

SAR Test Report

Report No.: AGC05764210503FH01

FCC ID : 2ADRG-BRY603

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Brydge 12.9 MAX+

BRAND NAME : BRYDGE

MODEL NAME : BRY603

APPLICANT: BRYDGE GLOBAL

DATE OF ISSUE : May 26, 2021

IEEE Std. 1528:2013

STANDARD(S)FCC 47 CFR Part 2§2.1093:2013

: IFFE 5td C05 1 ™ 2005

IEEE Std C95.1 ™-2005 IEC 62209-1: 2016

REPORT VERSION : V1.0

Attestation of Global & Go., Ltd.



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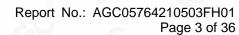


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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	9 160	May 26, 2021	Valid	Initial Release

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Test Report Certification				
Applicant Name	BRYDGE GLOBAL			
Applicant Address	1912 Sidewinder Dr#104, Park City, Utah 84060, United States			
Manufacturer Name	BRYDGE GLOBAL			
Manufacturer Address	1912 Sidewinder Dr#104, Park City, Utah 84060, United States			
Factory Name	Shenzhen Doking Technology Co., Ltd			
Factory Address	Tower A, Building 16, Shapuwei Venture Industrial Zone, Songgang Street, Baoan District, Shenzhen, Guangdong Province, China			
Product Designation	Brydge 12.9 MAX+			
Brand Name	BRYDGE			
Model Name	BRY603			
EUT Voltage	DC3.7V by battery			
Applicable Standard	IEEE Std. 1528:2013; FCC 47 CFR Part 2§2.1093:2013; IEEE Std C95.1 ™-2005; IEC 62209-1: 2016;			
Test Date	May 19, 2021			
Report Template	AGCRT-US-Bluetooth/SAR (2021-04-20)			

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

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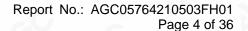




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1. SUMMARY OF MAXIMUM SAR VALUE

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

Frequency Band	Highest Reported 1g-SAR(W/kg)	SAR Test Result
Bluetooth	0.001	DACC
SAR Test Limit (W/kg)	1.6	PASS

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

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	Brydge 12.9 MAX+
Test Model	BRY603
Hardware Version	V1.4
Software Version	V2.0.14
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
Bluetooth	
Operation Frequency	2.402 GHz to 2.480GHz
Antenna Gain	1.87dBi
Bluetooth Version	BLE
Type of modulation	BLE ⊠GFSK 1Mbps □GFSK 2Mbps
Peak Output Power	-1.358dBm
Power Supply	DC 3.7V by battery

Note: 1.The sample used for testing is end product.

2. The test sample has no any deviation to the test method of standard mentioned in page 1.

3. Duty-cycle = [on time/total time] x 100%

Draduct	Type	10 20
Product	Production unit	Identical Prototype

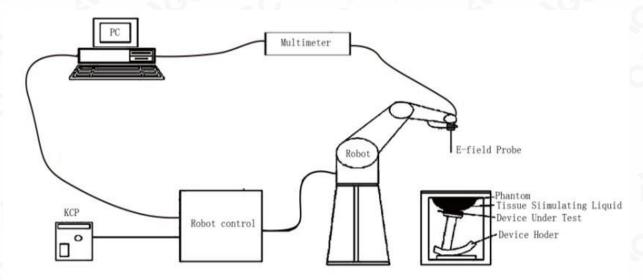
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3. SAR MEASUREMENT SYSTEM

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



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

- The PC. It controls most of the bench devices and stores measurement data. A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter measures each probe dipole voltages.
- The SAM phantom simulates a human head. The measurement of the electric field is made inside the phantom.
- The liquids simulate the dielectric properties of the human head tissues.
- · The network emulator controls the mobile phone under test.
- The validation dipoles are used to measure a reference SAR. They are used to periodically check the bench to make sure that there is no drift of the system characteristics over time.
- •The phantom, the device holder and other accessories according to the targeted measurement.

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3.2. COMOSAR E-Field Probe

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

Isotropic E-Field Probe Specification

Model	SSE5
Manufacture	MVG
Identification No.	SN 24/20 EP336
Frequency	0.7GHz-3GHz Linearity:±0.08dB(0.7GHz-3GHz)
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.08dB
Dimensions	Overall length:330mm Length of individual dipoles:4.5mm Maximum external diameter:8mm Probe Tip external diameter:5mm Distance between dipoles/ probe extremity:2.7mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 3 GHz with precisin of better 30%.

3.3. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France). For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used.

The XL robot series have many features that are important for our application:

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



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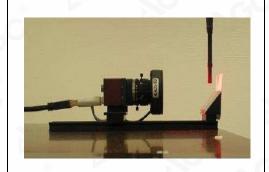
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3.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link.

During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

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

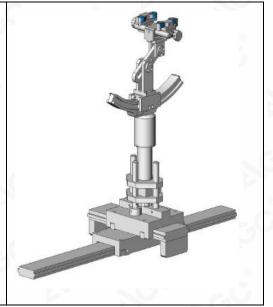


3.5. Device Holder

The COMOSAR device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles. The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity

 $\epsilon r = 3$ and loss tangent $\delta = 0.02$. 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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3.6. ELLI39 Phantom

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



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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and occupational/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

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

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

SAR is expressed in units of Watts per kilogram (W/kg) SAR can be obtained using either of the following equations:

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

$$SAR = c_h \frac{dT}{dt}\Big|_{t=0}$$

Where

SAR is the specific absorption rate in watts per kilogram;

E is the r.m.s. value of the electric field strength in the tissue in volts per meter;

σ is the conductivity of the tissue in siemens per metre;

ρ is the density of the tissue in kilograms per cubic metre;

ch is the heat capacity of the tissue in joules per kilogram and Kelvin;

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

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4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

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

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in SATIMO software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in d IEC/IEEE 62209-1528 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

measure the SAR distribution within the phantom (area scan procedure). The SAR distribution is scanned along the inside surface of one side of the phantom head, at least for an area larger than the projection of the handset and antenna. The spatial grid step shall be less than 20 mm. The resolution accuracy can also be tested using the reference functions of 7.2.4. If surface scanning is used, then the distance between the geometrical centre of the probe dipoles and the inner surface of the phantom shall be 8,0 mm or less (±1,0 mm). At all measurement points, the angle of the probe with respect to the line normal to the surface is recommended but not required to be less than 30°.

Step 3: Zoom Scan

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

measure SAR with a grid step of 8 mm or less in a volume with a minimum size of 30 mm by 30 mm and 30 mm in depth (zoom scan procedure). The grid step in the vertical direction shall be 5 mm or less (see C.3.3). Separate grids shall be centred on each of the local SAR maxima found in step c).

Step 4: Power Drift Measurement

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

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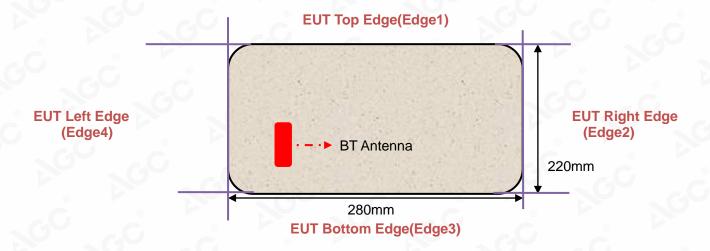
4.3. RF Exposure Conditions

Test Configuration and setting:

The device is a bluetooth keyboard, and supports Bluetooth wireless technology.

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

Antenna Location:



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5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 10% are listed in 6.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

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

Target Frequency	h	ead	k	oody
(MHz)	εr	σ (S/m)	εr	σ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
835	41.5	0.90	41.5	0.90
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
1800 – 2000	40.0	1.40	40.0	1.40
2450	39.2	1.80	39.2	1.80
3000	38.5	2.40	38.5	2.40

($\varepsilon r = relative permittivity, \sigma = conductivity and \rho = 1000 kg/m3)$

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5.3. Tissue Calibration Result

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

	Tissue Stimulant Measurement for 2450MHz						
	Fr.	Dielectric Parameters (±10%)			JC		
	(MHz)	εr39.2(35.28-43.12)	δ[s/m]1.80(1.62-1.98)	Temp [°C]	Test time		
Head	2402	38.95	1.74	8			
	2440	38.64	1.75	21.7	May 10, 2021		
	2450	38.42	1.76	21.7	May 19, 2021		
	2480	38.18	1.77	0			

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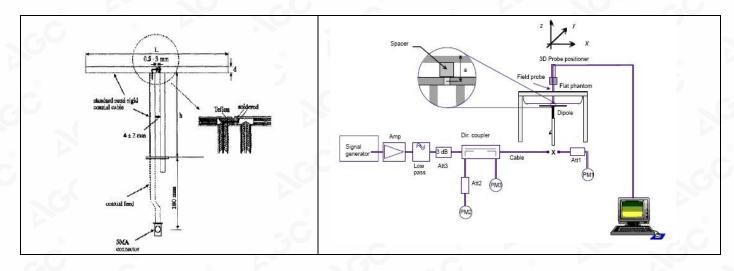
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

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

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

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

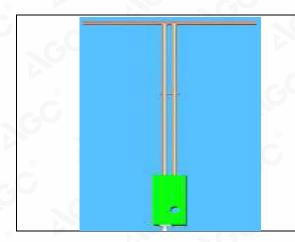


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6.2. SAR System Check 6.2.1. Dipoles



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

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

6.2.2. System Check Result

System Performance Check at 2450MHz for Head									
Validation Kit: SN 46/11 DIP 2G450-189									
Frequency		get (W/kg)		ce Result 0%)	Tested Value(W/kg)		Tissue Temp.	Test time	
[MHz]	1g	10g	1g	10g	1g	10g	[°C]	®	
2450	53.97	24.01	48.573-59.367	21.609-26.411	55.33	24.82	21.7	May 19, 2021	

Note:

(1) We use a CW signal of 18dBm for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.

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7. EUT TEST POSITION

This EUT was tested in Body back and Body front.

7.1. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to 0mm.

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8. SAR EXPOSURE LIMITS

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

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

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9. TEST FACILITY

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

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10. TEST EQUIPMENT LIST

Equipment description			Current calibration date	Next calibration date	
SAR Probe	MVG	SN 24/20 EP336	Jun. 24,2020	Jun. 23,2021	
Phantom	SATIMO	SN_2316_ELLI39	Validated. No cal required.	Validated. No cal required.	
Liquid	SATIMO	© -	Validated. No cal required.	Validated. No cal required.	
Multimeter	Keithley 2000	4114939	Sep. 07,2020	Sep. 06,2021	
SAR Software	MVG-OpenSAR	OpenSAR V4_02_35	N/A	N/A	
Dipole	SATIMO SID2450	SN 46/11 DIP 2G450-189	Apr. 26,2019	Apr. 25,2022	
Signal Generator	Agilent-E4438C	US41461365	Aug. 21,2020	Aug. 20,2021	
Vector Analyzer	Agilent / E4440A	US41421290	Sep. 06,2020	Sep. 05,2021	
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	Oct. 16,2020	Oct. 15,2021	
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	June 10,2020	June 09,2021	
Attenuator	Mini-circuits / VAT-10+	31405	June 10,2020	June 09,2021	
Amplifier	AS0104-55_55	1004793	June 11,2020	June 10,2021	
Directional Couple	Werlatone/ C5571-10	SN99463	May 15,2020	May 14,2022	
Directional Couple	Werlatone/ C6026-10	SN99482	May 15,2020	May 14,2022	
Power Sensor	NRP-Z21	1137.6000.02	Sep. 08,2020	Sep. 07,2021	
Power Sensor	NRP-Z23	100323	Feb. 17,2021	Feb. 16,2022	
Power Viewer	R&S	V2.3.1.0	N/A	N/A	

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

- 1. There is no physical damage on the dipole;
- 2. System validation with specific dipole is within 10% of calibrated value;
- 3. Return-loss is within 20% of calibrated measurement;
- 4. Impedance is within 5Ω of calibrated measurement.

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11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- SN 24/20 EP336 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System		(. 70)	<i>D</i> .101.		©		(. 70)	(. 70)	
Probe calibration	E.2.1	7.000	N	1	- 1	1 8	7.000	7.000	ox
Axial Isotropy	E.2.2	0.105	R	√3	√0.5	√0.5	0.043	0.043	α
Hemispherical Isotropy	E.2.2	0.105	R	$\sqrt{3}$	√0.5	√0.5	0.043	0.043	α
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	0
Linearity	E.2.4	0.870	R	$\sqrt{3}$	1	1	0.502	0.502	0
System detection limits	E.2.4	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	0
Modulation response	E2.5	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	α
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	0
Response Time	E.2.7	0.000	R	$\sqrt{3}$	1	1	0.000	0.000	α
Integration Time	E.2.8	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	o
RF ambient conditions-Noise	E.6.1	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	o
RF ambient conditions-reflections	E.6.1	3.000	R	√3	1	1 💿	1.732	1.732	o
Probe positioner mechanical tolerance	E.6.2	1.400	R	√3	1	1	0.808	0.808	0
Probe positioning with respect to phantom shell	E.6.3	1.400	R	√3	8 1	1	0.808	0.808	٥
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	$\sqrt{3}$	1	1	1.328	1.328	0
Test sample Related			8						
Test sample positioning	E.4.2	2.6	N	1	1	1	2.600	2.600	o
Device holder uncertainty	E.4.1	3	N	1	1	1	3.000	3.000	o
Output power variation—SAR drift measurement	E.2.9	5	R	√3	1	1	2.887	2.887	α
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.887	2.887	o
Phantom and tissue parameter	s		. 0		8				
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√3	1	1	2.309	2.309	٥
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	0
Liquid conductivity measurement	E.3.3	2.5	R	√3	0.78	0.71	1.126	1.025	0
Liquid permittivity measurement	E.3.3	4	N	1	0.78	0.71	3.120	2.840	N
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.332	0.375	C
Liquid permittivity—temperature uncertainty	E.3.4	5	N	1	0.23	0.26	1.150	1.300	N
Combined Standard Uncertainty	©		RSS		GO		10.525	10.341	
Expanded Uncertainty (95% Confidence interval)	50		K=2				21.051	20.681	

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System		ATIMO Un				n / 10 aram			
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System			1	(8)					
Probe calibration	E.2.1	7	N	1	1	1 🛞	7.000	7.000	00
Axial Isotropy	E.2.2	0.105	R	$\sqrt{3}$	1	1	0.061	0.061	o
Hemispherical Isotropy	E.2.2	0.105	R	$\sqrt{3}$	0	0	0.000	0.000	o
Boundary effect	E.2.3	1	R	$\sqrt{3}$	® 1	1	0.577	0.577	oc
Linearity	E.2.4	0.870	R	$\sqrt{3}$	1	1	0.502	0.502	oc
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	oc
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	o
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	oc
Response Time	E.2.7	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	00
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	oc
RF ambient conditions-Noise	E.6.1	3.0	R	√3	1	1	1.73	1.73	oc
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	o
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	α
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	o
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	1	1	1.33	1.33	000
System validation source		0					a.G		8
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1 @	1	1	5.00	5.00	oc
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	o
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	oc
Phantom and set-up				®				z.C	
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	R	$\sqrt{3}$	1 ®	1	2.31	2.31	00
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	œ
Liquid conductivity (temperature uncertainty)	E.3.3	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	o
iquid conductivity (measured)	E.3.3	4	N	1	0.78	0.71	3.12	2.84	N
Liquid permittivity(temperature uncertainty)	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	o
_iquid permittivity (measured)	E.3.4	5	N	1	0.23	0.26	1.15	1.30	N
Combined Standard Uncertainty			RSS				10.458	10.272	
Expanded Uncertainty (95% Confidence interval)	8		K=2			. 6	20.916	20.544	

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Sv	stem Check	SATIMO Uncurrence of the second secon				/ 10 gram.			
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System	a.C	(* 75)	9				1 (7 7 7)		
Probe calibration drift	E.2.1.3	0.5	N	1	1	1	0.50	0.50	α
Axial Isotropy	E.2.2	0.105	R	√3	0	0	0.00	0.00	0
Hemispherical Isotropy	E.2.2	0.105	R	√3	0	0	0.00	0.00	0
Boundary effect	E.2.3	1	R	$\sqrt{3}$	0	0	0.00	0.00	0
Linearity	E.2.4	0.870	R	√3	0	0	0.00	0.00	C
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	c
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	C
Readout Electronics	E.2.6	0.021	N	1	0	0	0.00	0.00	C
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	C
Integration Time	E.2.8	1.4	R	√3	0	0	0.00	0.00	c
RF ambient conditions-Noise	E.6.1	3.0	R	√3	0	0	0.00	0.00	C
RF ambient conditions-reflections	E.6.1	3.0	R	√3	0	0	0.00	0.00	C
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1 0	0.81	0.81	C
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	c
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	0	0	0.00	0.00	C
System check source (dipole)		®			- (
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	C
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	0
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	c
Phantom and tissue parameter	rs		9	@		< C		- C	
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1 ®	1	2.31	2.31	C
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	c
Liquid conductivity measurement	E.3.3	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	c
Liquid permittivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	ľ
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	c
Liquid permittivity—temperature uncertainty	E.3.4	5	N	1	0.23	0.26	1.15	1.30	N
Combined Standard Uncertainty	C	C.C	RSS	8	®		5.562	5.203	
Expanded Uncertainty (95% Confidence interval)	8		K=2		c.C	©	11.124	10.406	

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12. CONDUCTED POWER MEASUREMENT

Bluetooth_BLE

Modulation	Channel Number	Frequency(MHz)	Maximum Peak Power (dBm)
100	0	2402	-1.358
GFSK 1M	19	2440	-1.517
	39	2480	-1.731

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The test results

the test report.

13. TEST RESULTS

13.1. SAR Test Results Summary 13.1.1. Test position and configuration

- 1. The EUT is a model of bluetooth keyboard.
- 2. Based on FCC guidance, use a non-standard setting for SAR testing. The operating instructions contain additional information:
 - In this proiect, the test mode was specified by the customer, just test body back and body front
- 3. Test procedure:
 - (1) For the body back and body front, test 1-g SAR at a test separation distance of 0mm from the flat phantom filled with head tissue simulating Liquid.
- 4. For SAR testing, the device was controlled by software to test at reference fixed frequency points.

13.1.2. Operation Mode

output power(mw)]

- 1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
- 2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/kg, testing for repeated SAR measurement is required, that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
 - (1) When the original highest measured SAR is ≥0.8W/kg, repeat that measurement once.
 - (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥1.45 W/kg.
 - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
- Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
 Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement

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//Inspection
The test results
the test report.

13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):	Re	lative Humidity	′ (%): 50.7						
Product: Brydge 12.9 MAX+									
Test Mode: Bluetooth for head liquid									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit W/kg
Body back	GFSK	19	2440	0.09	0.001	-1.30	-1.517	0.001	1.6
Body front	GFSK	19	2440	0.04	0.001	-1.30	-1.517	0.001	<u>1.6</u>

Note:

• When the 1-g SAR is \leq 0.8W/kg, testing for low and high channel is optional.

• The test separation of all above table is 0mm.

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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: May 19, 2021

System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.23 Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.76$ mho/m; $\epsilon r = 38.42$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature ($^{\circ}$):22.0, Liquid temperature ($^{\circ}$): 21.7

SATIMO Configuration

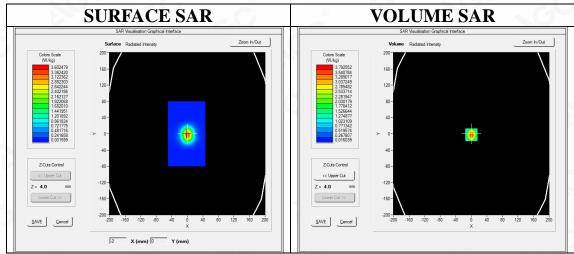
Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

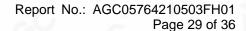
Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



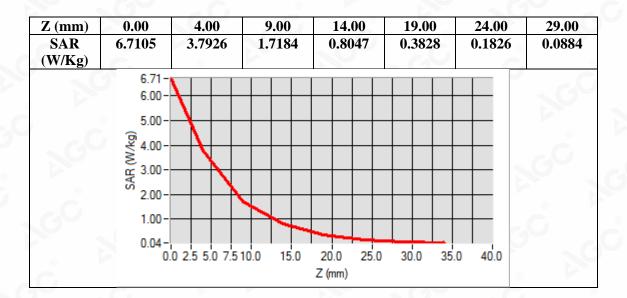
Maximum location: X=0.00, Y=-2.00 SAR Peak: 6.61 W/kg

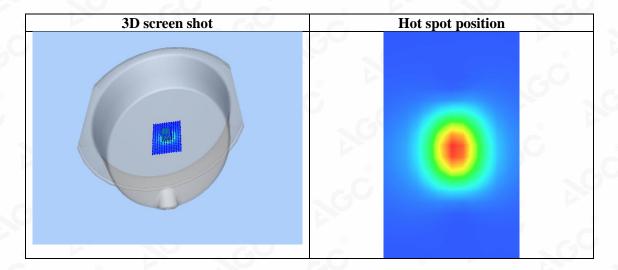
SAR 10g (W/Kg)	1.565883
SAR 1g (W/Kg)	3.491046

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: May 19, 2021

Bluetooth Mid-Body-Worn- Back (GFSK 1Mbps) DUT: Brydge 12.9 MAX+; Type: BRY603

Communication System: BT; Communication System Band: Bluetooth; Duty Cycle:100%; Conv.F=4.23;

Frequency: 2440 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.75$ mho/m; $\epsilon r = 38.64$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature ($^{\circ}$):22.0, Liquid temperature ($^{\circ}$): 21.7

SATIMO Configuration:

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

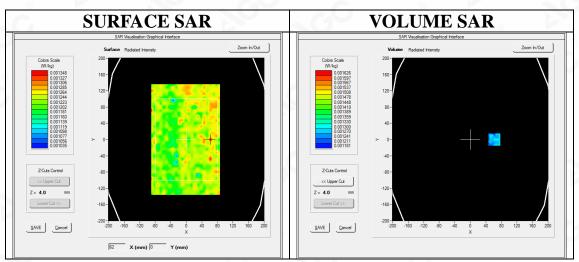
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

Configuration/Bluetooth Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/Bluetooth Mid- Body- Back /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

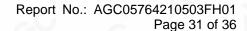
Area Scan	surf_sam_plan.txt, h= 5.00 mm		
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm		
Phantom	• ELLI		
Device Position	Body Back		
Band	Bluetooth		
Channels	Middle		
Signal	Crest factor: 1.0		



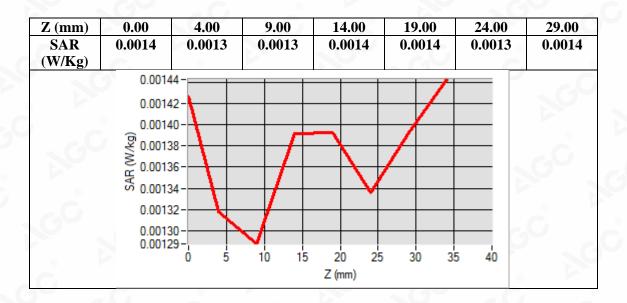
Maximum location: X=62.00, Y=0.00 SAR Peak: 0.00 W/kg

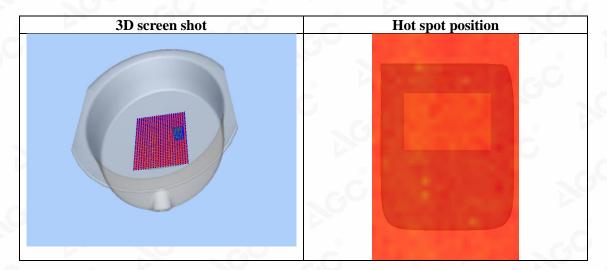
SAR 10g (W/Kg)	0.001305
SAR 1g (W/Kg)	0.001284

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Test Laboratory: AGC Lab Date: May 19, 2021

Bluetooth Mid-Body- Worn- Front (GFSK 1Mbps)

DUT: Brydge 12.9 MAX+; Type: BRY603

Communication System: BT; Communication System Band: Bluetooth; Duty Cycle:100%; Conv.F=4.23;

Frequency: 2440 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.75$ mho/m; ϵ r = 38.64; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature (°C):22.0, Liquid temperature (°C): 21.7

SATIMO Configuration:

Probe: SSE5; Calibrated: Jun. 24,2020; Serial No.: SN 24/20 EP336

Sensor-Surface: 4mm (Mechanical Surface Detection)

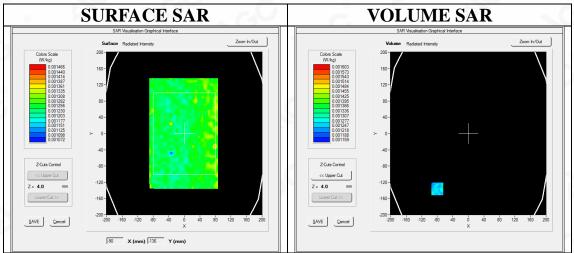
Phantom: ELLI39 Phantom

Measurement SW: OpenSAR V4_02_35

Configuration/Bluetooth Mid- Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/Bluetooth Mid- Body- Front /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

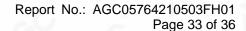
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Body Front
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0



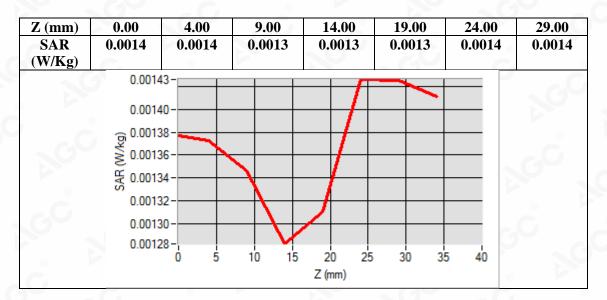
Maximum location: X=-80.00, Y=-136.00 SAR Peak: 0.00 W/kg

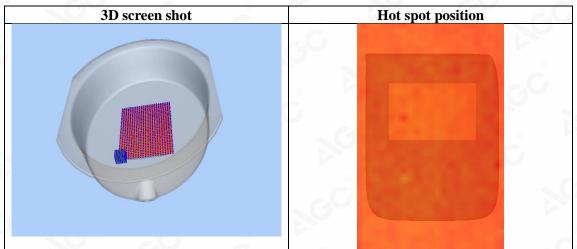
CAD 10c (W/Vc)	0.001290
SAR 10g (W/Kg)	0.001280
SAR 1g (W/Kg)	0.001266

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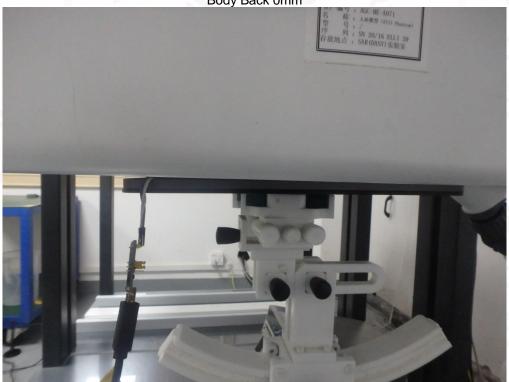
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Restriction Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written application of AGC, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc=cert.com.



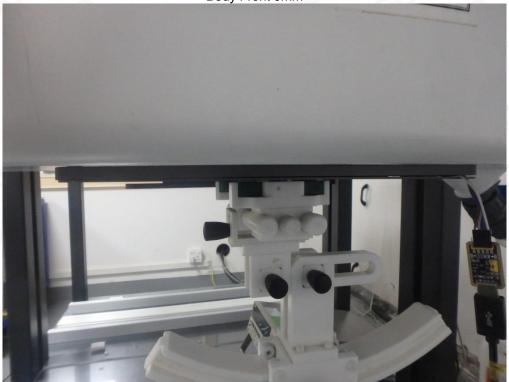
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APPENDIX C. TEST SETUP PHOTOGRAPHS

Body Back 0mm



Body Front 0mm



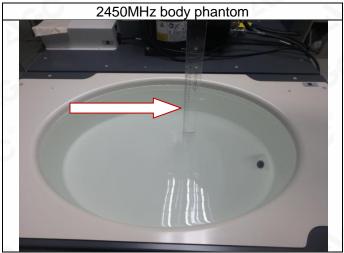
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

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



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APPENDIX D. CALIBRATION DATA

Refer to Attached files.

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- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
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- 6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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- 8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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