# SAR Test Report

Report No.: AGC01110240643FH01

| | | |
|---|---|---|
| **FCC ID** | : | 2AOKB-A3305J |
| **APPLICATION PURPOSE** | : | Original Equipment |
| **PRODUCT DESIGNATION** | : | Wireless Speaker |
| **BRAND NAME** | : | ANKER |
| **MODEL NAME** | : | A3305 |
| **APPLICANT** | : | Anker Innovations Limited |
| **DATE OF ISSUE** | : | Nov. 22, 2024 |
| **STANDARD(S)** | : | IEEE Std. 1528:2013<br>FCC 47 CFR Part 2§2.1093<br>IEEE Std C95.1 ™-2005 |
| **REPORT VERSION** | : | V1.0 |

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

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## Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|---|---|---|---|---|
| V1.0 | / | Nov. 22, 2024 | Valid | Initial Release |

# Test Report

| | |
|---|---|
| Applicant Name | Anker Innovations Limited |
| Applicant Address | Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong |
| Manufacturer Name | Anker Innovations Limited |
| Manufacturer Address | Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong |
| Factory Name | N/A |
| Factory Address | N/A |
| Product Designation | Wireless Speaker |
| Brand Name | ANKER |
| Model Name | A3305 |
| EUT Voltage | DC3.6V by battery |
| Applicable Standard | IEEE Std. 1528:2013<br>FCC 47 CFR Part 2§2.1093<br>IEEE Std C95.1 ™-2005 |
| Date of receipt of test item | Sep. 10, 2024 |
| Test Date | Oct. 11, 2024 to Nov. 21, 2024 |
| 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<br>(Project Engineer) | Nov. 22, 2024 |
| Reviewed By | Calvin Liu<br>(Reviewer) | Nov. 22, 2024 |
| Approved By | Max Zhang<br>(Authorized Officer) | Nov. 22, 2024 |

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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) | SAR Test Limit (W/kg) |
|---|---|---|
| | Body-worn(with 0mm separation) | |
| BR/EDR | 0.158 | 1.6 |
| BLE | 0.154 | |
| 5.2GHz (U-NII-1) | 0.575 | |
| 5.8GHz (U-NII-3) | 0.297 | |
| 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

# 2. GENERAL INFORMATION

## 2.1. EUT Description

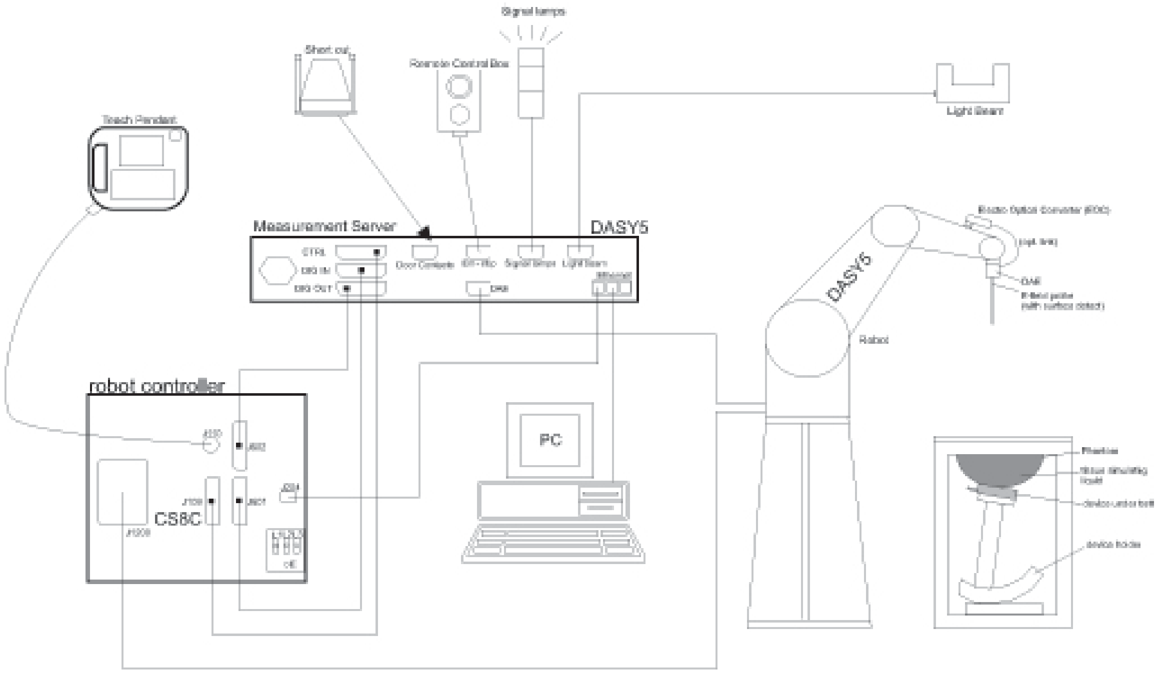
| General Information | |
|---|---|
| Product Designation | Wireless Speaker |
| Test Model | A3305 |
| Hardware Version | V0.3 |
| Software Version | 3.0.1 |
| Sample ID | 240816064 |
| Device Category | Portable |
| RF Exposure Environment | Uncontrolled |
| Antenna Type | FPC |
| **Bluetooth** | |
| Operation Frequency | 2402~2480MHz |
| Antenna Gain | 1.59dBi |
| Bluetooth Version | V5.4 |
| Type of modulation | **BR/EDR**: GFSK, Π/4-DQPSK, 8-DPSK; **BLE:** GFSK |
| Max. Peak Output Power | **BR/EDR**: 9.164dBm; **BLE:** 6.160dBm |
| **5 GHz WIFI** | |
| WIFI Specification | ☒802.11a ☒802.11n20 |
| Operation Frequency | U-NII-1: 5150MHz~5250MHz; U-NII 3: 5725MHz~5850MHz |
| Max. conducted Power | U-NII-1: 8.92dBm; U-NII 3: 10.17dBm |
| Antenna Gain | 1.78dBi |
| Power Supply | DC 3.6V, 6000mAh by battery |

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** | 0.75GHz-6GHz<br>Linearity:±0.9%(k=2) |  |
| **Dynamic Range** | 0.01W/kg-100W/kg<br>Linearity: ±0.9%(k=2) | |
| **Dimensions** | Overall length:337mm<br>Tip diameter:2.5mm<br>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 | |



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### 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).<br>Thus the device needs no repositioning when changing the angles.<br>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.<br>The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations. |  |

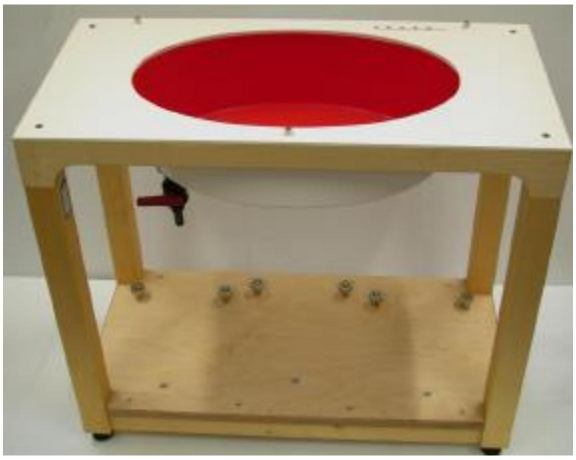
## 3.8. PHANTOM

### 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:<br>□ Left head<br>□ Right head<br>□ 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; |
| $\frac{dT}{dt} \mid t = 0$ | 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: $\Delta x_{Area}$, $\Delta y_{Area}$ | ≤ 2 GHz: ≤ 15 mm<br>2 – 3 GHz: ≤ 12 mm | 3 – 4 GHz: ≤ 12 mm<br>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

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

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:

The device is a bluetooth speaker and supports Bluetooth and WLAN wireless technology.

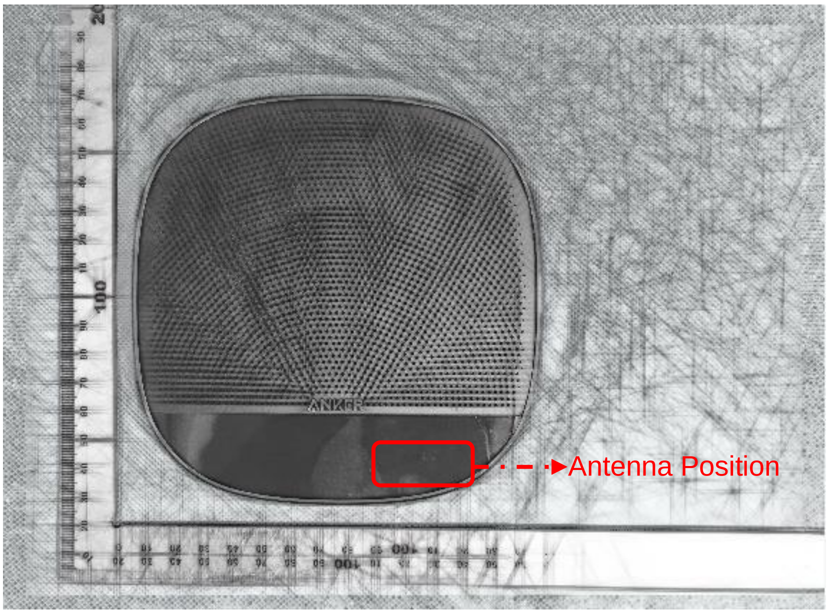
Bluetooth and WLAN share the same antenna, and cannot transmit simultaneously.

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

**Antenna Location: (the front view)**

Edge1(Top)

Edge4(Left)




Edge2(Right)

Edge3 (Bottom)

**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 (116mm) | Edge 2 (27mm) | Edge 3 (5mm) | Edge 4 (68mm) |
| 2.4G BR/EDR | SAR test exclusion thresholds(mW) | **756.784** | **52.26** | **9.68** | **276.784** |
| | SAR Max. Avg. Burst Power(mW) | 9.164 | 9.164 | 9.164 | 9.164 |
| | SAR required (YES/NO) | NO | NO | NO | NO |
| 2.4G BLE | SAR test exclusion thresholds(mW) | **756.784** | **52.26** | **9.68** | **276.784** |
| | SAR Max. Avg. Burst Power(mW) | 6.160 | 6.160 | 6.160 | 6.160 |
| | SAR required (YES/NO) | NO | NO | NO | NO |
| 5.2G WIFI | SAR test exclusion thresholds(mW) | **725.906** | **35.59** | **6.59** | **245.906** |
| | SAR Max. Avg. Burst Power(mW) | 8.92 | 8.92 | 8.92 | 8.92 |
| | SAR required (YES/NO) | NO | NO | YES | NO |
| 5.8G WIFI | SAR test exclusion thresholds(mW) | **722.150** | **33.56** | **6.22** | **242.150** |
| | SAR Max. Avg. Burst Power(mW) | 10.17 | 10.17 | 10.17 | 10.17 |
| | SAR required (YES/NO) | NO | NO | YES | NO |

**Note:** According to the customer's requirement to test BT SAR

# 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 IEEE 1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in IEEE 1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in IEEE 1528.

| 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 | | | | | |
|---|---|---|---|---|---|
| Head | 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) | | |
| | 2402 | 40.12 | 1.73 | 21.4 | Oct. 11, 2024 |
| | 2440 | 39.62 | 1.77 | | |
| | 2441 | 39.62 | 1.77 | | |
| | 2450 | 38.75 | 1.79 | | |
| | 2480 | 37.21 | 1.80 | | |

| Tissue Stimulant Measurement for 5200MHz | | | | | |
|---|---|---|---|---|---|
| Head | 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) | | |
| | 5180 | 37.22 | 4.73 | 21.1 | Oct. 12, 2024 |
| | 5200 | 36.98 | 4.76 | | |
| | 5240 | 35.71 | 4.79 | | |

| Tissue Stimulant Measurement for 5800MHz | | | | | |
|---|---|---|---|---|---|
| Head | 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) | | |
| | 5745 | 37.69 | 5.07 | 20.7 | Nov. 21, 2024 |
| | 5785 | 37.22 | 5.10 | | |
| | 5800 | 36.13 | 5.14 | | |
| | 5825 | 35.81 | 5.16 | | |

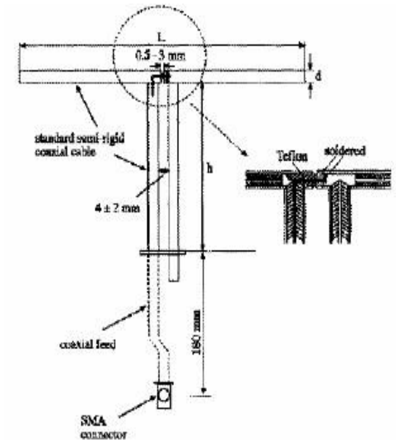
# 6. SAR SYSTEM CHECK PROCEDURE

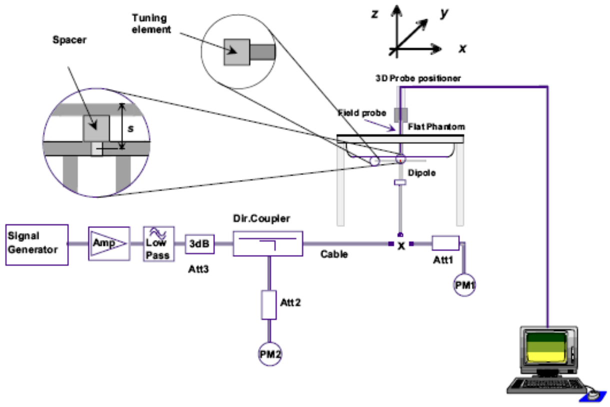
## 6.1. SAR System Check Procedures

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.

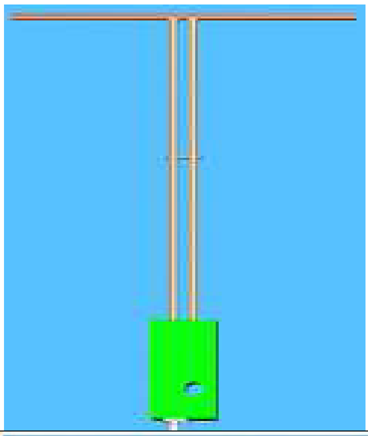
Each DASY system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

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, 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 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 |

## 6.2.2. System Check Result

| System Performance Check at 2450MHz & 5000MHz for Head | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Validation Kit: D2450V2-SN:968& SN 17/22 DIP 5G000-671** | | | | | | | | |
| 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 | 53.5 | 25.0 | 48.15-58.85 | 22.50-27.50 | 51.03 | 23.30 | 21.4 | Oct. 11, 2024 |
| 5200 | 73.43 | 21.83 | 66.087-80.773 | 19.647-24.013 | 78.50 | 23.80 | 21.1 | Oct. 12, 2024 |
| 5800 | 75.69 | 22.44 | 68.121-83.259 | 20.196-24.684 | 78.00 | 22.60 | 20.7 | Nov. 21, 2024 |

Note:
(1) We use a CW signal of 18dBm or 10dBm 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 and Edge3.**

## 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 |



Attestation of Global Compliance(Shenzhen)Co., Ltd
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

# 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. | Software version | Current calibration date | Next calibration date |
|---|---|---|---|---|---|
| Stäubli Robot | Stäubli-TX60 | F13/5Q2UD1/A/01 | N/A | N/A | N/A |
| Robot Controller | Stäubli-CS8 | 139522 | N/A | N/A | N/A |
| E-Field Probe | Speag- EX3DV4 | SN:3953 | N/A | Sep. 05, 2024 | Sep. 04, 2025 |
| SAM Twin Phantom | Speag-SAM | 1790 | N/A | N/A | N/A |
| Device Holder | Speag-SD 000 H01 KA | SD 000 H01 KA | N/A | N/A | N/A |
| DAE4 | Speag-SD 000 D04 BM | 1398 | N/A | May 20, 2024 | May 19, 2025 |
| SAR Software | Speag-DASY5 | DASY52.8.7.1137 | 5.3da53 | N/A | N/A |
| Liquid | SATIMO | N/A | N/A | N/A | N/A |
| Dipole | D2450V2 | SN968 | N/A | May 18, 2023 | May 17, 2026 |
| Wave guide | SID5000 | SN 17/22 DIP 5G000-671 | N/A | Apr. 28, 2022 | Apr. 27, 2025 |
| Signal Generator | Agilent-E4438C | US41461365 | V5.03 | May 24, 2024 | May 23, 2025 |
| Vector Analyzer | Agilent / E4440A | MY44303916 | N/A | May 28, 2024 | May 27, 2025 |
| Network Analyzer | Rhode & Schwarz ZVL6 | SN101443 | 3.2 | Jul. 24, 2024 | Jul. 23, 2025 |
| Attenuator | Warison /WATT-6SR1211 | S/N:WRJ34AYM2F1 | N/A | June 06, 2024 | June 05, 2025 |
| Attenuator | Mini-circuits / VAT-10+ | 31405 | N/A | June 06, 2024 | June 05, 2025 |
| Amplifier | AS0104-55_55 | 1004793 | N/A | N/A | N/A |
| Directional Couple | Werlatone/ C5571-10 | SN99463 | N/A | Feb. 01, 2024 | Jan. 31, 2026 |
| Directional Couple | Werlatone/ C6026-10 | SN99482 | N/A | Feb. 01, 2024 | Jan. 31, 2026 |
| Power Sensor | NRP-Z21 | 104604 | N/A | May 24, 2024 | May 23, 2025 |
| Power Sensor | NRP-Z23 | 100323 | | Jun. 05, 2024 | Jun. 04, 2025 |
| Power Viewer | R&S | V2.3.1.0 | | N/A | N/A |
| Calibration standard parts for network sub -port | R&S/ ZV-Z132 | N/A | V2.3.1.0 | Nov. 11, 2023 | Nov. 10, 2024 |
| Calibration standard parts for network sub -port | R&S/ ZV-Z132 | N/A | V2.3.1.0 | Nov. 08, 2024 | Nov. 07, 2025 |

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<br>Measurement uncertainty for Dipole averaged over 1 gram / 10 gram. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| a | b | c | d | e<br>f(d,k) | f | g | h<br>c×f/e | i<br>c×g/e | k |
| Uncertainty Component | Sec. | Tol<br>(± %) | Prob.<br>Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui<br>(±%) | 10g Ui<br>(±%) | vi |
| **Measurement System** | | | | | | | | | |
| Probe calibration | E.2.1 | 6.95 | N | 1 | 1 | 1 | 6.95 | 6.95 | ∞ |
| 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 | | | | 11.97 | 11.80 | |
| Expanded Uncertainty<br>(95% Confidence interval) | | | K=2 | | | | 23.93 | 23.61 | |

| DASY Uncertainty- EX3DV4<br>System Check uncertainty for Dipole averaged over 1 gram / 10 gram. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| a | b | c | d | e<br>f(d,k) | f | g | h<br>c×f/e | i<br>c×g/e | k |
| Uncertainty Component | Sec. | Tol<br>(± %) | Prob.<br>Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui<br>(±%) | 10g Ui<br>(±%) | 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<br>(95% Confidence interval) | | | K=2 | | | | 14.67 | 14.14 | |

| DASY Uncertainty- EX3DV4<br>System Validation uncertainty for Dipole averaged over 1 gram / 10 gram. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| a | b | c | d | e<br>f(d,k) | f | g | h<br>c×f/e | i<br>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 | 6.95 | N | 1 | 1 | 1 | 6.95 | 6.95 | ∞ |
| Axial Isotropy | E.2.2 | 0.6 | R | $\sqrt{3}$ | 1 | 1 | 0.35 | 0.35 | ∞ |
| Hemispherical Isotropy | E.2.2 | 1.6 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Boundary effect | E.2.3 | 1 | R | $\sqrt{3}$ | 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 | $\sqrt{3}$ | 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 | $\sqrt{3}$ | 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 | $\sqrt{3}$ | 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 | ∞ |
| **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 | $\sqrt{3}$ | 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 | | | | 11.62 | 11.46 | |
| Expanded Uncertainty<br>(95% Confidence interval) | | | K=2 | | | | 23.25 | 22.91 | |

# 12. CONDUCTED POWER MEASUREMENT

**Bluetooth_BR/EDR**

| Modulation | Channel | Frequency(MHz) | Peak Power (dBm) |
|---|---|---|---|
| GFSK | 0 | 2402 | 6.215 |
| | 39 | 2441 | 5.943 |
| | 78 | 2480 | 6.023 |
| π /4-DQPSK | 0 | 2402 | 8.607 |
| | 39 | 2441 | 8.317 |
| | 78 | 2480 | 8.356 |
| 8-DPSK | 0 | 2402 | **9.164** |
| | 39 | 2441 | 8.858 |
| | 78 | 2480 | 8.902 |

**Bluetooth_BLE**

| Modulation | Channel | Frequency(MHz) | Peak Power (dBm) |
|---|---|---|---|
| GFSK | 0 | 2402 | **6.160** |
| | 19 | 2440 | 5.894 |
| | 39 | 2480 | 5.984 |

**5GHz WIFI**

| Mode | channel | Frequency | Power(dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Data Rate(bps) | | | | | | | |
| | | | 6M | 9M | 12M | 18M | 24M | 36M | 48M | 54M |
| 802.11a | 36 | 5180 | **8.92** | 8.91 | 8.72 | 8.69 | 8.62 | 8.46 | 8.45 | 8.27 |
| | 40 | 5200 | 8.41 | 8.40 | 8.24 | 8.21 | 8.04 | 7.84 | 7.83 | 7.74 |
| | 44 | 5220 | 8.32 | 8.17 | 8.03 | 7.93 | 7.73 | 7.61 | 7.48 | 7.40 |
| | 48 | 5240 | 8.52 | 8.32 | 8.28 | 8.17 | 8.12 | 7.96 | 7.77 | 7.65 |
| | 149 | 5745 | 9.57 | 9.46 | 9.43 | 9.34 | 9.23 | 9.08 | 8.89 | 8.82 |
| | 157 | 5785 | 9.86 | 9.84 | 9.80 | 9.77 | 9.65 | 9.52 | 9.50 | 9.42 |
| | 165 | 5825 | **10.17** | 10.11 | 9.97 | 9.82 | 9.75 | 9.70 | 9.58 | 9.43 |
| | | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| 802.11n (20) | 36 | 5180 | 8.19 | 8.03 | 7.99 | 7.93 | 7.75 | 7.55 | 7.37 | 7.23 |
| | 40 | 5200 | 8.40 | 8.40 | 8.21 | 8.02 | 7.83 | 7.70 | 7.68 | 7.66 |
| | 44 | 5220 | 8.23 | 8.05 | 8.02 | 7.89 | 7.89 | 7.77 | 7.73 | 7.62 |
| | 48 | 5240 | 8.66 | 8.59 | 8.59 | 8.39 | 8.31 | 8.15 | 8.01 | 7.83 |
| | 149 | 5745 | 6.75 | 6.63 | 6.55 | 6.54 | 6.43 | 6.42 | 6.35 | 6.26 |
| | 157 | 5785 | 9.92 | 9.81 | 9.63 | 9.46 | 9.43 | 9.25 | 9.23 | 9.20 |
| | 165 | 5825 | 10.17 | 9.98 | 9.89 | 9.74 | 9.57 | 9.51 | 9.39 | 9.30 |

# 13. TEST RESULTS

## 13.1. SAR Test Results Summary

### 13.1.1. Test position and configuration

1. The EUT is a model of bluetooth speaker.

   According to KDB 447498 D01 v06, due to maximum peak power for bluetooth is more than just a test exclusion threshold, which must be tested.

2. Test procedure:

   (1) Lab. use the head liquid with a separation of 0mm at flat phantom to test back, front and edge3(bottom).

3. For SAR testing, the device was controlled by software to test at reference fixed frequency points.

### 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. 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 turn-up power (mw)/ maximum measurement output power(mw) ]

4. 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 (%): 52.9 | | | | | |
| Product: Wireless Speaker | | | | | | | | | |
| Test Mode: BT | | | | | | | | | |
| **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** |
| **BR/EDR** | | | | | | | | | |
| Body back | DH5 | 39 | 2441 | 0.13 | 0.032 | 9.20 | 5.943 | 0.068 | 1.6 |
| Body front | DH5 | 0 | 2402 | -0.07 | 0.071 | 9.20 | 6.215 | 0.141 | 1.6 |
| Body front | DH5 | 39 | 2441 | -0.11 | 0.057 | 9.20 | 5.943 | 0.121 | 1.6 |
| Body front | DH5 | 78 | 2480 | -0.03 | **0.076** | 9.20 | 6.023 | **0.158** | 1.6 |
| Edge 3 (Bottom) | DH5 | 39 | 2441 | 0.07 | 0.062 | 9.20 | 5.943 | 0.131 | 1.6 |
| **BLE** | | | | | | | | | |
| Body back | GFSK | 19 | 2440 | 0.10 | 0.059 | 6.20 | 5.894 | 0.063 | 1.6 |
| Body front | GFSK | 19 | 2440 | 0.16 | 0.108 | 6.20 | 5.894 | 0.116 | 1.6 |
| Edge 3 (Bottom) | GFSK | 0 | 2402 | 0.07 | 0.134 | 6.20 | 6.160 | 0.135 | 1.6 |
| Edge 3 (Bottom) | GFSK | 19 | 2440 | 0.11 | 0.143 | 6.20 | 5.894 | 0.153 | 1.6 |
| Edge 3 (Bottom) | GFSK | 39 | 2480 | 0.04 | **0.147** | 6.20 | 5.984 | **0.154** | 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.
- The test separation of all above table is 0mm.

| SAR MEASUREMENT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 43.1 | | | | |
| Product: Wireless Speaker | | | | | | | | |
| Test Mode: 5.2GHz 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 | 40 | 5200 | 0.06 | 0.250 | 9.00 | 8.41 | 0.286 | 1.6 |
| Body front | 40 | 5200 | -0.11 | 0.195 | 9.00 | 8.41 | 0.223 | 1.6 |
| Edge 3 (Bottom) | 36 | 5180 | 0.17 | 0.349 | 9.00 | 8.92 | 0.355 | 1.6 |
| Edge 3 (Bottom) | 40 | 5200 | 0.18 | 0.369 | 9.00 | 8.41 | 0.423 | 1.6 |
| Edge 3 (Bottom) | 48 | 5240 | 0.05 | **0.515** | 9.00 | 8.52 | **0.575** | 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.
- The test separation of all above table is 0mm.

| SAR MEASUREMENT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 54.3 | | | | |
| Product: Wireless Speaker | | | | | | | | |
| Test Mode: 5.8GHz 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 | 157 | 5785 | 0.09 | 0.213 | 10.20 | 9.86 | 0.230 | 1.6 |
| Body front | 157 | 5785 | 0.10 | 0.122 | 10.20 | 9.86 | 0.132 | 1.6 |
| Edge 3 (Bottom) | 149 | 5745 | 0.10 | 0.257 | 10.20 | 9.57 | **0.297** | 1.6 |
| Edge 3 (Bottom) | 157 | 5785 | 0.04 | **0.262** | 10.20 | 9.86 | 0.283 | 1.6 |
| Edge 3 (Bottom) | 165 | 5825 | 0.07 | 0.204 | 10.20 | 10.17 | 0.205 | 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.
- The test separation of all above table is 0mm.

# APPENDIX A. SAR SYSTEM CHECK DATA

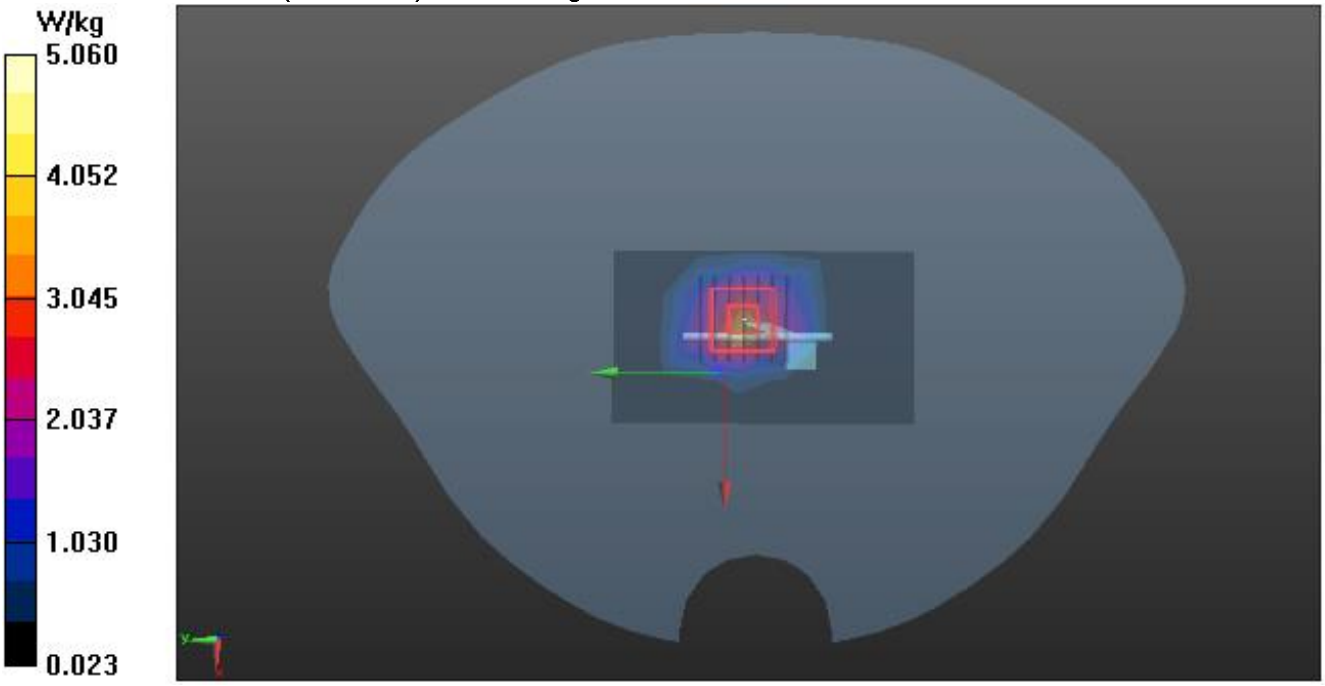
**Test Laboratory: AGC Lab** **Date: Oct. 11, 2024**
**System Check Head 2450 MHz**
**DUT: Dipole 2450 MHz Type: D2450V2**

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1;
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; $\sigma$=1.79 mho/m; $\varepsilon_r$ =38.75; $\rho$= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.4

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(7.87, 7.87, 7.87); Calibrated: Sep. 05, 2024;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check Head 2450MHz/Area Scan (5x8x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.85 W/kg

**Configuration/System Check Head 2450MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 45.884 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 6.99 W/kg
**SAR(1 g) = 3.22 W/kg; SAR(10 g) = 1.47 W/kg**
Maximum value of SAR (measured) = 5.06 W/kg



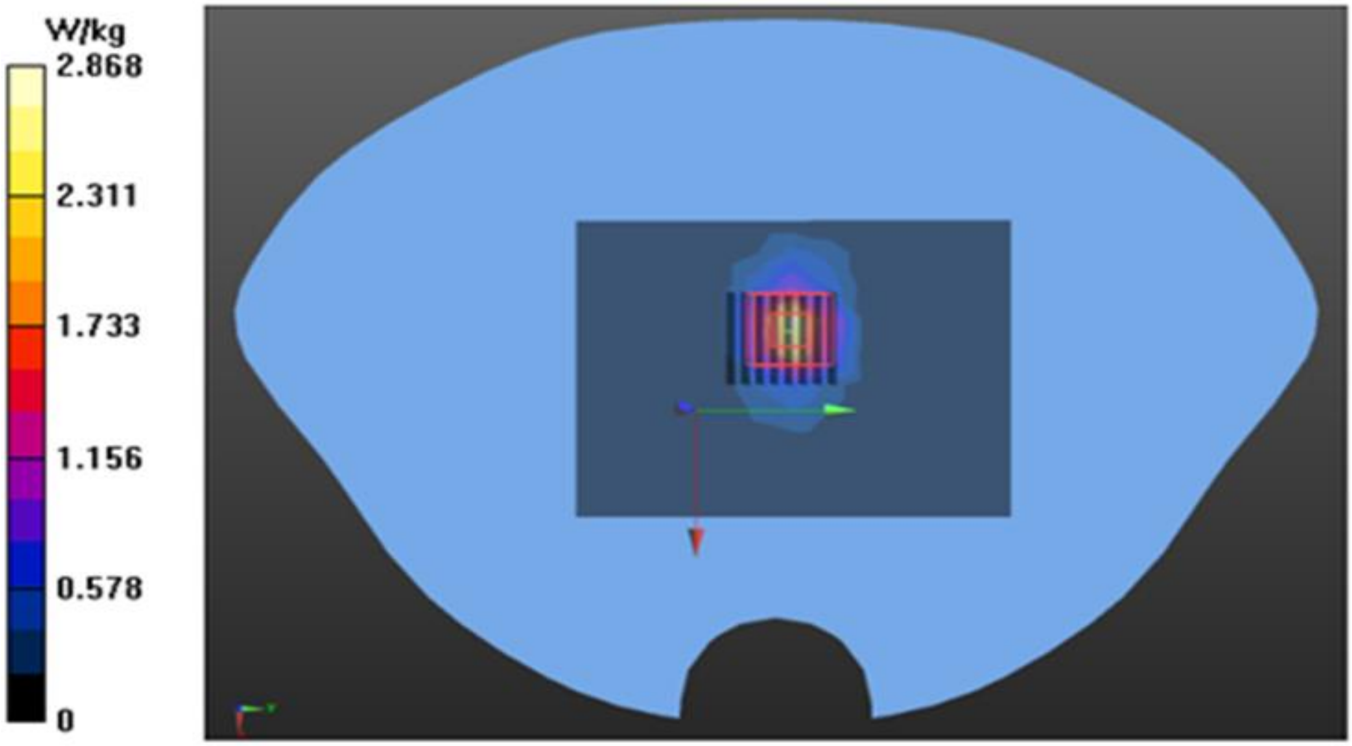
**Test Laboratory: AGC Lab** **Date: Oct. 12, 2024**
**System Check Head 5200 MHz**
**DUT: Dipole 5000MHz Type: SWG5500**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5200 MHz; Medium parameters used: f = 5250 MHz; σ =4.76mho/m; εr = 36.98; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.1

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(5.50, 5.50, 5.50); Calibrated: Sep. 05, 2024;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check 5200MHz Head/Area Scan (10x13x1):**Measurement grid:dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.80 W/kg

**Configuration/System Check 5200MHz Head/Zoom Scan (8x8x13)/Cube 0:**Measurement grid:dx=4mm, dy=4mm, dz=2mm
Reference Value = 17.309 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 5.01 W/kg
**SAR(1 g) = 0.785 W/kg; SAR(10 g) = 0.238 W/kg**
Maximum value of SAR (measured) = 2.868 W/kg



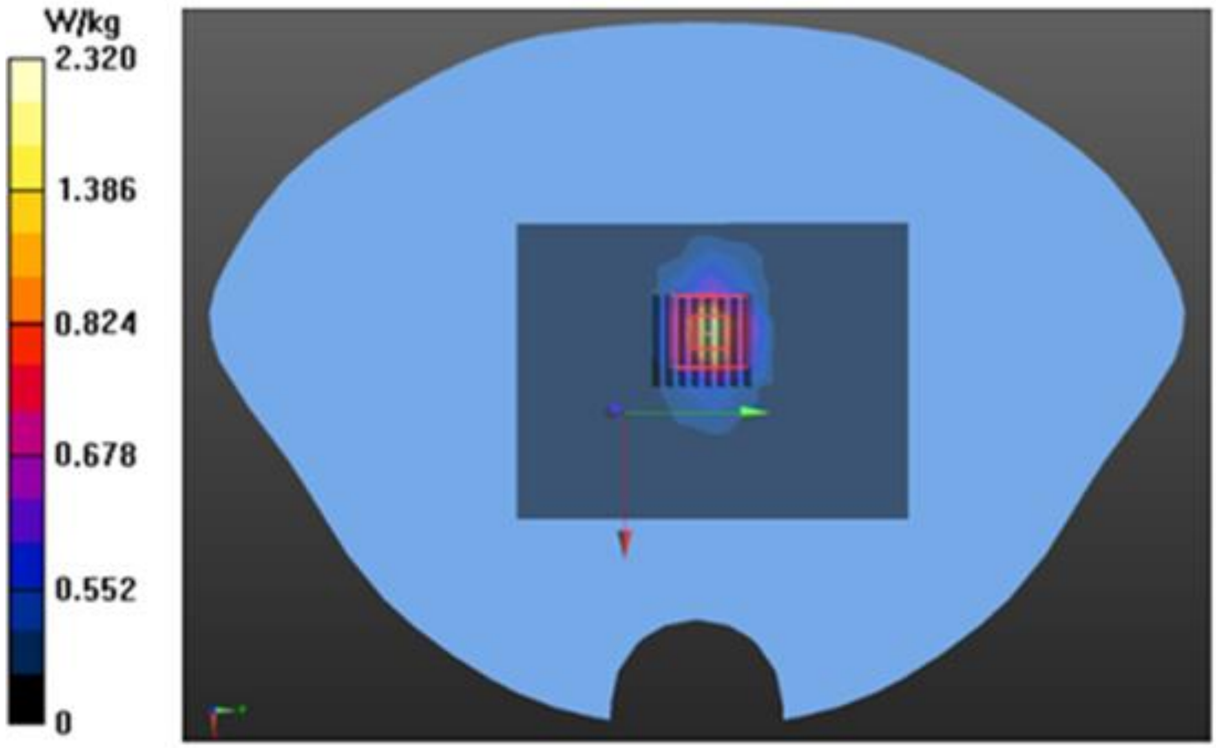
**Test Laboratory: AGC Lab** **Date: Nov. 21, 2024**
**System Check Head 5800 MHz**
**DUT: Dipole 5000MHz Type: SWG5500**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5800 MHz; Medium parameters used: f = 5750 MHz; σ =5.14 mho/m; εr =36.13; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(4.98, 4.98, 4.98); Calibrated: Sep. 05, 2024;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**Configuration/System Check 5800MHz Head/Area Scan (10x13x1):**Measurement grid:dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.08 W/kg

**Configuration/System Check 5800MHz Head/Zoom Scan (8x8x13)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm**:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.591 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 6.43 W/kg
**SAR(1 g) = 0.78 W/kg; SAR(10 g) = 0.226 W/kg**
Maximum value of SAR (measured) = 2.32 W/kg



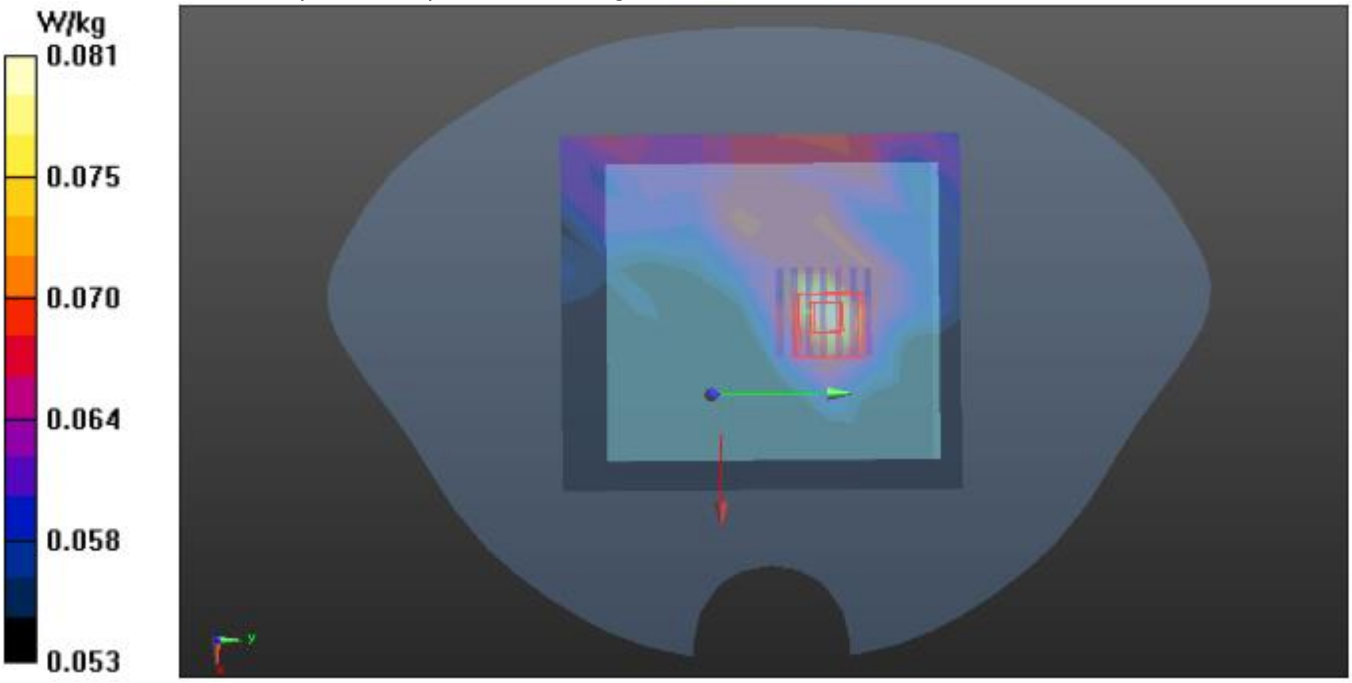
# APPENDIX B. SAR MEASUREMENT DATA

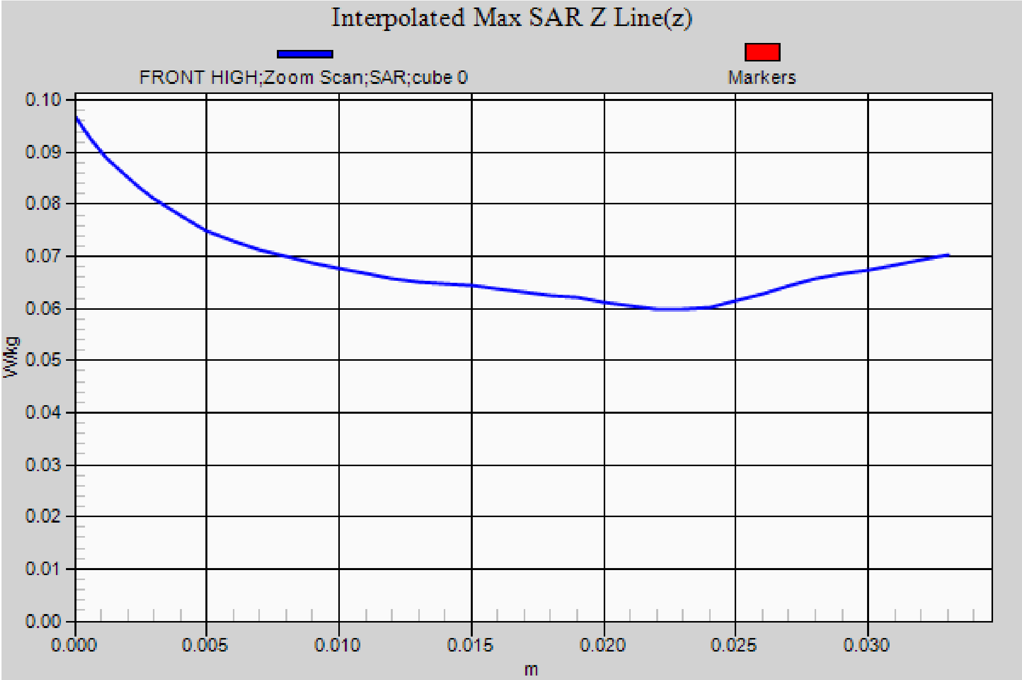
**Test Laboratory: AGC Lab** **Date: Oct. 11, 2024**
**BR/EDR High- Body- front**
**DUT: Wireless Speaker; Type: A3305**

Communication System: BT; Communication System Band: BR/EDR; Duty Cycle: 58%;
Frequency: 2480MHz; Medium parameters used: f = 2450 MHz; σ=1.80 mho/m; εr =37.21;; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃):21.4

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(7.87, 7.87, 7.87); Calibrated: Sep. 05, 2024;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/FRONT HIGH/Area Scan (9x10x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0881 W/kg
**BODY/FRONT HIGH/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.597 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.0970 W/kg
**SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.067 W/kg**
Maximum value of SAR (measured) = 0.0807 W/kg



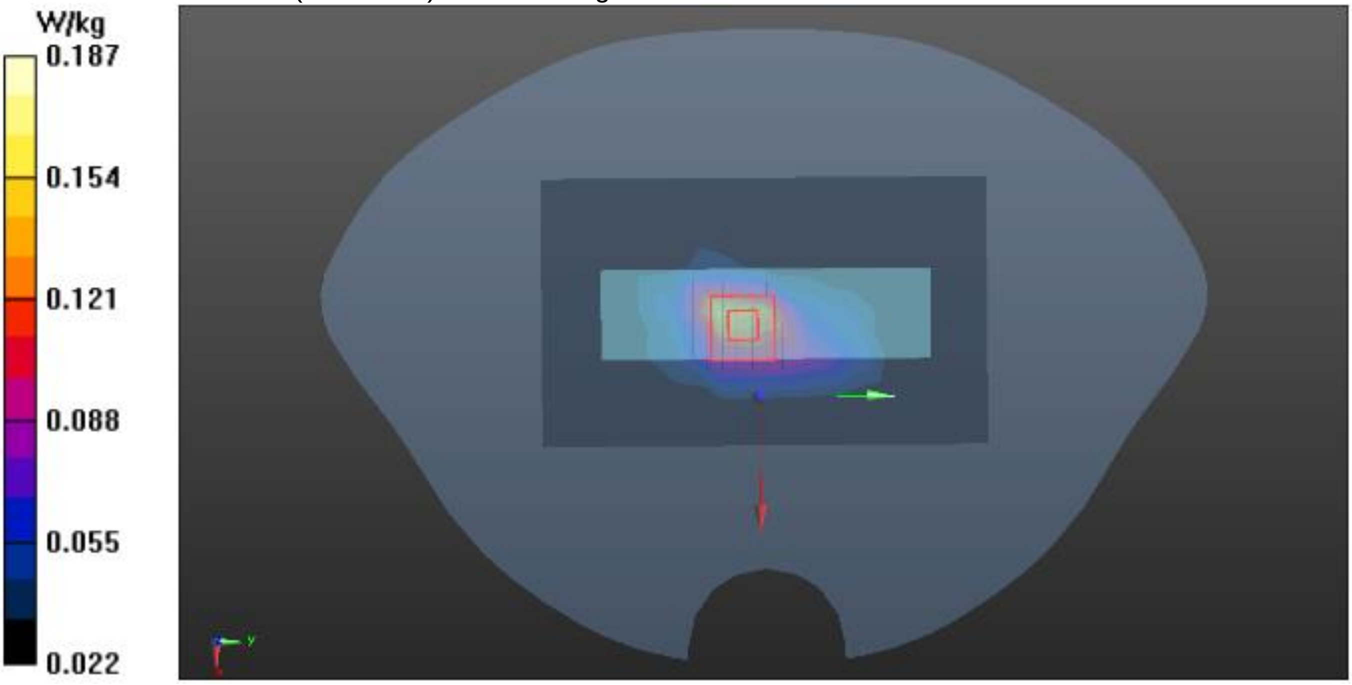

Interpolated Max SAR Z Line(z)
FRONT HIGH;Zoom Scan;SAR;cube 0
Markers
W/kg
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0.000
0.005
0.010
0.015
0.020
0.025
0.030
m

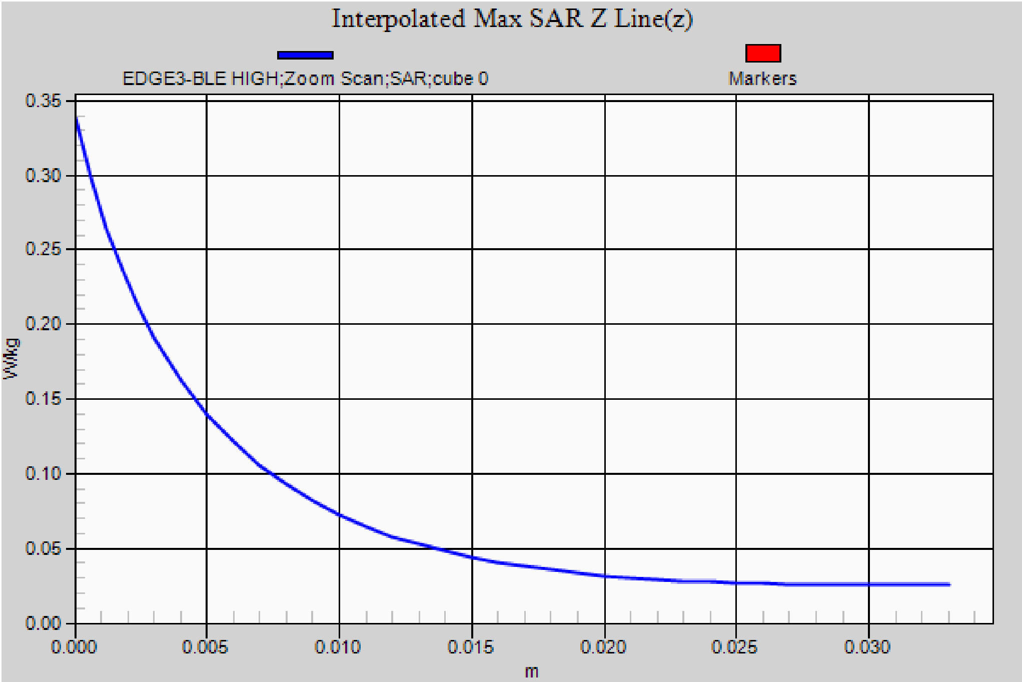
**Test Laboratory: AGC Lab** **Date: Oct. 11, 2024**
**BLE High- Body- Edge 3 (Bottom)**
**DUT: Wireless Speaker; Type: A3305**

Communication System: BT; Communication System Band: BLE; Duty Cycle: 86%;
Frequency: 2480MHz; Medium parameters used: f = 2450 MHz; σ=1.80 mho/m; εr =37.21;ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃):21.4

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(7.87, 7.87, 7.87); Calibrated: Sep. 05, 2024;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/EDGE3-BLE HIGH/Area Scan (7x11x1):** Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.159 W/kg
**BODY/EDGE3-BLE HIGH/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.153 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.338 W/kg
**SAR(1 g) = 0.147 W/kg; SAR(10 g) = 0.073 W/kg**
Maximum value of SAR (measured) = 0.187 W/kg



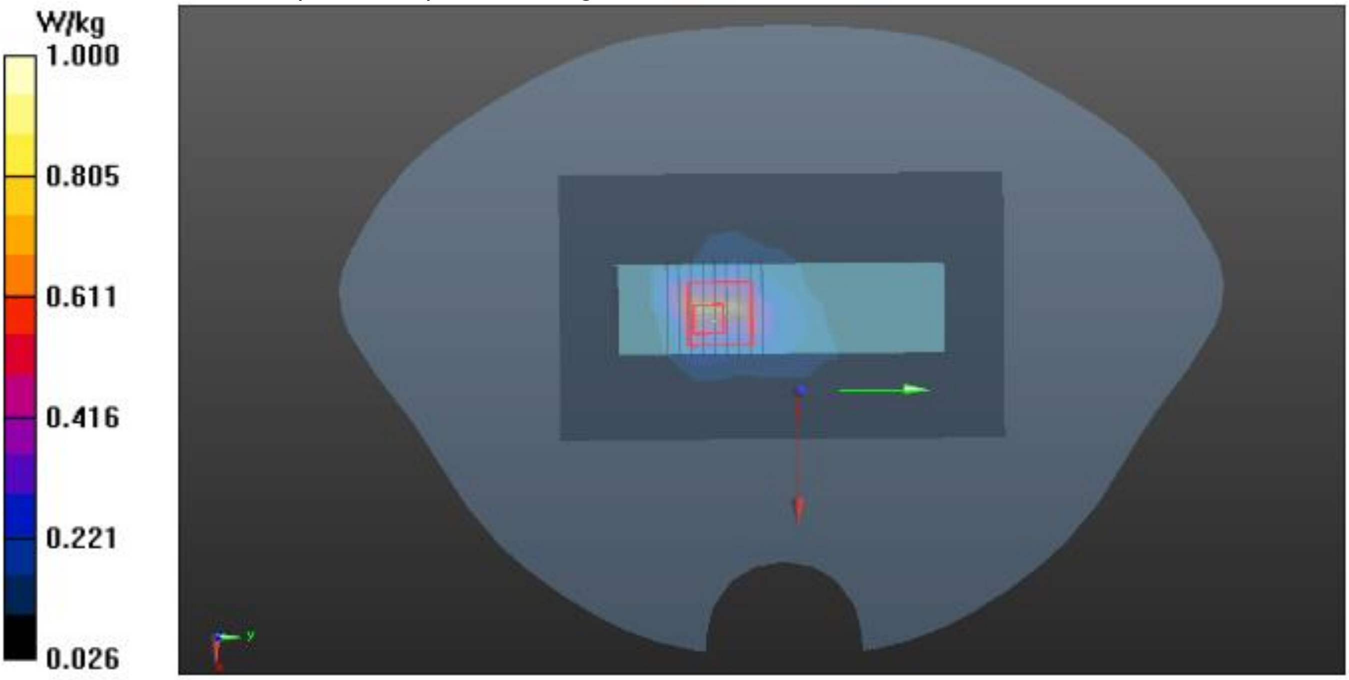

Interpolated Max SAR Z Line(z)
EDGE3-BLE HIGH;Zoom Scan;SAR;cube 0
Markers
W/kg
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.000
0.005
0.010
0.015
0.020
0.025
0.030
m

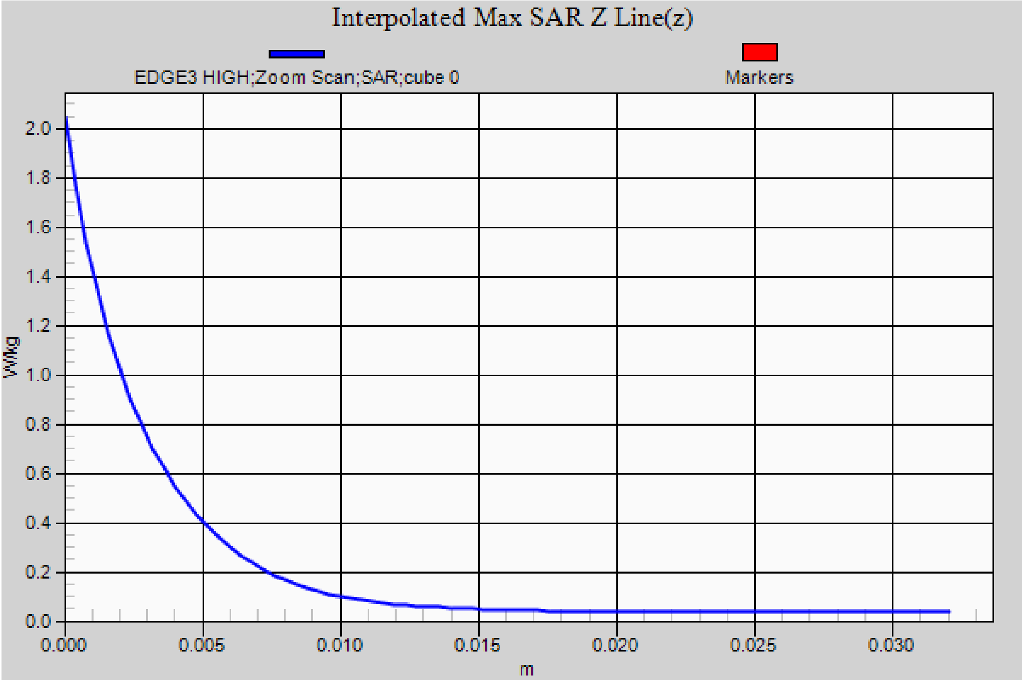
**Test Laboratory: AGC Lab** **Date: Oct. 12, 2024**
**5.2GHz -802.11a CH48- Body- Edge 3 (Bottom)**
**DUT: Wireless Speaker; Type: A3305**

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 91%
Frequency: 5240 MHz; Medium parameters used: f = 5250MHz; σ =4.79 mho/m; εr =35.71; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.1

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(5.50, 5.50, 5.50); Calibrated: Sep. 05, 2024;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/EDGE3 HIGH/Area Scan (7x11x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.684 W/kg
**BODY/EDGE3 HIGH/Zoom Scan (9x9x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.108 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 2.05 W/kg
**SAR(1 g) = 0.515 W/kg; SAR(10 g) = 0.191 W/kg**
Maximum value of SAR (measured) = 1.00 W/kg



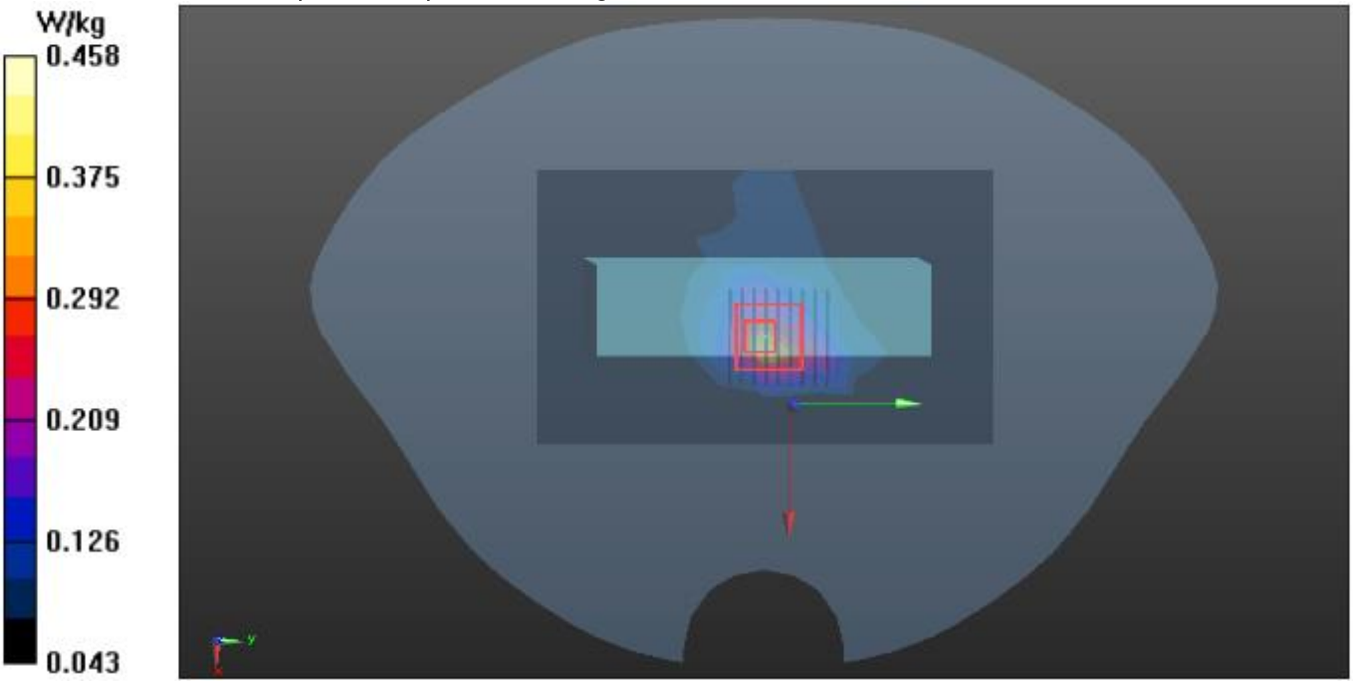

Interpolated Max SAR Z Line(z)
EDGE3 HIGH;Zoom Scan;SAR;cube 0
Markers
W/kg
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.000
0.005
0.010
0.015
0.020
0.025
0.030
m

**Test Laboratory: AGC Lab** **Date: Nov. 21, 2024**
**5.8GHz -802.11a- CH149- Body- Edge 3 (Bottom)**
**DUT: Wireless Speaker; Type: A3305**

Communication System: Wi-Fi; Communication System Band: 802.11n-HT20; Duty Cycle: 91%
Frequency: 5745 MHz; Medium parameters used: f = 5750 MHz; σ=5.07 mho/m; εr =37.69; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(4.98, 4.98, 4.98); Calibrated: Sep. 05, 2024;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/EDGE3 LOW/Area Scan (7x11x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.362 W/kg
**BODY/EDGE3 LOW/Zoom Scan (9x9x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 8.304 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.913 W/kg
**SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.133 W/kg**
Maximum value of SAR (measured) = 0.458 W/kg

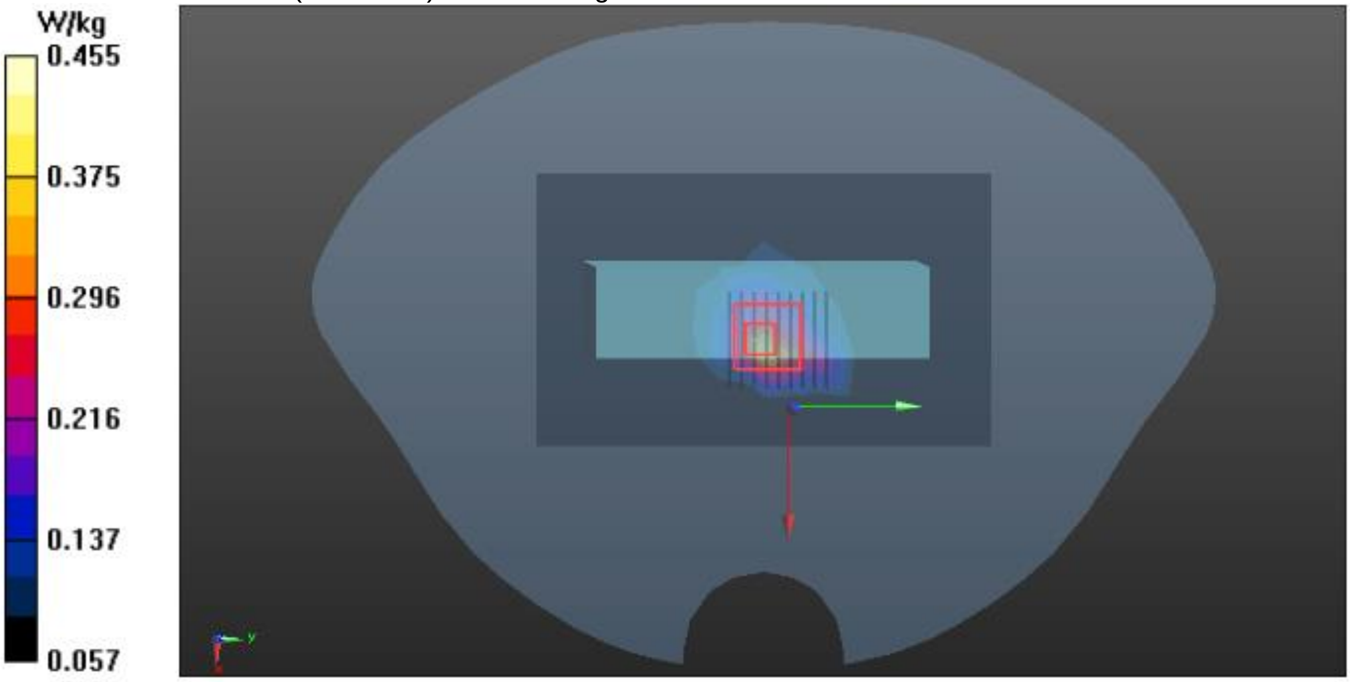


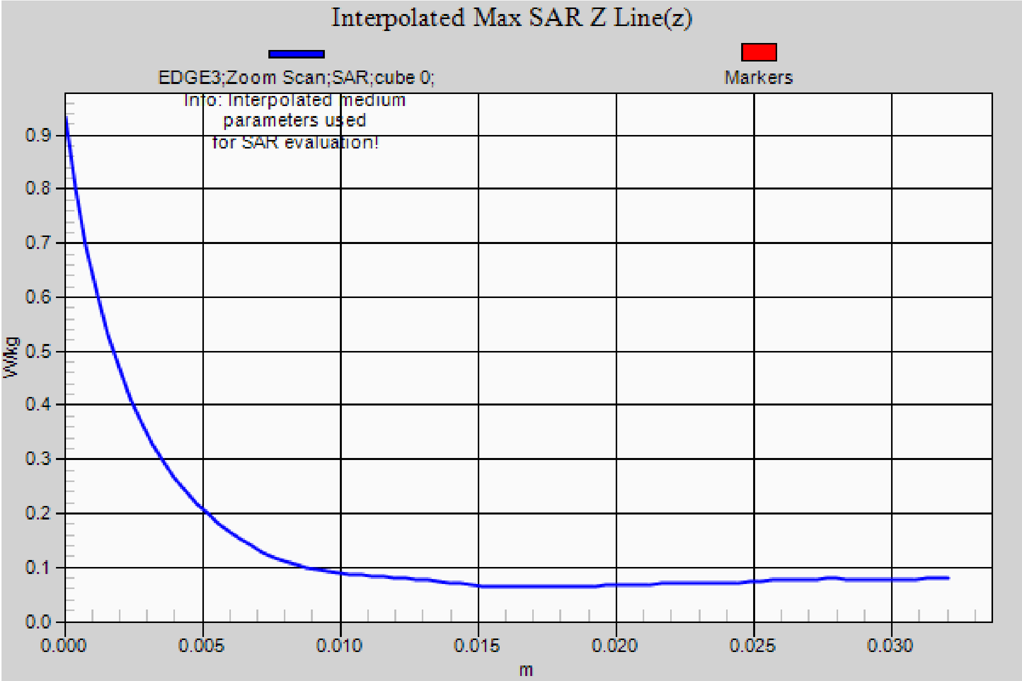
**Test Laboratory: AGC Lab** **Date: Nov. 21, 2024**
**5.8GHz -802.11a- CH157- Body- Edge 3 (Bottom)**
**DUT: Wireless Speaker; Type: A3305**

Communication System: Wi-Fi; Communication System Band: 802.11n-HT20; Duty Cycle: 91%
Frequency: 5785 MHz; Medium parameters used: f = 5750 MHz; σ=5.10 mho/m; εr =37.22; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

DASY Configuration:
- Probe: EX3DV4 – SN:3953; ConvF(4.98, 4.98, 4.98); Calibrated: Sep. 05, 2024;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

**BODY/EDGE3/Area Scan (7x11x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.365 W/kg
**BODY/EDGE3/Zoom Scan (9x9x16)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 8.243 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.933 W/kg
**SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.134 W/kg**
Maximum value of SAR (measured) = 0.455 W/kg




Interpolated Max SAR Z Line(z)
EDGE3;Zoom Scan;SAR;cube 0;
Markers
Info: Interpolated medium parameters used for SAR evaluation!
W/kg
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
0.000
0.005
0.010
0.015
0.020
0.025
0.030
m

## APPENDIX C. TEST SETUP PHOTOGRAPHS

Refer to Attached files.

## 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. 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.

5. 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.

6. 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.

7.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.

8. 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.

9. 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.