

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241200486204

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SAR TEST REPORT

Application No.: SZCR2412004862AT

Applicant: NOTHING TECHNOLOGY LIMITED

Address of Applicant: Bedford House, 21A John Street, London, United Kingdom WC1N 2BF

Manufacturer: NOTHING TECHNOLOGY LIMITED

Address of Manufacturer: Bedford House, 21A John Street, London, United Kingdom WC1N 2BF

EUT Description: Wireless Earphone

Model No.: B185

Trade Mark: cmf by NOTHING

FCC ID: 2AZEQ-B185L, 2AZEQ-B185R

Standards: FCC 47CFR §2.1093

Date of Receipt: 2025-01-15 Date of Test: 2025-01-16 Date of Issue: 2025-02-17

Test Result: PASS *

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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	Revision Record			
Version	Chapter	Date	Modifier	Remark
01		2025-02-17		Original

Authorized for issue by:		
	Charle Doi	
	Charlie Dai/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)
, ,	Head
ВТ	0.79
SAR Limited(W/kg)	1.6





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1 **General Information**

General Description of EUT

Product Name:	Wireless Earphone		
Model No.:	B185		
Trade Mark:	cmf by NOTHING	cmf by NOTHING	
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environ	ment / general population	
S/N:	M05500245200015A		
Hardware Version:	v3.0		
Software Version:	v1.0.1.36	v1.0.1.36	
Antenna Type:	FPC Antenna	FPC Antenna	
Device Operating Configurations	Device Operating Configurations:		
Modulation Mode:	BT:GFSK, π/4DQPS	BT:GFSK, π/4DQPSK,8DPSK; BLE: GFSK	
	Band	Tx(MHz)	Rx(MHz)
Frequency Bands:	ВТ	2402~2480	2402~2480
	BLE 1M	2402~2480	2402~2480
	BLE 2M	2404~2478	2404~2478
	DLE ZIVI	(Excluding 2426)	(Excluding 2426)
Battery Information:	Model:	1145	
	Normal Voltage:	3.85V	
	Rated capacity:	45mAh	
	Manufacturer:	Hunan Yiwait New Ene	rgy Co., Ltd.

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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1.2 DUT Antenna Locations

Refer to the operation desprition document.





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1.3 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02





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1.4 RF exposure limits

Human Exposure	Uncontrolled Environment	Controlled Environment
Human Exposure	General Population	Occupational
Spatial Peak SAR*	1.60 mW/a	9.00 mW/a
(Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR**	0.00 m)///m	0.40 mW/g
(Whole Body)	0.08 mW/g	
Spatial Peak SAR***	4.00 mW/a	20.00 m\\/a
(Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Notes:

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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^{*} The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

^{**} The Spatial Average value of the SAR averaged over the whole body.

^{***} The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.



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1.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

1.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.





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1.7 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C	
Relative humidity	Min. = 30%, Max. = 70%	
Ground system resistance	< 0.5 Ω	
Ambient noise is checked and found very low and in compliance with requirement of standards.		
Reflection of surrounding objects is minimized and in compliance with requirement of standards.		



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2 SAR Measurements System Configuration

2.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

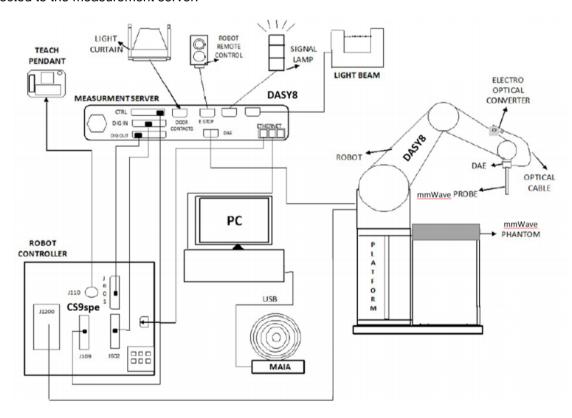
The DASY system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration

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- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows system.
- DASY software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.





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Isotropic E-field Proble EX3DV4 2.2

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis)
Directivity	± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g
	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
	Overall length: 337 mm (Tip: 20 mm)
Dimensions	Tip diameter: 2.5 mm (Body: 12 mm)
	Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g.,
Application	very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY52 SAR and higher, EASY4/MRI



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Data Acquisition Electronics (DAE) 2.3

Model	DAE
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5µV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



SAM Twin Phantom 2.4

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	pprox 25 liters
Wooden Support	SPEAG standard phantom table



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE Std. 1528-2013. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.





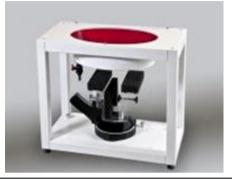
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ELI Phantom 2.5

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2.0 ± 0.2 mm(bottom plate)
Dimensions	Major axis: 600 mm Minor axis: 400 mm
Filling Volume	pprox 30 liters
Wooden Support	SPEAG standard phantom table



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEEE Std. 1528-2013. standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4 but has reinforced top structure.





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2.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- 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 centres for both scales are the ear reference point (ERP). 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.





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2.7 Measurement Procedure

2.7.1 Scanning procedure

Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm (f≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.





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			≤ 3 GHz	> 3 GHz		
Maximum distance from			5 ± 1 mm	½·8·ln(2) ± 0.5 mm		
Maximum probe angle surface normal at the n			30° ± 1°	20° ± 1°		
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
Maximum area scan sp	atial resoli	ation: ∆x _{Area} , ∆y _{Area}	When the x or y dimension of measurement plane orientation the measurement resolution is x or y dimension of the test of measurement point on the test.	on, is smaller than the above, must be ≤ the corresponding levice with at least one		
Maximum zoom scan s	patial reso	lution: Δx _{Zoom} , Δy _{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$		
	uniform	grid: ∆z _{Z∞m} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
Maximum zoom scan spatial resolution, normal to phantom surface		graded	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	grid	Δz _{Zoom} (n>1): between subsequent points	≤ 1.5·Δz	Zoom(n-1)		
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm		

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. ± 5 %





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2.7.2 Data storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension "DAE". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

2.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

- Conversion factor ConvFi - Diode compression point Dcpi

Device parameters: - Frequency

- Crest factor

Media parameters: - Conductivity 3

- Density

These parameters must be set correctly in the software. They can be found in the component documents, or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

Vi = compensated signal of channel I (I = x, y, z)

Ui = input signal of channel I (I = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated: E-field probes:

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$$E_{i} = (V_{i} / Norm_{i} \cdot ConvF)^{1/2}$$



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H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$

With Vi = compensated signal of channel I

Normi = sensor sensitivity of channel I

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aii = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel I in V/m

Hi = magnetic field strength of channel I in A/m

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

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.
 $SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$

SAR = local specific absorption rate in mW/g with

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 2/3770$$
 or $P_{pwe} = H_{tot}^2 \cdot 37.7$ with Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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SAR measurement variability and uncertainty

3.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

3.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions





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Desciption of Test Position 4

4.1 The Head Test Position

SAR can test the sides near the antenna, the surface of the device should be tested for SAR compliance with device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent device surface is used to determine if SAR testing is required for the adjacent surfaces, with the adjacent surface positioned against the phantom and the surface containing the antenna positioned perpendicular to the phantom.



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5 **SAR System Verification Procedure**

Tissue Simulate Liquid 5.1

5.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients	Frequency (MHz)								
(% by weight)	450	700-1000	1700-2000	2300-2500	2500-2700				
Water	38.56	40.30	55.24	55.00	54.92				
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23				
Sucrose	56.32	57.90	0	0	0				
HEC	0.98	0.24	0	0	0				
Bactericide	0.19	0.18	0	0	0				
Tween	0	0	44.45	44.80	44.85				

Salt: 99+% Pure Sodium Chloride Sucrose: 98+% Pure Sucrose Water: De-ionized, 16 MΩ+ resistivity HEC: Hydroxyethyl Cellulose

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG)

Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%

Table 1: Recipe of Tissue Simulate Liquid



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5.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵr) are listed in Table 2. For the SAR measurement given in this report.

The temperature variation of the Tissue Simulate Liquids was 22±2°C.

•	Measurement for Tissue Simulate Liquid											
Hosue	Measured Frequency	Measured Tissue		Target Tissue (±5%)		Deviation (Within ±5%)		Liquid Temp.	lest			
Туре	(MHz)	ε _r	σ(S/m)	ε _r	σ(S/m)	٤r	σ(S/m)	(℃)	Date			
2402 Head	2402	40.300	1.750	39.33	1.77	2.47%	-1.05%	22.1	2025/1/16			
2441 Head	2441	40.300	1.800	39.27	1.81	2.64%	-0.35%	22.1	2025/1/16			
2450 Head	2450	40.200	1.810	39.20	1.80	2.55%	0.56%	22.1	2025/1/16			
2480 Head	2480	40.100	1.810	39.20	1.84	2.30%	-1.84%	22.1	2025/1/16			

Table 2: Measurement result of Tissue electric parameters



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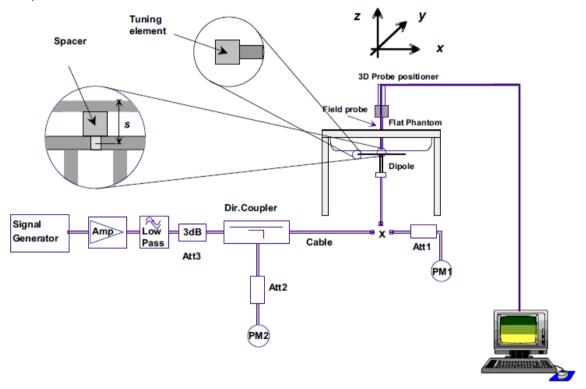
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5.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. The microwave circuit arrangement used for SAR system Check





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5.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 20% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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5.2.2 Summary System Check Result(s)

SAR System Validation Result(s)										
Validation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	(normalized	Target SAR (normalized to 1W)	(Within ±10%) Liquid		Liquid Temp.	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)	(℃)	
D2450V2Head	14.10	6.53	56.40	26.12	52.20	24.30	8.05%	7.49%	22.1	2025/1/16

Table 3: SAR System Check Result

5.2.3 Detailed System Check Results

Please see the Appendix A





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6 Test Configuration

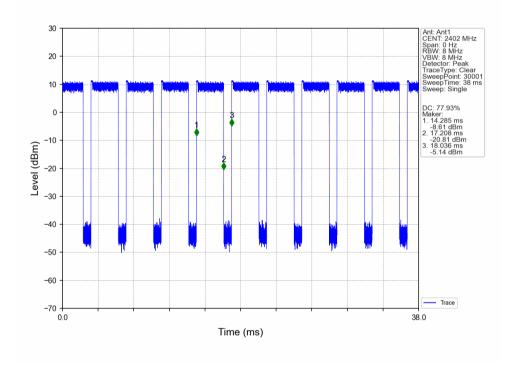
6.1 Operation Configurations

6.1.1 Bluetooth Test Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.

6.1.1.1 Duty cycle

Bluetooth duty cycle: 77.93%





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7 **Test Result**

Measurement of RF Conducted Power 7.1

Left earbuds:

В	вт	Aver	Tungun		
Band	Channel	0	39	78	Tune-up
	GFSK	10.82	10.79	10.59	12.00
ВТ	π/4DQPSK	9.37	9.28	9.09	11.00
	8DPSK	9.42	9.34	9.05	11.00
Band	Channel	0	19	39	Tune-up
BLE 1M	GFSK	7.70	7.63	7.43	8.50
BLE 2M	GFSK	7.59	7.56	7.41	8.50

Right earhuds:

Night Calbuds.									
E	BT	Aver	Tune-up						
Band	Band Channel		39	78	Tune-up				
	GFSK	10.44	10.25	9.97	11.50				
ВТ	π/4DQPSK	8.91	8.76	8.48	10.00				
	8DPSK	8.75	8.60	8.28	10.00				
Band	Channel	0	19	39	Tune-up				
BLE 1M	GFSK	6.97	6.75	6.53	8.00				
BLE 2M	GFSK	6.84	6.71	6.52	8.00				





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Measurement of SAR Data 7.2

	Bluetooth SAR Test Record											
Test position	Test mode	Test ch./Freq.		Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)
				Left	Earphor	nes Test d	data (Sep	parate 0mm)				
Front side	DH5	39/2441	78%	1.286	0.406	0.128	-0.06	10.79	12.00	1.321	0.690	22.1
Back side	DH5	39/2441	78%	1.286	0.257	0.096	-0.06	10.79	12.00	1.321	0.437	22.1
Left side	DH5	39/2441	78%	1.286	0.331	0.126	-0.07	10.79	12.00	1.321	0.563	22.1
Right side	DH5	39/2441	78%	1.286	0.246	0.090	0.18	10.79	12.00	1.321	0.418	22.1
Top side	DH5	39/2441	78%	1.286	0.173	0.071	-0.01	10.79	12.00	1.321	0.294	22.1
Bottom side	DH5	39/2441	78%	1.286	0.129	0.054	0.00	10.79	12.00	1.321	0.219	22.1
Front side	DH5	0/2402	78%	1.286	0.465	0.131	0.07	10.82	12.00	1.312	0.785	22.1
Front side	DH5	78/2480	78%	1.286	0.312	0.103	-0.11	10.59	12.00	1.384	0.555	22.1
				Righ	t Earpho	nes Test	data (Se	parate 0mm)				
Front side	DH5	39/2441	78%	1.286	0.379	0.132	0.12	10.25	11.50	1.334	0.650	22.1
Back side	DH5	39/2441	78%	1.286	0.115	0.052	-0.14	10.25	11.50	1.334	0.197	22.1
Left side	DH5	39/2441	78%	1.286	0.400	0.152	-0.04	10.25	11.50	1.334	0.686	22.1
Right side	DH5	39/2441	78%	1.286	0.432	0.166	0.10	10.25	11.50	1.334	0.741	22.1
Top side	DH5	39/2441	78%	1.286	0.148	0.069	0.17	10.25	11.50	1.334	0.254	22.1
Bottom side	DH5	39/2441	78%	1.286	0.255	0.111	0.09	10.25	11.50	1.334	0.437	22.1
Right side	DH5	0/2402	78%	1.286	0.354	0.149	0.03	10.44	11.50	1.276	0.581	22.1
Right side	DH5	78/2480	78%	1.286	0.278	0.112	-0.10	9.97	11.50	1.422	0.509	22.1



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Equipment list 8

	Ечатрите	116 1106				
	Test Platform	SPEAG DASY	Professional			
	Description	SAR Test Syst	em			
So	ftware Reference	cDASY8 V16.4	1.0.5005			
			Hardware	Reference		
	Equipment	Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
\boxtimes	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-027	NCR	NCR
\boxtimes	DAE	SPEAG	DAE4ip	SZ-WSR-M-074	2024/08/08	2025/08/07
\boxtimes	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-079	2024/11/20	2025/11/19
\boxtimes	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
\boxtimes	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2024/06/26	2025/06/25
\boxtimes	RF Bi- Directional Coupler	Agilent	86205- 60001	SZ-WSR-A-004	NCR	NCR
\boxtimes	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2024/01/30	2025/01/29
\boxtimes	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR
\boxtimes	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2024/01/30	2025/01/29
\boxtimes	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2024/01/30	2025/01/29
\boxtimes	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2024/01/30	2025/01/29
\boxtimes	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
\boxtimes	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29
\boxtimes	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29
\boxtimes	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29
\boxtimes	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2024/05/28	2025/05/27

Note: All the equipment are within the valid period when the tests are performed.



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND.Doccheck@gs.com"

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9 Calibration certificate

Please see the Appendix C

Photographs 10

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

--- End of report ---



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