



SAR TEST REPORT

For

Arvicom Sarl

Pocket Unit



Test Model: 900.1002.01

Additional Model No.: Please Refer to Page 8

Prepared for Address

Prepared by Address

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Date of receipt of test sample Number of tested samples Sample No. Serial number Date of Test Date of Report May 15, 2024
1
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May 15, 2024 ~ May 15, 2024
May 22, 2024





	SAR TEST REPORT			
Report Reference No	LCSA03224197E			
Date Of Issue	May 22, 2024			
Testing Laboratory Name::	Shenzhen LCS Compliance Testing Laboratory Ltd.			
Address:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China			
Testing Location/ Procedure:	Full application of Harmonised standards			
	Partial application of Harmonised standards \Box			
	Other standard testing method \square			
Applicant's Name:	Arvicom Sarl			
Address	20 Rue Du Commerce, L-3895 Foetz. Luxembourg			
Test Specification:	Line .			
Standard	FCC 47CFR §2.1093, ANSI/IEEE C95.1-2019, IEEE 1528-2013			
Test Report Form No	LCSEMC-1.0			
TRF Originator	Shenzhen LCS Compliance Testing Laboratory Ltd.			
Master TRF	Dated 2014-09			
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Test Item Description::	Pocket Unit			
Trade Mark	/			
Model/Type Reference:	900.1002.01			
Ratings	Input: 5V2A			
Result:	Positive			

Compiled by: Jayzhan

Jay Zhan/ File administrators

Supervised by:

Approved by: Jamo

Cary Luo / Technique principal Gavin Liang/ Manager





SAR -- TEST REPORT

	(6 ¹⁶⁴)	198 Test Left	
Test Report No. :	LCSA03224197E	May 22, 2024 Date of issue	
EUT	: Pocket Unit		
Type/Model	: 900.1002.01		
Applicant Address Telephone Fax	20 Rue Du Commerce, L-3895 Foetz. Luxembourg		
Manufacturer Address Telephone Fax	: 20 Rue Du Commerce, L-3895 Foetz. Luxembourg : /		
Factory	: Arvicom Sarl : 20 Rue Du Commerce, L-38	295 Foetz Luxembourg	

Test Result	Positive
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The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





		Revisor	n History	
15	Revision	Issue Date	Revision Content	Revised By
	000	May 22, 2024	Initial Issue	







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1. TEST STANDARDS AND TEST DESCRIPTION

1.1. Statement of Compliance

The maximum of results of SAR found during testing for 900.1002.01 are follows:

<Highest Reported standalone SAR Summary>

Classment Class	Frequency Band	Body (Report SAR1-g (W/kg)	
Cidos	Danu	(Separation Distance 0mm)	
DTS	WIFI2.4G	0.431	
Nat ST LCS TOSTIN	LOS TESTING	1ST LCS Testing	

Note

1) This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47CFR §2.1093 and IEEE Std C95.1, 2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.







1.2. Test Location

Company:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
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Web:	www.LCS-cert.com
E-mail:	webmaster@LCS-cert.com

1.3. Test Facility

The test facility is recognized, certified, or accredited by the following organizations: Site Description SAR Lab. : NVI AP Accredited

FCC Designation Number is CN5024. CAB identifier is CN0071. CNAS Registration Number is L4595. Test Firm Registration Number: 254912.

1.4. Test Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C	THE REAL BURGER
Relative humidity	Min. = 30%, Max. = 70%	LOS LOS TO
Ground system resistance	< 0.5 Ω	Sec. 1
Atmospheric pressure:	950-1050mbar	
Ambient noise is checked and found very low an Reflection of surrounding objects is minimized a		



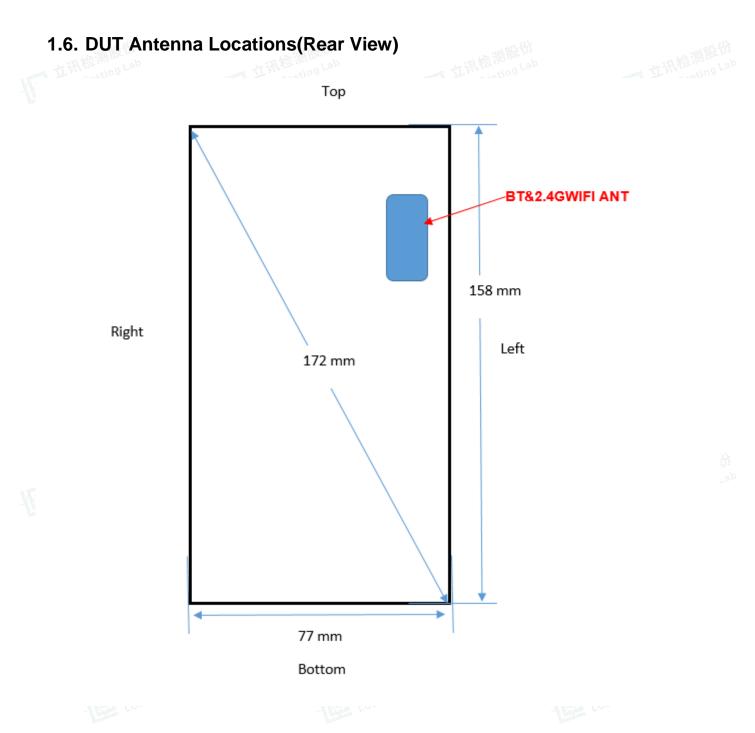


1.5. Product Description

The **Arvicom Sarl** 's Model: 900.1002.01 or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

EUT Test Model	: Pocket Unit : 900.1002.01
Ratings	Input: 5V-2A
Hardware Version	: 1.1.1
Software Version	: 1.1.1
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 2402MHz~2480MHz : 79 channels for Bluetooth V4.0 (DSS) 40 channels for Bluetooth V4.0 (DTS)
Channel Spacing	: 1MHz for Bluetooth V4.0 (DSS) 2MHz for Bluetooth V4.0 (DTS)
Modulation Type	: GFSK, π/4-DQPSK, 8-DPSK for Bluetooth V4.0 (DSS) GFSK for Bluetooth V4.0 (DTS)
Bluetooth Version	: V4.0
Antenna Description	: PIFA Antenna, 1.1dBi(Max.)
WIFI(2.4G Band)	
Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) : PIFA Antenna, 1.1dBi(Max.)
Exposure category	: Uncontrolled Environment General Population





According to the WIFI&BT antennas we can draw the conclusion that:

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom
WIFI 2.4G /BT	Body 1g SAR	Yes	Yes	Yes	No	Yes	Yes

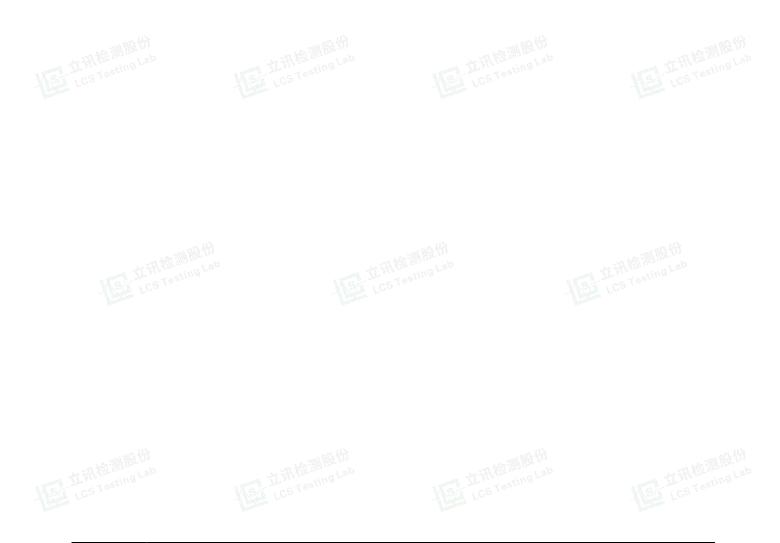
EUT Sides for SAR Testing Note:

When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.



1.7. Test Specification

1.7. Test Specifica	ation		
Identity	Document Title		
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices		
ANSI/IEEE C95.1-2019	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 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02		
KDB 447498 D01	General RF Exposure Guidance v06		
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04		
KDB 865664 D02	RF Exposure Reporting v01r02		
KDB 690783 D01	SAR Listings on Grants v01r03		





1.8. RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g
otes:	+ H 12 1/2 1/20	+ A B Lab

* 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.

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.)





1.9. Equipment list

	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1							
Test Platform SPE		SPEA	G DASY5 Profes	The second second				
	cription		est System (Free		THEY TOP IN			
Soft	ware Reference	DASY	Y52; SEMCAD X					
			Hard	lware Referenc	е			
	Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date o calibration	
\boxtimes	PC		Lenovo	NA	NA	NA	NA	
\boxtimes	Twin Phantom	۱	SPEAG	SAM V5.0	1850	NCR	NCR	
\boxtimes	ELI Phantom		SPEAG	ELI V6.0	2010	NCR	NCR	
\boxtimes	DAE	Ê.	SPEAG	DAE3	373	2024/1/3	2025/1/2	
\boxtimes	E-Field Probe	ab	SPEAG	EX3DV4	3805	2023/11/23	2024/11/22	
\boxtimes	Validation Kits	5	SPEAG	D2450V2	808	2023/10/23	2026/10/22	
\boxtimes	Agilent Network An	Agilent Network Analyzer		8753E	SU38432944	2023/6/9	2024/6/8	
\boxtimes	Dielectric Probe Kit		SPEAG	DAK3.5	1425	NCR	NCR	
\boxtimes	Universal Radio Communication Tester		R&S	CMW500	42115	2023/10/29	2024/10/28	
\boxtimes	Directional Coup	ler	MCLI/USA	4426-20	03746	2023/6/9	2024/6/8	
\boxtimes	Power meter		Agilent	E4419B	MY45104493	2023/10/29	2024/10/28	
\boxtimes	Power meter		Agilent	E4419B	MY45100308	2023/10/29	2024/10/28	
\boxtimes	Power sensor		Agilent	E9301H	MY41495616	2023/10/29	2024/10/28	
\square	Power sensor		Agilent	E9301H	MY41495234	2023/10/29	2024/10/28	
\square	Signal Generat	or 🛒	Agilent	E4438C	MY49072627	2023/6/9	2024/6/8	
\square	Broadband Pream	plifier	1	BP-01M18G	P190501	2023/6/15	2024/6/14	
\boxtimes	DC POWER SUP	PLY	I-SHENG	SP-504	NA	NCR	NCR	
\boxtimes	Speed reading thermometer	9	HTC-1	NA	LCS-E-138	2023/6/13	2024/6/12	

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



SAR MEASUREMENTS SYSTEM CONFIGURATION

2.1. SAR Measurement System

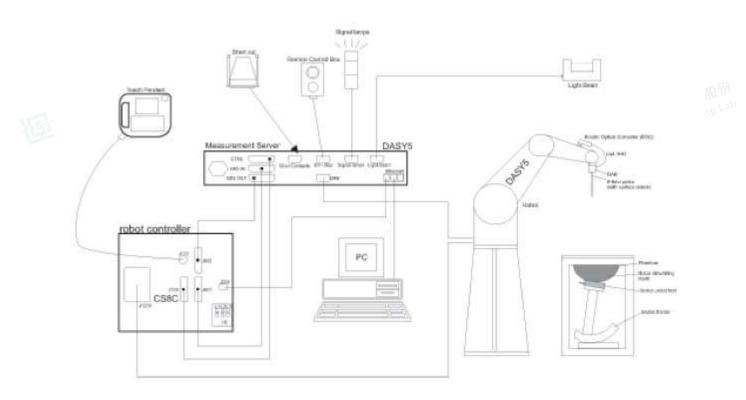
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma$ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

The DASY5 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





• 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 7.

DASY5 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.





2.2. Isotropic E-field Probe EX3DV4

	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 <u>calibration service</u> 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) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) 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., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI





2.3. Data Acquisition Electronics (DAE)

2.3. Data Acquisi	tion Electronics (DAE)	
Model	DAE THING TESTING	
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	here a

2.4. SAM Twin Phantom

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

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. 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.





2.5. ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)		emp.
Liquid	Compatible with all SPEAG tissue		
Compatibility	simulating liquids (incl. DGBE type)		
Shell Thickness	2.0 ± 0.2 mm (bottom plate)		
Dimensions	Major axis: 600 mm	1000	
	Minor axis: 400 mm		
Filling Volume	approx. 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 IEC 62209-2 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.





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.



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 $\leq 2GHz$), $30mm^*30mm^*30mm$ (f for 2-3GHz) and $24mm^*24mm^*22mm$ (f for 5-6GHz) was assessed by measuring 5x5x7 points (f $\leq 2GHz$), 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 straight-forward 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 postprocessing 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.





			\leq 3 GHz	> 3 GHz]						
					imum distance from closest measurement point metric center of probe sensors) to phantom surface				$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$	卡·讯检测服的
	imum probe angle from probe axis to phantom ace normal at the measurement location				30°±1°	20°±1°	LCS Testing Lab				
			\leq 2 GHz: \leq 15 mm 2 - 3 GHz: \leq 12 mm	$\begin{array}{l} 3-4 \text{ GHz:} \leq 12 \text{ mm} \\ 4-6 \text{ GHz:} \leq 10 \text{ mm} \end{array}$							
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			When the x or y dimension o measurement plane orientation the measurement resolution r x or y dimension of the test d measurement point on the test	on, is smaller than the above, nust be ≤ the corresponding levice with at least one							
Maximum zoom scan s	spatial reso	lution: Δx_{Zoom} , Δy_{Zoom}	$\leq 2 \text{ GHz:} \leq 8 \text{ mm}$ $3 - 4 \text{ GHz:} \leq 5 \text{ mm}^*$ $2 - 3 \text{ GHz:} \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz:} \leq 4 \text{ mm}^*$		th th						
	uniform grid: $\Delta z_{Zoom}(n)$		$\leq 5 \text{ mm}$	$\begin{array}{l} 3-4 \ \text{GHz:} \leq 4 \ \text{mm} \\ 4-5 \ \text{GHz:} \leq 3 \ \text{mm} \\ 5-6 \ \text{GHz:} \leq 2 \ \text{mm} \end{array}$	US La.						
Maximum zoom scan spatial resolution, normal to phantom surface	graded	∆z _{Zoom} (1): between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm							
	grid	Δz _{Zoom} (n>1): between subsequent points	<u>≤</u> 1.5·∆z	z _{Zoom} (n-1)	- 44						
Minimum zoom scan volume	x, y, z	•	\geq 30 mm	$3 - 4 \text{ GHz} \ge 28 \text{ mm}$ $4 - 5 \text{ GHz} \ge 25 \text{ mm}$ $5 - 6 \text{ GHz} \ge 22 \text{ mm}$	L 立册检测版的 LCS Testing Lab						

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 %

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 ".DAE4". 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 compressior	n point Dcpi	
Device parameters:	- Frequency	f
 Crest factor 	cf	
Media parameters:	 Conductivity 	3
- Density	ρ	

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the 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.

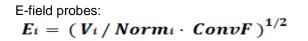
The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

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:

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

With 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:







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 (i = x, y, z) Normi = sensor sensitivity of channel I (i = x, y, z) [mV/(V/m)2] for E-field Probes ConvF = sensitivity enhancement in solution aij = 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):

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

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

$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$

with SAR = local specific absorption rate in mW/g 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.

 $P_{pwe} = E_{tot}^2 / 3770_{or} P_{pwe} = H_{tot}^2 \cdot 37.7$

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







3. SAR measurement variability and uncertainty

3.1. SAR measurement variability

Per KDB865664 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 \ge 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 \ge 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 \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

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.





4. Description of Test Position

4.1. Test Positions Configuration

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

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

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

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chestworn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

F-1. Test positions for body-worn devices



5. SAR System Verification Procedure

5.1. Tissue Simulate Liquid

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	700-900	1750-2000	2300-2500	2500-2700				
Water	38.56	40.30	55.24	55.00	54.92				
Salt (NaCI)	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				
	odium Chloride d, 16 MΩ+ resistivi thylene (20) sorbit		Sucrose: 98*% Pure Sucrose HEC: Hydroxyethyl Cellulose						
124	posed of the follow	A	55 ° .	Par 1	102				
Mineral oil: 10-30%									
Emulsifiers: 8-25%									
Sodium salt: 0-1	.5%								

Table 1: Recipe of Tissue Simulate Liquid







5.1.2. Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the DAKS. The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue	Measured	Target Tissue (±5%)		Measured Tissue		Liquid	Measured
Туре	Frequency (MHz)	٤r	σ(S/m)	٤r	σ(S/m)	Temp. (℃)	Date
2450 Head	2450	39.2 (37.24~41.16)	1.8 (1.71~1.89)	39.665	1.798	22.2	May 15, 2024

Table 2: Measurement result of Tissue electric parameters

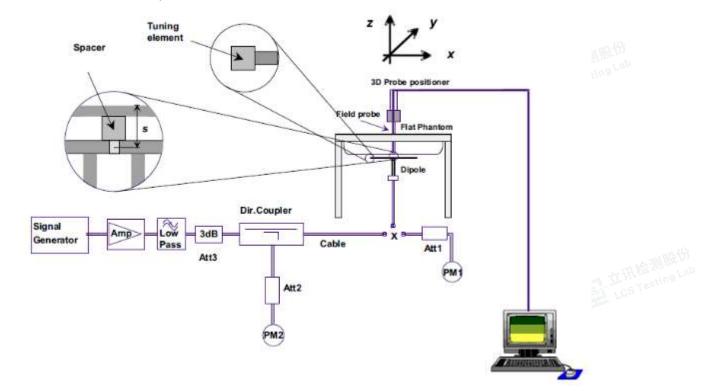






5.2. SAR System Check

The microwave circuit arrangement for system Check is sketched in F-1. 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-1. the microwave circuit arrangement used for SAR system check

5.2.1. Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, 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.





5.2.2. Summary System Check Result(s)

	- 1991 Mar -	13		- A John Inter-			van kiez. V		Service States and Service Services
V		Measured SAR	Measured SAR	Measured SAR	Measured SAR	Target SAR (normalized	Target SAR (normalized	Liquid	
Validation Kit		250mW	250mW	(normalized to 1W)	nanzeu (normanzeu (.400/		to 1W) to 1W (±10%) (±10%)		Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D2450V2	Head	12.96	5.98	51.84	23.92	53.5 (48.15~58.85)	24.8 (22.32~27.28)	22.2	May 15, 2024

Table 3: Please see the Appendx A





6. SAR measurement procedure

The measurement procedures are as follows:

6.1. Conducted power measurement

a. For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously Transmission, at maximum RF power in each supported wireless interface and frequency band.
b. Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power.

6.2. WIFI Test Configuration

For WiFi SAR testing, a communication link is set up with the testing software for WiFi mode test. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. Per KDB 248227D01, a minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The repotted SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

6.2.1. Initial Test Position Procedure

For exposure condition with multiple test position, such as handsets operating next to the ear, devices with hotspot mode or IJMPC mini-tablet , procedures for <u>initial test position</u> can be applied. Using the transmission mode determined by the DSSS procedure or <u>initial test configuration</u>, area scans are measured for all position in an exposure condition. The test position with the highest extrapolated(peak) SAR is used as the initial test position. When reported SAR for the <u>initial test position</u> is ≤ 0.4 W/kg, no additional testing for the remaining test position is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR position until the reported SAR result is ≤ 0.8 W/kg or all test position are measured. For all positions/configurations tested using the <u>initial test position</u> and subsequent test positions, when the repotted SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

6.2.2. Initial Test Configuration Procedure

An <u>initial test configuration</u> is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required (see section 5.3.2 of KDB 248227D01). SAR test reduction of subsequent highest output test channels is based on the reported SAR of the initial test configuration. For next to the ear, hotspot mode and CIMC mini-tablet exposure configurations where multiple test positions are required, the <u>initial test position</u> procedure is applied to minimize the number of test positions required for SAR measurement using the <u>initial test configuration</u> transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the <u>initial test configuration</u>. When the reported SAR of the <u>initial test configuration</u> is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the <u>initial test configuration</u> until the repotted SAR is ≤ 1.2 W/kg or all required channels are tested.

6.2.3. Sub Test Configuration Procedure

SAR measurement requirements for the remaining 802 11 transmission mode configurations that have not been tested in the <u>initial test configuration</u> are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units.

When the highest reported SAR for the <u>initial test configuration</u>, according to the <u>initial test position</u> or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to <u>initial test</u> <u>configuration</u> specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.





6.2.4. WiFi 2.4G SAR Test Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements. DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions.

a) 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

1) When the reported SAR of the highest measured maximum output power channel (section 3.1 of of KD8 248227D01) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.

2) When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

b) 2.4GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3 of of KD8 248227D01 SAR is not required for the following 2.4 GHz OFDM conditions.

1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.

2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

c) SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/g/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-I and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.





6.2.5. U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFOM SAR requirements. If the highest repotted SAR for a test configuration is \leq 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.

2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.

3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power cetified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

6.2.6. U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47-5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TOWR) restriction applies, the channels at 5.60-5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification to avoid SAR requirements. 10 TOWR restriction does not apply under the new rules; all channels that operate at 5.60-5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the bower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47-5.85 GHz), which requires a mihimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to support and gap channels. 11 When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.





6.2.7. OFDM Transmission Mode SAR Test Channel Selection Requirements

For 2.4 GHz and 5 GHz bands, When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations (for example 802.11a, 802.11n and 802.11ac, or 802.11g and 802.11n, with the same channel bandwidth, modulation, and data rate, etc), the lower order 802.11 mode (i.e., 802.11a is chosen over 802.11n then 802.11ac, or 802.11g is chosen over 802.11n) is used for SAR measurement.

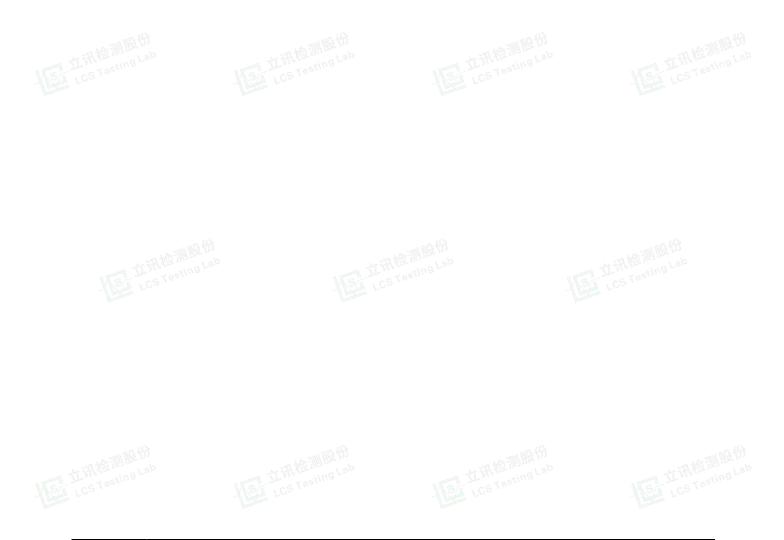
When the maximum output power are the same for multiple test channel, either according to the default or additional power measurement requirement, SAR is measured using the channel closest to the middle of the frequency band or aggregted band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

6.3. Power Reduction

The product without any power reduction.

6.4. Power Drift

To control the output power stability during the SAR test, SAR system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. This ensures that the power drift during one measurement is within \pm 0.2dB.







7. TEST CONDITIONS AND RESULTS

7.1. Conducted Power Results

According KDB 447498 D01 General RF Exposure Guidance v06 Section 4.1 2) states that "Unless it is specified differently in the published RF exposure KDB procedures, these requirements also apply to test reduction and test exclusion considerations. Time-averaged maximum conducted output power applies to SAR and, as required by § 2.1091(c), time-averaged ERP applies to MPE. When an antenna port is not available on the device to support conducted power measurement, such as FRS and certain Part 15 transmitters with built-in integral antennas, the maximum output power allowed for production units should be used to determine RF exposure test exclusion and compliance."

7.1.1. Conducted Power Measurement Results(WIFI 2.4G)

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Tune Up (dBm)
NVNT	b	2412	Ant1	ab 15.71	16.00
NVNT	cs 1b ^{strin}	2437	Ant1	15.29	16.00
NVNT	b	2462	Ant1	15.09	16.00
NVNT	g	2412	Ant1	14.18	15.00
NVNT	g	2437	Ant1	14.78	15.00
NVNT	g	2462	Ant1	14.5	15.00
NVNT	n20	2412	Ant1	13.07	14.00
NVNT	n20	2437	Ant1	13.27	14.00
NVNT	n20	2462	Ant1	13.66	14.00
NVNT	n40	2422	Ant1	12.66	13.00
NVNT	n40	2437	Ant1	12.81	13.00
NVNT	n40	2452	Ant1	12.53	13.00
	-10		3	AL THE REPORT OF	

Note:

a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.

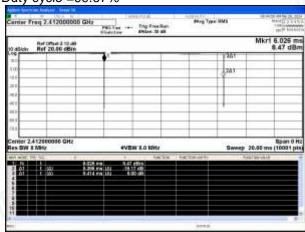
b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

WIFI 2.4G (802.11b): Duty cycle =99.67%





7.1.2. Conducted Power Measurement Results(Bluetooth)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Tune Up (dBm)
NVNT	1-DH5	2402	Ant1	0.66	0	0.66	1.00
NVNT	1-DH5	2441	Ant1	0.84	0	0.84	1.00
NVNT	1-DH5	2480	Ant1	-0.47	0	-0.47	0.00
NVNT	2-DH5	2402	Ant1	0.59	0	0.59	1.00
NVNT	2-DH5	2441	Ant1	0.81	0	0.81	1.00
NVNT	2-DH5	2480	Ant1	0.35	0	0.35	1.00
NVNT	3-DH5	2402	Ant1	0.54	0	0.54	1.00
NVNT	3-DH5	2441	Ant1	0.69	0	0.69	1.00 de
NVNT	3-DH5	2480	Ant1	0.13	0	0.13	1.00

В	L	E

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Tune Up (dBm)
NVNT	BLE 1M	2402	Ant1	0.78	1.00
NVNT	BLE 1M	2440	Ant1	-0.78	0.00
NVNT	BLE 1M	2480	Ant1	-0.64	0.00





















7.2. Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Freq. Band	Frequency	Position	Average Power		Test Separation	Calculate	Exclusion	Exclusion
	(GHz)		dBm	mW	(mm)	Value	Threshold	(Y/N)
Bluetooth	2.48	Body	1.0	1.26	5	0.397	3	Y
					W SH ton		1859	ET 23

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- · Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.







7.3. SAR Measurement Results

The calculated SAR is obtained by the following formula:

Reported SAR=Measured SAR*10^{(Ptarget-Pmeasured))/10}

Scaling factor=10^{(Ptarget-Pmeasured))/10} Reported SAR= Measured SAR* Scaling factor

Where

Ptarget is the power of manufacturing upper limit;

P_{measured} is the measured power;

Measured SAR is measured SAR at measured power which including power drift) Reported SAR which including Power Drift and Scaling factor

7.3.1. SAR Results [WIFI 2.4G]

	- 45750 Y	20. 17			. atill Well, V			AND DR.	194	
SAR Values [WIFI 2.4G]										
Ch/ Freq. (MHz) Type	Channel	Test Position	Duty Cycle Factor	Conducted Power (dBm)	Maximum Allowed Power (dBm)	PowerDrift (dB)	Scaling Factor	SAR _{1-g} results(W/kg)		
								Measured	Reported	
measured / reported SAR numbers - Body (distance 0mm)										
1/2412	802.11b	Front side	1.003	15.71	16.00	-0.13	1.069	0.402	0.431	
1/2412	802.11b	Rear side	1.003	15.71	16.00	0.02	1.069	0.354	0.380	
1/2412	802.11b	Left side	1.003	15.71	16.00	-0.08	1.069	0.120	0.129	
1/2412	802.11b	Top side	1.003	15.71	16.00	0.13	1.069	0.054	0.058	

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR test for the other 802.11 modes are not required.







Appendix A: Detailed System Check Results

1. System Performance Check System Performance Check 2450 MHz Head





Report No.: LCSA03224197E

Date: 2024/5/15

Test Laboratory: LCS-SAR Lab

System Check_2450Mhz

DUT: D2450V2; Type: D2450V2; Serial: 808

Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; σ = 1.798 S/m; ϵ_r = 39.665; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 SN3805; ConvF(7.42, 7.42, 7.42); Calibrated: 2023/11/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn373; Calibrated: 2024/1/3
- Phantom: SAM v5.0; Type: SAM; Serial: 1850
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Unnamed procedure/Area Scan (4x8x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 16.2 W/kg

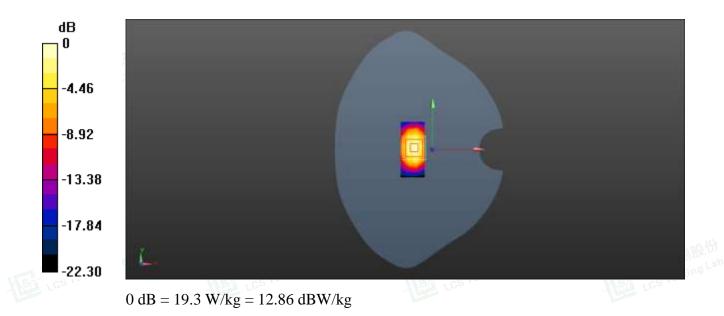
Configuration/Unnamed procedure/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.41 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 26.1 W/kg SAR(1 g) = 12.96 W/kg; SAR(10 g) = 5.98 W/kg Maximum value of SAR (measured) = 19.3 W/kg

Shenzhen LCS Compliance Testing Laboratory Ltd.

518000, China

Scan code to check authenticity



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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com











Report No.: LCSA03224197E

Date: 2024/5/15

Test Laboratory: LCS-SAR Lab

WIFI 2.4G 802.11b 1CH Front side 0mm

DUT: Pocket Unit; Type: 900.1002.01; Serial: A240318096-1

Communication System: UID 0, WIFI 2.4GHz (0); Frequency: 2412 MHz;Duty Cycle: 1:1.003 Medium parameters used: f = 2412 MHz; σ = 1.744 S/m; ϵ_r = 39.211; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY Configuration:

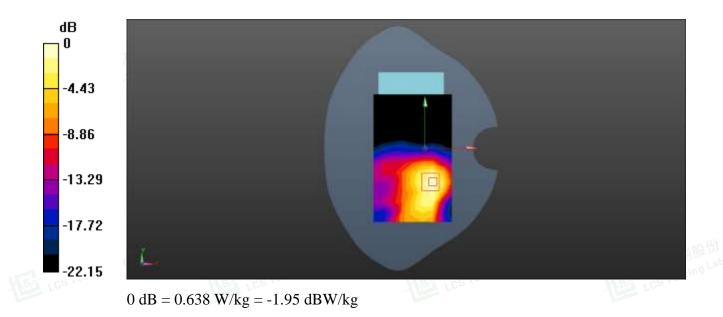
- Probe: EX3DV4 SN3805; ConvF(7.42, 7.42, 7.42); Calibrated: 2023/11/23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn373; Calibrated: 2024/1/3
- Phantom: SAM v5.0; Type: SAM; Serial: 1850
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Unnamed procedure/Area Scan (9x14x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.641 W/kg

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

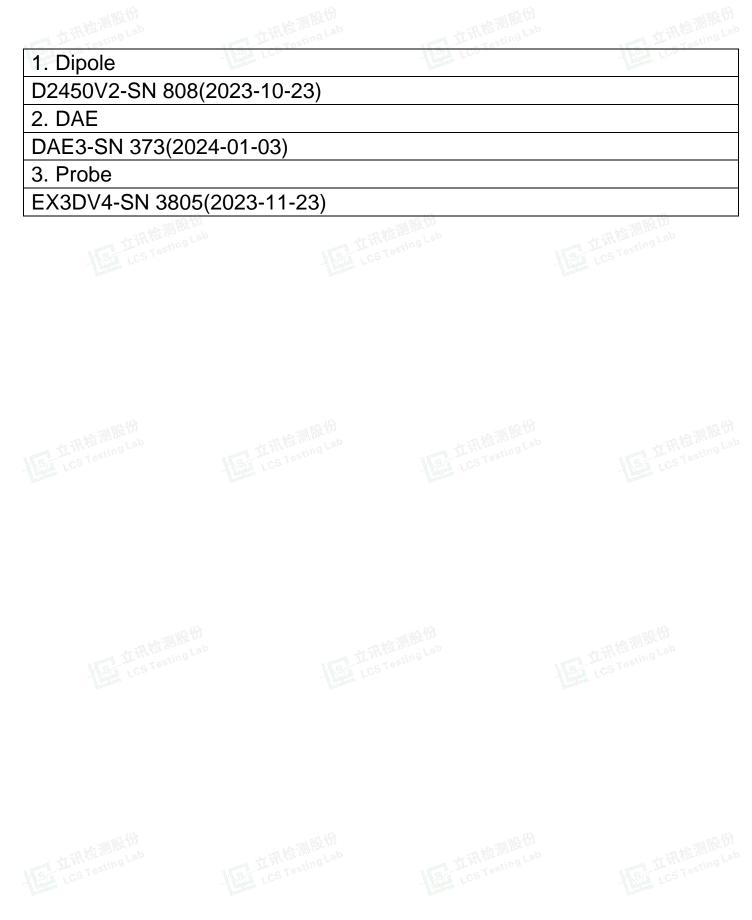
Reference Value = 2.154 V/m; Power Drift = -0.13 dB Peak SAR (extrapolated) = 0.854 W/kg **SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.241 W/kg Maximum value of SAR (measured) = 0.638 W/kg**













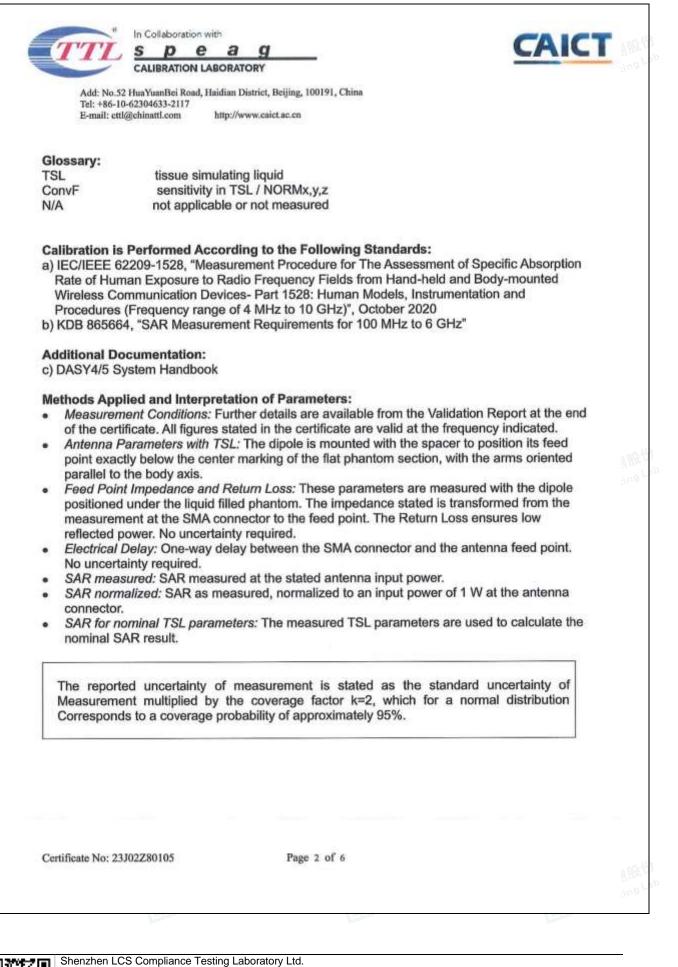


Report No.: LCSA03224197E

Tel: +86-10-62304633-2117 E-mail: cttl@chinattl.com Client SHEN	ad, Haidian District, 1 http://www.caid	stat.en	AS L0570 J02Z80105
CALIBRATION CI	ERTIFICAT	E	
Object	D2450\	/2 - SN: 808	
Calibration Procedure(s)	FF-Z11-	002.01	
		ion Procedures for dipole validation kits	
Calibration date:		23, 2023	
bages and are part of the ce All calibrations have been numidity<70%. Calibration Equipment used	conducted in th	ne closed laboratory facility: environment t or calibration)	emperature (22±3)°C and
Primary Standards	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106276	15-May-23 (CTTL, No.J23X04183)	May-24
Power sensor NRP6A	101369	15-May-23 (CTTL, No.J23X04183)	May-24
Reference Probe EX3DV4		31-Mar-23(CTTL-SPEAG,No.Z23-60161)	Mar-24
DAE4	SN 1556	11-Jan-23(CTTL-SPEAG,No.Z23-60034)	Jan-24
Secondary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	05-Jan-23 (CTTL, No. J23X00107)	Jan-24
NetworkAnalyzer E5071C	MY46110673	10-Jan-23 (CTTL, No. J23X00104)	Jan-24
	Name	Function	Signature
		SAD Test Fasters	是气
Calibrated by:	Zhao Jing	SAR Test Engineer	
Calibrated by: Reviewed by:	Zhao Jing Lin Hao	SAR Test Engineer	林治
Reviewed by:			the the
Reviewed by: Approved by:	Lin Hao Qi Dianyuan	SAR Test Engineer SAR Project Leader Issued: Octol	
Reviewed by: Approved by:	Lin Hao Qi Dianyuan	SAR Test Engineer SAR Project Leader	
Reviewed by: Approved by:	Lin Hao Qi Dianyuan hall not be reproc	SAR Test Engineer SAR Project Leader Issued: Octol	









Add: 101, 201 Bldg Å & 301 Bldg Č, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China



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Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117 E-mail: cttl@chinattl.com http://www.caict.ac.cn

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	39.6±6%	1.81 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.4 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	53.5 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm^3 (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.21 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.8 W/kg ± 18.7 % (k=2)

Certificate No: 23J02Z80105

Page 3 of 6

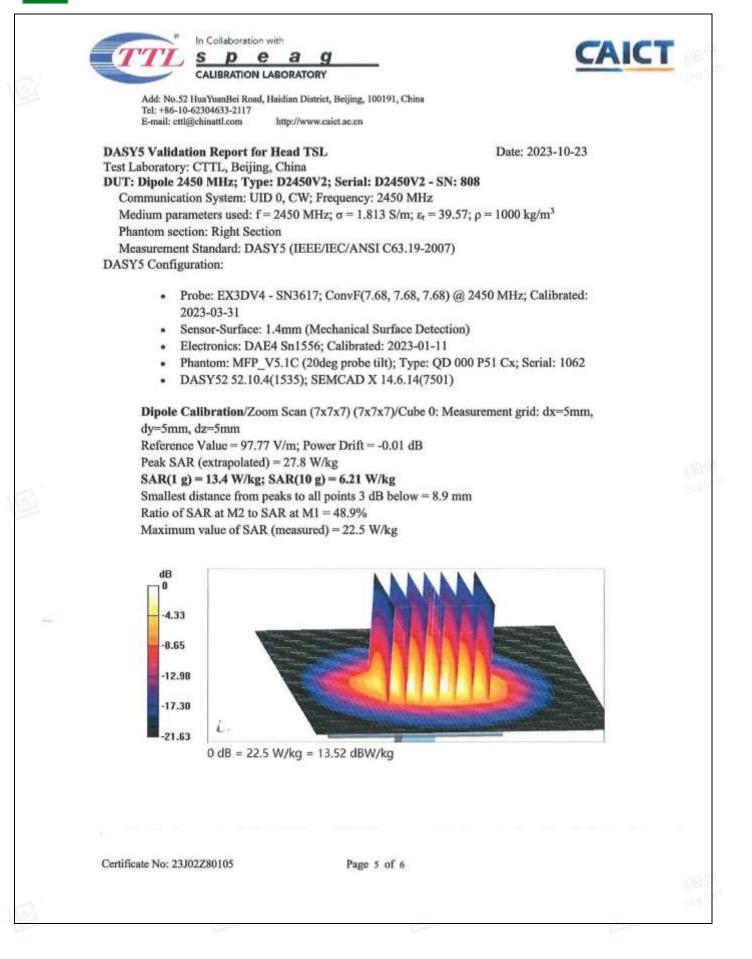




In Collaboration with S P E A CALIBRATION LABORAT	
Add: No.52 HuaYuanBei Road, Haidian D Tel: +86-10-62304633-2117 E-mail: ettl@chinattl.com http://w	District, Beijing, 100191, China
Appendix (Additional assessme Antenna Parameters with Head	nts outside the scope of CNAS L0570) TSL
Impedance, transformed to feed point	51.4Ω+ 4.73jΩ
Return Loss	- 26.3dB
General Antenna Parameters an	d Design
Electrical Delay (one direction)	1.061 ns
of the dipoles, small end caps are adde according to the position as explained in affected by this change. The overall dip No excessive force must be applied to t	id coaxial cable. The center conductor of the feeding line is directly ole. The antenna is therefore short-circuited for DC-signals. On some id to the dipole arms in order to improve matching when loaded in the "Measurement Conditions" paragraph. The SAR data are not ole length is still according to the Standard. the dipole arms, because they might bend or the soldered
of the dipoles, small end caps are adde according to the position as explained in affected by this change. The overall dip	ole. The antenna is therefore short-circuited for DC-signals. On some d to the dipole arms in order to improve matching when loaded n the "Measurement Conditions" paragraph. The SAR data are not ole length is still according to the Standard. the dipole arms, because they might bend or the soldered
of the dipoles, small end caps are adde according to the position as explained in affected by this change. The overall dip No excessive force must be applied to t connections near the feed-point may be	ole. The antenna is therefore short-circuited for DC-signals. On some d to the dipole arms in order to improve matching when loaded n the "Measurement Conditions" paragraph. The SAR data are not ole length is still according to the Standard. the dipole arms, because they might bend or the soldered
of the dipoles, small end caps are adde according to the position as explained in affected by this change. The overall dip No excessive force must be applied to t connections near the feed-point may be Additional EUT Data	ole. The antenna is therefore short-circuited for DC-signals. On some d to the dipole arms in order to improve matching when loaded n the "Measurement Conditions" paragraph. The SAR data are not ole length is still according to the Standard. the dipole arms, because they might bend or the soldered a damaged.
of the dipoles, small end caps are adde according to the position as explained in affected by this change. The overall dip No excessive force must be applied to t connections near the feed-point may be Additional EUT Data	ole. The antenna is therefore short-circuited for DC-signals. On some d to the dipole arms in order to improve matching when loaded n the "Measurement Conditions" paragraph. The SAR data are not ole length is still according to the Standard. the dipole arms, because they might bend or the soldered a damaged.



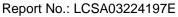


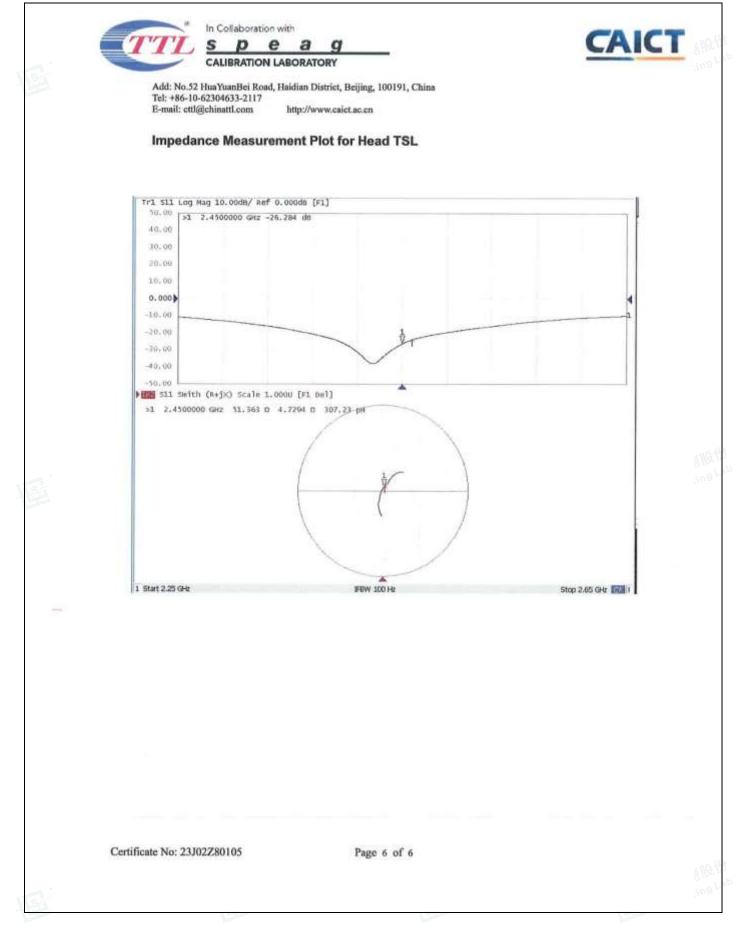




Scan code to check authenticity







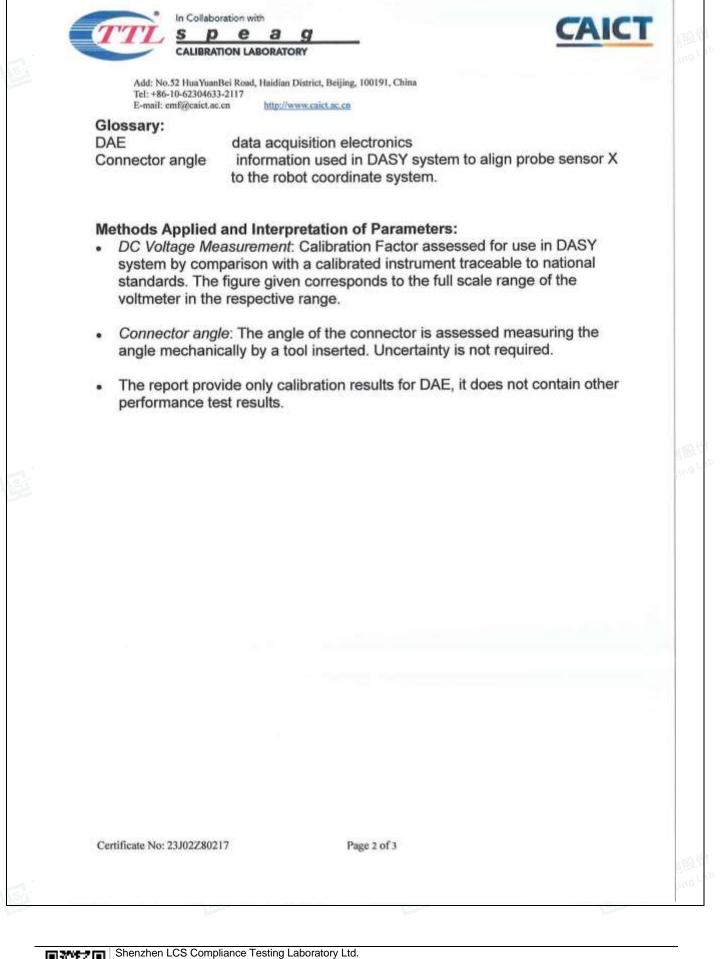




Tel: +86-10-62304633-2117 E-mail: emf@caict.ac.cn	I, Haidian District, Beiji http://www.eaict.ac.o ENZHEN LCS	21 California	cNAS L0570 ate No: 23J02Z80217
CALIBRATION	CERTIFICA	TE	
Object	DAE3	- SN: 373	
Calibration Procedure(s)	FF-Z1	1-002-01 ation Procedure for the Data Acc ()	quisition Electronics
Calibration date:	Janua	ry 03, 2024	
measurements(SI). The pages and are part of the	measurements and e certificate.	d the uncertainties with confidence p	which realize the physical units of probability are given on the following vironment temperature(22±3)°c and
humidity<70%.	sen conducted in	the closed laboratory lacinty. em	Vironment temperature(2213) C and
Calibration Equipment u	sed (M&TE critical	for calibration)	
Primary Standards	ID# Ca	al Date(Calibrated by, Certificate No	.) Scheduled Calibration
Process Calibrator 753	1971018	12-Jun-23 (CTTL, No.J23X05436)	Jun-24
	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	2-to
Reviewed by:	Lin Jun	SAR Test Engineer	mg
Approved by:	Qi Dianyuan	SAR Project Leader	à
This calibration certificat	e shall not be repr	oduced except in full without written	Issued: January 04, 2024
The contraction continuer			









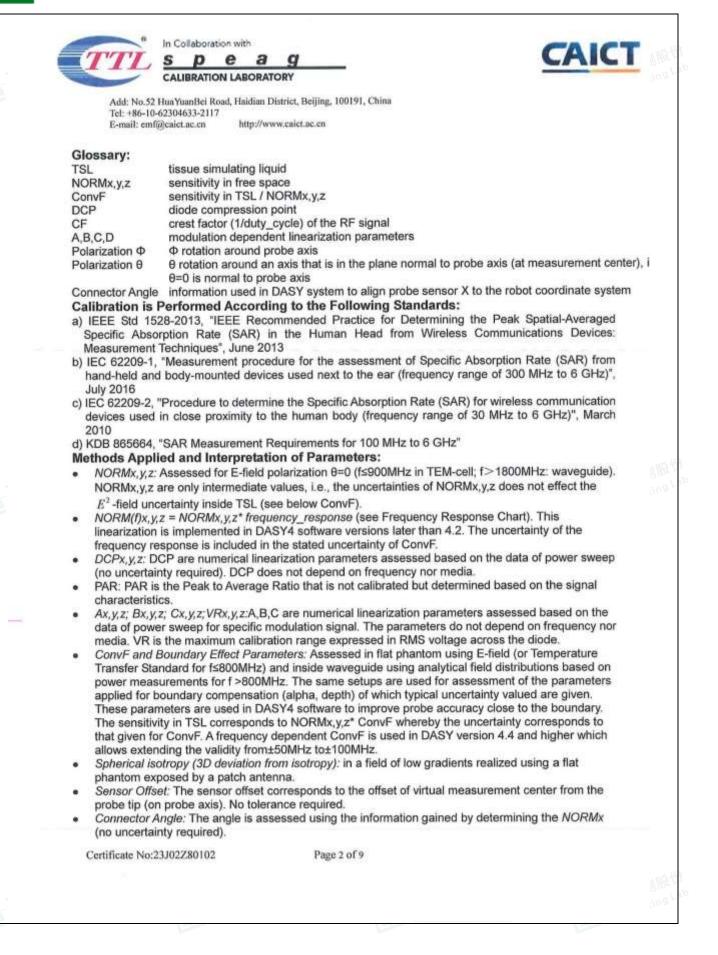
Report No.: LCSA03224197E

E-mail: emf@ea	surement			
A/D - Converter R High Range: Low Range: DASY measureme	1LSB = 6.1µV,	full range = -100+300 r full range = -1+3mV :: 3 sec; Measuring time: 3 sec		
Calibration Fac	tors X	Y	Z	1
High Range	402.650 ± 0.15% (k	=2) 403.231 ± 0.15% (k=2)	402.697 ± 0.15% (k=2)	1
Low Range	3.92127 ± 0.7% (k=	2) 3.97784 ± 0.7% (k=2)	3.93537 ± 0.7% (k=2)	
Connector Angle	•			-
Connector Angl	le to be used in DASY system		293°±1°	
				-





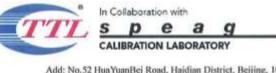
E-mail: emf@caict.ac.cn	http://www.caict.ac.c		22 102780402
CALIBRATION CE		Certificate No:	23J02Z80102
on Elbronnion of			
Object	EX3DV4 -	SN: 3805	
Calibration Procedure(s)	FF-Z11-00	4-02	
		Procedures for Dosimetric E-field Probes	
Calibration date:	November	23, 2023	
		o national standards, which realize the physical un	
measurements and the uncertain	ities with confidence pr	robability are given on the following pages and an	e part of the certificate.
All calibrations have been condu	cted in the closed labo	ratory facility: environment lemperature(22±3)°C a	nd humidity<70%.
Calibration Equipment used (M&	N. 1. 181 (1911) (1910) (1910) (1910) (1910)		d Collection
Primary Standards	1		Jun-24
Power Meter NRP2	101919	12-Jun-23(CTTL, No.J23X05435)	Jun-24
Power sensor NRP-Z91		12-Jun-23(CTTL, No.J23X05435)	Jun-24
Power sensor NRP-291	101548	12-Jun-23(CTTL, No.J23X05435)	Jan-25
Reference 10dBAttenuator	18N50W-10dB 18N50W-20dB	19-Jan-23(CTTL, No.J23X00212)	Jan-25
Reference 20dBAttenuator		19-Jan-23(CTTL, No.J23X00211) 31-May-23(SPEAG, No.EX-3846_May23)	May-24
Reference Probe EX3DV4 DAE4	SN 3846	24-Aug-23(SPEAG, No.DAE4-1555_Aug23)	Aug-24
and the r	SN 1555		Scheduled Calibration
Secondary Standards		Cal Date(Calibrated by, Certificate No.)	
SignalGenerator MG3700A Network Analyzer E5071C	6201052605 MY46110673	12-Jun-23(CTTL, No.J23X05434) 10-Jan-23(CTTL, No.J23X00104)	Jun-24 Jan-24
Reference 10dBAttenuator	BT0520	11-May-23(CTTL, No.J23X04061)	May-25
Reference 20dBAttenuator	BT0267	11-May-23(CTTL, No.J23X04067)	May-25
OCP DAK-3.5	SN 1040	18-Jan-23(SPEAG, No.OCP-DAK3.5-1040_J	A CARDON AND A CARD AND AND A CARD AND AND AND AND AND AND AND AND AND AN
<u></u>		Function Signatu	annagh na annan
Calibrated by:	Yu Zongying	SAR Test Engineer	
Reviewed by:	Lin Hao	SAR Test Engineer	t#B
Approved by:	Qi Dianyuan	SAR Project Leader	202
		Issued: No	ovember 28, 2023
This calibration certificate shall n	ot be reproduced exce	pt in full without written approval of the laboratory	Secondary supervision





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DASY/EASY – Parameters of Probe: EX3DV4 – SN:3805

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm(µV/(V/m) ²) ^A	0.49	0.63	0.45	±10.0%
DCP(mV) ^B	101.4	97.7	101.4	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	C	D dB	VR mV	Unc ^E (k=2)
0	CW	x	0.0	0.0	1.0	0.00	169.0	±2.5%
		Y	0.0	0.0	1.0		189.9	
		Z	0.0	0.0	1.0		155.5	

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X, Y, Z do not affect the E²-field uncertainty inside TSL (see Page 4).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainly is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Certificate No:23J02Z80102

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CALIBRATION LABORATORY

DASY/EASY – Parameters of Probe: EX3DV4 – SN:3805

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	41.9	0.89	9.66	9.66	9.66	0.14	1.30	±12.7%
835	41.5	0.90	9.26	9.26	9.26	0.13	1.43	±12.7%
1750	40.1	1.37	8.16	8.16	8.16	0.23	1.09	±12.7%
1900	40.0	1.40	7.85	7.85	7.85	0.24	1.04	±12.7%
2000	40.0	1.40	7.83	7.83	7.83	0.22	1.13	±12.7%
2300	39.5	1.67	7.66	7.66	7.66	0.40	0.87	±12.7%
2450	39.2	1.80	7.42	7.42	7.42	0.36	0.94	±12.7%
2600	39.0	1.96	7.17	7.17	7.17	0.39	0.97	±12.7%
3300	38.2	2.71	7.01	7.01	7.01	0.47	0.90	±13.9%
3500	37.9	2.91	6.87	6.87	6.87	0.45	1.02	±13.9%
3700	37.7	3.12	6.65	6.65	6.65	0.35	1.25	±13.9%
3900	37.5	3.32	6.60	6.60	6.60	0.40	1.25	±13.9%
4100	37.2	3.53	6.54	6.54	6.54	0.40	1.15	±13.9%
4200	37.1	3.63	6.45	6.45	6.45	0.35	1.35	±13.9%
4400	36.9	3.84	6.36	6.36	6.36	0.40	1.25	±13.9%
4600	36.7	4.04	6.26	6.26	6.26	0.40	1.30	±13.9%
4800	36.4	4.25	6.20	6.20	6.20	0.40	1.38	±13.9%
4950	36.3	4.40	5.95	5.95	5.95	0.40	1.40	±13.9%
5250	35.9	4.71	5.38	5.38	5.38	0.40	1.50	±13.9%
5600	35.5	5.07	4.75	4.75	4.75	0.50	1.30	±13.9%
5750	35.4	5.22	4.88	4.88	4.88	0.45	1.40	±13.9%

^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

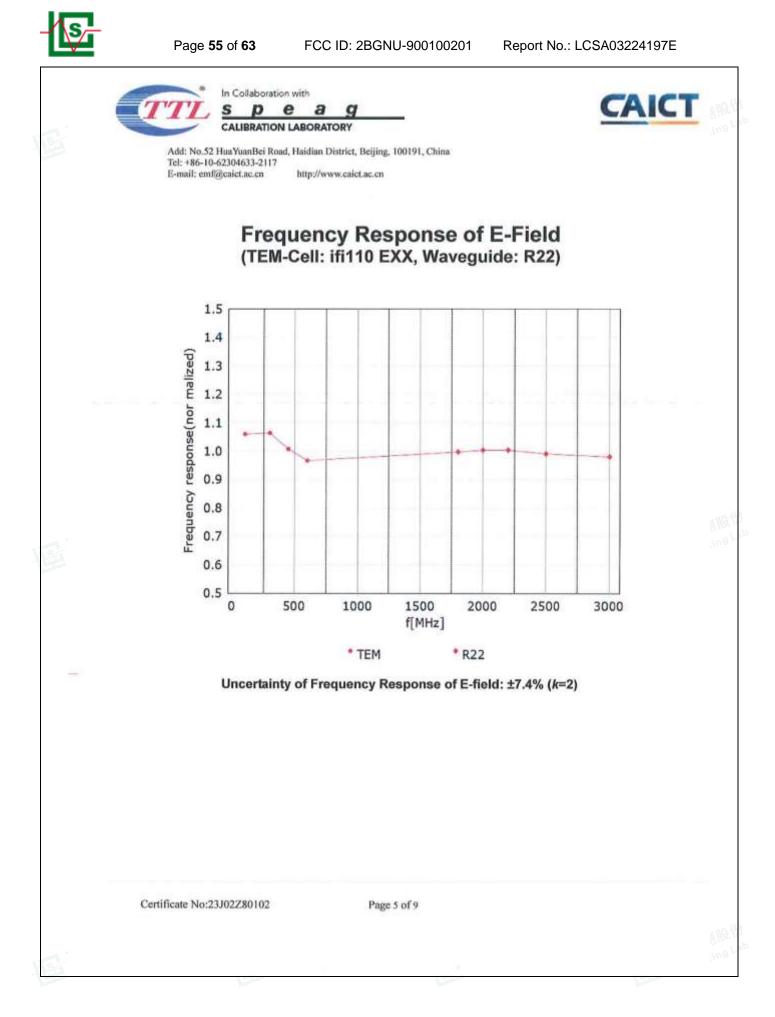
^F At frequency up to 6 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Certificate No:23J02Z80102

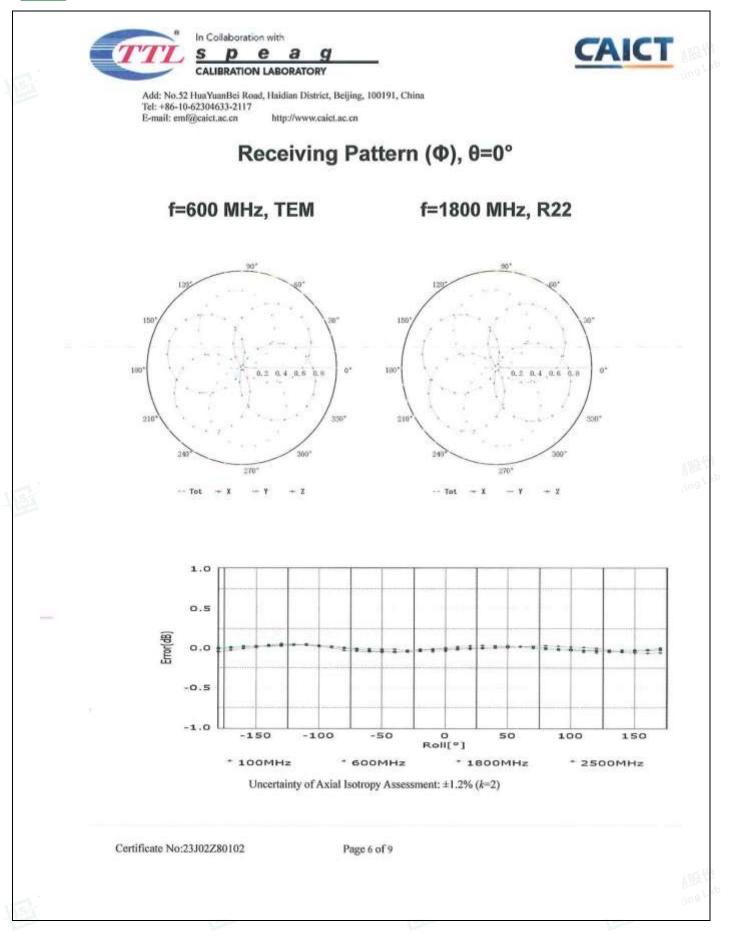
Page 4 of 9











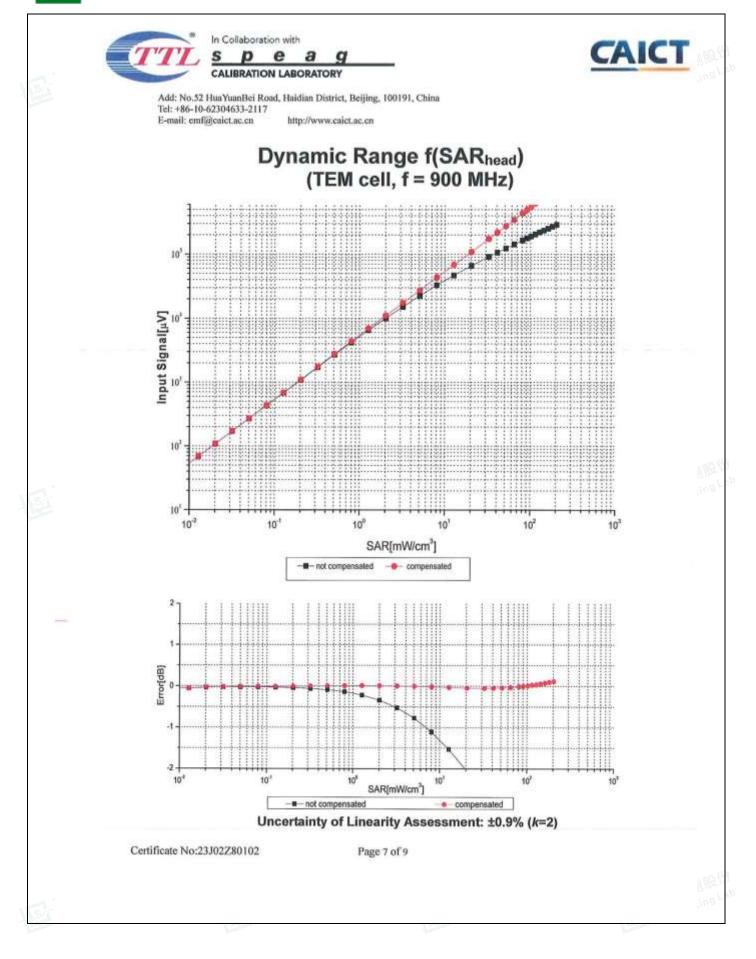


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3 FCC ID: 2BGNU-900100201

Report No.: LCSA03224197E



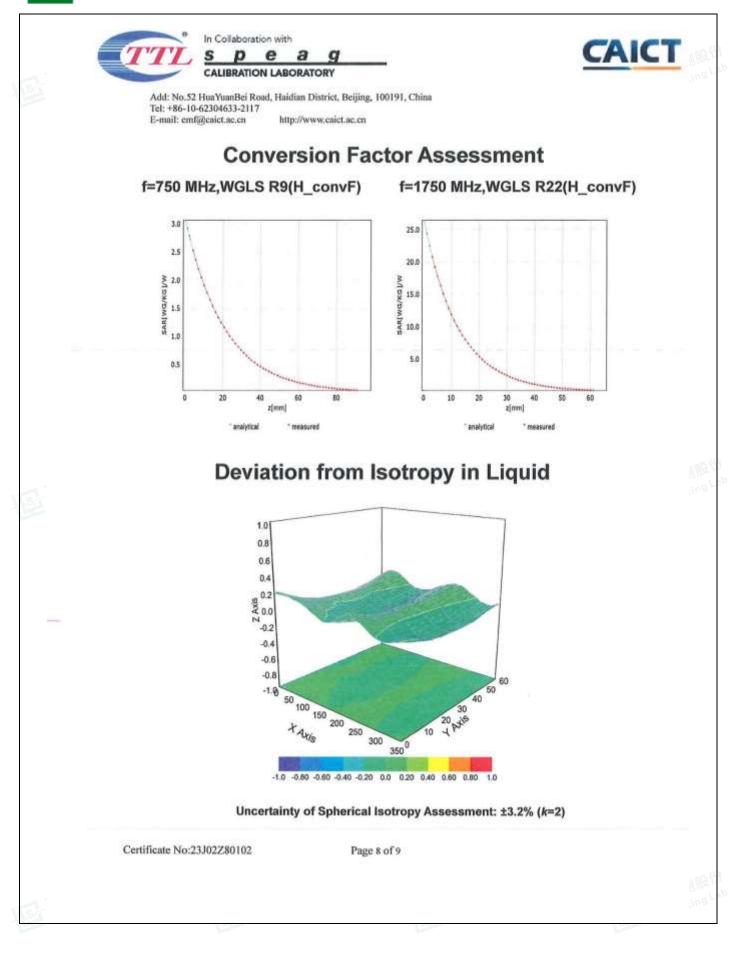


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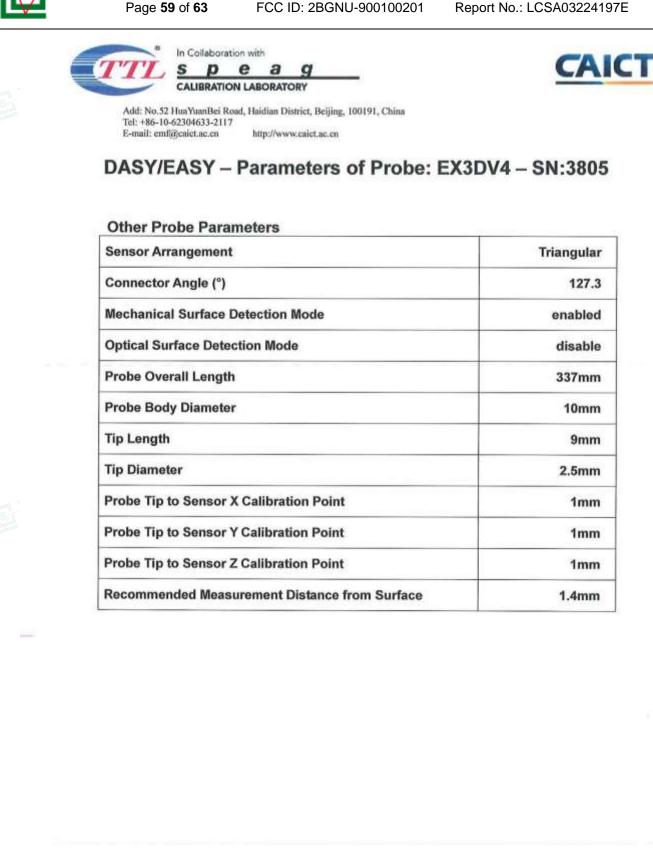


Report No.: LCSA03224197E









Certificate No:23J02Z80102

Page 9 of 9





Appendix D: Photographs

- 1. SAR measurement System
- 2. Photographs of Tissue Simulate Liquid
- 3. Photographs of EUT test position
- 4. EUT Constructional Details





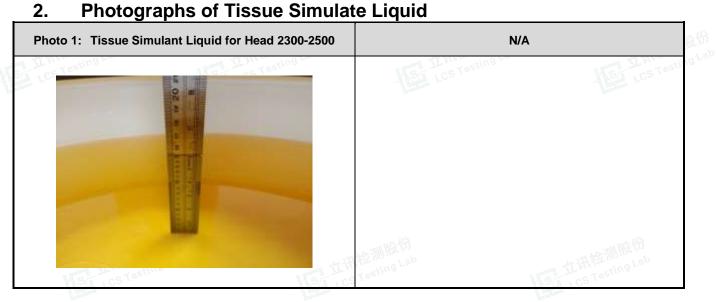


1. SAR measurement System

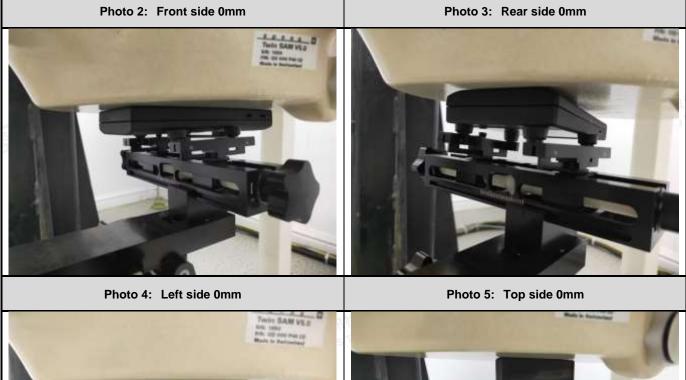




2.



3. Photographs of EUT test position









4. EUT Constructional Details

