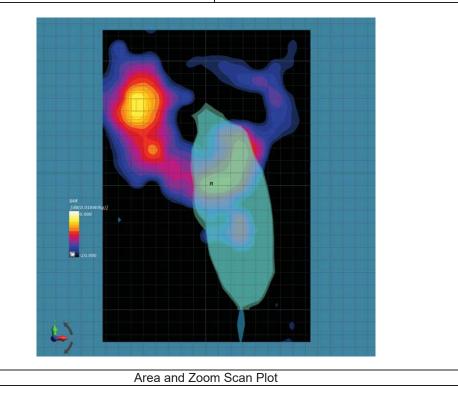


Test specification:	Body_High_802.11n_2	462_Back Side_0mm		
	Temp(oC): 23	Temp(oC): 23		
Environ Conditions:	Humidity (%): 44	Humidity (%): 44		
	Atmospheric(mPa): 10	15	Decult	Deee
Mains Power:	N/A		Result:	Pass
Test Date:	09/17/2019-09/30/201	9		
Tested by:	Deon Dai			
Remarks:	-			
Frequency (MHz)		2462 (Channel 11)		
Relative permittivity (real p	art)	53.2		
Conductivity (S/m)		1.99		
Probe SN		EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522		
Conversion Factor (dB)		8.5		
Area Scan Resolution (mm)		14x14		
Zoom Scan Resolution (mm)		6x6x6		
Zoom Scan Size (mm)		30x30x30		
Power Drift (dB)		0.28		
SAR 1g (W/Kg)		0.008		



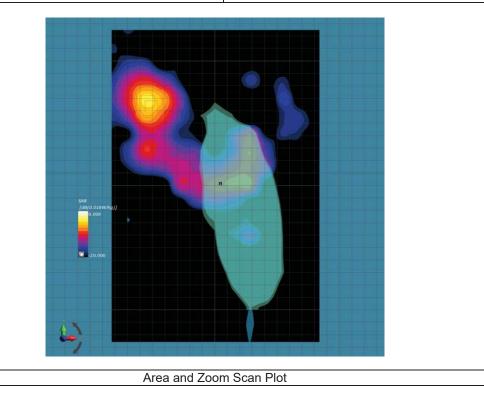


Test specification:	Body_Low_802.11	n40_2422_Back Side_(Dmm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/	/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2422 (Channel	2422 (Channel 3)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.008	0.008		



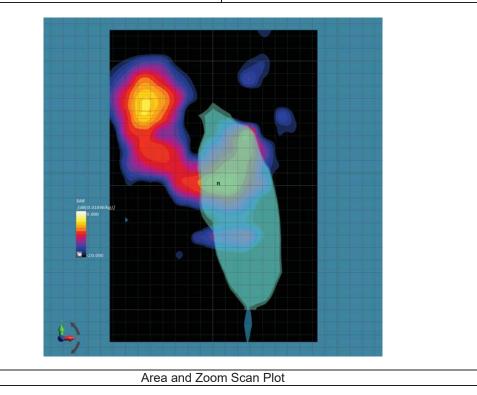


Test specification:	Body_Mid_802.11n	40_2437_Back Side_0	mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa)	1015	Result:	Pass	
Mains Power:	N/A		Result.	Pass	
Test Date:	09/17/2019-09/30/2	2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2437 (Channel	2437 (Channel 6)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.32	0.32		
SAR 1g (W/Kg)		0.009	0.009		



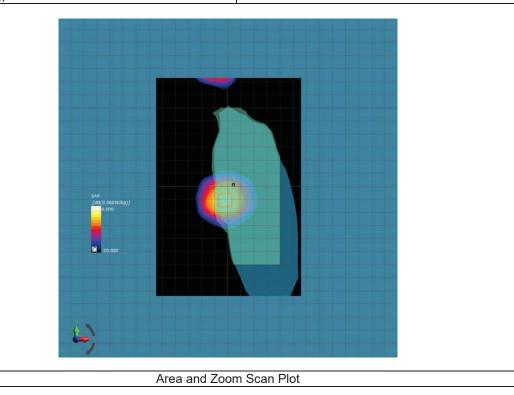


Test specification:	Body_High_802.1	1n40_2452_Back Side_	0mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/	/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2452 (Channel	2452 (Channel 9)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.21	0.21		
SAR 1g (W/Kg)		0.009	0.009		



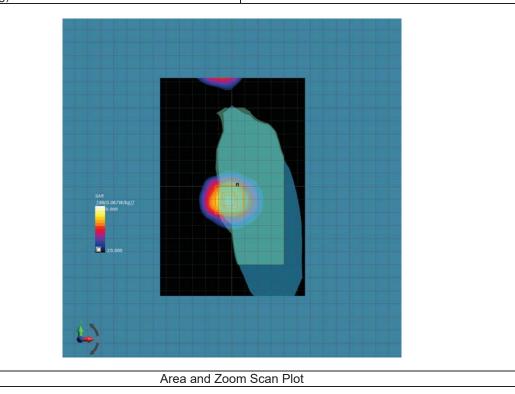


Test specification:	Body_Low_802.11b	_2412_Bottom Side_0m	im		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa):	1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	019			
Tested by:	Deon Dai	Deon Dai			
Remarks:	-				
Frequency (MHz)	Frequency (MHz)		2412 (Channel 1)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.033	0.033		



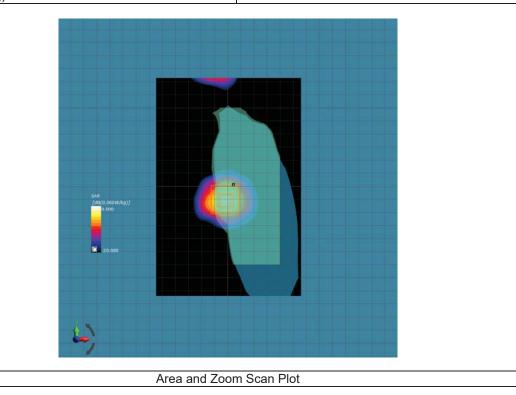


Test specification:	Body_Mid_802.11b	_2437_Bottom Side_0m	nm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa):	1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)	·	2437 (Channel 6	2437 (Channel 6)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.033	0.033		



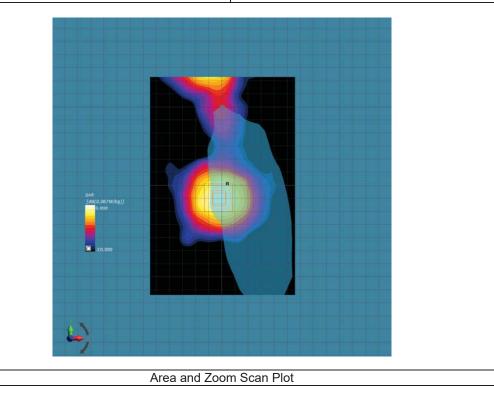


Test specification:	Body_High_802.1	1b_2462_Bottom Side_0)mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/	2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2462 (Channel	2462 (Channel 11)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.02	2.02		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mr	n)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.02	0.02		
SAR 1g (W/Kg)		0.035	0.035		



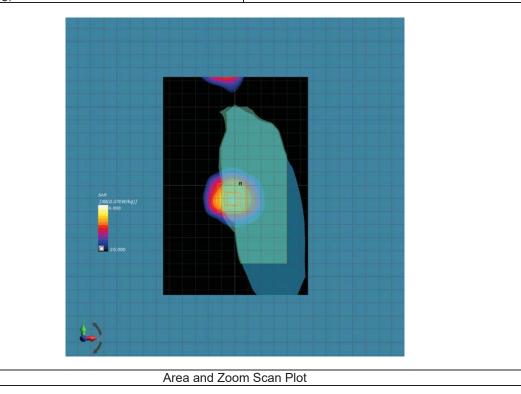


Test specification:	Body_Low_802.11g_2	2412_Bottom Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa): 10)15	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/201	9			
Tested by:	Deon Dai				
Remarks:	-		•	•	
Frequency (MHz)		2412 (Channel 1)			
Relative permittivity (real	part)	53.2			
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522			
Conversion Factor (dB)		8.5			
Area Scan Resolution (mm)		14x14			
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.01			
SAR 1g (W/Kg)		0.034	0.034		



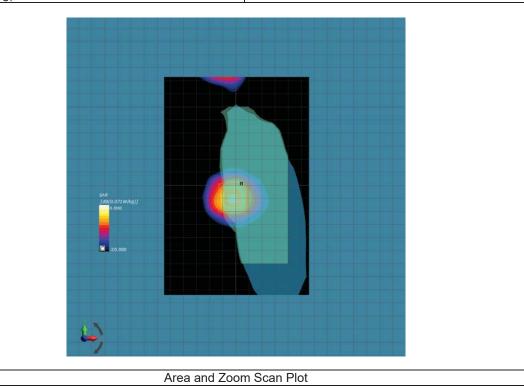


Test specification:	Body_Mid_802.11g_2	2437_Bottom Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa): 1	015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/20	19			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2437 (Channel 6)	2437 (Channel 6)		
Relative permittivity (real p	oart)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.01	0.01		
SAR 1g (W/Kg)		0.034			



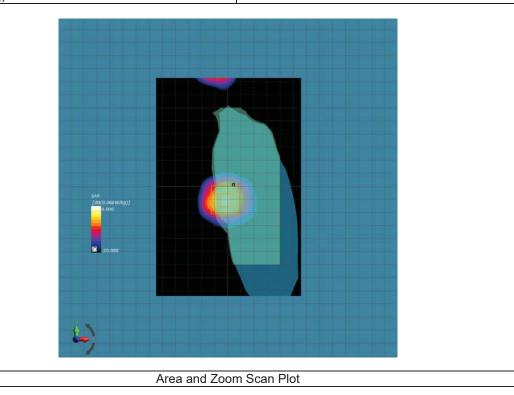


Test specification:	Body_High_802.11g_	2462_Bottom Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa): 1	015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/201	9			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		2422 (Channel 11)			
Relative permittivity (real p	part)	53.2			
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522			
Conversion Factor (dB)		8.5			
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.14			
SAR 1g (W/Kg)		0.035			



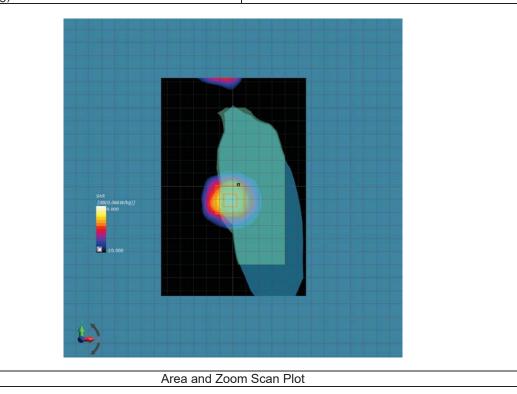


Test specification:	Body_Low_802.11n	_2412_Bottom Side_0m	ım		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa):	1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	019			
Tested by:	Deon Dai	Deon Dai			
Remarks:	-				
Frequency (MHz)	Frequency (MHz)		2412 (Channel 1)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mr	n)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.033	0.033		



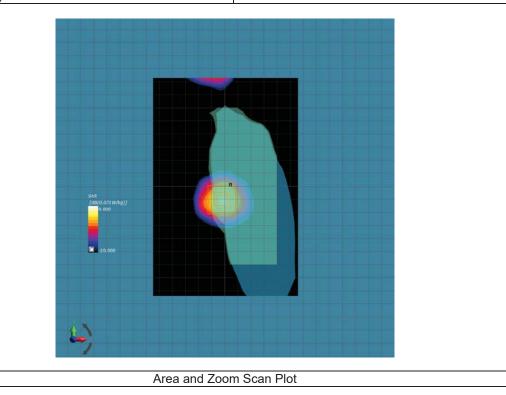


Test specification:	Body_Mid_802.11n	_2437_Bottom Side_0n	nm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa)	1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)		2437 (Channel 6	2437 (Channel 6)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
		0.034	0.034		



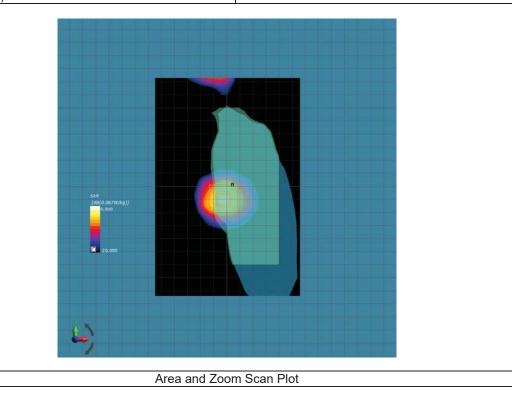


Test specification:	Body_High_802.11	n_2462_Bottom Side_0	mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa)	: 1015	Desults	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)		2422 (Channel 1	2422 (Channel 11)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.035	0.035		



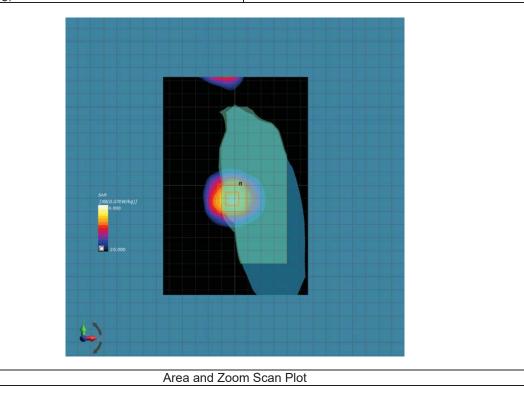


Test specification:	Body_Low_802.11	n40_2422_Bottom Side	_0mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa): 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/	2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)	· ·	2422 (Channel 3	2422 (Channel 3)		
Relative permittivity (real	part)	53.2	53.2		
Conductivity (S/m)		1.99	1.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.033			



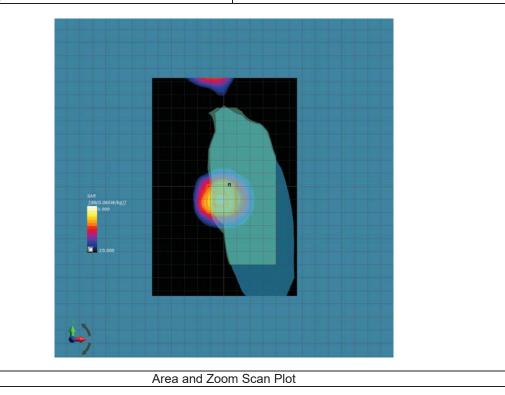


Test specification:	Body_Mid_802.11n40	_2437_Bottom Side_0m	m		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa): 10)15	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/201	9			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)	Frequency (MHz)		2437 (Channel 6)		
Relative permittivity (real p	art)	53.1			
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN7469	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522			
Conversion Factor (dB)		8.5			
Area Scan Resolution (mm)		14x14			
Zoom Scan Resolution (mm)		6x6x6			
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.04			
SAR 1g (W/Kg)		0.035	0.035		





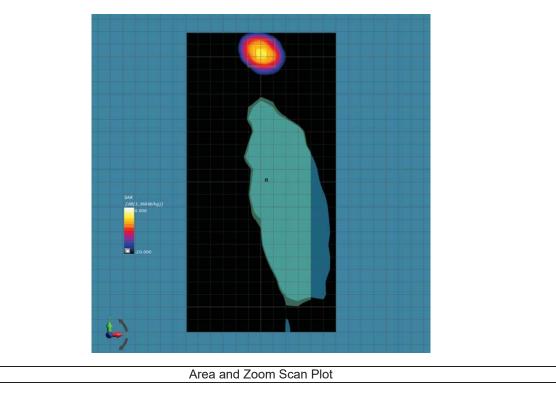
Test specification:	Body_High_802.11	n40_2452_Bottom Side	_0mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa):	1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)	Frequency (MHz)		2452 (Channel 11)		
Relative permittivity (real	part)	53.1	53.1		
Conductivity (S/m)		2.00	2.00		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		8.5	8.5		
Area Scan Resolution (mr	n)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.035			





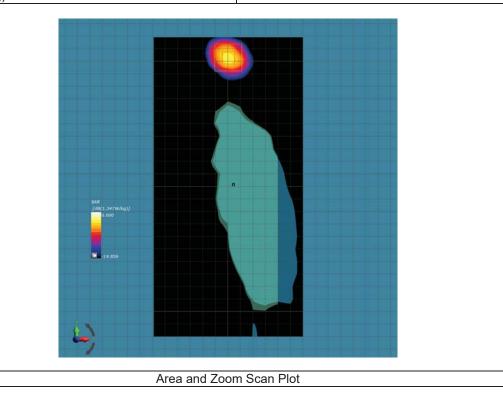
802.11a-5G:

Test specification:	Body_Low_802.	Body_Low_802.11a-5180_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mF	Pa): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5180 (Channel 3	5180 (Channel 36)		
Relative permittivity (real	part)	48.3	48.3		
Conductivity (S/m)		5.29	5.29		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.725	0.725		



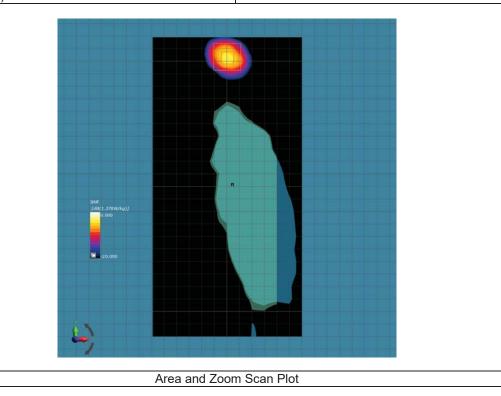


Test specification:	Body_Mid_802.1	Body_Mid_802.11a-5200_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mP	a): 1015	Desults	Dees	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)		5200 (Channel	5200 (Channel 40)		
Relative permittivity (real	part)	48.2	48.2		
Conductivity (S/m)		5.40	5.40		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.725	0.725		



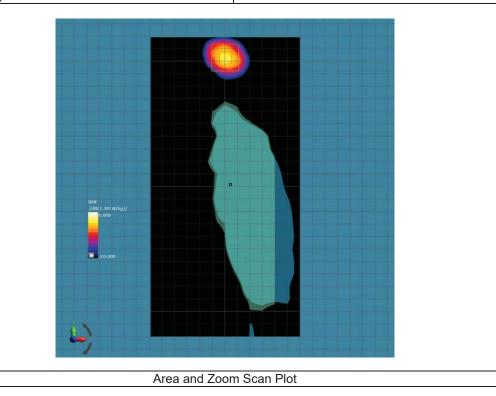


Test specification:	Body_High_802.	Body_High_802.11a-5240_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5240 (Channel 4	5240 (Channel 48)		
Relative permittivity (rea	l part)	48.2	48.2		
Conductivity (S/m)		5.40	5.40		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (n	nm)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.741	0.741		



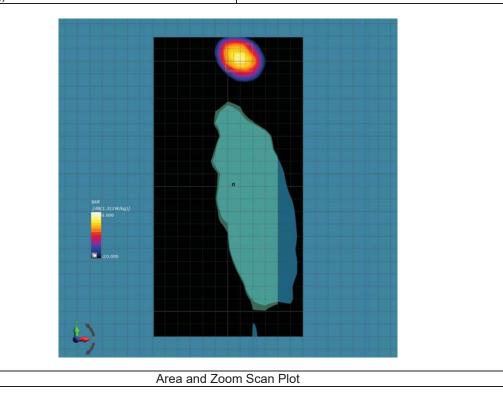


Test specification:	Body_Low_802.11a	-5260_ Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa):	1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30/2	019			
Tested by:	Deon Dai				
Remarks:	-			•	
Frequency (MHz)	Frequency (MHz)		5260 (Channel 52)		
Relative permittivity (real	part)	48.2	48.2		
Conductivity (S/m)		5.40	5.40		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.748	0.748		



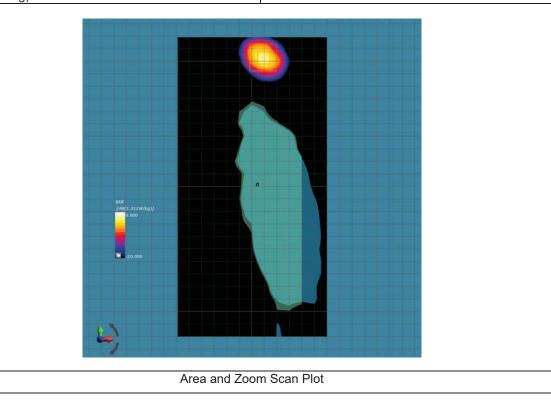


Test specification:	Body_Mid_802.1	Body_Mid_802.11a-5280_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mF	a): 1015	Desults	Dees	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)		5280 (Channel s	5280 (Channel 56)		
Relative permittivity (real	part)	48.1	48.1		
Conductivity (S/m)		5.42	5.42		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (m	וm)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.04	0.04		
SAR 1g (W/Kg)		0.763	0.763		



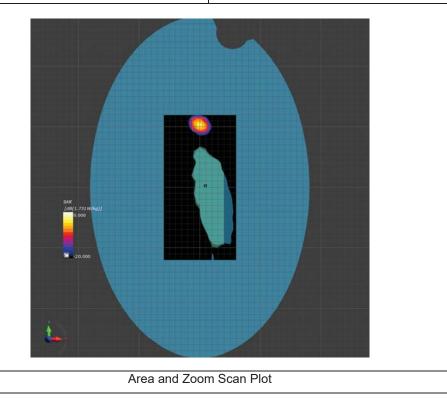


Test specification:	Body_High_802.	Body_High_802.11a-5320_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa	a): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5320 (Channel 6	5320 (Channel 64)		
Relative permittivity (real	part)	48.1	48.1		
Conductivity (S/m)		5.47	5.47		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.765	0.765		



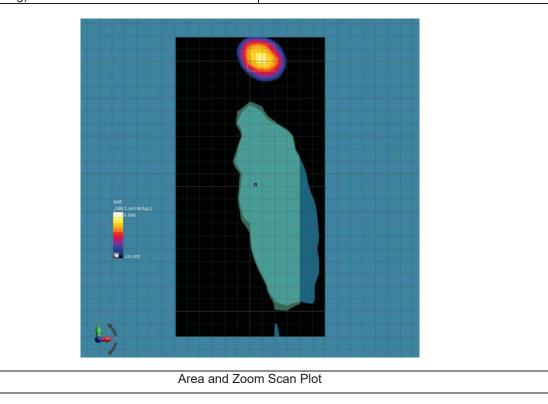


Test specification:	Body_Low_802.	Body_Low_802.11a-5500_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desult	Daaa	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5500 (Channel 1	5500 (Channel 100)		
Relative permittivity (real	part)	47.7	47.7		
Conductivity (S/m)		5.74	5.74		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.65	4.65		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.918	0.918		



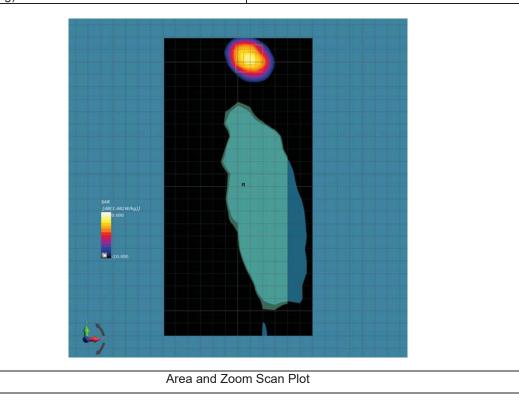


Test specification:	Body_Mid_802.11	1a-5580_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa	a): 1015	Desults	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-		·	•	
Frequency (MHz)		5580 (Channel 1	5580 (Channel 116)		
Relative permittivity (real	part)	47.6	47.6		
Conductivity (S/m)		5.84	5.84		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.65	4.65		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.03	0.03		
SAR 1g (W/Kg)		0.869	0.869		



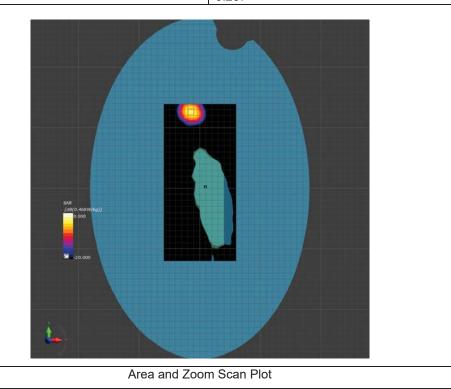


Test specification:	Body_Mid_802.11a-5700_Left Side_0mm				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa	a): 1015	Desult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5580 (Channel	5580 (Channel 140)		
Relative permittivity (real	part)	47.6	47.6		
Conductivity (S/m)		5.84	5.84		
Probe SN		EX3DV4 - SN7	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.65	4.65		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.09	0.09		
SAR 1g (W/Kg)		0.872	0.872		



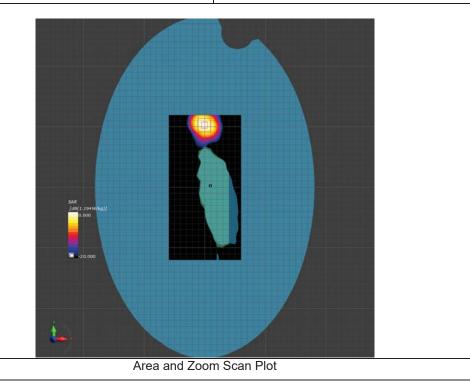


Test specification:	Body_Low_802	Body_Low_802.11a-5745_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 4	4			
	Atmospheric(m	Pa): 1015	Desult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/	30/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5745 (Channel	5745 (Channel 149)		
Relative permittivity (rea	l part)	47.2	47.2		
Conductivity (S/m)		6.11	6.11		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.90	4.90		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.267	0.267		



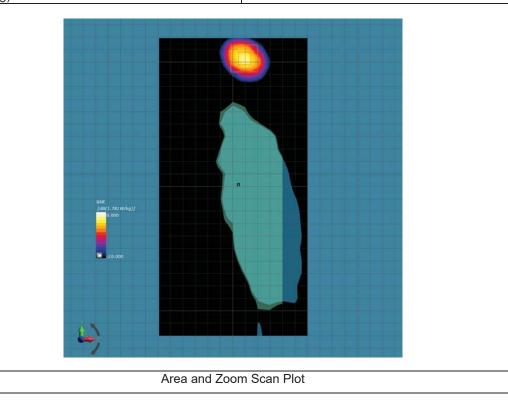


Test specification:	Body_Mid_802.11a-5785_Left Side_0mm				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mF	Pa): 1015	Desults	Dees	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)		5785 (Channel 2	5785 (Channel 157)		
Relative permittivity (real	part)	47.1	47.1		
Conductivity (S/m)		6.16	6.16		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.90	4.90		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.06	0.06		
SAR 1g (W/Kg)		0.288	0.288		





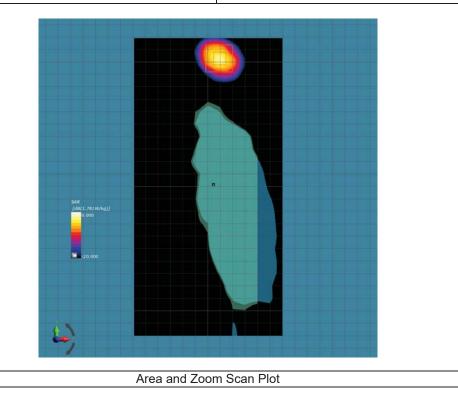
Test specification:	Body_High_802.11a-5825_Left Side_0mm				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desults	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)		5825 (Channel 1	5825 (Channel 165)		
Relative permittivity (real	part)	47.1	47.1		
Conductivity (S/m)		6.16	6.16		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.90	4.90		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.926	0.926		





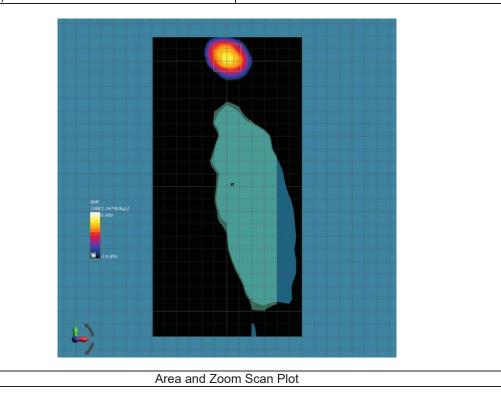
802.11n -5G

Test specification: Body_Low_802.11n-5180_Left Side_0mm					
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mP	a): 1015	Desults	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		•	•	
Frequency (MHz)		5180 (Channel 36	5180 (Channel 36)		
Relative permittivity (real	part)	48.3	48.3		
Conductivity (S/m)		5.29	5.29		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.839	0.839		



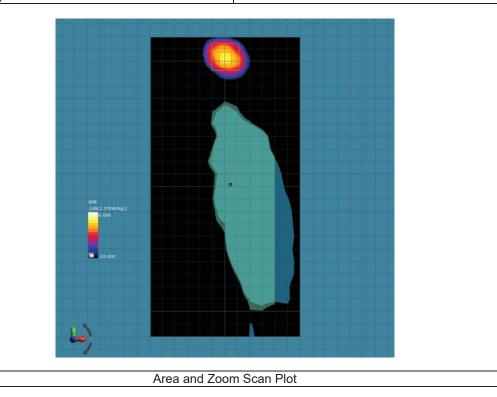


Test specification:	Body_Mid_802.11n-5200_Left Side_0mm				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mP	a): 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)		5200 (Channel	5200 (Channel 40)		
Relative permittivity (real	part)	48.2	48.2		
Conductivity (S/m)		5.40	5.40		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.728	0.728		



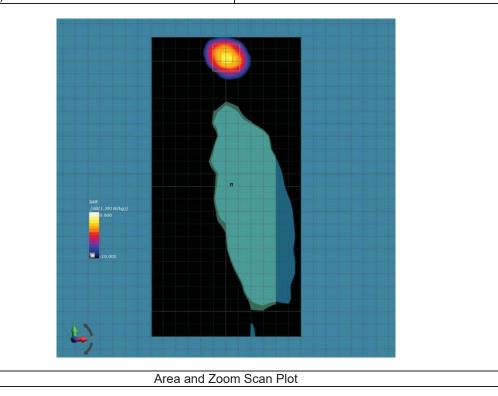


Test specification:	Body_High_802.11n-5240_Left Side_0mm				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30	0/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5240 (Channel 4	5240 (Channel 48)		
Relative permittivity (real	part)	48.2	48.2		
Conductivity (S/m)		5.40	5.40		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.742	0.742		



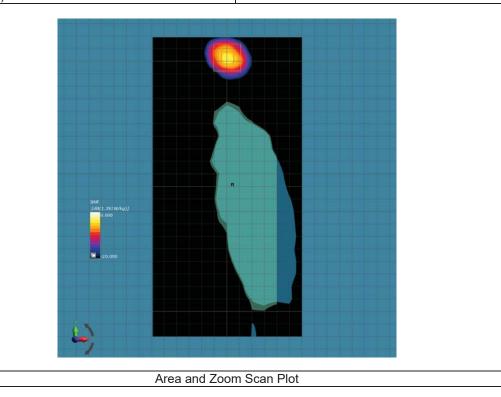


Test specification:	Body_Low_802.11n-5260_ Left Side_0mm				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mP	a): 1015	Desults	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·	•	
Frequency (MHz)		5260 (Channel S	5260 (Channel 52)		
Relative permittivity (real	part)	48.2	48.2		
Conductivity (S/m)		5.40	5.40		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.778			



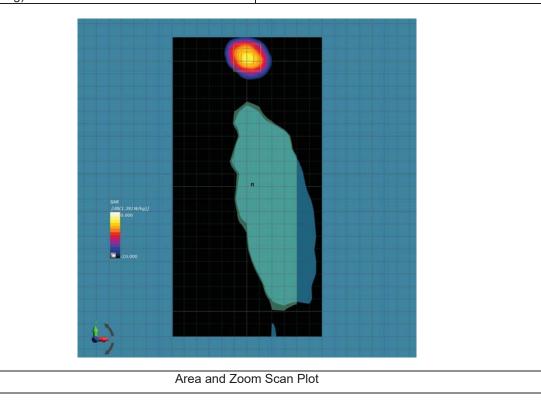


Test specification:	specification: Body_Mid_802.11n-5280_Left Side_0mn				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa	a): 1015	Desult	Daaa	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-		•		
Frequency (MHz)		5280 (Channel 5	5280 (Channel 56)		
Relative permittivity (real	part)	48.1	48.1		
Conductivity (S/m)		5.42	5.42		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.774	0.774		



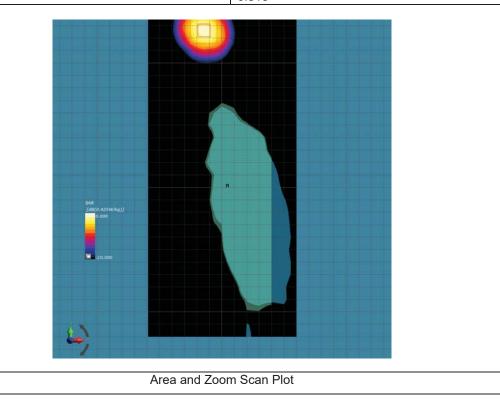


Test specification:	Body_High_802.1	Body_High_802.11n-5320_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa	a): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30	/2019			
Tested by:	Deon Dai				
Remarks:	-		•		
Frequency (MHz)		5320 (Channel 6	5320 (Channel 64)		
Relative permittivity (real	part)	48.1	48.1		
Conductivity (S/m)		5.47	5.47		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.802	0.802		



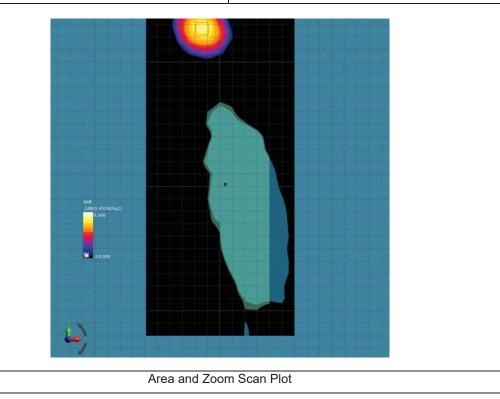


Test specification:	Body_Low_802.7	Body_Low_802.11n-5500_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desults	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)		5500 (Channel	5500 (Channel 100)		
Relative permittivity (real	part)	47.7	47.7		
Conductivity (S/m)		5.74	5.74		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.65	4.65		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.815	0.815		



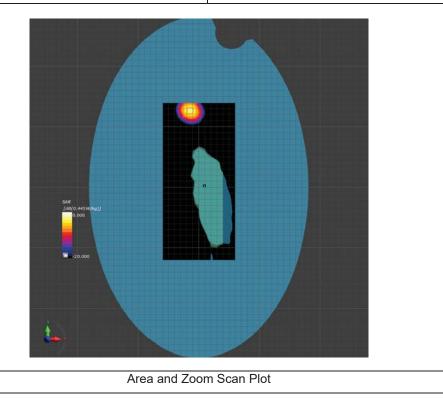


Test specification:	ication: Body_Mid_802.11n-5580_Left Side_				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desults	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5580 (Channel	5580 (Channel 116)		
Relative permittivity (rea	part)	47.6	47.6		
Conductivity (S/m)		5.84	5.84		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.65	4.65		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.865	0.865		



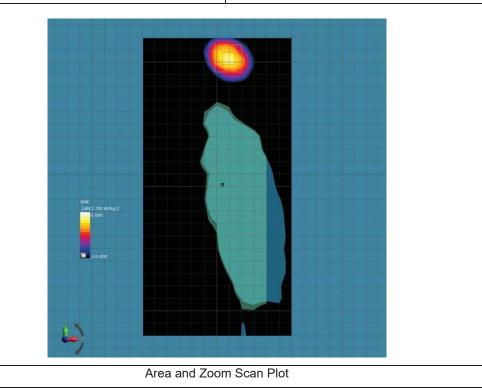


Test specification:	Body_Mid_802.11n-5700_Left Side_0n				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mF	Pa): 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	80/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5700 (Channel 1	5700 (Channel 140)		
Relative permittivity (real	part)	47.6	47.6		
Conductivity (S/m)		5.84	5.84		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.65	4.65		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.09	0.09		
SAR 1g (W/Kg)		0.849	0.849		



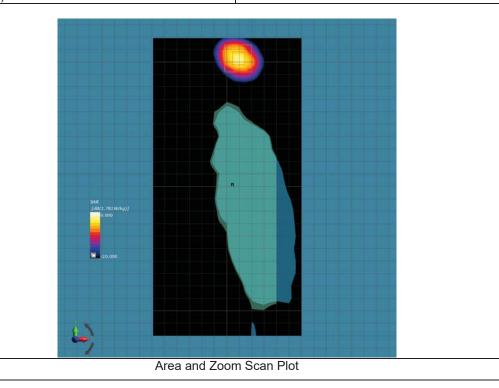


Test specification:	cation: Body_Low_802.11n-5745_Le				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-			•	
Frequency (MHz)		5745 (Channel	5745 (Channel 149)		
Relative permittivity (real	part)	47.2	47.2		
Conductivity (S/m)		6.11	6.11		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.90	4.90		
Area Scan Resolution (m	וm)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.898	0.898		



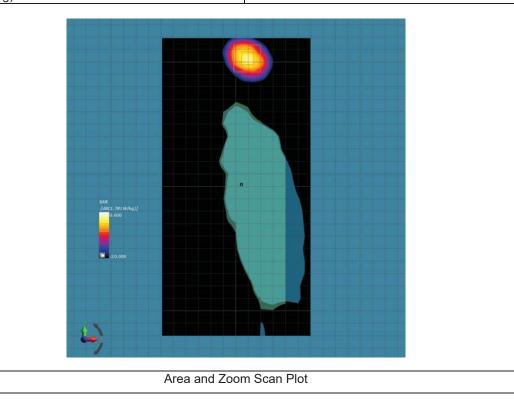


Test specification:	Decification: Body_Mid_802.11n-5785_Left				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mF	Pa): 1015	Desult	Deee	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5785 (Channel	5785 (Channel 157)		
Relative permittivity (real	part)	47.1	47.1		
Conductivity (S/m)		6.16	6.16		
Probe SN		EX3DV4 - SN7	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.90	4.90		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.821	0.821		





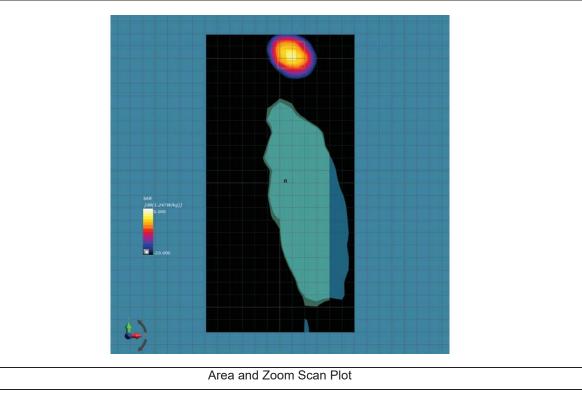
Test specification:	Test specification: Body_High_802.11n-582				
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa	a): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)	·	5825 (Channel 1	5825 (Channel 165)		
Relative permittivity (real	part)	47.1	47.1		
Conductivity (S/m)		6.16	6.16		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.90	4.90		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.842	0.842		





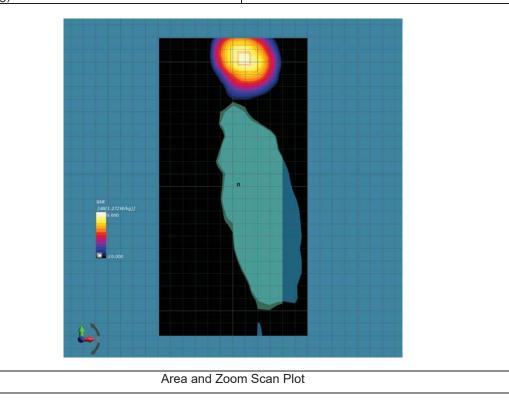
802.11n HT-40

Test specification:	Body_Low_802.1	Body_Low_802.11n HT40-5190_Left Side_0mm			
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mP	a): 1015	Result:	Pass	
Mains Power:	N/A		Result.	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai	Deon Dai			
Remarks:	-				
Frequency (MHz)		5190 (Channel 3	5190 (Channel 38)		
Relative permittivity (real	part)	48.3	48.3		
Conductivity (S/m)		5.30	5.30		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (mm)		14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.11	0.11		
SAR 1g (W/Kg)		0.655	0.655		



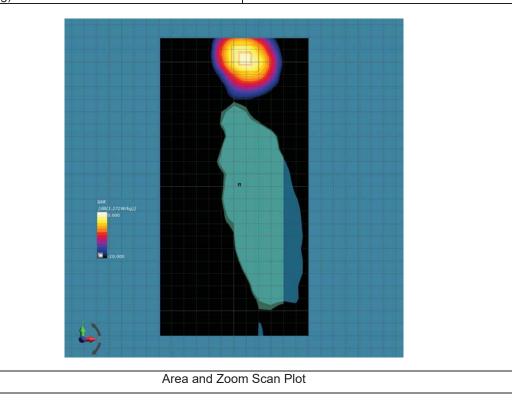


Test specification:	Body_High_802.11n HT40-5230_Left		0mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mP	a): 1015	Desults	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30	0/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5230 (Channel 40	5230 (Channel 46)		
Relative permittivity (real	part)	48.3	48.3		
Conductivity (S/m)		5.30	5.30		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.66	0.66		



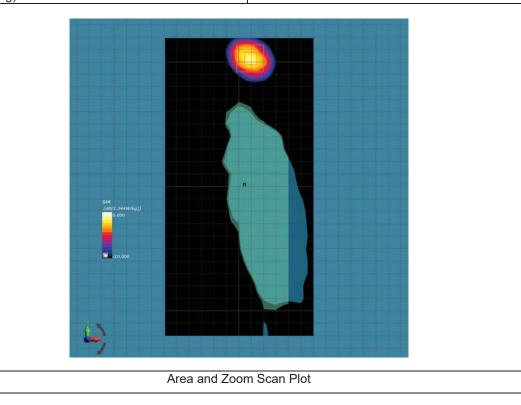


Test specification:	Decification: Body_Low_802.11n HT40-527		0mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		•		
Frequency (MHz)		5270 (Channel 5	5270 (Channel 54)		
Relative permittivity (real	l part)	48.1	48.1		
Conductivity (S/m)		5.42	5.42		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (m	וm)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.712	0.712		



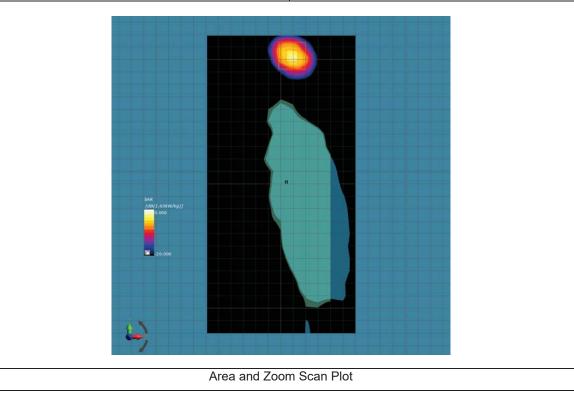


Test specification:	st specification: Body_High_802.11n HT40-		0mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa	a): 1015	Desults	Dees	
Mains Power:	N/A	·	Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5310 (Channel 6	5310 (Channel 62)		
Relative permittivity (real	part)	48.1	48.1		
Conductivity (S/m)		5.47	5.47		
Probe SN		EX3DV4 - SN746	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		5.41	5.41		
Area Scan Resolution (m	ım)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.05	0.05		
SAR 1g (W/Kg)		0.702	0.702		



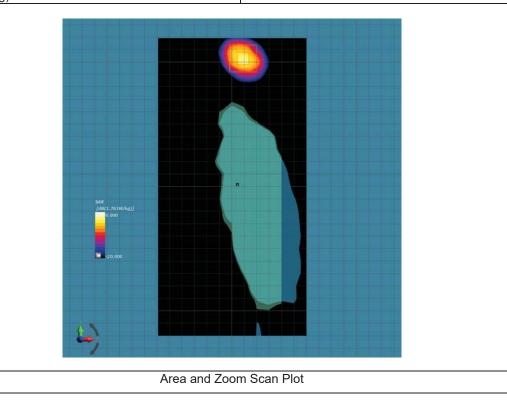


Test specification:	Body_Low_802.11n HT40-5510_Left Side_				
	Temp(oC): 23				
Environ Conditions:	Humidity (%): 44		-		
	Atmospheric(mPa): 1015	;	Result:	Pass	
Mains Power:	N/A		rtooun	1 400	
Test Date:	09/17/2019-09/30/2019				
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5510 (Channel 102)			
Relative permittivity (real part)	47.7			
Conductivity (S/m)		5.76			
Probe SN		EX3DV4 - SN7469			
DAE SN		DAE4 Sn1522			
Conversion Factor (dB)		4.65			
Area Scan Resolution (mm)		14x14			
Zoom Scan Resolution (mm)		6x6x6			
Zoom Scan Size (mm)		30x30x30			
Power Drift (dB)		0.01			
SAR 1g (W/Kg)		0.838			



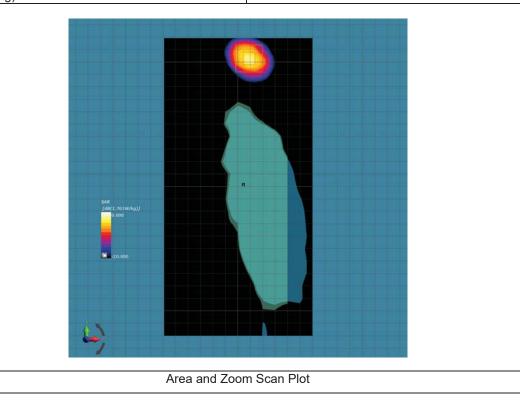


Test specification:	Body_Mid_802.11n HT40-5550_Left Side_0r		0mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa	a): 1015	Desult	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5550 (Channel 1	5550 (Channel 110)		
Relative permittivity (real	part)	47.5	47.5		
Conductivity (S/m)		5.87	5.87		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.65	4.65		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.898	0.898		



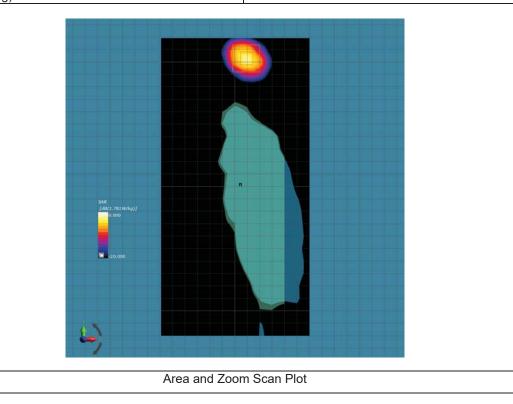


Test specification:	Body_High_802.11n HT40-5670_Le		_0mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mPa	a): 1015	Desults	Dees	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/30)/2019			
Tested by:	Deon Dai				
Remarks:	-				
Frequency (MHz)		5670 (Channel	5670 (Channel 142)		
Relative permittivity (real	part)	47.4	47.4		
Conductivity (S/m)		5.99	5.99		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.65	4.65		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0.05	0.05		
SAR 1g (W/Kg)		0.913	0.913		



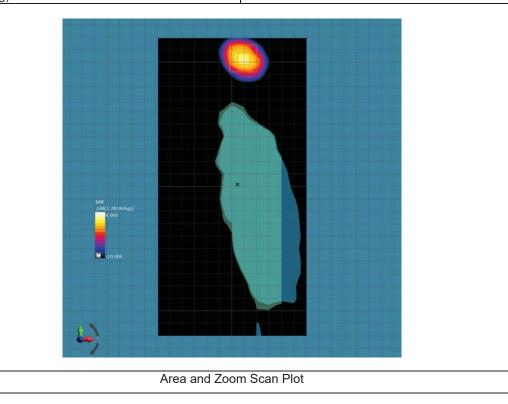


Test specification:	Body_Low_802.11n HT40-5755_Le		_0mm		
	Temp(oC): 23	Temp(oC): 23			
Environ Conditions:	Humidity (%): 44	Humidity (%): 44			
	Atmospheric(mP	a): 1015	Decult	Deee	
Mains Power:	N/A		Result:	Pass	
Test Date:	09/17/2019-09/3	0/2019			
Tested by:	Deon Dai				
Remarks:	-		·		
Frequency (MHz)	Frequency (MHz)		5775 (Channel 151)		
Relative permittivity (real	part)	47.2	47.2		
Conductivity (S/m)		6.12	6.12		
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469		
DAE SN		DAE4 Sn1522	DAE4 Sn1522		
Conversion Factor (dB)		4.9	4.9		
Area Scan Resolution (m	m)	14x14	14x14		
Zoom Scan Resolution (mm)		6x6x6	6x6x6		
Zoom Scan Size (mm)		30x30x30	30x30x30		
Power Drift (dB)		0	0		
SAR 1g (W/Kg)		0.911	0.911		





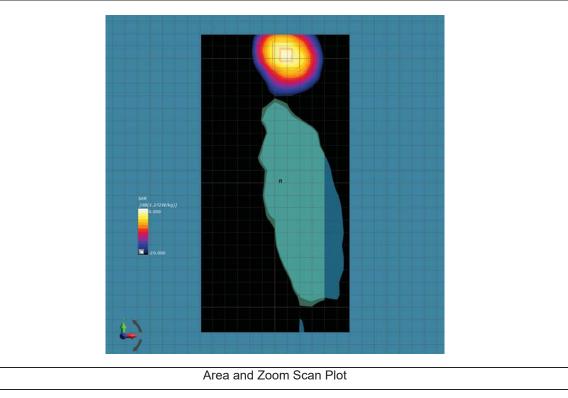
Test specification:	Body_High_802.11n HT40-5795_Left Side_0mm					
	Temp(oC): 23	Temp(oC): 23				
Environ Conditions:	Humidity (%): 44	Humidity (%): 44		Pass		
	Atmospheric(mF	Atmospheric(mPa): 1015				
Mains Power:	N/A					
Test Date:	09/17/2019-09/3	09/17/2019-09/30/2019				
Tested by:	Deon Dai					
Remarks:	-					
Frequency (MHz)		5795 (Channel 1	5795 (Channel 159)			
Relative permittivity (real part)		47.1	47.1			
Conductivity (S/m)		6.18	6.18			
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469			
DAE SN		DAE4 Sn1522	DAE4 Sn1522			
Conversion Factor (dB)		4.9	4.9			
Area Scan Resolution (mm)		14x14	14x14			
Zoom Scan Resolution (mm)		6x6x6	6x6x6			
Zoom Scan Size (mm)		30x30x30	30x30x30			
Power Drift (dB)		0	0			
SAR 1g (W/Kg)		0.883	0.883			





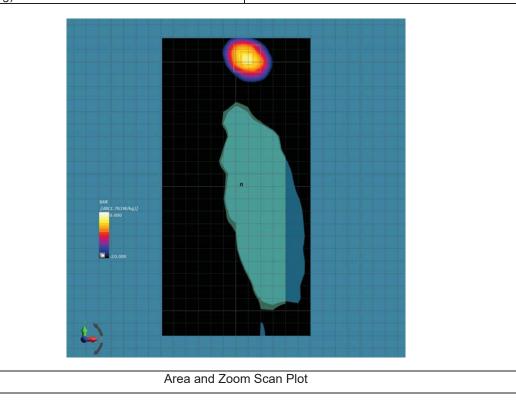
802.11ac VHT-80

Test specification:	Body_Low_802.11ac VHT80-5210_Left Side_0mm				
	Temp(oC): 23			Pass	
Environ Conditions:	Humidity (%): 44				
	Atmospheric(mPa): 1015		Result:		
Mains Power:	N/A				
Test Date:	09/17/2019-09/30/201	09/17/2019-09/30/2019			
Tested by:	Deon Dai	1			
Remarks:	-				
Frequency (MHz)		5210 (Channel 42)			
Relative permittivity (real part)		48.3			
Conductivity (S/m)		5.33			
Probe SN		EX3DV4 - SN7469			
DAE SN		DAE4 Sn1522			
Conversion Factor (dB)		5.41			
Area Scan Resolution (mm)		14x14			
Zoom Scan Resolution (mm)		6x6x6			
Zoom Scan Size (mm)		30x30x30			
Power Drift (dB)		0			
SAR 1g (W/Kg)		0.778			



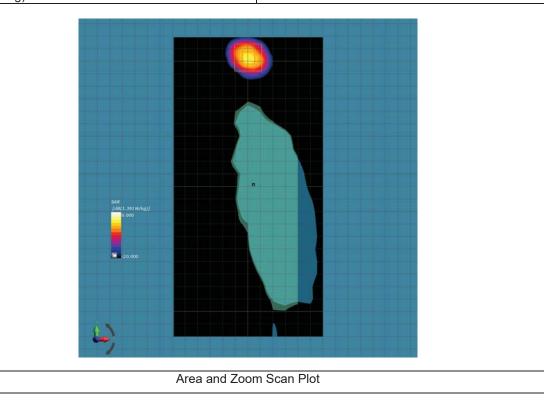


Test specification:	Body_High_802.11ac VHT80-5290_Left Side_0mm					
	Temp(oC): 23	Temp(oC): 23		Pass		
Environ Conditions:	Humidity (%): 44	Humidity (%): 44				
	Atmospheric(mPa):	Atmospheric(mPa): 1015				
Mains Power:	N/A					
Test Date:	09/17/2019-09/30/2	09/17/2019-09/30/2019				
Tested by:	Deon Dai	Deon Dai				
Remarks:	-					
Frequency (MHz)		5290 (Channel 5	5290 (Channel 58)			
Relative permittivity (real	Relative permittivity (real part)		48.1			
Conductivity (S/m)		5.44	5.44			
Probe SN		EX3DV4 - SN746	69			
DAE SN		DAE4 Sn1522	DAE4 Sn1522			
Conversion Factor (dB)		5.41	5.41			
Area Scan Resolution (mm)		14x14	14x14			
Zoom Scan Resolution (mm)		6x6x6	6x6x6			
Zoom Scan Size (mm)		30x30x30	30x30x30			
Power Drift (dB)		0	0			
SAR 1g (W/Kg)		0.774	0.774			



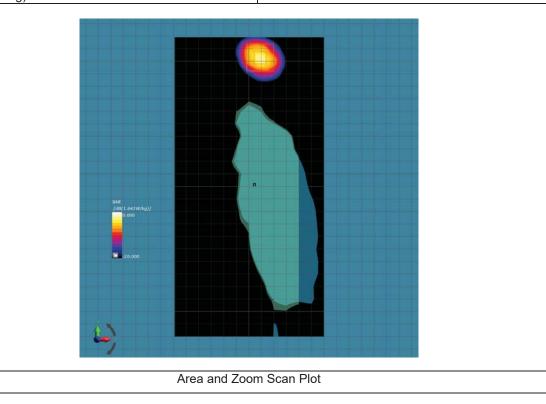


Test specification:	Body_Low_802.11ac VHT80-5530_Left Side_0mm					
	Temp(oC): 23	Temp(oC): 23				
Environ Conditions:	Humidity (%): 44	Humidity (%): 44		Pass		
	Atmospheric(mP	Atmospheric(mPa): 1015				
Mains Power:	N/A					
Test Date:	09/17/2019-09/3	09/17/2019-09/30/2019				
Tested by:	Deon Dai					
Remarks:	-		·			
Frequency (MHz)		5530 (Channel	5530 (Channel 106)			
Relative permittivity (real	part)	47.6	47.6			
Conductivity (S/m)		5.78	5.78			
Probe SN		EX3DV4 - SN74	EX3DV4 - SN7469			
DAE SN		DAE4 Sn1522	DAE4 Sn1522			
Conversion Factor (dB)		4.65	4.65			
Area Scan Resolution (mm)		14x14	14x14			
Zoom Scan Resolution (mm)		6x6x6	6x6x6			
Zoom Scan Size (mm)		30x30x30	30x30x30			
Power Drift (dB)		0	0			
SAR 1g (W/Kg)		0.748	0.748			





Test specification:	Body_Mid_802.11ac VHT80-5610_Left Side_0mm					
	Temp(oC): 23	Temp(oC): 23			Pass	
Environ Conditions:	Humidity (%): 44	Humidity (%): 44		- Result:		
	Atmospheric(mPa	Atmospheric(mPa): 1015				
Mains Power:	N/A					
Test Date:	09/17/2019-09/30	09/17/2019-09/30/2019				
Tested by:	Deon Dai	Deon Dai		1		
Remarks:	-				•	
Frequency (MHz)		5610 (5610 (Channel 122)			
Relative permittivity (real	part)	47.5	47.5			
Conductivity (S/m)		5.91	5.91			
Probe SN		EX3D\	/4 - SN7469			
DAE SN		DAE4	DAE4 Sn1522			
Conversion Factor (dB)		4.65	4.65			
Area Scan Resolution (mm)		14x14	14x14			
Zoom Scan Resolution (mm)		6x6x6	6x6x6			
Zoom Scan Size (mm)		30x30>	30x30x30			
Power Drift (dB)		0.04	0.04			
SAR 1g (W/Kg)		0.868	0.868			





Test specification:	Body_Mid_802.11ac VHT80-5775_Left Side_0mm					
	Temp(oC): 23	Temp(oC): 23				
Environ Conditions:	Humidity (%): 44	Humidity (%): 44		Pass		
	Atmospheric(mP	Atmospheric(mPa): 1015				
Mains Power:	N/A					
Test Date:	09/17/2019-09/3	09/17/2019-09/30/2019				
Tested by:	Deon Dai					
Remarks:	-					
Frequency (MHz)		5775 (Channel	5775 (Channel 155)			
Relative permittivity (real part)		47.5	47.5			
Conductivity (S/m)		5.91	5.91			
Probe SN		EX3DV4 - SN7	EX3DV4 - SN7469			
DAE SN		DAE4 Sn1522	DAE4 Sn1522			
Conversion Factor (dB)		4.65	4.65			
Area Scan Resolution (mm)		14x14	14x14			
Zoom Scan Resolution (mm)		6x6x6	6x6x6			
Zoom Scan Size (mm)		30x30x30	30x30x30			
Power Drift (dB)		0	0			
SAR 1g (W/Kg)		0.911	0.911			

