SAR Test Report

Report No.: AGC11563210703FH01

FCC ID	:	2ATFO-CP100
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Intelligent conference control tablet
BRAND NAME	:	N/A
MODEL NAME	:	CP100, CP100W, CT100, CM100, CP100M, RT10, VHD-CP100, VHD-CP100W, VHD-CT100, VHD-CM100, VHD-CP100M, VHD-RT10, CM800, VHD-CM800
APPLICANT	:	ValueHD Corporation
DATE OF ISSUE	:	Sep. 08,2021
STANDARD(S)	:	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093:2013 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016
REPORT VERSION	:	V1.0

Attestation of Global Compliance(Shenzhen) Co., Ltd.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 08,2021	Valid	Initial Release

Test Report

Applicant Name	ValueHD Corporation
Applicant Address	2-3/F, No. 2; 1F, 2F, 9F, No.1, Honghui Industrial Park, Xin'an Street, Bao'an District, Shenzhen
Manufacturer Name	ValueHD Corporation
Manufacturer Address	2-3/F, No. 2; 1F, 2F, 9F, No.1, Honghui Industrial Park, Xin'an Street, Bao'an District, Shenzhen
Factory Name	ValueHD Corporation
Factory Address	2-3/F, No. 2; 1F, 2F, 9F, No.1, Honghui Industrial Park, Xin'an Street, Bao'an District, Shenzhen
Product Designation	Intelligent conference control tablet
Brand Name	N/A
Model Name	CP100, CP100W, CT100, CM100, CP100M, RT10, VHD-CP100, VHD-CP100W, VHD-CT100, VHD-CM100, VHD-CP100M, VHD-RT10, CM800, VHD-CM800
Different Description	All the models are the same, only different in model names.
EUT Voltage	DC5V by adapter
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093:2013 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016
Test Date	Jul. 22,2021 to Jul. 27,2021
Report Template	AGCRT- US -5G/SAR (2021-04-20)

Note: The results of testing in this report apply to the product/system which was tested only.

Prepared By: Thea Huang

Thea Huang (Project Engineer) Jul. 27,2021

Reviewed By: Angela Li

Angela Li (Reviewer) Sep. 08,2021

Approved By: Forrest Lei

Forrest Lei (Authorized Officer) Sep. 08,2021

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1. SUMMARY OF MAXIMUM SAR VALUE

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

Frequency Band	Highest Reported 1g-SAR(W/kg) Body-worn(with 0mm separation)	SAR Test Limit (W/kg)
2.4G WIFI	1.070	1.6
5.2GHz (U-NII-1)	0.684	
5.3GHz U-NII-2A	0.505	
5.5GHz U-NII-2C	0.817	
5.8GHz U-NII-3	1.195	
SAR Test Result	PASS	

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:2005 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02
- KDB 616217 D04 SAR for laptop and tablets v01r02

2. GENERAL INFORMATION

2.1. EUT Description

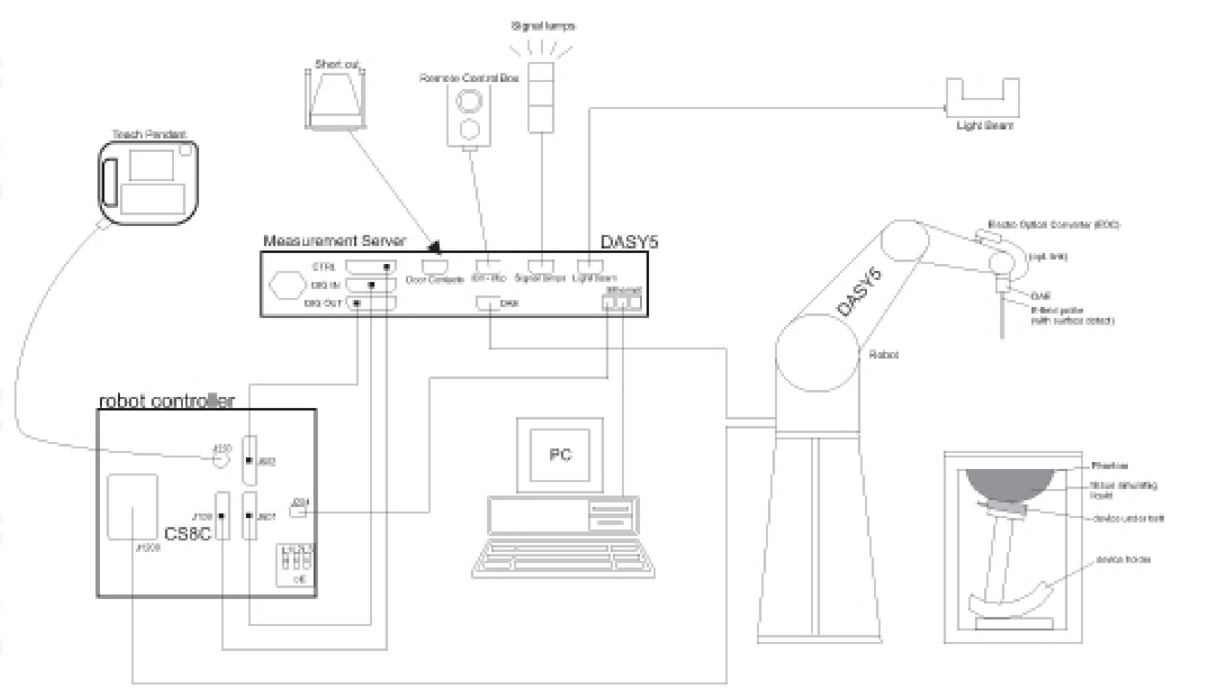
General Information	
Product Designation	Intelligent conference control tablet
Test Model	CP100
Hardware Version	1.0
Software Version	1.0
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
Bluetooth	
Operation Frequency	2402~2480MHz
Antenna Gain	1.65dBi
Bluetooth Version	V5.0
Type of modulation	**BR/EDR**: GFSK, Π/4-DQPSK, 8-DPSK; **BLE:** GFSK
Peak Output Power	**BR/EDR**: 6.502dBm; **BLE:** 4.854dBm
2.4GHz WIFI	
WIFI Specification	☐802.11a ☒802.11b ☒802.11g ☒802.11n(20) ☒802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 15.82dBm,11g: 13.25dBm,11n(20): 12.57dBm,11n(40): 12.26dBm
Antenna Gain	1.65dBi
5 GHz WIFI	
WIFI Specification	☒802.11a ☒802.11n20 ☒802.11n40 ☒802.11ac20 ☒802.11ac40 ☒802.11ac80
Operation Frequency	U-NII-1: 5180MHz~5240MHz; U-NII-2A: 5260MHz~5320MHz; U-NII-2C: 5500MHz~5720MHz;U-NII-3: 5745MHz~5825MHz
Max. conducted Power	U-NII-1: 15.57dBm; U-NII-2A: 13.29dBm; U-NII-2C: 13.60dBm; U-NII-3: 13.13dBm
Antenna Gain	1.45dBi
Power Supply	DC5V by adapter

Note: 1.The sample used for testing is end product.
2.Duty-cycle = [on time/total time] x 100%
3. The test sample has no any deviation to the test method of standard mentioned in page 1.

Product	Type	
	☒ Production unit	☐ Identical Prototype

3. SAR MEASUREMENT SYSTEM

3.1. The DASY5 system used for performing compliance tests consists of following items



- A standard high precision 6-axis robot with controller, teach pendant and software.
- Data acquisition electronics (DAE) which attached to the robot arm extension. The DAE consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder 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
- A dosimetric probe equipped with an optical surface detector system.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital Communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- A Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- Phantoms, device holders and other accessories according to the targeted measurement.

3.2. DASY5 E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SPEAG. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE-1528 etc.)Under ISO17025.The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	EX3DV4-SN:3953	
Manufacture	SPEAG	
frequency	0.7GHz-6GHz Linearity:±0.9%(k=2)	
Dynamic Range	0.01W/kg-100W/kg Linearity: ±0.9%(k=2)	
Dimensions	Overall length:337mm Tip diameter:2.5mm Typical distance from probe tip to dipole centers:1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

3.3. Data Acquisition Electronics description

The data acquisition electronics (DAE) consist if a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement sever is accomplished through an optical downlink fir 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. They are used for mechanical surface detection and probe collision detection.

DAE4

Input Impedance	200MOhm	
The Inputs	Symmetrical and floating	
Common mode rejection	above 80 dB	

3.4. Robot

The DASY system uses the high precision robots (DASY5:TX60) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from is used.
The XL robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller

3.5. 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 is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.
The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned prob.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position. e, the same position will be reached with another aligned probe within 0

3.6. Device Holder

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR). Thus the device needs no repositioning when changing the angles. The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε=3 and loss tangent δ = 0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.	

3.7. Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chip-disk (DASY5: 128MB), RAM (DASY5: 128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DAYS I/O board, which is directly connected to the PC/104 bus of the CPU board. The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.	

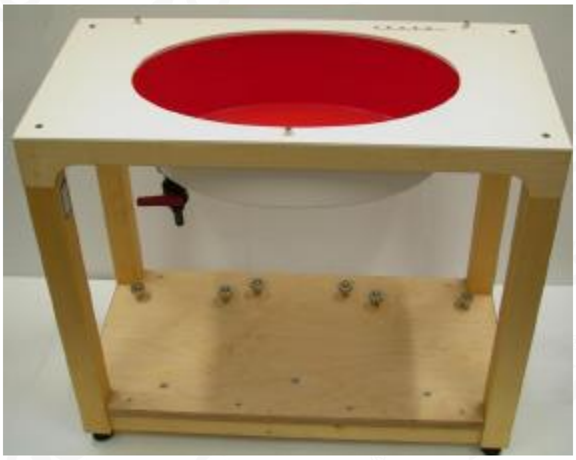
3.8. PHANTOM

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas: □ Left head □ Right head □ Flat phantom	

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

ELI4 Phantom

□ Flat phantom a fiberglass shell flat phantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom	

4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in 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 occupational/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 given mass 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 can be obtained using either of the following equations:

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

$$SAR = c_h \left.\frac{dT}{dt}\right|_{t=0}$$

Where

SAR is the specific absorption rate in watts per kilogram;
E is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ is the conductivity of the tissue in siemens per metre;
ρ is the density of the tissue in kilograms per cubic metre;
c_h is the heat capacity of the tissue in joules per kilogram and Kelvin;

$\frac{dT}{dt} | t = 0$ is the initial time derivative of temperature in the tissue in kelvins per second

4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance os sensor calibration points to probe tip as `defined in the probe properties,

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

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

Step 3: Zoom Scan

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

Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

<table>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}</td><td>≤ 2 GHz: ≤ 8 mm
2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*
4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm
4 – 5 GHz: ≤ 3 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm
4 – 5 GHz: ≤ 2.5 mm
5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm
4 – 5 GHz: ≥ 25 mm
5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
* When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

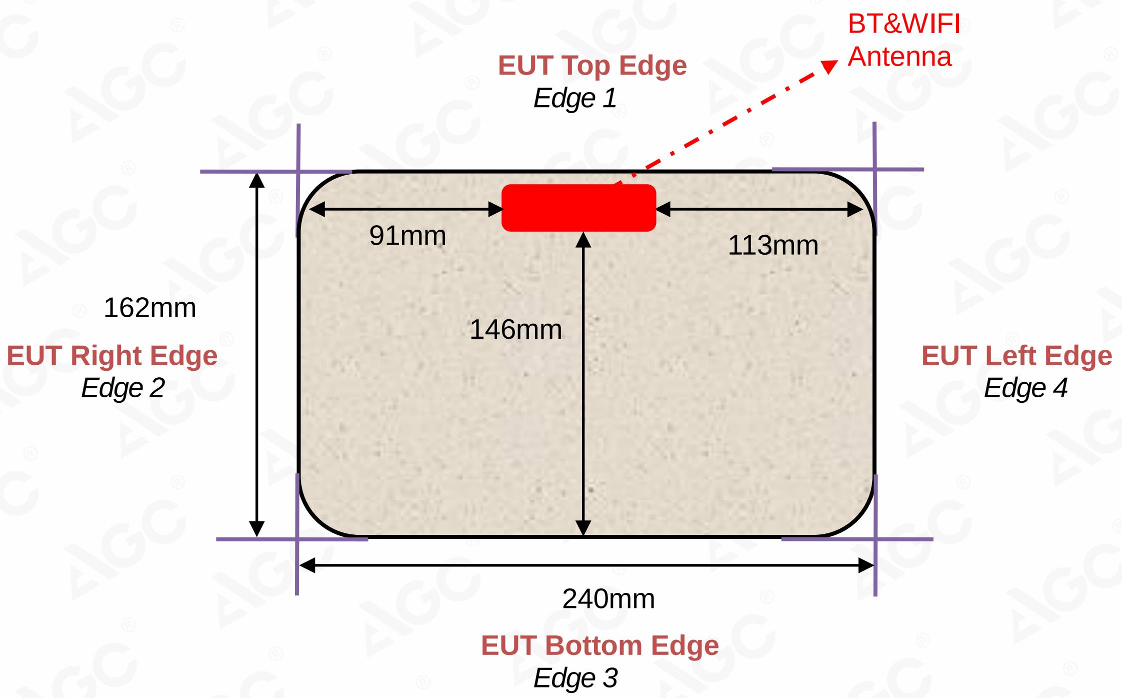
4.3. RF Exposure Conditions

Test Configuration and setting:

For WLAN testing, the EUT is configured with the WLAN continuous TX tool through engineering command.

2.4GHz WIFI and 5GHz WIFI share the same antenna, and cannot transmit simultaneously.

Antenna Location: (the back view)



SAR Test Exclusion Consideration for Adjacent Edges

Per KDB 447498 D01 cl. 4.3.1:

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for1-g SAR, and ≤ 7.5 for 10-g extremity SAR.

b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)•(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz

2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)•10]} mW, for > 1500 MHz and ≤ 6 GHz

1-g SAR test exclusion thresholds for WWAN					
Test Mode	Test position	Edge 1 (11mm)	Edge 2 (91mm)	Edge 3 (146mm)	Edge 4 (113mm)
2.4G WIFI	SAR test exclusion thresholds(mW)	**21.03**	**505.59**	**1055.59**	**725.60**
	SAR Max. Avg. Burst Power(mW)	38.19	38.19	38.19	38.19
	SAR required (Yes/No)	Yes	No	No	No
5.2GHz (U-NII-1)	SAR test exclusion thresholds(mW)	**14.43**	**475.59**	**1025.59**	**695.59**
	SAR Max. Avg. Burst Power(mW)	36.06	36.06	36.06	36.06
	SAR required (Yes/No)	Yes	No	No	No
5.3GHz U-NII-2A	SAR test exclusion thresholds(mW)	**14.39**	**475.40**	**1025.40**	**695.40**
	SAR Max. Avg. Burst Power(mW)	21.33	21.33	21.33	21.33
	SAR required (Yes/No)	Yes	No	No	No
5.5GHz U-NII-2C	SAR test exclusion thresholds(mW)	**13.82**	**472.83**	**1022.83**	**692.83**
	SAR Max. Avg. Burst Power(mW)	22.91	22.91	22.91	22.91
	SAR required (Yes/No)	Yes	No	No	No
5.8GHz U-NII-3	SAR test exclusion thresholds(mW)	**13.77**	**472.58**	**1022.58**	**692.58**
	SAR Max. Avg. Burst Power(mW)	20.56	20.56	20.56	20.56
	SAR required (Yes/No)	Yes	No	No	No

BT:

P_t=6.502dBm=4.469mW

The result for RF exposure evaluation SAR=(4.469mW /5mm) .[√2.480(GHz)]=1.408<3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

CONCLUSION

WIFI's Edge2, Edge3, Edge4 and BT do not require SAR evaluation.

5. TISSUE SIMULATING LIQUID

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 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 10% are listed in 6.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) / Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2-Propanediol	Triton X-100	Diethylen glycol monohexylether
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0
5000 Head	65.52	0.0	0.0	0.0	0.0	17.24	17.24

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1 have been incorporated in the following table. The body tissue dielectric parameters recommended by the IEC 62209-2 have been incorporated in the following table.

Target Frequency (MHz)	head		body	
	εr	σ (S/m)	εr	σ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
835	41.5	0.90	41.5	0.90
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
1800 – 2000	40.0	1.40	40.0	1.40
2450	**39.2**	**1.80**	**39.2**	**1.80**
3000	38.5	2.40	38.5	2.40
5200	**36.0**	**4.66**	**36.0**	**4.66**
5300	**35.9**	**4.76**	**35.9**	**4.76**
5600	**35.5**	**5.07**	**35.5**	**5.07**
5800	**35.3**	**5.27**	**35.3**	**5.27**

(εr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3)

5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using DASY 5 Dielectric Probe Kit and R&S Network Analyzer ZVL6.

Tissue Stimulant Measurement for 2450MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr39.2(35.28-43.12)	δ[s/m]1.80(1.62-1.98)		
Head	2412	41.36	1.76	21.4	Jul. 22,2021
	2437	40.68	1.80		
	2450	39.74	1.82		
	2462	38.52	1.88		

Tissue Stimulant Measurement for 5200MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 36.0(32.4-39.6)	δ[s/m] 4.66(4.194 -5.126)		
Head	5190	36.12	4.59	21.0	Jul. 26,2021
	5200	35.87	4.61		
	5230	34.77	4.65		

Tissue Stimulant Measurement for 5300MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 35.9(32.31-39.49)	δ[s/m] 4.76(4.284-5.236)		
	5300	36.69	4.83	21.0	Jul. 26,2021

Tissue Stimulant Measurement for 5600MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		Er 35.5 (31.95-39.05)	δ[s/m] 5.07(4.563 -5.577)		
Head	5500	36.85	4.92	21.9	Jul. 27,2021
	5600	35.81	4.95		
	5700	34.63	5.01		

Tissue Stimulant Measurement for 5800MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 35.3 (31.77-38.83)	δ[s/m] 5.27 (4.743-5.797)		
Head	5745	37.68	5.37	21.9	Jul. 27,2021
	5785	37.13	5.46		
	5800	36.04	5.48		
	5825	35.22	5.52		

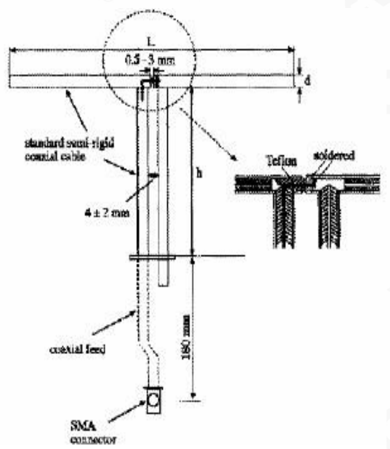
6. SAR SYSTEM CHECK PROCEDURE

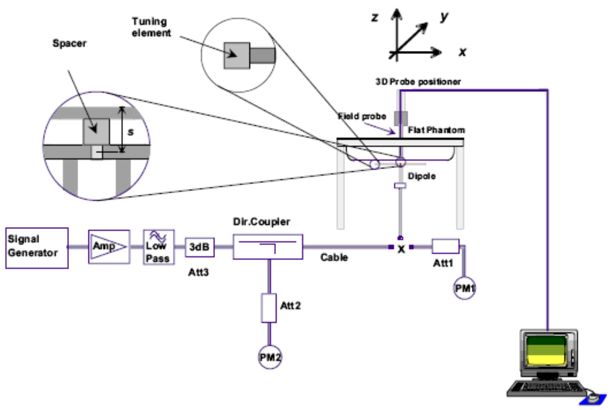
6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

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

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.





6.2. SAR System Check
6.2.1. Dipoles

	The dipoles used are based on the IEEE-1528 standard, the table below provides details for the mechanical and electrical specifications for the dipoles.
	The wave guide is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. The table below provides details for the mechanical and electrical specifications for the wave guide.

Frequency	L (mm)	h (mm)	d (mm)
2450MHz	51.5	30.4	3.6

Frequency	L (mm)	W (mm)	L_f (mm)	W_f (mm)
5000MHz	40.39	20.19	81.03	61.98

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

6.2.2. System Check Result

System Performance Check at 2450MHz&5000-6000MHz for Head								
Validation Kit: D2450V2-SN:968& SN 15/15 WGA 36								
Frequency [MHz]	Target Value(W/kg)		Reference Result (± 10%)		Tested Value(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
2450	53.6	25.0	48.24-58.96	22.50-27.50	51.19	23.61	21.4	Jul. 22,2021
5200	161.18	55.04	145.062-177.298	49.536-60.544	165.00	53.70	21.0	Jul. 26,2021
5200	161.18	55.04	145.062-177.298	49.536-60.544	171.00	54.60	21.0	Jul. 26,2021
5600	175.94	59.03	158.364-193.534	53.127-64.933	169.00	58.10	21.9	Jul. 27,2021
5800	181.69	60.11	163.521-199.859	54.099-66.121	174.00	63.00	21.9	Jul. 27,2021

Note:
(1) We use a CW signal of 18dBm(2450MHz), 10dBm(5000-6000MHz)for system check, and then all SAR values are normalized to 1W forward power. The result must be within ±10% of target value.

7. EUT TEST POSITION

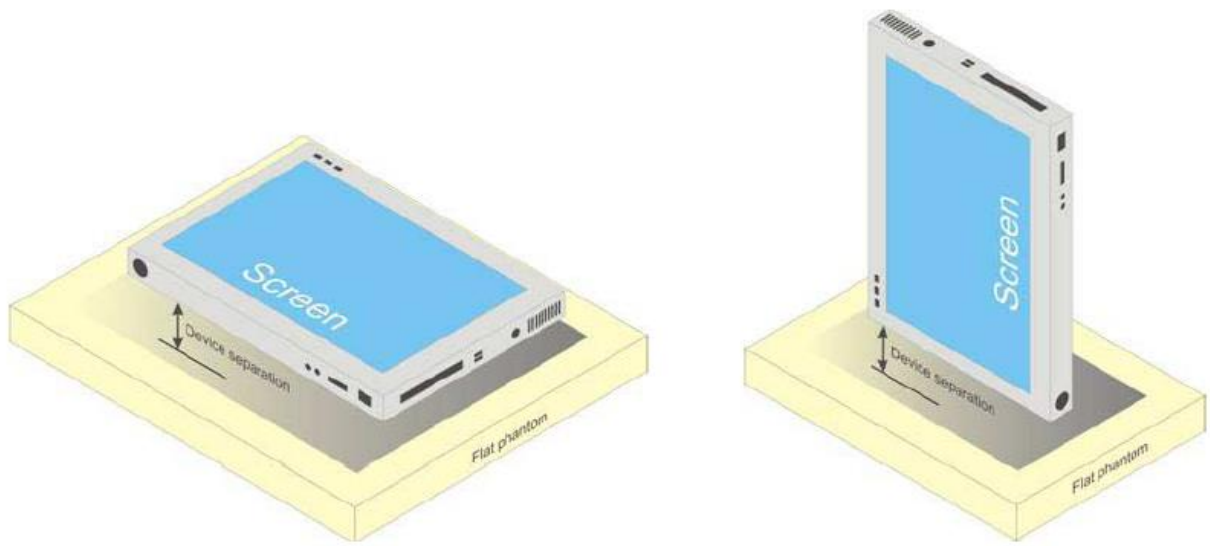
This EUT was tested in **Body back, Body front, Edge1, Edge2 and Edge4.**

7.1. Body Worn Position

(1) To position the EUT parallel to the phantom surface.

(2) To adjust the EUT parallel to the flat phantom.

(3) To adjust the distance between the EUT surface and the flat phantom to **0mm.**



8. SAR EXPOSURE LIMITS

Limits for General Population/Uncontrolled Exposure (W/kg)

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (1g cube tissue for brain or body)	1.60
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.0

9. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date
Stäubli Robot	Stäubli-TX60	F13/5Q2UD1/A/01	N/A	N/A
Robot Controller	Stäubli-CS8	139522	N/A	N/A
E-Field Probe	Speag- EX3DV4	SN:3953	Jul. 29,2020	Jul. 28,2021
ELI4 Phantom	ELI V5.0	1210	N/A	N/A
Device Holder	Speag-SD 000 H01 KA	SD 000 H01 KA	N/A	N/A
DAE4	Speag-SD 000 D04 BM	1398	May 17,2021	May 16,2022
SAR Software	Speag-DASY5	DASY52.8.7.1137	N/A	N/A
Liquid	SATIMO	-	N/A	N/A
Dipole	D2450V2	SN968	July 31,2018	July 30,2021
Wave guide	SWG5500	SN 15/15 WGA 36	Apr. 26,2019	Apr. 25,2022
Signal Generator	Agilent-E4438C	US41461365	Aug. 21,2020	Aug. 20,2021
Vector Analyzer	Agilent / E4440A	US41421290	Sep. 06,2020	Sep. 05,2021
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	Oct. 16,2020	Oct. 15,2021
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F 1	June 09,2021	June 08,2022
Attenuator	Mini-circuits / VAT-10+	31405	June 09,2021	June 08,2022
Amplifier	AS0104-55_55	1004793	June 10,2021	June 09,2022
Directional Couple	Werlatone/ C5571-10	SN99463	May 15,2020	May 14,2022
Directional Couple	Werlatone/ C6026-10	SN99482	May 15,2020	May 14,2022
Power Sensor	NRP-Z21	1137.6000.02	Sep. 08,2020	Sep. 07,2021
Power Sensor	NRP-Z23	100323	Feb. 17,2021	Feb. 16,2022
Power Viewer	R&S	V2.3.1.0	N/A	N/A

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:
1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

11. MEASUREMENT UNCERTAINTY

DASY Uncertainty- EX3DV4 Measurement uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration	E.2.1	6.65	N	1	1	1	6.65	6.65	∞
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	√0.5	√0.5	0.24	0.24	∞
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	√0.5	√0.5	0.65	0.65	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	0.45	R	$\sqrt{3}$	1	1	0.26	0.26	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E2.5	3.3	R	$\sqrt{3}$	1	1	1.91	1.91	∞
Readout Electronics	E.2.6	0.15	N	1	1	1	0.15	0.15	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	1	1	0.98	0.98	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.23	0.23	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Test sample Related									
Test sample positioning	E.4.2	2.9	N	1	1	1	2.90	2.90	∞
Device holder uncertainty	E.4.1	3.6	N	1	1	1	3.60	3.60	∞
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				11.79	11.63	
Expanded Uncertainty (95% Confidence interval)			K=2				23.59	23.26	

DASY Uncertainty- EX3DV4 System Check uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration drift	E.2.1	0.5	N	1	1	1	0.5	0.5	∞
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Linearity	E.2.4	0.45	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Modulation response	E2.5	3.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.15	N	1	0	0	0.00	0.00	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.37	0.37	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				7.34	7.07	
Expanded Uncertainty (95% Confidence interval)			K=2				14.67	14.14	

DASY Uncertainty- EX3DV4 System Validation uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration	E.2.1	6.65	N	1	1	1	6.65	6.65	∞
Axial Isotropy	E.2.2	0.6	R	√3	1	1	0.35	0.35	∞
Hemispherical Isotropy	E.2.2	1.6	R	√3	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1	R	√3	1	1	0.58	0.58	∞
Linearity	E.2.4	0.45	R	√3	1	1	0.26	0.26	∞
System detection limits	E.2.4	1	R	√3	1	1	0.58	0.58	∞
Modulation response	E2.5	3.3	R	√3	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.15	N	1	1	1	0.15	0.15	∞
Response Time	E.2.7	0	R	√3	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	√3	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3	R	√3	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3	R	√3	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	√3	1	1	0.23	0.23	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	√3	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	√3	1	1	2.31	2.31	∞
System check source (dipole)									
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	√3	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	√3	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	√3	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				11.45	11.28	
Expanded Uncertainty (95% Confidence interval)			K=2				22.89	22.55	

12. CONDUCTED POWER MEASUREMENT

WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	14.32
		06	2437	15.30
		11	2462	**15.82**
802.11g	6	01	2412	11.90
		06	2437	12.51
		11	2462	13.25
802.11n(20)	6.5	01	2412	11.28
		06	2437	11.98
		11	2462	12.57
802.11n(40)	13.5	03	2422	11.56
		06	2437	12.13
		09	2452	12.26

Bluetooth_BR/EDR

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	3.709
	39	2441	4.003
	78	2480	4.902
π /4-DQPSK	0	2402	4.994
	39	2441	5.066
	78	2480	6.172
8-DPSK	0	2402	5.270
	39	2441	5.580
	78	2480	**6.502**

Bluetooth_BLE

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK 1M	0	2402	2.719
	19	2440	3.944
	39	2480	**4.854**
GFSK 2M	0	2402	2.685
	19	2440	3.883
	39	2480	4.829

5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	12.20	12.05	11.98	11.87	11.70	11.62	11.53	11.44
	40	5200	12.79	12.66	12.53	12.44	12.30	12.23	12.12	12.06
	44	5220	12.65	12.55	12.37	12.25	12.20	12.06	11.97	11.91
	48	5240	13.06	12.94	12.79	12.67	12.57	12.50	12.43	12.29
	52	5260	**13.29**	13.18	13.02	12.93	12.85	12.74	12.62	12.57
	56	5280	12.95	12.82	12.67	12.58	12.49	12.43	12.27	12.21
	60	5300	13.06	12.85	12.79	12.73	12.59	12.47	12.41	12.32
	64	5320	13.00	12.82	12.74	12.68	12.53	12.43	12.31	12.25
	100	5500	11.63	11.46	11.34	11.26	11.13	11.02	10.95	10.91
	104	5520	12.02	11.87	11.69	11.60	11.56	11.46	11.37	11.29
	108	5540	12.56	12.37	12.30	12.15	12.04	11.97	11.92	11.81
	112	5560	12.82	12.69	12.56	12.42	12.31	12.26	12.19	12.05
	116	5580	13.16	13.05	12.96	12.78	12.69	12.54	12.47	12.41
	120	5600	13.58	13.49	13.35	13.22	13.14	13.03	12.91	12.86
	124	5620	13.42	13.32	13.23	13.00	12.93	12.83	12.71	12.66
	128	5640	13.33	13.17	13.09	12.95	12.81	12.66	12.63	12.52
	132	5660	13.25	13.12	13.04	12.88	12.75	12.56	12.53	12.43
	136	5680	13.11	12.96	12.86	12.73	12.63	12.46	12.41	12.35
	140	5700	12.93	12.81	12.66	12.54	12.53	12.40	12.23	12.18
	149	5745	12.61	12.47	12.38	12.25	12.12	12.04	11.97	11.86
	157	5785	12.59	12.51	12.38	12.25	12.13	12.06	11.93	11.80
	165	5825	12.57	12.46	12.37	12.22	12.10	12.02	11.87	11.77

Mode	channel	Frequency	Power(dBm) Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	11.87	11.74	11.59	11.51	11.44	11.35	11.18	11.14
	40	5200	12.28	12.18	11.97	11.87	11.86	11.71	11.58	11.49
	44	5220	12.15	12.03	11.83	11.78	11.71	11.62	11.49	11.32
	48	5240	12.76	12.67	12.48	12.35	12.32	12.21	12.04	12.01
	52	5260	12.77	12.67	12.50	12.37	12.31	12.25	12.07	11.98
	56	5280	12.65	12.49	12.41	12.32	12.18	12.06	11.95	11.86
	60	5300	12.71	12.58	12.53	12.39	12.24	12.14	11.99	11.94
	64	5320	12.77	12.62	12.52	12.42	12.31	12.19	12.09	12.05
	100	5500	11.25	11.13	10.98	10.86	10.85	10.68	10.55	10.49
	104	5520	11.42	11.28	11.19	11.06	10.93	10.80	10.75	10.60
	108	5540	11.76	11.68	11.55	11.38	11.24	11.20	11.11	10.95
	112	5560	12.35	12.24	12.15	11.97	11.88	11.79	11.61	11.58
	116	5580	12.56	12.44	12.29	12.17	12.07	12.03	11.93	11.79
	120	5600	13.08	12.99	12.85	12.67	12.61	12.53	12.41	12.36
	124	5620	12.81	12.71	12.59	12.44	12.35	12.29	12.13	12.07
	128	5640	12.67	12.51	12.43	12.34	12.21	12.08	12.02	11.91
	132	5660	12.42	12.29	12.21	12.09	11.93	11.88	11.73	11.67
	136	5680	12.36	12.21	12.11	11.99	11.86	11.75	11.68	11.64
	140	5700	12.58	12.46	12.31	12.16	12.12	12.02	11.93	11.85
	149	5745	12.27	12.13	12.04	11.86	11.75	11.68	11.63	11.52
	157	5785	12.27	12.19	12.06	11.92	11.81	11.69	11.61	11.47
	165	5825	12.23	12.12	12.03	11.90	11.79	11.63	11.49	11.45
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (40)	38	5190	14.89	14.79	14.61	14.53	14.47	14.32	14.21	14.14
	46	5230	**15.57**	15.45	15.37	15.23	15.13	15.05	14.91	14.83
	54	5270	12.60	12.51	12.37	12.24	12.16	12.07	11.94	11.91
	62	5310	12.53	12.43	12.31	12.16	12.07	12.04	11.86	11.80
	102	5510	11.41	11.25	11.17	11.11	10.95	10.83	10.76	10.65
	110	5550	11.32	11.19	11.11	11.05	10.86	10.76	10.63	10.57
	118	5590	11.03	10.88	10.78	10.73	10.60	10.46	10.35	10.31
	126	5630	11.85	11.73	11.58	11.46	11.45	11.33	11.25	11.12
	134	5670	12.05	11.94	11.83	11.70	11.56	11.48	11.41	11.35
	151	5755	11.99	11.96	11.79	11.65	11.53	11.46	11.37	11.25
	159	5795	12.08	11.97	11.88	11.75	11.64	11.53	11.39	11.38

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	12.96	12.81	12.74	12.65	12.5	12.41	12.29	12.2
	40	5200	13.47	13.34	13.21	13.15	13.04	12.95	12.78	12.74
	44	5220	13.32	13.22	13.04	12.97	12.9	12.75	12.64	12.57
	48	5240	13.79	13.67	13.52	13.45	13.35	13.26	13.16	13.02
	52	5260	12.38	12.29	12.15	12.02	11.94	11.83	11.71	11.66
	56	5280	12.17	12.07	11.95	11.8	11.71	11.65	11.49	11.43
	60	5300	12.21	12.05	11.97	11.88	11.74	11.62	11.56	11.45
	64	5320	11.52	11.39	11.31	11.25	11.08	10.97	10.83	10.77
	100	5500	11.66	11.51	11.41	11.33	11.21	11.11	10.98	10.94
	104	5520	11.79	11.67	11.52	11.42	11.44	11.30	11.14	11.06
	108	5540	12.08	11.94	11.85	11.75	11.64	11.52	11.49	11.36
	112	5560	12.13	12.05	11.92	11.79	11.71	11.62	11.52	11.37
	116	5580	12.22	12.11	12.02	11.90	11.79	11.69	11.55	11.52
	120	5600	12.47	12.29	12.21	12.16	12.05	11.91	11.86	11.75
	124	5620	12.65	12.81	12.74	12.66	12.51	12.43	12.30	12.24
	128	5640	12.87	12.77	12.65	12.52	12.42	12.38	12.19	12.13
	132	5660	13.11	12.95	12.87	12.81	12.65	12.53	12.46	12.35
	136	5680	13.52	13.39	13.31	13.25	13.06	12.96	12.83	12.77
	140	5700	**13.60**	13.45	13.35	13.25	13.14	13.02	12.92	12.88
	149	5745	**13.13**	13.03	12.87	12.77	12.73	12.64	12.49	12.41
	157	5785	12.54	12.43	12.32	12.19	12.05	12.02	11.91	11.80
	165	5825	12.29	12.26	12.09	11.95	11.83	11.81	11.69	11.55
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	11.89	11.74	11.67	11.58	11.43	11.34	11.22	11.13
	46	5230	12.59	12.46	12.33	12.27	12.16	12.07	11.9	11.86
	54	5270	12.07	11.97	11.79	11.72	11.65	11.52	11.40	11.32
	62	5310	12.39	12.27	12.12	12.05	11.95	11.89	11.77	11.62
	102	5510	11.08	10.99	10.85	10.72	10.64	10.53	10.41	10.36
	110	5550	11.03	10.93	10.81	10.66	10.57	10.51	10.35	10.29
	118	5590	11.47	11.31	11.23	11.16	11.01	10.91	10.82	10.73
	126	5630	11.35	11.22	11.14	11.06	10.89	10.79	10.66	10.63
	134	5670	13.33	13.18	13.08	13.03	12.88	12.76	12.65	12.66
	151	5755	12.84	12.72	12.57	12.50	12.47	12.35	12.19	12.16
	159	5795	12.33	12.19	12.1	12.02	11.88	11.80	11.69	11.58
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	11.24	11.12	10.97	10.92	10.86	10.71	10.61	10.47
	58	5290	10.80	10.71	10.57	10.44	10.36	10.25	10.13	10.08
	106	5530	11.60	11.51	11.38	11.23	11.14	11.08	10.92	10.86
	122	5610	11.49	11.33	11.25	11.16	11.02	10.93	10.85	10.76
	138	5690	11.29	11.16	11.08	10.97	10.82	10.77	10.61	10.55
	155	5775	10.12	9.97	9.87	9.77	9.66	9.59	9.47	9.43

13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Body SAR was performed with the device 0mm from the phantom

13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
   (1) When the original highest measured SAR is ≥0.8W/kg, repeat that measurement once.
   (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥1.45 W/kg.
   (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
3. Per KDB616217 D04 v01r02, The antennas in tablets are typically located near the back (bottom) surface and/or along the edges of the devices; therefore, SAR evaluation is required for these configurations. Exposures from antennas through the front (top) surface of the display section of a full-size tablet, away from the edges, are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary, except for tablets that are designed to require continuous operations with the hand(s) next to the antenna(s).
4. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
   Maximum Scaling SAR =tested SAR (Max.) × [maximum tune-up power (mw)/ maximum measurement output power(mw)]
5. Per KDB 248227 D01 v02r02 Chapter 5.2.2, when SAR measurement is required for 2.4GHz 802.11g/n OFDM configurations, the measurement and test reducing procedures for OFDM are applied. SAR is not required for the following 2.4 GHz OFDM conditions.
   (1) When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
   (2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is≤1.2 W/kg,

5. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

(1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.

(2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 54.1					
Product: Intelligent conference control tablet									
Test Mode: 2.4GHz WIFI									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/Kg)**	**Limit W/kg**
Body back	DTS	06	2437	0.13	0.393	15.90	15.30	0.451	1.6
Edge 1 (Top)	DTS	01	2412	-0.18	1.000	14.40	14.32	1.019	1.6
Edge 1 (Top)	DTS	06	2437	-0.11	0.809	15.90	15.30	0.929	1.6
Edge 1 (Top)	DTS	11	2462	0.10	**1.050**	15.90	15.82	**1.070**	1.6

Note:
1. When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 54.6				
Product: Intelligent conference control tablet								
Test Mode: 5.2GHz WIFI-802.11n(40)								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	38	5190	0.12	0.668	14.90	14.89	0.670	1.6
Body back	46	5230	0.15	**0.679**	15.60	15.57	**0.684**	1.6
Edge 1 (Top)	46	5230	-0.16	0.596	15.60	15.57	0.600	1.6

Note: When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 54.6				
Product: Intelligent conference control tablet								
Test Mode:5.3GHz WIFI-802.11a								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	56	5300	0.14	**0.478**	13.30	13.06	**0.505**	1.6
Edge 1 (Top)	56	5300	-0.14	0.476	13.30	13.06	0.503	1.6

Note: When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 55.7				
Product: Intelligent conference control tablet								
Test Mode:5.5GHz WIFI-802.11ac(20)								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	120	5600	0.12	0.716	12.50	12.47	0.721	1.6
Edge 1 (Top)	100	5500	-0.11	0.808	11.70	11.66	0.815	1.6
Edge 1 (Top)	120	5600	-0.17	**0.811**	12.50	12.47	**0.817**	1.6
Edge 1 (Top)	140	5700	-0.10	0.783	13.70	13.60	0.801	1.6

Note: When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 55.7				
Product: Intelligent conference control tablet								
Test Mode: 5.8GHz WIFI-802.11ac(20)								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Body back	149	5745	0.12	0.738	13.13	13.13	0.738	1.6
Body back	157	5785	0.13	0.758	13.13	12.54	0.868	1.6
Body back	165	5825	0.13	0.785	13.13	12.29	0.953	1.6
Edge 1 (Top)	149	5745	-0.09	0.934	13.13	13.13	0.934	1.6
Edge 1 (Top)	157	5785	-0.15	0.946	13.13	12.54	1.084	1.6
Edge 1 (Top)	165	5825	0.05	**0.985**	13.13	12.29	**1.195**	1.6

Note: When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.

Repeated SAR									
Product: Intelligent conference control tablet									
Test Mode: 2.4GHz WIFI & 5.5GHz WIFI & 5.8GHz WIFI									
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2dB)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±0.2dB)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±0.2)**	**Third SAR (1g) (W/kg)**	**Limit (W/kg)**
Edge 1 (Top)	11	2462	0.07	1.04	-	-	-	-	1.6
Edge 1 (Top)	120	5600	-0.15	0.810	-	-	-	-	1.6
Edge 1 (Top)	165	5825	-0.13	0.966	-	-	-	-	1.6

The second repeated SAR judge reference							
Product: Intelligent conference control tablet							
Band	**Position**	**Ch.**	**Fr. (MHz)**	**Orignal SAR (1g) (W/kg)**	**First SAR (1g) (W/kg)**	**Ratio**	**Limit**
2.4GHz WIFI	Body front	06	2437	1.050	1.04	1.010	<1.2
5.5GHz WIFI	Edge 1 (Top)	120	5600	0.811	0.810	1.001	<1.2
5.8GHz WIFI	Edge 1 (Top)	165	5825	0.985	0.966	1.020	<1.2

APPENDIX A. SAR SYSTEM CHECK DATA

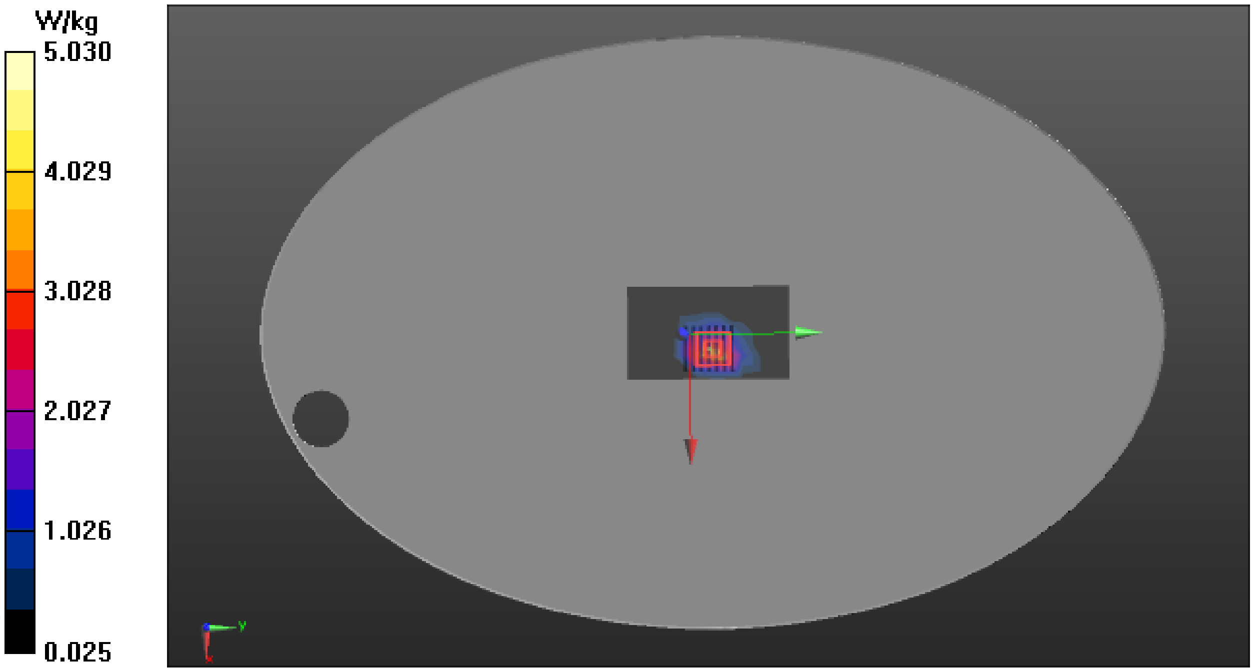
Test Laboratory: AGC Lab **Date: Jul. 22,2021**
System Check Head 2450 MHz
DUT: Dipole 2450 MHz Type: D2450V2

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1;
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.82 mho/m; εr =39.74; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom; Input Power=18dBm
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.4

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(7.66, 7.66, 7.66); Calibrated: Jul. 29,2020;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 2450MHz Head/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 4.99 W/kg

Configuration/System Check 2450MHz Head/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 32.189 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 6.94 W/kg
SAR(1 g) = 3.23 W/kg; SAR(10 g) = 1.49 W/kg
Maximum value of SAR (measured) = 5.03 W/kg



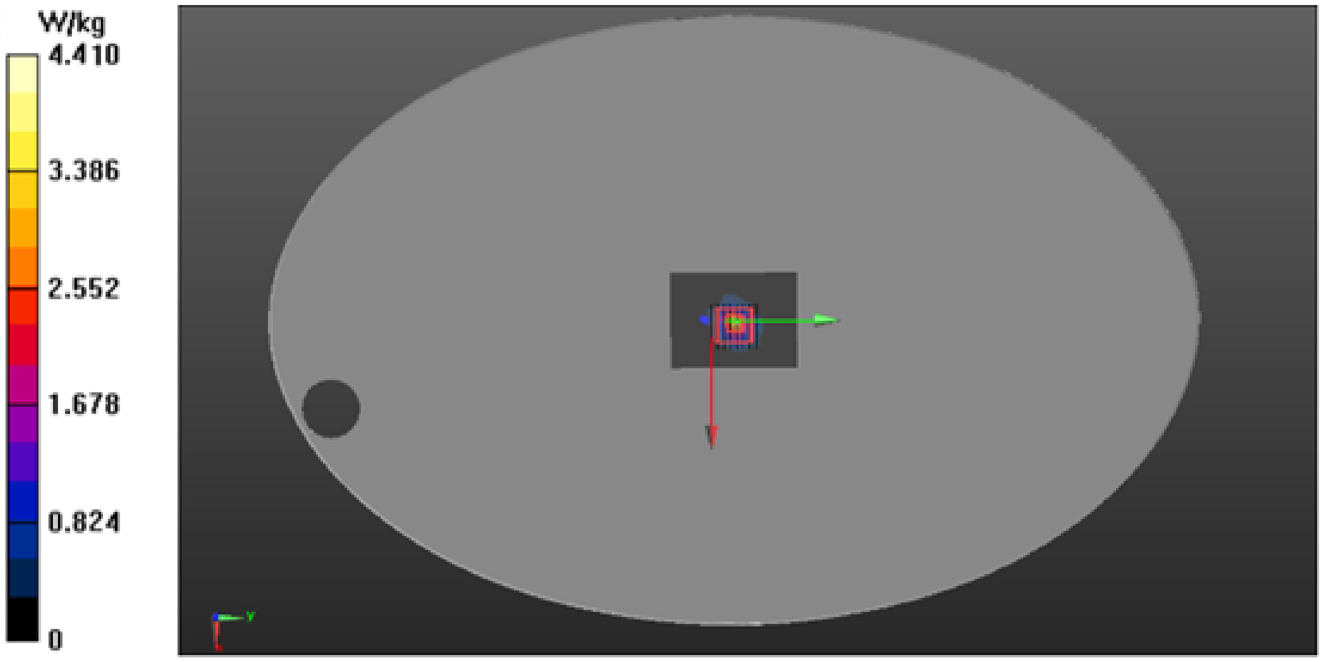
Test Laboratory: AGC Lab **Date: Jul. 26,2021**
System Check Head 5200 MHz
DUT: Dipole 5000MHz Type: SWG5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5200 MHz; Medium parameters used: f = 5250 MHz; σ =4.61mho/m; εr = 35.87; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom; Input Power=10dBm
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0

DASY Configuration:
- Probe: EX3DV4 – SN3953; ConvF(5.53, 5.53, 5.53); Calibrated: Jul. 29,2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 5200MHz Head/Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 3.96 W/kg

Configuration/System Check 5200MHz Head/Zoom Scan (8x8x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 27.752 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 9.63 W/kg
SAR(1 g) = 1.65 W/kg; SAR(10 g) = 0.537 W/kg
Maximum value of SAR (measured) = 4.41 W/kg**1**



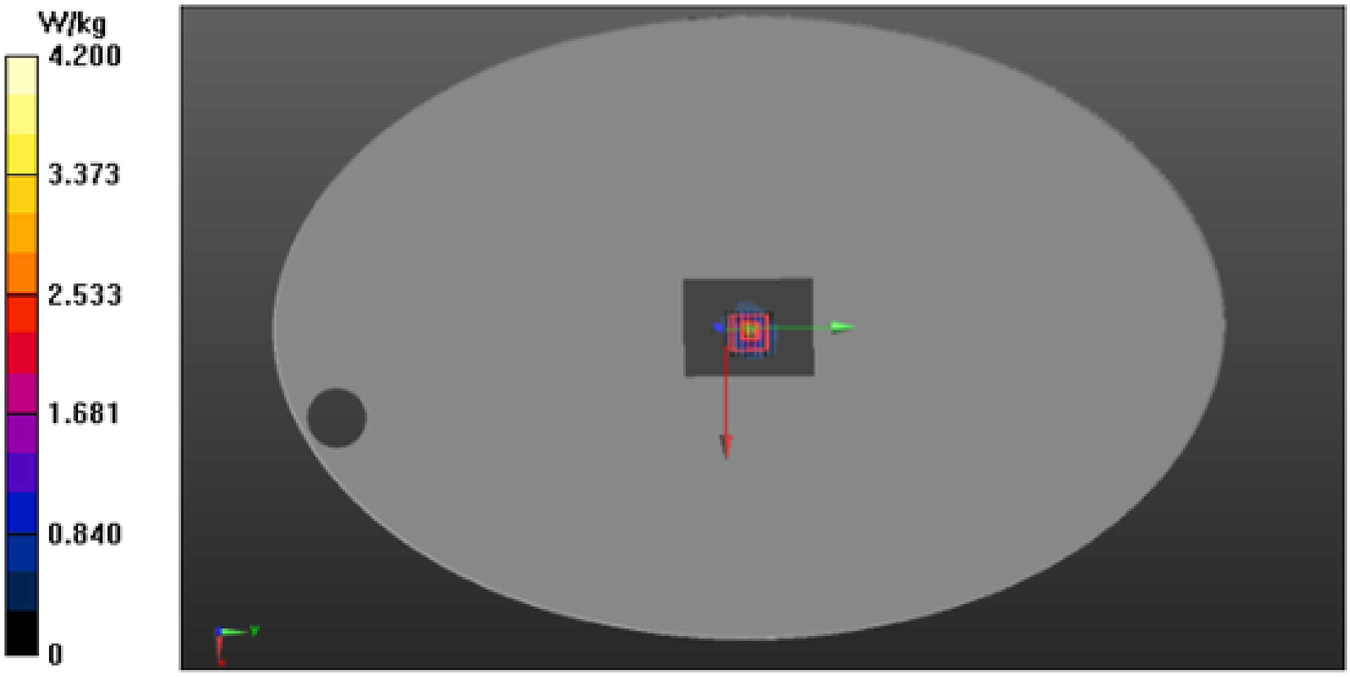
Test Laboratory: AGC Lab **Date: Jul. 26,2021**
System Check Head 5200 MHz
DUT: Dipole 5000MHz Type: SWG5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5200 MHz; Medium parameters used: f = 5250 MHz; σ =4.83mho/m; εr = 36.69; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom; Input Power=10dBm
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0

DASY Configuration:
- Probe: EX3DV4 – SN3953; ConvF(5.53, 5.53, 5.53); Calibrated: Jul. 29,2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 5200MHz /Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 3.93 W/kg

Configuration/System Check 5200MHz /Zoom Scan (8x8x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 27.074 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 9.27 W/kg
SAR(1 g) = 1.71 W/kg; SAR(10 g) = 0.546 W/kg
Maximum value of SAR (measured) = 4.20 W/kg



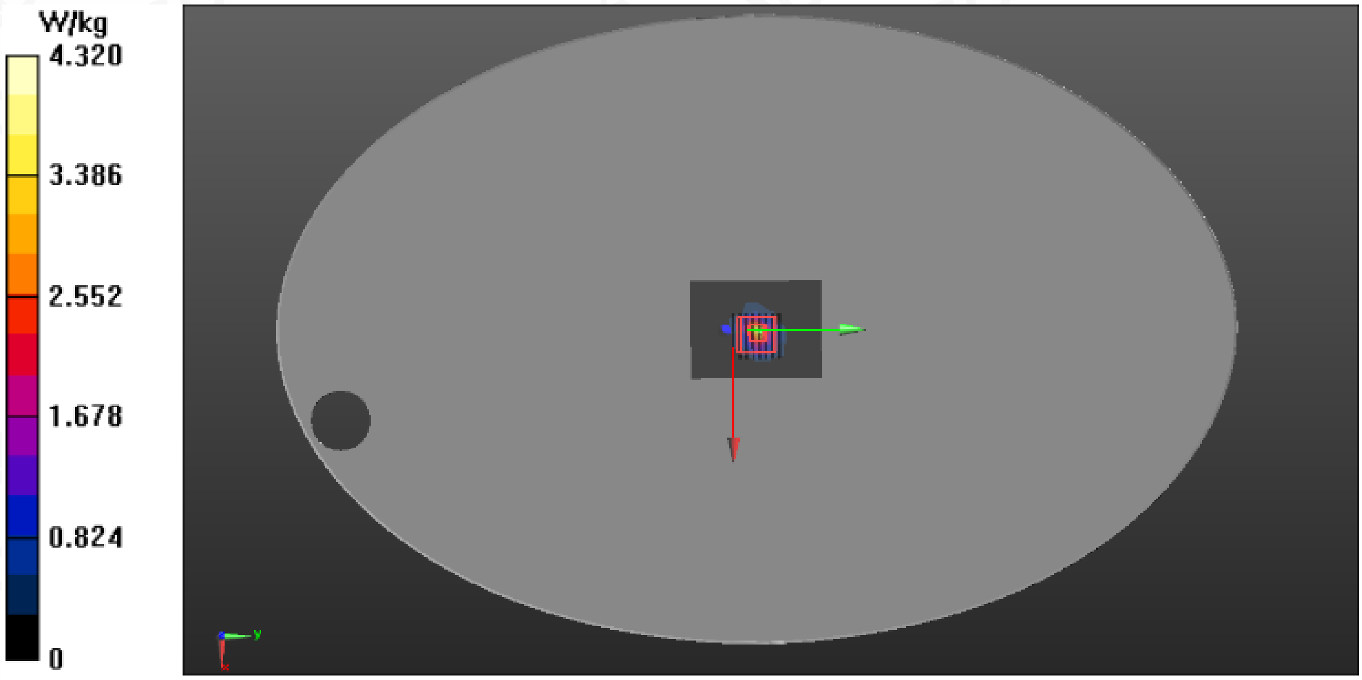
Test Laboratory: AGC Lab **Date: Jul. 27,2021**
System Check Head 5600 MHz
DUT: Dipole 5000MHz Type: SWG5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5600 MHz; Medium parameters used: f = 5600 MHz; σ = 4.95 mho/m; εr =35.81; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom; Input Power=10dBm
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: EX3DV4 – SN3953; ConvF(4.89, 4.89, 4.89); Calibrated: Jul. 29,2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 5600MHz Head/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 4.17 W/kg

Configuration/System Check 5600MHz Head/1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.835 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 14.4 W/kg
SAR(1 g) = 1.69 W/kg; SAR(10 g) = 0.581 W/kg
Maximum value of SAR (measured) = 4.32 W/kg



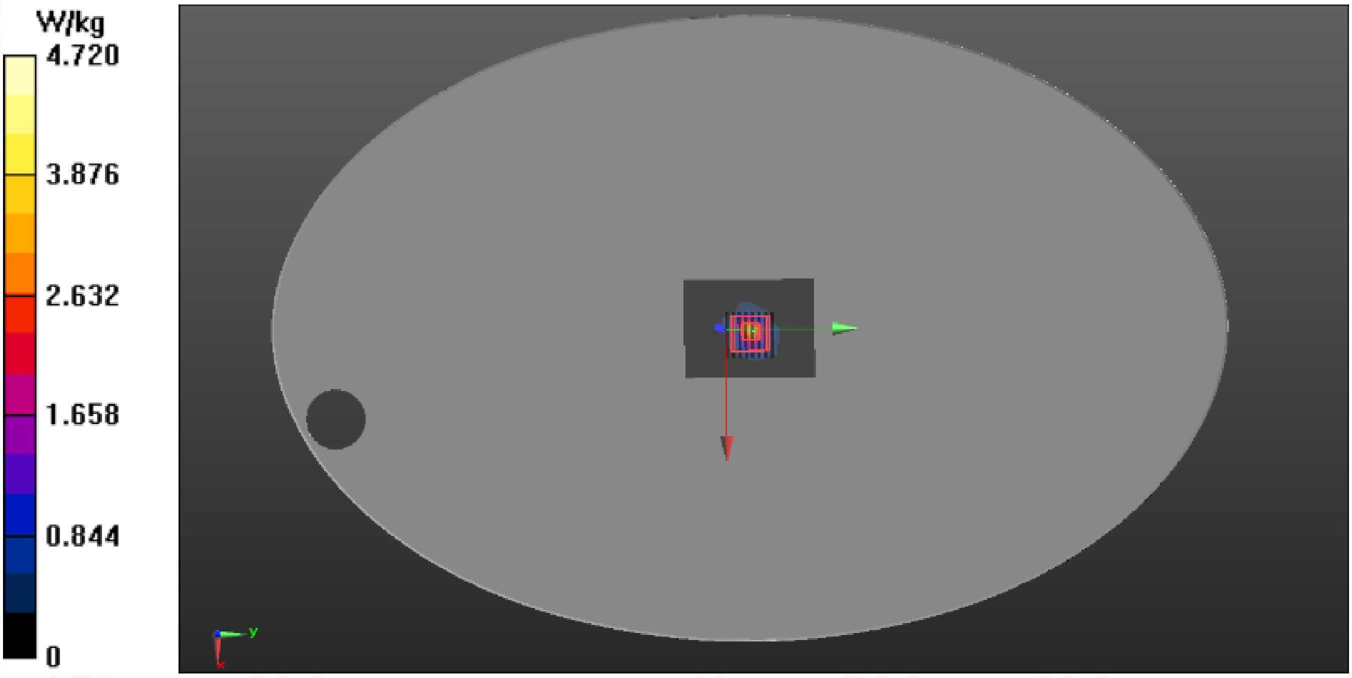
Test Laboratory: AGC Lab **Date: Jul. 27,2021**
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SWG5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5800 MHz; Medium parameters used: f = 5750 MHz; σ =5.48 mho/m; εr =36.04; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom; Input Power=10dBm
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: EX3DV4 – SN3953; ConvF(4.99, 4.99, 4.99); Calibrated: Jul. 29,2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 5800MHz Head/Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 4.88 W/kg

Configuration/System Check 5800MHz Head/Zoom Scan (8x8x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 27.246 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 9.72 W/kg
SAR(1 g) = 1.74 W/kg; SAR(10 g) = 0.63 W/kg
Maximum value of SAR (measured) = 4.72 W/kg



APPENDIX B. SAR MEASUREMENT DATA

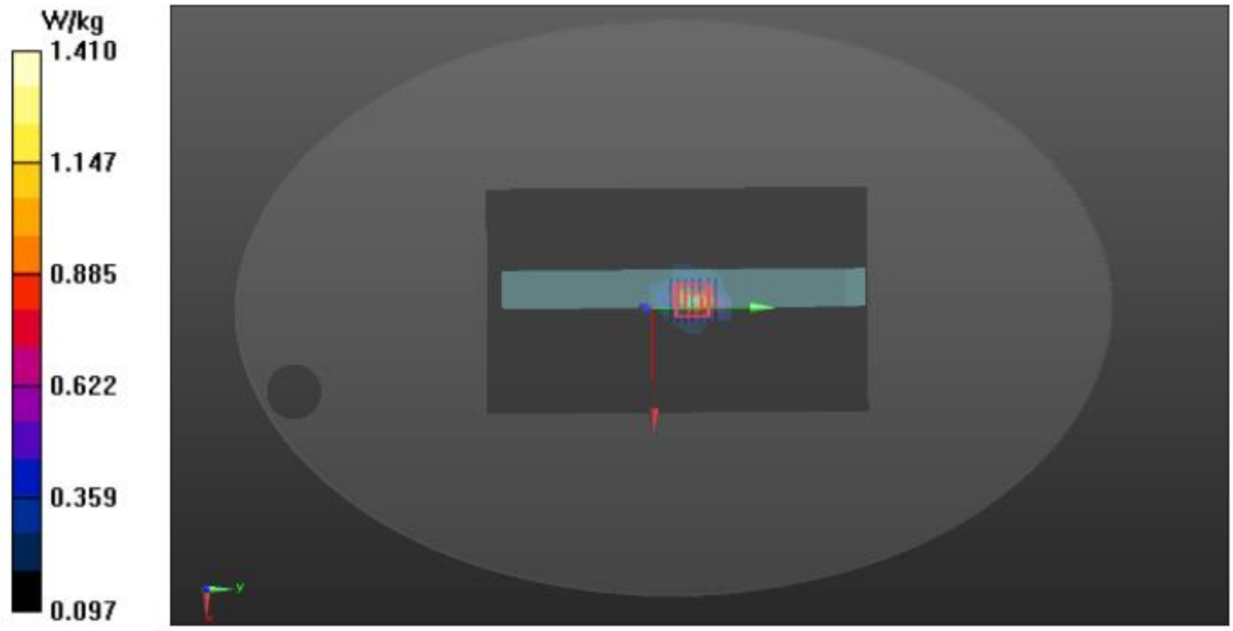
Test Laboratory: AGC Lab **Date: Jul. 22,2021**
802.11b High- Edge 1 (Top)
DUT: Intelligent conference control tablet; Type: CP100

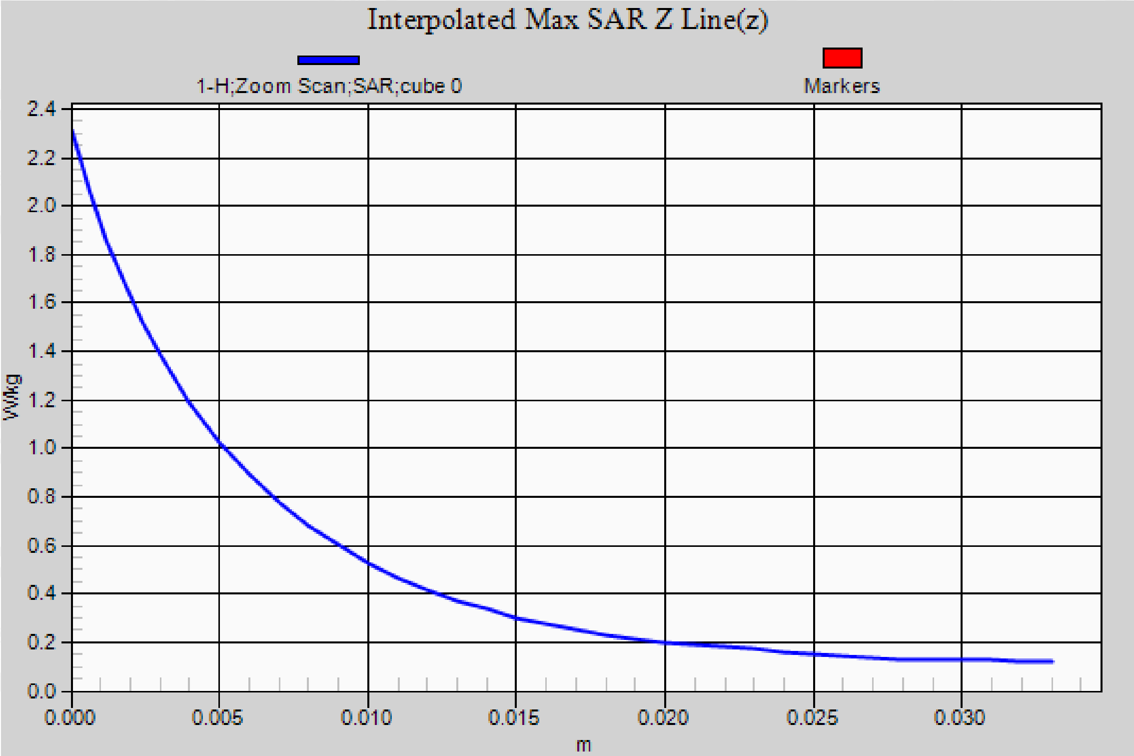
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ=1.88 mho/m; εr =38.52; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom
Ambient temperature (℃): 21.6, Liquid temperature (℃):21.4

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(7.66, 7.66, 7.66); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

EDGE/1-H/Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.43 W/kg

EDGE/1-H/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.240 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.31 W/kg
SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.496 W/kg
Maximum value of SAR (measured) = 1.41 W/kg




Interpolated Max SAR Z Line(z)
1-H;Zoom Scan;SAR;cube 0
Markers
W/kg
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.000
0.005
0.010
0.015
0.020
0.025
0.030
m

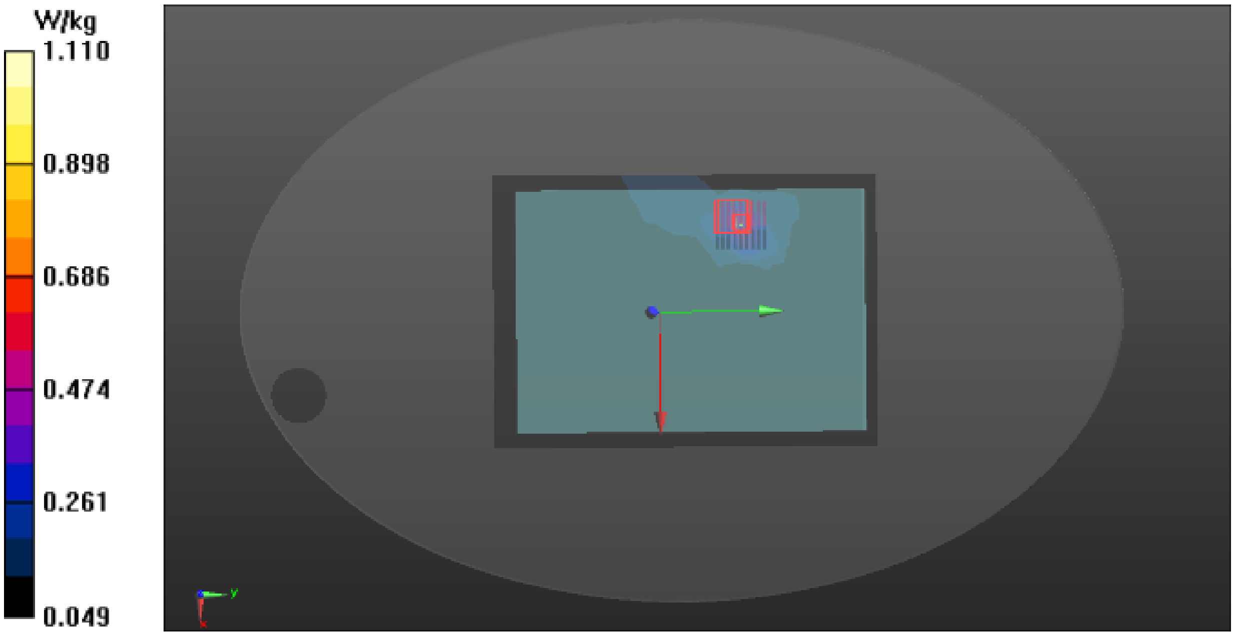
Test Laboratory: AGC Lab **Date: Jul. 26,2021**
5.2GHz -802.11n(40) CH46- Body- Back (Top)
DUT: Intelligent conference control tablet; Type: CP100

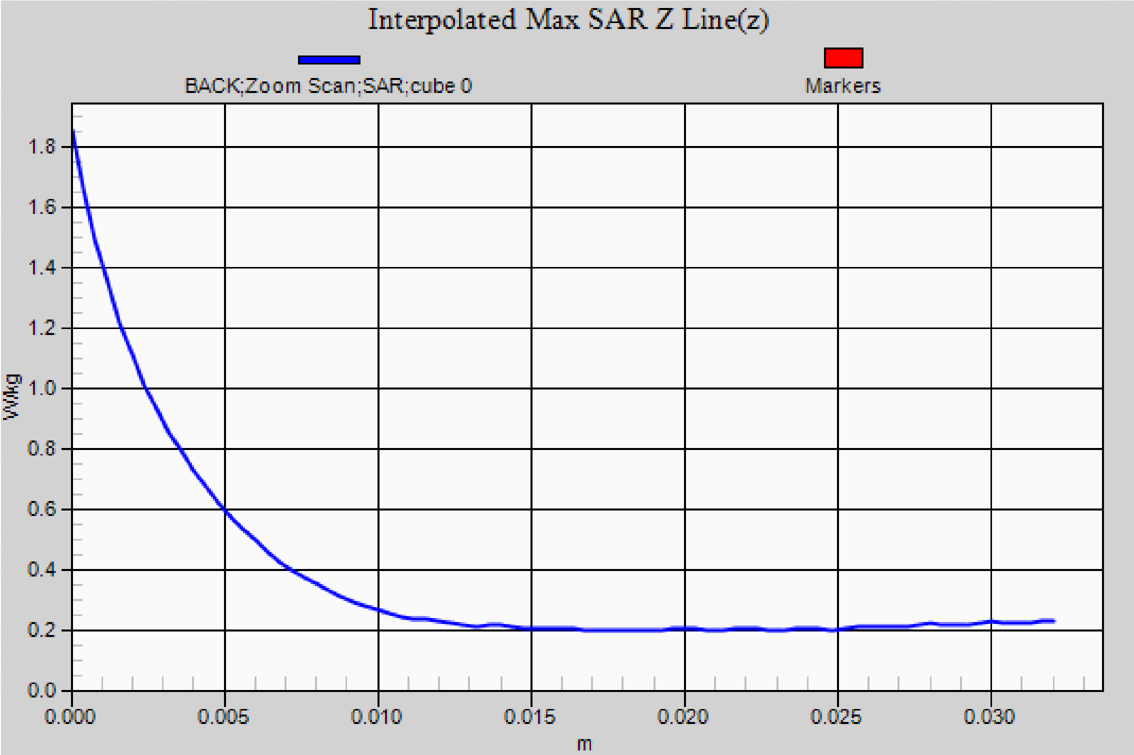
Communication System: Wi-Fi; Communication System Band: 802.11n(40); Duty Cycle: 1:1
Frequency: 5230 MHz; Medium parameters used: f = 5250MHz; σ =4.65mho/m; εr = 34.77; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0

DASY Configuration:
- Probe: EX3DV4 – SN3953; ConvF(5.53, 5.53, 5.53); Calibrated: Jul. 29,2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (13x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.504 W/kg

BODY/BACK/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.875 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.85 W/kg
SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.508 W/kg
Maximum value of SAR (measured) = 1.11 W/kg




Interpolated Max SAR Z Line(z)
BACK;Zoom Scan;SAR;cube 0
Markers
W/kg
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.000
0.005
0.010
0.015
0.020
0.025
0.030
m

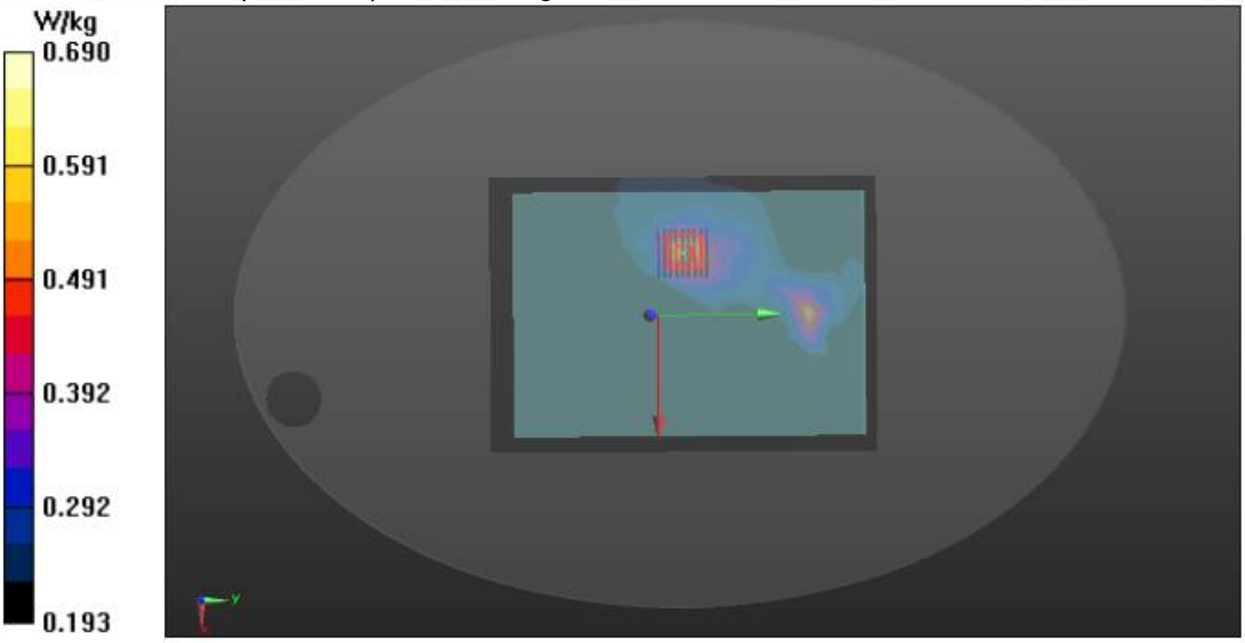
Test Laboratory: AGC Lab **Date: Jul. 26,2021**
5.3GHz -802.11a CH56- Body-Back
DUT: Intelligent conference control tablet; Type: CP100

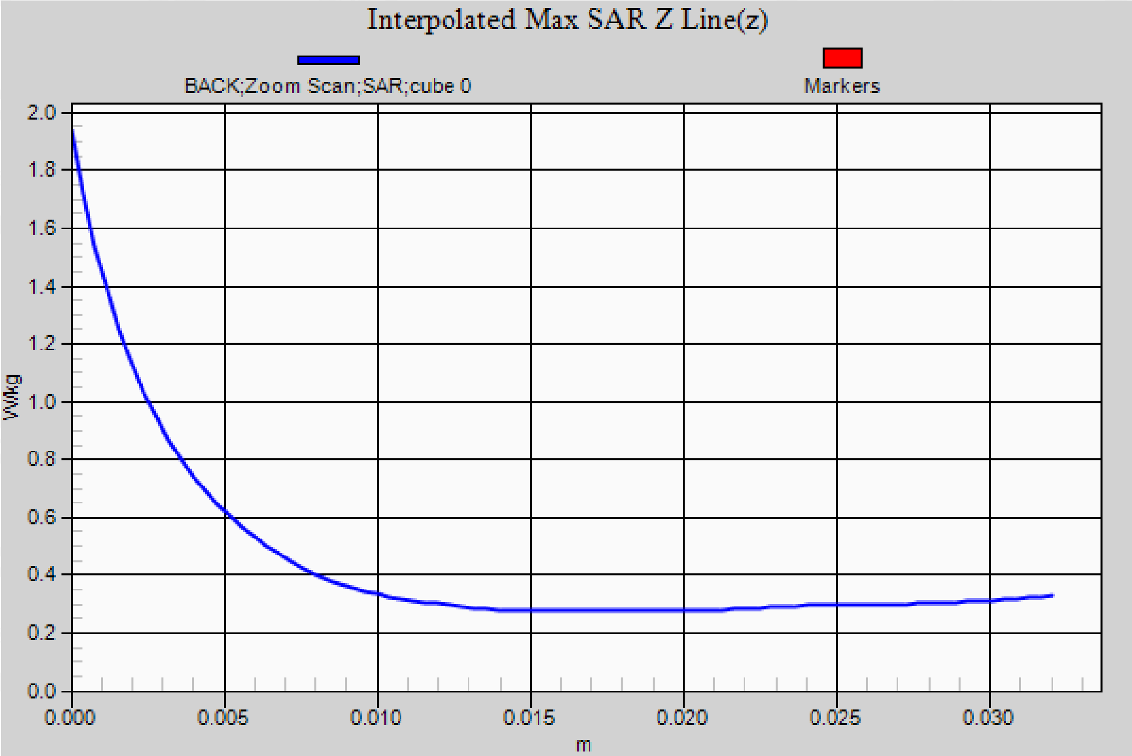
Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1
Frequency: 5300 MHz; Medium parameters used: f = 5250MHz; σ=4.83 mho/m; εr =36.69; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0

DASY Configuration:
- Probe: EX3DV4 – SN3953; ConvF(5.53, 5.53, 5.53); Calibrated: Jul. 29,2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (13x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.573 W/kg

BODY/BACK/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.833 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.06 W/kg
SAR(1 g) = 0.478 W/kg; SAR(10 g) = 0.322 W/kg
Maximum value of SAR (measured) = 0.690 W/kg




Interpolated Max SAR Z Line(z)
BACK;Zoom Scan;SAR;cube 0
Markers
W/kg
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.000
0.005
0.010
0.015
0.020
0.025
0.030
m

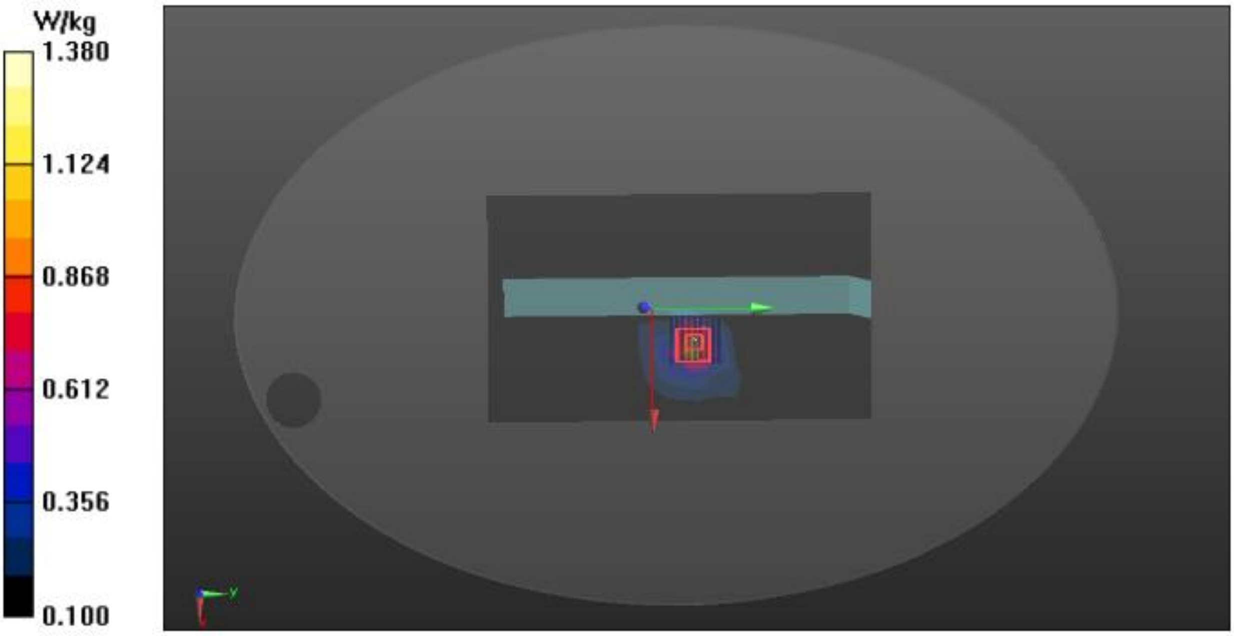
Test Laboratory: AGC Lab **Date: Jul. 27,2021**
5.5GHz -802.11ac(20) CH120- Edge 1 (Top)
DUT: Intelligent conference control tablet; Type: CP100

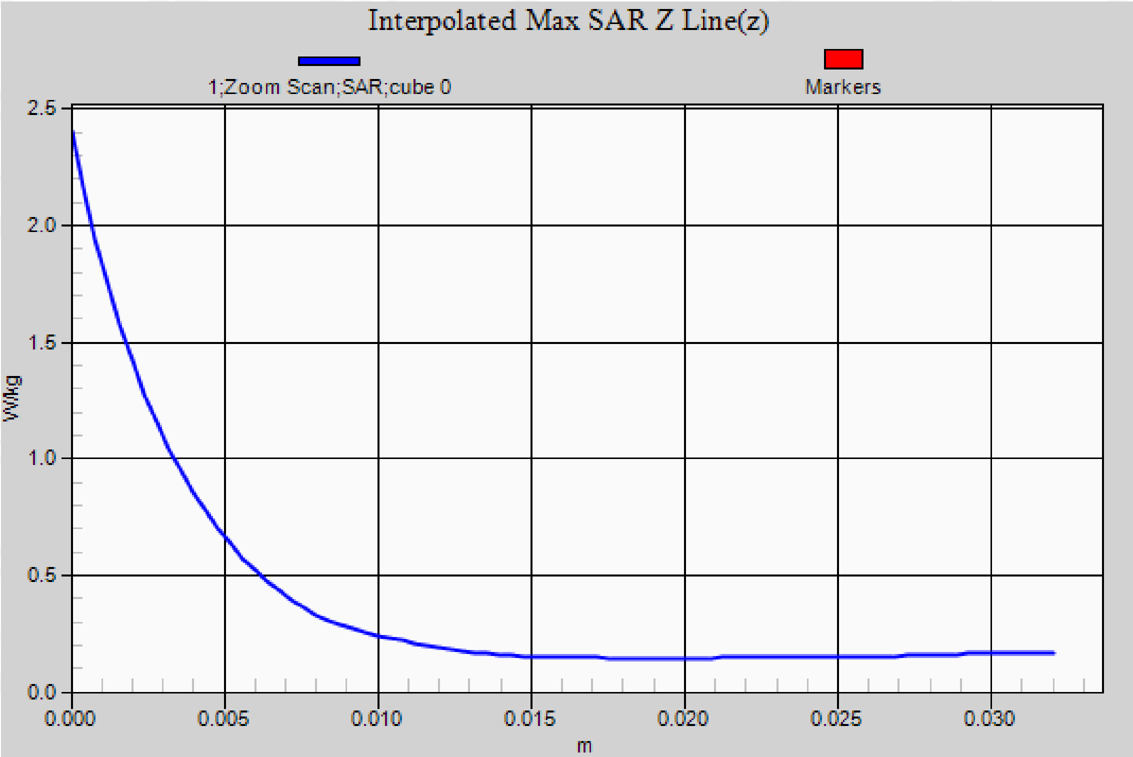
Communication System: Wi-Fi; Communication System Band: 802.11ac(20); Duty Cycle: 1:1
Frequency: 5600; Medium parameters used: f = 5600 MHz; σ=4.95 mho/m; εr =35.81 ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: EX3DV4 – SN3953; ConvF(4.89, 4.89, 4.89); Calibrated: Jul. 29,2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

EDGE/ Edge 1/Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.14 W/kg

EDGE/ Edge 1/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.412 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 2.40 W/kg
SAR(1 g) = 0.811 W/kg; SAR(10 g) = 0.376 W/kg
Maximum value of SAR (measured) = 1.38 W/kg




Interpolated Max SAR Z Line(z)
1;Zoom Scan;SAR;cube 0
Markers
W/kg
2.5
2.0
1.5
1.0
0.5
0.0
0.000
0.005
0.010
0.015
0.020
0.025
0.030
m

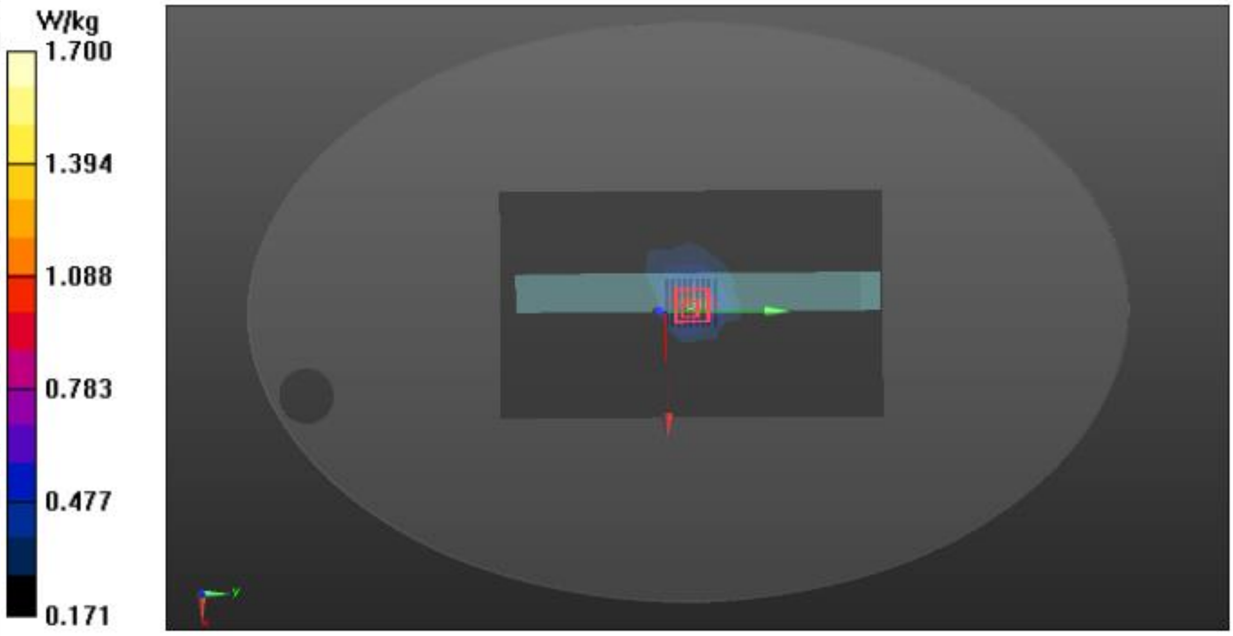
Test Laboratory: AGC Lab **Date: Jul. 27,2021**
5.8GHz -802.11ac(20) CH165- Edge 1 (Top)
DUT: Intelligent conference control tablet; Type: CP100

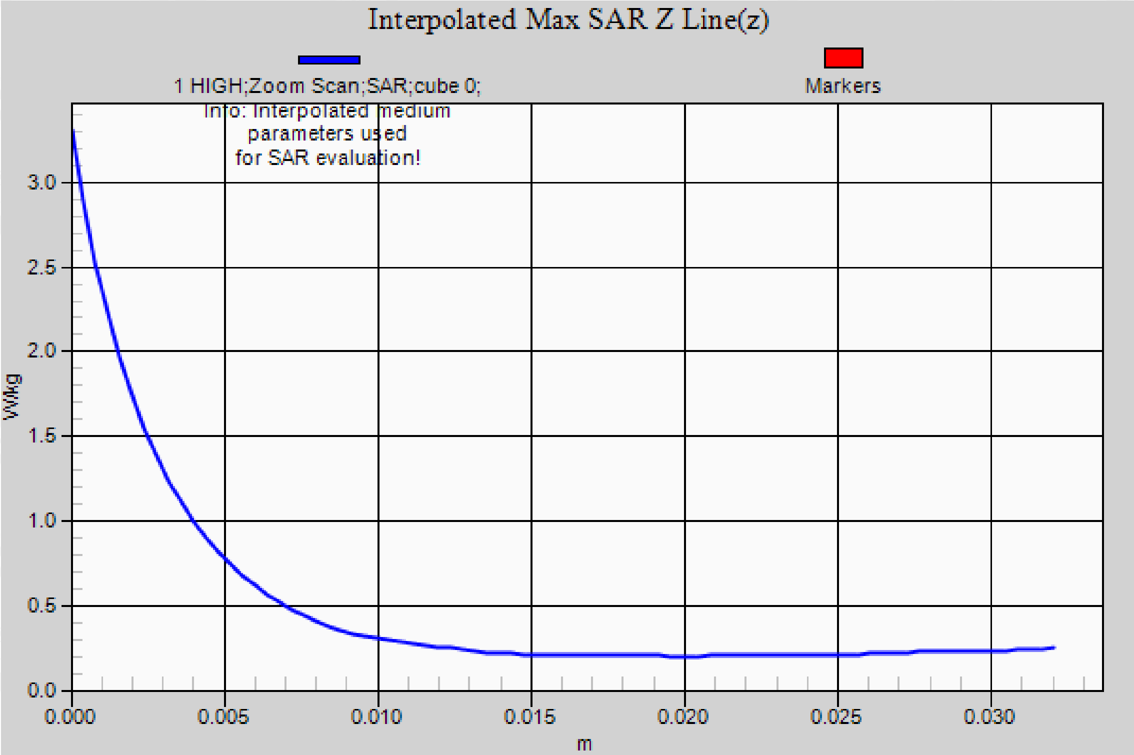
Communication System: Wi-Fi; Communication System Band: 802.11ac(20); Duty Cycle: 1:1
Frequency: 5825 MHz; Medium parameters used: f = 5750 MHz; σ=5.52 mho/m; εr =35.22; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: EX3DV4 – SN3953; ConvF(4.99, 4.99, 4.99); Calibrated: Jul. 29,2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

EDGE/1 HIGH/Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.25 W/kg

EDGE/1 HIGH/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 16.130 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 3.31 W/kg
SAR(1 g) = 0.985 W/kg; SAR(10 g) = 0.470 W/kg
Maximum value of SAR (measured) = 1.70 W/kg




Interpolated Max SAR Z Line(z)
1 HIGH;Zoom Scan;SAR;cube 0;
Info: Interpolated medium parameters used for SAR evaluation!
Markers
W/kg
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0.000
0.005
0.010
0.015
0.020
0.025
0.030
m

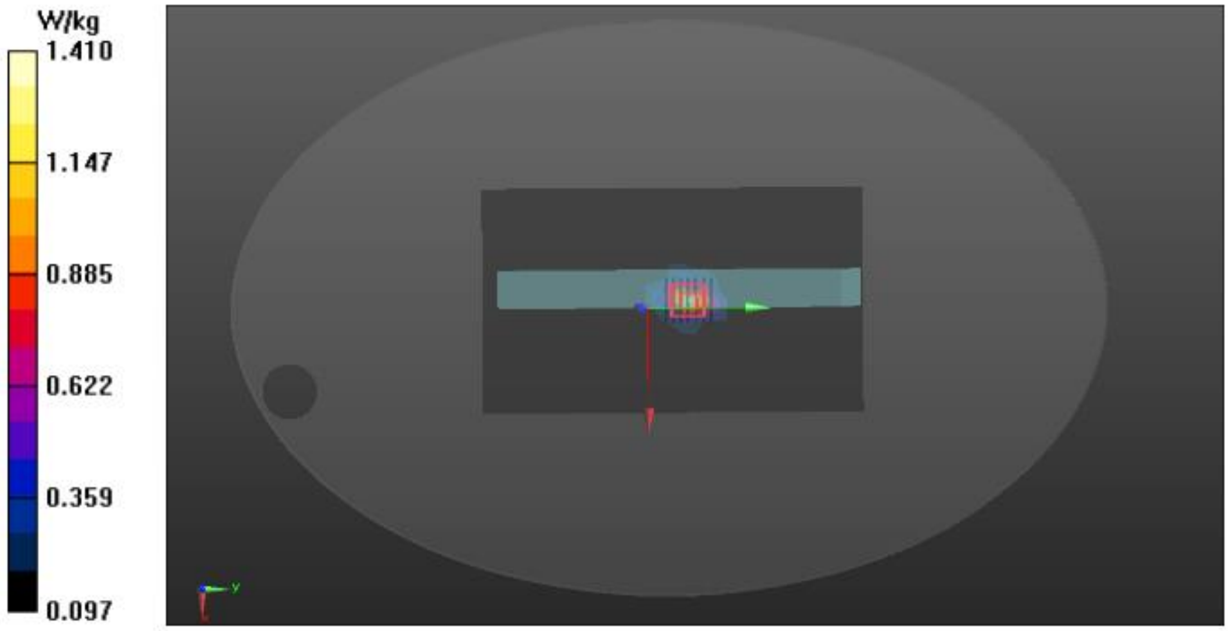
Repeated SAR
Test Laboratory: AGC Lab **Date: Jul. 22,2021**
802.11b Mid- Edge 1 (Top)
DUT: Intelligent conference control tablet; Type: CP100

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ=1.88 mho/m; εr =38.52; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom
Ambient temperature (℃): 21.6, Liquid temperature (℃):21.4

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(7.66, 7.66, 7.66); Calibrated: Jul. 29,2020;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

EDGE/1-H-REPEATED/Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.39 W/kg

EDGE/1-H-REPEATED/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.237 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.29 W/kg
SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.492 W/kg
Maximum value of SAR (measured) = 1.41 W/kg



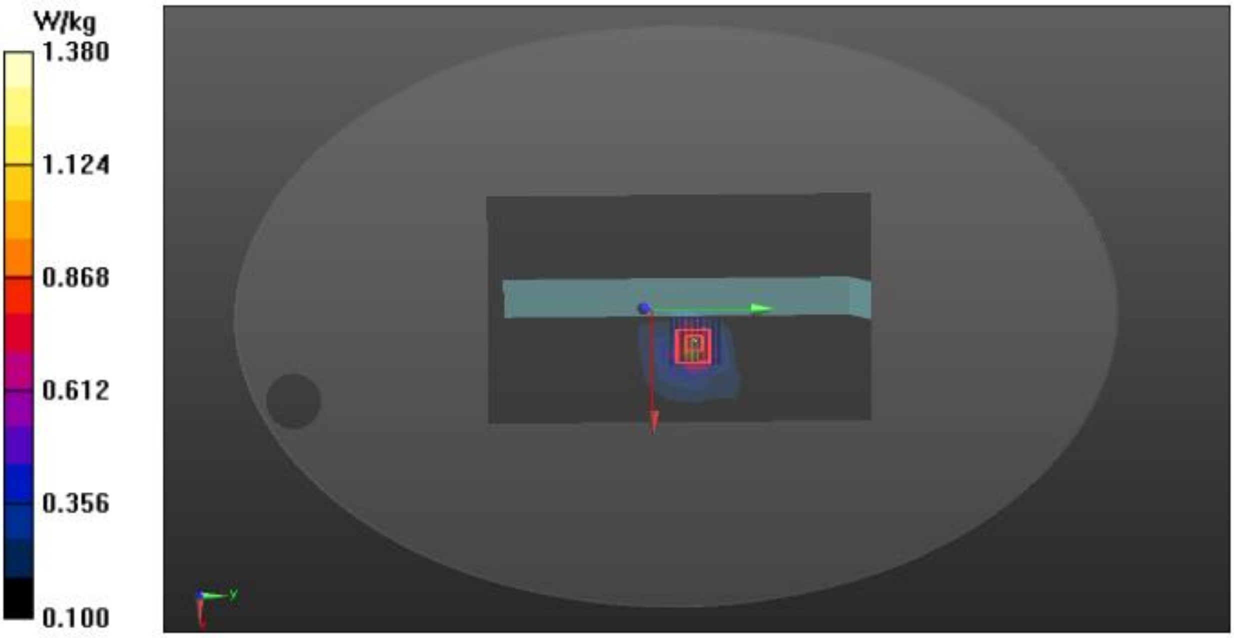
Test Laboratory: AGC Lab **Date: Jul. 27,2021**
5.5GHz -802.11ac(20) CH120- Edge 1 (Top)
DUT: Intelligent conference control tablet; Type: CP100

Communication System: Wi-Fi; Communication System Band: 802.11ac(20); Duty Cycle: 1:1
Frequency: 5600; Medium parameters used: f = 5600 MHz; σ=4.95 mho/m; εr =35.81 ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: EX3DV4 – SN3953; ConvF(4.89, 4.89, 4.89); Calibrated: Jul. 29,2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

EDGE/1/Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.29 W/kg

EDGE/1/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.407 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 2.39 W/kg
SAR(1 g) = 0.810 W/kg; SAR(10 g) = 0.375 W/kg
Maximum value of SAR (measured) = 1.38 W/kg



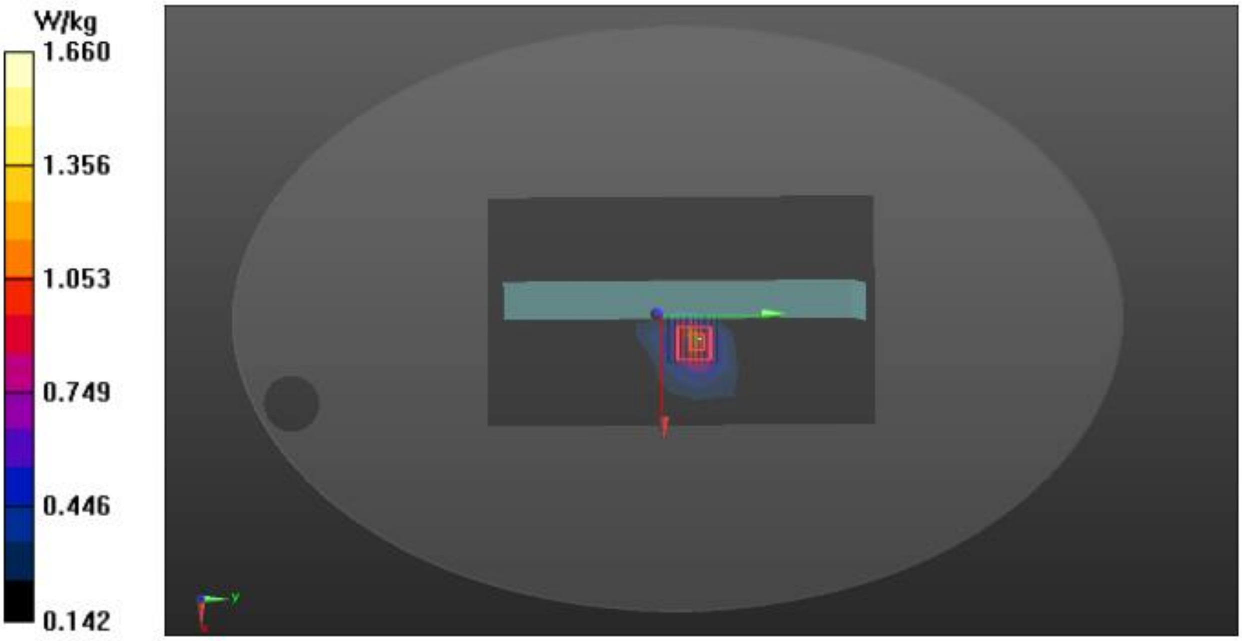
Test Laboratory: AGC Lab **Date: Jul. 27,2021**
5.8GHz -802.11ac(20) CH165- Edge 1 (Top)
DUT: Intelligent conference control tablet; Type: CP100

Communication System: Wi-Fi; Communication System Band: 802.11ac(20); Duty Cycle: 1:1
Frequency: 5825 MHz; Medium parameters used: f = 5750 MHz; σ=5.52 mho/m; εr =35.22; ρ= 1000 kg/m³ ;
Phantom Type: Elliptical Phantom
Ambient temperature (℃): 22.1, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: EX3DV4 – SN3953; ConvF(4.99, 4.99, 4.99); Calibrated: Jul. 29,2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 17,2021
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

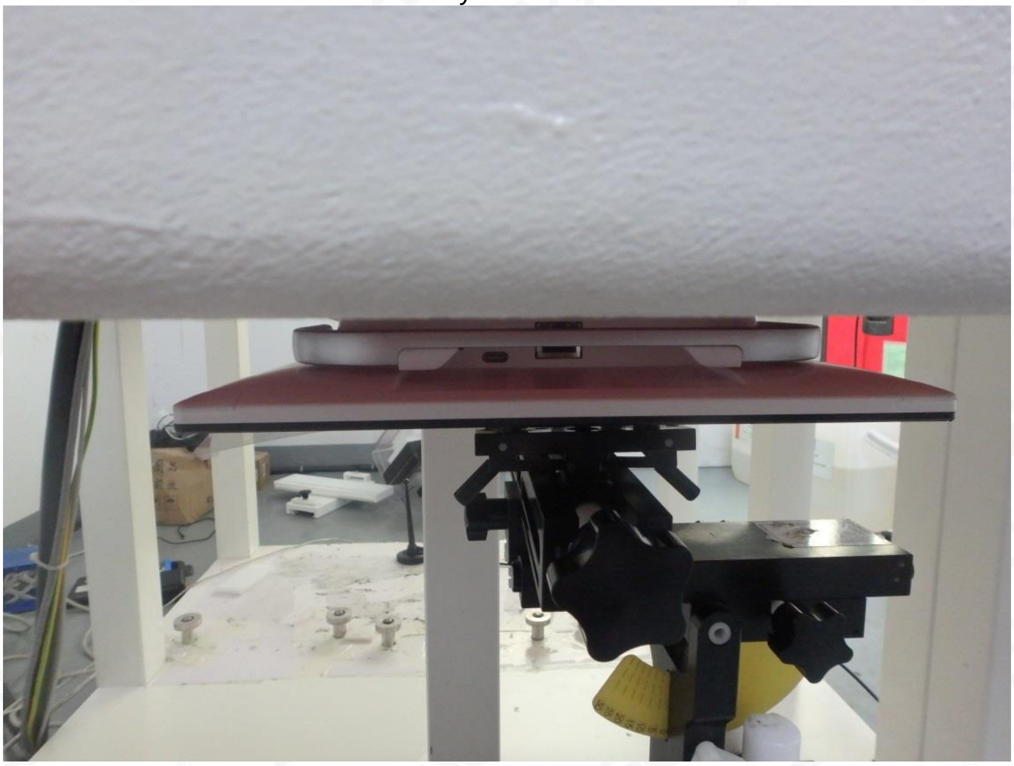
EDGE/1-H-Repeat/Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.37 W/kg

EDGE/1-H-Repeat/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.496 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 3.18 W/kg
SAR(1 g) = 0.966 W/kg; SAR(10 g) = 0.461 W/kg
Maximum value of SAR (measured) = 1.66 W/kg

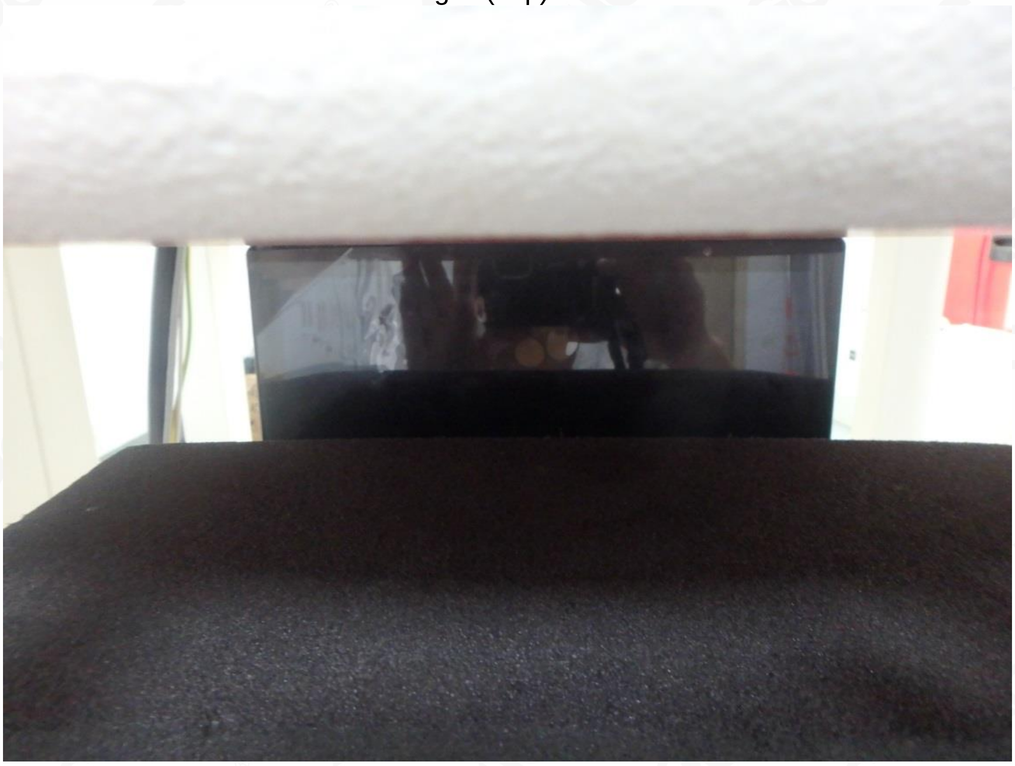


APPENDIX C. TEST SETUP PHOTOGRAPHS

Body Back 0mm



Edge 1(Top) 0mm



DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note：The position used in the measurement were according to IEEE 1528-2013

2450MHz body	5000MHz body
	

APPENDIX D. CALIBRATION DATA

Refer to Attached files.

Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3.The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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