



FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

## SAR TEST REPORT

For

# Magforms Technology Co., Ltd

WIFI Receiver

Test Model: 600M Wireless USB Adapter

Additional Model No.: /

Prepared for : Magforms Technology Co., Ltd

Address Building 3, Huihong Industrial Park, No. 70 Huanzhou North

Road, Tanzhou Town, Zhongshan City, Guangdong, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

101, 201 Bldg A & 301 Bldg C, Juji Industrial Park

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518000, China

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Date of receipt of test sample : March 24, 2023

Number of tested samples : ´

Sample No. : A032123099-1 Serial number : Prototype

Date of Test : March 24, 2023 ~ April 06, 2023

Date of Report : April 21, 2023



LCS Testing Lab





Page 2 of 78 FCC ID: 2BANK-P-SERIES

**SAR TEST REPORT** 

Report Reference No...... LCSA032123099EB

Date Of Issue...... April 21, 2023

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

Other standard testing method

Applicant's Name.....: Magforms Technology Co., Ltd

Address...... Building 3, Huihong Industrial Park, No. 70 Huanzhou North Road,

Tanzhou Town, Zhongshan City, Guangdong, China

**Test Specification:** 

Standard.....: IEEE Std C95.1-2019& IEEE Std 1528™-2013 & FCC Part 2.1093

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.....: WIFI Receiver

Trade Mark..... N/A

Model/Type Reference...... 600M Wireless USB Adapter

Operation Frequency...... WLAN2.4G, WLAN5.2G, WLAN5.8G

Ratings...... DC 5V by Computer USB port

Result ...... Positive

Compiled by:

Supervised by:

Approved by:

Report No.: LCSA032123099EB

Jayzhan

Jay Zhan/ File administrators

Cary Luo /Technique principal

Gavin Liang/ Manager













**FCC ID: 2BANK-P-SERIES** 



## **SAR -- TEST REPORT**

Report No.: LCSA032123099EB

STOSTILL	VIST CSTESTING	Testing VISITIES
Test Report No. :	LCSA032123099EB	April 21, 2023 Date of issue

Type / Model	:	600M Wireless USB Adapter		
EUT	:	WIFI Receiver		
Applicant	:	Magforms Technology Co., Ltd		
Address	:	Building 3, Huihong Industrial Park, No. 70 Huanzhou North Road, Tanzhou Town, Zhongshan City, Guangdong, China		
Telephone	:	I Les Tosting		
Fax	:			
Manufacturer	:	Magforms Technology Co., Ltd		
Address	:	Building 3, Huihong Industrial Park, No. 70 Huanzhou North Road, Tanzhou Town, Zhongshan City, Guangdong, China		
Telephone	:	1		
Fax		1		
Factory	:	Magforms Technology Co., Ltd		
Address	V	Building 3, Huihong Industrial Park, No. 70 Huanzhou North Road, Tanzhou Town, Zhongshan City, Guangdong, China		
Telephone	a.i	dina Leading 12		
Fax				

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.



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**FCC ID: 2BANK-P-SERIES** 

## Report No.: LCSA032123099EB

# **Revison History**

	Revis	on History	
Revision	Issue Date	Revision Content	Revised By
000	April 21, 2023	Initial Issue	Tan Page





# **TABLE OF CONTENTS**

1. TES	T STANDARDS AND TEST DESCRIPTION	7/50 /ce.,	6
1.1. 1.2. 1.3. 1.4. 1.5.	TEST STANDARDS TEST DESCRIPTION GENERAL REMARKS PRODUCT DESCRIPTION STATEMENT OF COMPLIANCE		6 6
2. TES	T ENVIRONMENT	•••••	9
2.2. 2.3. 2.4.	TEST FACILITY	1 150 1 <sup>10</sup> 1 nD	
3.5. 3.6. 3.7. 3.8. 3.9. 3.10. 3.11. 3.12. 3.13.	SARMEASUREMENT SET-UP  OPENSAR E-FIELD PROBE SYSTEM  PHANTOMS  DEVICE HOLDER  SCANNING PROCEDURE  DATA STORAGE AND EVALUATION  TISSUE DIELECTRIC PARAMETERS FOR HEAD AND BODY TISSUE EQUIVALENT LIQUID PROPERTIES  SYSTEM CHECK  SAR MEASUREMENT PROCEDURE  CONFIGURATION AND PERIPHERALS  POWER REDUCTION  POWER DRIFT	Y PHANTOMS	12 13 13 14 16 18 18 21 24 24
4. TES	T CONDITIONS AND RESULTS		25
4.1. 4.2. 4.3. 4.4. 4.5. 4.6. 4.7. 4.8.	CONDUCTED POWER RESULTS  TRANSMIT ANTENNAS AND SAR MEASUREMENT POSITI SAR MEASUREMENT RESULTS  SAR MEASUREMENT VARIABILITY  GENERAL DESCRIPTION OF TEST PROCEDURES  MEASUREMENT UNCERTAINTY (450MHZ-6GHZ)  SYSTEM CHECK RESULTS  SAR TEST GRAPH RESULTS	ION	
5. CAL	IBRATION CERTIFICATES		
5.1 5.2 5.3 5.4	PROBE-EPGO376 CALIBRATION CERTIFICATE		
6. PHO	TOGRAPHS OF THE TEST		77
<b>7.</b> EUT	PHOTOGRAPHS		78













FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

## 1. TEST STANDARDS AND TEST DESCRIPTION

#### 1.1. Test Standards

<u>IEEE Std C95.1-2019</u>: IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

<u>IEEE Std 1528™-2013:</u> IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

FCC Part 2.1093 Radiofrequency Radiation Exposure Evaluation: Portable Devices

<u>KDB447498 D01 General RF Exposure Guidance v06 :</u> Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies

<u>KDB447498 D02 SAR Procedures for Dongle Xmtr v02r01</u>: SAR Measurement Procedures For USB Dongle Transmitters.

KDB865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 : SAR Measurement Requirements for 100 MHz to 6 GHz

<u>KDB865664 D02 RF Exposure Reporting v01r02:</u> RF Exposure Compliance Reporting and Documentation Considerations

KDB 248227 D01 802.11 Wi-Fi SAR v02r02: SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

## 1.2. Test Description

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power . And Test device is identical prototype.

### 1.3. General Remarks

Date of receipt of test sample	:	March 24, 2023
Testing commenced on	:	March 24, 2023
Testing concluded on	:	April 06, 2023

## 1.4. Product Description

The Magforms Technology Co., Ltd's Model: 600M Wireless USB Adapter 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.

General Description		
EUT 1 GS Tes	WIFI Receiver	VST LCS Testing
Model/Type reference:	600M Wireless USB Adapter	
Additional Model No.	1	
Model Declaration	1	
Hardware Version	1	
Software Version:	1	
Power supply:	DC 5V by Computer USB port	

The EUT is WIFI Receiver. the WIFI Receiver is intended for WLAN transmission. It is equipped with WiFi2.4G, WiFi5.2G, WiFi5.8G camera functions. For more information see the following datasheet,



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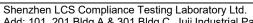
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Report No.: LCSA032123099EB

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Technical Characteristics			
WIFI 2.4G			
Frequency Range:	2412MHz ~ 2462 MHz		
Trong La	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)		
Type of Modulation:	IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)		
	IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Channel number:	11 Channels for 20MHz bandwidth (2412~2462MHz)		
Chamile number.	7 Channels for 40MHz bandwidth (2422~2452MHz)		
Channel separation:	5MHz		
Antenna Description:	Internal Antenna, -0.01dBi(Max.)		
5.2G WLAN			
Frequency Range	5180MHz~5240MHz		
Channel Number	4 Channels for 20MHz bandwidth(5180MHz~5240MHz)		
	2 channels for 40MHz bandwidth(5190MHz~5230MHz)		
- A MIN 1852 177	1 channels for 80MHz bandwidth(5210MHz)		
Modulation Type	IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Visi (cs To"	IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)		
Antenna Description	Internal Antenna, 1.57dBi(Max.)		
5.8G WLAN			
Frequency Range	5745MHz-5825MHz		
Channel Number	5 channels for 20MHz bandwidth(5745MHz~5825MHz)		
	2 channels for 40MHz bandwidth(5755MHz~5795MHz)		
	1 channels for 80MHz bandwidth(5775MHz)		
Modulation Type	IEEE 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)		
	IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)		
Antenna Description	Internal Antenna, 1.57dBi(Max.)		

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Page 8 of 78 **FCC ID: 2BANK-P-SERIES** Report No.: LCSA032123099EB

## 1.5. Statement of Compliance

The maximum of results of SAR found during testing for 600M Wireless USB Adapter are follows:

<Highest Reported standalone SAR Summary>

Classment	Frequency	Body-worn
Class	Band	(Report SAR <sub>1-g</sub> (W/kg)
DTS	WIFI2.4G	0.164
NII	WIFI5.2G	0.095
	WIFI5.8G	0.090

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013. 区 工资检测股份 LCS Testing Lab



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## of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

# 2. TEST ENVIRONMENT

# 2.1. Test Facility

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

Site Description

SAR Lab. : NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595. Test Firm Registration Number: 254912.

#### 2.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	Mig ics	18-25 ° C
		la contraction of the contractio
Humidity:		40-65 %
Atmospheric pressure:		950-1050mbar

#### 2.3. SAR Limits

FCC Limit (1g Tissue)

	SAR (W/kg)			
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)		
Spatial Average(averaged over the whole body)	0.08	0.4		
Spatial Peak(averaged over any 1 g of tissue)	1.6	8.0		
Spatial Peak(hands/wrists/ feet/anklesaveraged over 10 g)	4.0	20.0		

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

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



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Page 10 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

## 2.4. Equipments Used during the Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1 1	PC	Lenovo	G5005	MY42081102	N/A	N/A
2	SAR Measurement system	SATIMO	4014_01	SAR_4014_01	N/A	N/A
3	Signal Generator	Agilent	E4438C	MY49072627	2022-06-16	2023-06-15
4	S-parameter Network Analyzer	Agilent	8753ES	US38432944	2022-06-16	2023-06-15
5	Wideband Radio Communication Tester	R&S	CMW500	103818-1	2022-06-16	2023-06-15
6	E-Field PROBE	MVG	SSE2	SN 25/22 EPGO376	2022-06-29	2023-06-28
7	DIPOLE 2450	SATIMO	SID 2450	SN 07/14 DIP 2G450-306	2021-09-29	2024-09-28
8	DIPOLE 5000-6000	MVG	SWG5500	SN 49/16 WGA 43	2021-09-22	2024-09-21
9	COMOSAR OPENCoaxial Probe	SATIMO	OCPG 68	SN 40/14 OCPG68	2022-10-29	2023-10-28
10	SAR Locator	SATIMO	VPS51	SN 40/14 VPS51	2022-10-29	2023-10-28
11	Communication Antenna	SATIMO	ANTA57	SN 39/14 ANTA57	2022-10-29	2023-10-28
12	FEATURE PHONEPOSITIONING DEVICE	SATIMO	MSH98	SN 40/14 MSH98	N/A	N/A
13	DUMMY PROBE	SATIMO	DP60	SN 03/14 DP60	N/A	N/A
14	SAM PHANTOM	SATIMO	SAM117	SN 40/14 SAM117	N/A	N/A
15	Liquid measurement Kit	HP	85033D	3423A03482	N/A	N/A
16	Power meter	Agilent	E4419B	MY45104493	2022-10-29	2023-10-28
17	Power meter	Agilent	E4419B	MY45100308	2022-10-29	2023-10-28
18	Power sensor	Agilent	E9301H	MY41495616	2022-10-29	2023-10-28
19	Power sensor	Agilent	E9301H	MY41495234	2022-10-29	2023-10-28
20	Directional Coupler	MCLI/USA	4426-20	03746	2022-06-16	2023-06-15

#### Note:

- 1) Per KDB865664D01 requirements for dipole calibration, the test laboratory has adopted three year extended calibration interval. Each measured dipole is expected to evalute with following criteria at least on annual interval.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated values;
- c) The most recent return-loss results, measued at least annually, deviates by no more than 20% from the previous measurement;
- d) The most recent measurement of the real or imaginary parts of the impedance, measured at least annually is within  $5\Omega$  from the provious measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.











8 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

## 3. SAR MEASUREMENTS SYSTEM CONFIGURATION

## 3.1. SARMeasurement Set-up

The OPENSAR system for performing compliance tests consist of the following items:

A standard high precision 6-axis robot (KUKA) with controller and software.

KUKA Control Panel (KCP)

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with a Video Positioning System(VPS).

The stress sensor is composed with mechanical and electronic when the electronic part detects a change on the electro-mechanical switch, It sends an "Emergency signal" to the robot controller that to stop robot's moves

A computer operating Windows XP.

**OPENSAR** software

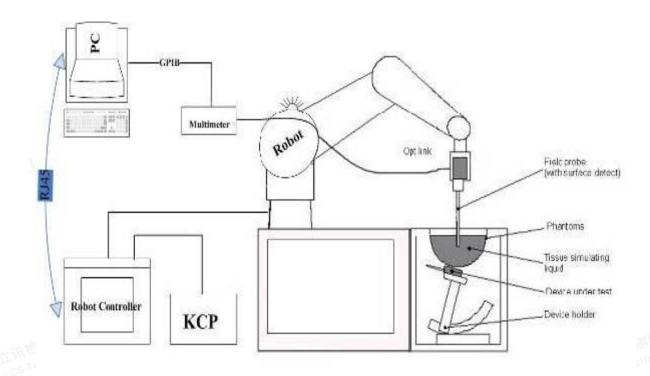
Remote control with teaches pendant and additional circuitry for robot safety such as warning lamps, etc.

The SAM phantom enabling testing left-hand right-hand and body usage.

The Position device for handheld EUT

Tissue simulating liquid mixed according to the given recipes .

System validation dipoles to validate the proper functioning of the system.





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Page 12 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

## 3.2. OPENSAR E-field Probe System

The SAR measurements were conducted with the dosimetric probe EPGO376 (manufactured by MVG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

**Probe Specification** 

ConstructionSymmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)

CalibrationISO/IEC 17025 calibration service available.

Frequency 450 MHz to 6 GHz;

Linearity:0.25dB(450 MHz to 6 GHz)

Directivity 0.25 dB in HSL (rotation around probe axis)

0.5 dB in tissue material (rotation normal to

probe axis)

Dynamic Range 0.01W/kg to > 100 W/kg;

Linearity: 0.25 dB

Dimensions Overall length: 330 mm (Tip: 16mm)

Tip diameter: 5 mm (Body: 8 mm)

Distance from probe tip to sensor centers:

2.5 mm

Application General dosimetry up to 6 GHz

Dosimetry in strong gradient fields Compliance tests of Mobile Phones

#### Isotropic E-Field Probe

The isotropic E-Field probe has been fully calibrated and assessed for isotropicity, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change.

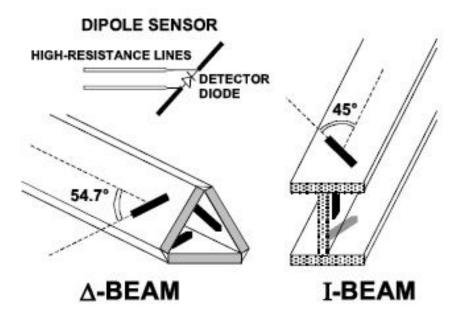
The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:





FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

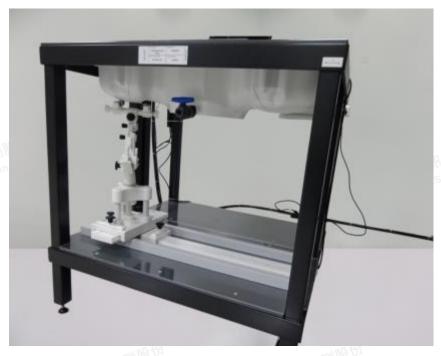




#### 3.3. Phantoms

The SAM Phantom SAM117 is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is in compliance with the specification set in IEEE 1528 and EN62209-1, EN62209-2. The phantom 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 the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of allpredefined phantom positions and measurement grids by manually teaching three points in the robo

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.



SAM Twin Phantom

## 3.4. Device Holder

In combination with the Generic Twin PhantomSAM117, the Mounting Device enables the rotation of the

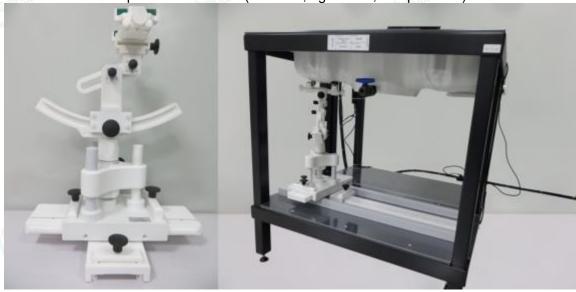




Page 14 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatedly positioned according to the FCC specifications. The device holder

can be locked at different phantom locations (left head, right head, flat phantom).



Device holder supplied by SATIMO

## 3.5. Scanning Procedure

#### The procedure for assessing the peak spatial-average SAR value consists of the following steps

#### Power Reference Measurement

The reference and drift jobs are useful jobs for monitoring the power drift of the device under test in the batch process. Both jobs measure the field at a specified reference position, at a selectable distance from the phantom surface. The reference position can be either the selected section's grid reference point or a user point in this section. The reference job projects the selected point onto the phantom surface, orients the probe perpendicularly to the surface, and approaches the surface using the selected detection method.

#### Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot.Before starting the area scan a grid spacing of 15 mm x 15 mm is set. During the scan the distance of the probe to the phantom remains unchanged. After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

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

#### Zoom Scan

Zoom Scans are used to estimate the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default Zoom Scan is done by 7x7x7 points within a cube whose base is centered around the maxima found in the preceding area scan.





Page 15 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

Maximum zoom scan spatial resolution: Δx <sub>Zoom</sub> , Δy <sub>Zoom</sub>			$\leq$ 2 GHz: $\leq$ 8 mm 2 - 3 GHz: $\leq$ 5 mm*	$3 - 4 \text{ GHz}$ : $\leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}$ : $\leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform	grid: Δz <sub>Zoom</sub> (n)	≤ 5 mm	$3 - 4 \text{ GHz}$ : $\leq 4 \text{ mm}$ $4 - 5 \text{ GHz}$ : $\leq 3 \text{ mm}$ $5 - 6 \text{ GHz}$ : $\leq 2 \text{ mm}$
	graded	Δz <sub>Zoom</sub> (1): between 1 <sup>st</sup> two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	grid  \[ \Delta z_{zoom}(n>1); \]  between subsequent \[ points \]		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1) \text{ mm}$	
Minimum zoom scan volume	X V 2		$\geq 30 \; mm$	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

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<sup>\*</sup> When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



Page 16 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

#### Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for one reference measurement. This allows a user to monitor the power drift of the device under test within a batch process. In the properties of the Drift job, the user can specify a limit for the drift and have OPENSAR software stop the measurements if this limit is exceeded.

#### 3.6. Data Storage and Evaluation

#### **Data Storage**

The OPENSAR 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. 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], [mW/g], [mW/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.

#### **Data Evaluation**

The OPENSAR 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 ConvFiDiode compression point Dcpi

Device parameters: - Frequency f

- Crest factor cf

Media parameters: - Conductivity σ

- Density μ

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 OPENSAR 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:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dep_i}$$

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

dcpi = diode compression point

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



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Page 17 of 78

**FCC ID: 2BANK-P-SERIES** 

 $E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$ E-fieldprobes:

Report No.: LCSA032123099EB

 $H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$   $(\mathbf{i} = \mathbf{x}, \mathbf{y}, \mathbf{z})$   $(\mathbf{i} = \mathbf{x}, \mathbf{y}, \mathbf{z})$ H-field probes:

= compensated signal of channel i With Normi

= sensor sensitivity of channel i

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

ConvF = sensitivity enhancement in solution = sensor sensitivity factors for H-field probes aij

= carrier frequency [GHz] f

Εi = 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):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

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

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1'000}$$

with SAR = local specific absorption rate in mW/g

= total field strength in V/m Etot

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

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Page 18 of 78 **FCC ID: 2BANK-P-SERIES** Report No.: LCSA032123099EB

## 3.7. Tissue Dielectric Parameters for Head and Body Phantoms

The liquid is consisted of water,salt,Glycol,Sugar,Preventol and Cellulose.The liquid has previously been proven to be suited for worst-case. It's satisfying the latest tissue dielectric parameters requirements proposed by the KDB865664.

The composition of the tissue simulating liquid

Frequency (MHz)	Bactericide	DGBE	HEC	NaCl	Sucrose	1,2- Propan ediol	X100	Water	Conductivity	Permittivity
	%	%	%	%	%	%	%	%	σ	εr
750	/	1	/	0.79	/	64.81	/	34.40	0.97	41.8
835	/	1	/	0.79	/	64.81	/	34.40	0.97	41.8
900	/	1	/	0.79	1	64.81	/	34.40	0.97	41.8
1800	1	13.84	/	0.35	/	mik	30.45	55.36	1.38	41.0
1900		13.84	/	0.35	Late	Mar Lo	30.45	55.36	1.38	41.0
2000	J. Trackouting	7.99	/	0.16	W To	ang 7	19.97	71.88	1.55	41.1
2450	2 107	7.99	/	0.16	i Y	1	19.97	71.88	1.88	40.3
2600	1	7.99	/	0.16	/	1	19.97	71.88	1.88	40.3

Target Frequency	He	ad	В	ody
(MHz)	ε <sub>r</sub>	σ(S/m)	ε <sub>r</sub>	σ(S/m)
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
2600	39.0	1.96	52.5	2.16
3000	38.5	2.40	52.0	2.73
5200	36.0	4.66	49.01	5.30
5800	35.3	5.27	48.2	6.00

## 3.8. Tissue equivalent liquid properties

Dielectric Performance of Body Tissue Simulating Liquid

J J									
Test Engineer: Jerry hu									
Tissue	Measured	Targe	t Tissue	Measured Tissue				Liquid	Test Data
Type	Frequency (MHz)	σ	ε <sub>r</sub>	σ	Dev.	$\epsilon_{ m r}$	Dev.	Temp.	
2450H	2450	1.80	39.20	1.77	-1.67%	39.76	1.43%	23.1	03/24/2023
5200H	5200	4.66	36.00	4.64	-0.43%	36.82	2.28%	23.2	03/29/2023
5800H	5800	5.27	35.30	5.25	-0.38%	36.46	3.29%	22.4	04/06/2023







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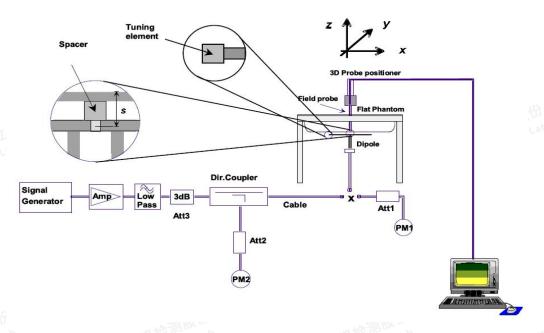
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## 3.9. System Check

The purpose of the system check is to verify that the system operates within its specifications at the decice test frequency. The system check is simple check of repeatability to make sure that the system works correctly at the time of the compliance test;

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system (±10 %).



The output power on dipole port must be calibrated to 20 dBm (100mW) before dipole is connected.



Photo of Dipole Setup





Page 20 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

#### **Justification for Extended SAR Dipole Calibrations**

Referring to KDB 865664D01V01r04, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended. While calibration intervals not exceed 3 years.

SID2450 SN 07/14 DIP 2G450-306 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-29	-25.59		44.7		-1.1	
2022-09-29	-25.68	0.35	44.8	0.1	-1.0	0.1

SID5200 SN 49/16 DIP WGA43 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2021-09-22	-8.59		19.38	(b	13.50	E. Hall on Tap
2022-09-22	-8.62	0.35	19.25	-0.13	13.47	-0.03

SID5800 SN 49/16 DIP WGA43 Extend Dipole Calibrations

CIBCOCC CIT 10/10 Bit 11 C/10 Exteria Bipolo Calibrations							
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)	
2021-09-22	-11.37		54.79		25.47		
2022-09-22	-11.42	0.44	54.68	-0.11	25.26	-0.21	

Mixture	Frequency	cy Power SAR <sub>1g</sub>	SAR <sub>1g</sub>	SAR <sub>1g</sub> SAR <sub>10g</sub> Drift (W/Kg) (W/Kg)	SAR <sub>10g</sub> Drift	1W Ta	1W Target		Difference percentage		Date
Туре	(MHz)	Fowei	(W/Kg)		SAR <sub>1g</sub> (W/Kg)	SAR <sub>10g</sub> (W/Kg)	1g	10g	Temp	Date	
	100 mW	5.421	2.563								
Head	2450	Normalize to 1 Watt	54.21	25.63	-0.11	53.89	24.15	0.59%	6.13%	23.1	03/24/2023
		100 mW	15.408	5.515		9 165.77			-3.58%	23.2	03/29/2023
Head	5200	Normalize to 1 Watt	154.08	55.15	-3.69		57.20	-7.05%			
		100 mW	18.264	6.180							
Head	5800	Normalize to 1 Watt	182.64	61.80	-1.32	186.77	62.84	-2.21%	-1.65%	22.4	04/06/2023



TEST LCS Testing Lab

LCS Tosting Lab



Page 21 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

## 3.10. SAR measurement procedure

The measurement procedures are as follows:

#### 3.10.1 Conducted power measurement

- a. For WWAN power measurement, use base station simulator connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- b. Read the WWAN RF power level from the base station simulator.
- c. 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.
- d. Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power.

#### 3.10.2 WIFI Test Configuration

The SAR measurement and test reduction procedures are structured according to either the DSSS or OFDM transmission mode configurations used in each standalone frequency band and aggregated band. For devices that operate in exposure configurations that require multiple test positions, additional SAR test reduction may be applied. The maximum output power specified for production units, including tune-up tolerance, are used to determine initial SAR test requirements for the 802.11 transmission modes in a frequency band. SAR is measured using the highest measured maximum output power channel for the initial test configuration. SAR measurement and test reduction for the remaining 802.11 modes and test channels are determined according to measured or specified maximum output power and reported SAR of the initial measurements. The general test reduction and SAR measurement approaches are summarized in the following:

- 1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.
- 2. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, an "initial test configuration" is first determined for each standalone and aggregated frequency band according to the maximum output power and tune-up tolerance specified for production units.
- a. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
- b. SAR is measured for OFDM configurations using the initial test configuration procedures. Additional frequency band specific SAR test reduction may be considered for individual frequency bands
- c. Depending on the reported SAR of the highest maximum output power channel tested in the initial test configuration, SAR test reduction may apply to subsequent highest output channels in the initial test configuration to reduce the number of SAR measurements.
- 3. The Initial test configuration does not apply to DSSS. The 2.4 GHz band SAR test requirements and 802.11b DSSS procedures are used to establish the transmission configurations required for SAR measurement.
- 4. An "initial test position" is applied to further reduce the number of SAR tests for devices operating in next to the ear, UMPC mini-tablet or hotspot mode exposure configurations that require multiple test positions.
- a. SAR is measured for 802.11b according to the 2.4 GHz DSSS procedure using the exposure condition established by the initial test position.
- b. SAR is measured for 2.4 GHz and 5 GHz OFDM configurations using the initial test configuration. 802.11b/g/n operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g/n modes are tested on the maximum average output channel.
- 5. The Initial test position does not apply to devices that require a fixed exposure test position. SAR is measured in a fixed exposure test position for these devices in 802.11b according to the 2.4 GHz DSSS procedure or in 2.4 GHz and 5 GHz OFDM configurations using the initial test configuration procedures.
- 6. The "subsequent test configuration" procedures are applied to determine if additional SAR measurements are required for the remaining OFDM transmission modes that have not been tested in the initial test configuration. SAR test exclusion is determined according to reported SAR in the initial test configuration and maximum output power specified or measured for these other OFDM configurations.

#### 2.4 GHz and 5GHz SAR 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





OFDM conditions.

Page 22 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in section 5.2.2.

1. 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:

- a. When the reported SAR of the highest measured maximum output power channel (section 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- b. 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.
- 1. 2.4 GHz 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). SAR is not required for the following 2.4 GHz
- a. When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration
- b. 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.
- 2. 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-1 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.20 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.

- 3. OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements The initial test configuration for 2.4 GHz and 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures (section 4). When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.
- a. The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- b. If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- c. If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- d. When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.

After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.

- a. Channels with measured maximum output power within ¼ dB of each other are considered to have the same maximum output.
- b. When there are multiple test channels with the same measured maximum output power, the channel closest to mid-band frequency is selected for SAR measurement.





Page 23 of 78 **FCC ID: 2BANK-P-SERIES** Report No.: LCSA032123099EB

When there are multiple test channels with the same measured maximum output power and equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

Initial Test Configuration Procedures

An initial test configuration 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). 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 UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode.23 For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

4. Subsequent Test Configuration Procedures

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

- a. When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- b. When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
- 1). SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
- SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested.
- a) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
- replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)





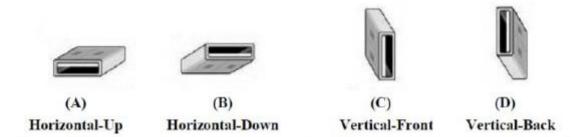
Page 24 of 78 **FCC ID: 2BANK-P-SERIES** Report No.: LCSA032123099EB

2) replace "initial test configuration" with "all tested higher output power configurations.

## 3.11. Configuration and Peripherals

The EUT was tested in the following configuration(s) unless otherwise stated:

- Powered via a USB port.
- Test all USB orientations [see figure below: (A) Horizontal-Up, (B) Horizontal-Down, (C) Vertical-Front, and (D) Vertical-Back] with a device-to-phantom separation distance of 5 mm or less, according to KDB Publication 447498 D01 requirements.



These test orientations are intended for the exposure conditions found in typical laptop/notebook/netbook or tablet computers with either horizontal or vertical USB connector configurations at various locations in the keyboard section of the computer. Current generation portable host computers should be used to establish the required SAR measurement separation distance. The same test separation distance must be used to test all frequency bands and modes in each USB orientation. The typical Horizontal-Up USB connection (A), found in the majority of host computers, must be tested using an appropriate host computer. A host computer with either Vertical-Front (C) or Vertical-Back (D) USB connection should be used to test one of the vertical USB orientations. If a suitable host computer is not available for testing the Horizontal-Down (B) or the remaining Vertical USB orientation, a high quality USB cable, 12 inches or less, may be used for testing these other orientations. It must be documented that the USB cable does not influence the radiating characteristics and LOS Testing Lab output power of the transmitter

#### 3.12. Power Reduction

The product without any power reduction.

#### 3.13. 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 5%.





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# 4. TEST CONDITIONS AND RESULTS

## 4.1. Conducted Power Results

Max Conducted power measurement results and power drift from tune-up tolerance provide by manufacturer:

## <WLAN 2.4GHz Conducted Power>

Mode	Channel	Frequency (MHz)	Data rate (Mbps)	Average Output Power (dBm)
		(	1	12.29
			2	12.23
	1	2412	5.5	12.16
			11	12.11
-			1	12.55
			2	12.50
IEEE 802.11b	list in 6	2437	5.5	12.46
W.S. T. Tost			11	12.41
IEEE 802.11b			1	12.13
			2	12.08
	11	2462	5.5	12.03
			11	11.97
			6	11.67
			9	11.64
			12	11.57
	1	2412	18	11.53
	·		24	11.46
an Hit			36	11.40
	- 10 to		48	11.33
Tin his jun not tab	立道學	wing Lav	54	11.24
ST CS CS	1190 rcs /		C 6	11.66
			9	11.57
			12	11.54
IEEE 802.11g	6	2437	18	11.47
IEEE 002.11g	O	2437	24	11.42
			36	11.37
			48	11.34
			54	11.30
			6	11.67
			9	11.63
			12	11.57
. A. 711	\$ <del>2.</del> 15		18	11.52
LCS TOST	ag Lab 11	2462		11.46
VIST CS Test		2402 LCS resting	36	11.40
			48	11.33
			54	11.23
			MCS0	11.59
			MCS1	11.53
			MCS2	11.47
			MCS3	11.43
	1	2412	MCS4	11.43
			MCS5	11.35
IEEE 802.11n HT20			MCS6	11.28
The field than		-md Hg 1/3	MCS7	11.22
Tab Millian Lab	上:T	Stind Fap	MCS0	11.63
L CS Testing	6	94179	MCS1	11.58
工 Tiff 拉测器分	6 1 108	2437	MCS2	11.53
			MCS3	11.46
			MCS4	11.40





Page 26 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

			MCS5	11.35
			MCS6	11.30
	- 60	·····································	MCS7	11.27
	4 17 17	sting Lab	MCS0	11.82
	MS Los T	12000	MCS1	11.75
	The same of the sa		MCS2	11.70
	44	0.460	MCS3	11.65
	11	2462	MCS4	11.61
			MCS5	11.57
			MCS6	11.53
			MCS7	11.49
			MCS0	10.36
			MCS1	10.31
			MCS2	10.26
		0.400	MCS3	10.21
LEST LCS TOPE	股份 3	2422	MCS4	10.14
	ua rap	Trilling per	MCS5	10.08
	\$ 9 Yr.	151 Les Tosung	MCS6	10.03
			MCS7	9.97
			MCS0	10.54
		2.427	MCS1	10.48
			MCS2	10.44
IEEE 000 44 JUT40			MCS3	10.37
IEEE 802.11n HT40	6	2437	MCS4	10.33
			MCS5	10.25
			MCS6	10.21
			MCS7	10.15
		-75	MCS0	10.30
	. /2	2011接付	MCS1	10.24
	<b>拉州</b> 斯	ring Lab	MCS2	10.17
	1931 LOST	0.450	MCS3	10.12
	9	2452	MCS4	10.05
			MCS5	10.00
			MCS6	9.94
			MCS7	9.89

**Note:** SAR is not required for the following 2.4 GHz OFDM conditions as the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.

















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## Page 27 of 78

#### **FCC ID: 2BANK-P-SERIES**

#### <WLAN 5.2G Conducted Power>

		Gondacted i	<u> </u>	
Mode	Channel	Frequency (MHz)	Average Conducted Output Power(dBm)	Worst Case Test Rate Data
	36	5180	11.47	MCS0
IEEE 802.11a	40	5200	11.10	MCS0
	48	5240	11.03	MCS0
	36	5180	11.52	MCS0
IEEE 802.11n HT20	40	5200	11.40	MCS0
	48	5240	11.44	MCS0
IEEE 902 115 UT40	38	5190	11.68	MCS0
IEEE 802.11n HT40	46	5230	11.37	MCS0
	36	5180	11.50	MCS0
IEEE 802.11ac VHT20	40	5200	11.70	MCS0
	48	5240	11.65	MCS0
IEEE 902 1100 V/LT40	38	5190	11.91	MCS0
IEEE 802.11ac VHT40	46	5230	11.24	MCS0
IEEE 802.11ac VHT80	42	5210	11.85	MCS0

#### <WLAN 5.8GHz Conducted Power>

	Mode	Channel	Frequency (MHz)	Conducted Output Power(dBm)
		149	5745	10.90
	802.11a	157	5785	10.91
. 47%		165	5825	10.47
THE SHAPE OF THE SHAPE		149	5745	11.29
Transing	802.11n(20MHz)	157	5785	10.67
Val Tru.		<sup>CS</sup> 165	5825	10.74
	902 11n/40MHz)	151	5755	11.57
	802.11n(40MHz)	159	5795	10.72
		149	5745	11.70
	802.11ac(20MHz)	157	5785	10.93
	` '	165	5825	10.39
	902 11cc/40MHz)	151	5755	11.12
	802.11ac(40MHz)	159	5795	10.80
	802.11ac(80MHz)	155	5775	11.66



Report No.: LCSA032123099EB



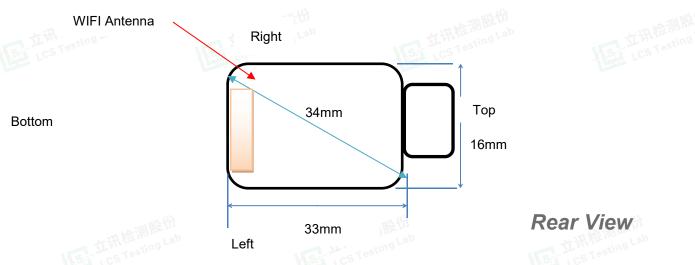
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Page 28 of 78

**FCC ID: 2BANK-P-SERIES** 

## 4.2. Transmit Antennas and SAR Measurement Position



#### Antenna information:

,		
WIFI Antenna	TX/RX	

#### Measured Position:

Position 1	Horizontal-Up
Position 2	Horizontal-Down
Position 3	Vertical-Front
Position 4	Vertical- Back

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北京 立语检测股份

化工作 在进行的 Testing Lab

Report No.: LCSA032123099EB



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Page 29 of 78 **FCC ID: 2BANK-P-SERIES** Report No.: LCSA032123099EB

## 4.3. SAR Measurement Results

The calculated SAR is obtained by the following formula:

Reported SAR=Measured SAR\*10<sup>(Ptarget-Pmeasured))/10</sup>

Scaling factor=10(Ptarget-Pmeasured))/10

Reported SAR= Measured SAR\* Scaling factor

#### Where

P<sub>target</sub> is the power of manufacturing upper limit;

P<sub>measured</sub> 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

**Duty Cycle** 

Test Mode		<b>Duty Cycle</b>	
WLAN2450	11 SEE 173	1:1	·····································
WLAN5200	El Pap	1:1	Lab Millian Lab
WLAN5800	Our	1:1	C5 Testing

#### 4.4.1 SAR Results

SAR Values [WIFI2.4G]

				O,	uv valaco [vvii	]				
Ch ·	Freq. (MHz)	Service	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (%)	Scaling Factor	SAR <sub>1-g</sub> res	ults(W/kg) Reported	Graph Results
	measured / reported SAR numbers - Body (distance 0mm)									
6	2437	802.11b	Position 1	12.55	13.00	-0.07	1.109	0.148	0.164	Plot 1
		il.)t	measu	red / reported .	SAR numbers - E	Body (dista	nce 0mm)			112
6	2437	802.11b	Position 2	12.55	13.00	-2.21	1.109	0.129	0.143	松测版小
	II W.	100 / 200	measu	red / reported	SAR numbers - E	Body (dista	nce 0mm)		拉加	Marking La
6	2437	802.11b	Position 3	12.55	13.00	-3.47	1.109	0.113	0.125	100
See	measured / reported SAR numbers - Body (distance 0mm)									
6	2437	802.11b	Position 4	12.55	13.00	1.96	1.109	0.099	0.110	

SAR Values [WIFI5.2G]

				<b>0</b> 7 (1)	values [vvii					
				Conducted	Maximum	Power		SAR <sub>1-g</sub> res	ults(W/kg)	
Ch	Freq. (MHz)	Service	Test Position	Power (dBm)	Allowed Power (dBm)	Drift (%)	Scaling Factor	Measured	Reported	Graph Results
			measur	red / reported SA	AR numbers - B	ody (dista	nce 0mm)			
38	5190	802.11ac VHT40	Position 1	11.91	12.00	-0.69	1.021	0.093	0.095	Plot 2
	w Walter	J. W. Tastin	measur	red / reported SA	AR numbers - B	ody (dista	nce 0mm)	T.	rasting	
38	5190	802.11ac VHT40	Position 2	11.91	12.00	4.74	1.021	0.086	0.088	
			measur	red / reported SA	AR numbers - B	ody (dista	nce 0mm)			
38	5190	802.11ac VHT40	Position 3	11.91	12.00	-0.12	1.021	0.067	0.068	
	measured / reported SAR numbers - Body (distance 0mm)									
38	5190	802.11ac VHT40	Position 4	11.91	12.00	-4.44	1.021	0.058	0.059	











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Page 30 of 78 FCC ID: 2BANK-P-SERIES

SAR Values [WIFI5.8G]

Report No.: LCSA032123099EB

				SAR	Values [WIF	I5.8G]				
	_			Conducted	Maximum	Power		SAR <sub>1-g</sub> res	ults(W/kg)	
Ch.	Freq. (MHz)	Service	Test Position	Power (dBm)	Power Rower	Drift (%)	Scaling Factor	Measured	Reported	Graph Results
N. D.	rcs.		measur	ed / reported SA	R numbers - Bo	ody (dista	nce 0mm)		May res	2
149	5745	802.11ac (20MHz)	Position 1	11.70	12.00	-0.50	1.072	0.084	0.090	Plot 3
			measur	ed / reported SA	R numbers - Bo	ody (dista	nce 0mm)			
149	5745	802.11ac (20MHz)	Position 2	11.70	12.00	-2.05	1.072	0.075	0.080	
			measur	ed / reported SA	R numbers - Bo	ody (dista	nce 0mm)			
149	5745	802.11ac (20MHz)	Position 3	11.70	12.00	-4.52	1.072	0.057	0.061	
	measured / reported SAR numbers - Body (distance 0mm)									
149	5745	802.11ac (20MHz)	Position 4	11.70	12.00	-3.33	1.072	0.044	0.047	

#### Remark:

- 1. The value with blue color is the maximum SAR Value of each test band.
- 2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq$  0.8 W/kg then testing at the other channels is optional for such test configuration(s).
- 3. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements.19 If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
- 4. 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  $\leq 1.2$  W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.







FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

#### 4.4.2 Standalone SAR Test Exclusion Considerations and Estimated SAR

Per KDB447498 requires when the standalone SAR test exclusion of section 4.3.1 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to determine simultaneous transmission SAR test exclusion;

• (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [  $\sqrt{f(GHz)/x}$ ] W/kg for test separation distances  $\leq 50$  mm;

where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

● 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm

Per FCC KD B447498 D01, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the transmitting antenna in a specific a physical test configuration is  $\leq$ 1.6 W/Kg. When the sum is greater than the SAR limit, SAR test exclusion is determined by the SAR to peak location separation ratio.

Ratio=
$$\frac{(SAR_1+SAR_2)^{1.5}}{(peak location separation,mm)} < 0.04$$

Estimated stand alone SAR						
Communication system	Frequency (MHz)	Configuration	Maximum Power (dBm)	Separation Distance (mm)	Estimated SAR <sub>1-g</sub> (W/kg)	
Bluetooth*	2450	Body-worn	/	5	/	

#### Remark:

- 1. Bluetooth\*- Including Lower power Bluetooth
- 2. Maximum average power including tune-up tolerance;
- 3. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion
- 4. Body as body use distance is 10mm from manufacturer declaration of user manual



Shenzhen LCS Compliance Testing Laboratory Ltd.



Page 32 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

## 4.4. SAR Measurement Variability

According to KDB865664, Repeated measurements are required only when the measured SAR is ≥ 0.80 W/kg. If the measured SAR value of the initial repeated measurement is < 1.45 W/kg with ≤ 20% variation, only one repeated measurement is required to reaffirm that the results are not expected to have substantial variations, which may introduce significant compliance concerns. A second repeated measurement is required only if the measured result for the initial repeated measurement is within 10% of the SAR limit and vary by more than 20%, which are often related to device and measurement setup difficulties. The following procedures are applied to determine if repeated measurements are required. 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.19 The repeated measurement results must be clearly identified in the SAR report. All measured SAR, including the repeated results, must be considered to determine compliance and for reporting according to KDB 690783.Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

- 1) When the original highest measured SAR is ≥ 0.80 W/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 (~ 10% from the 1-g SAR limit).
- 3) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20

							First Repeated	
	Frequency		RF		Repeated	Highest		Largest
	Band	Air Interface	Exposure	Test	SAR	Measured	Measued	to
	(MHz)	All Interface	Configuration	Position	(yes/no)	$SAR_{1-g}$	SAR <sub>1-g</sub>	Smallest
	(1711 12)		Configuration		(yes/110)	(W/Kg)	(W/Kg)	SAR
3								Ratio
	2450	2.4GWLAN	Standalone	Position 1	no	0.148	n/a	n/a
	5200	5.2GWLAN	Standalone	Position 1	no	0.093	n/a	n/a
	5800	5.8GWLAN	Standalone	Position 1	no	0.084	n/a	n/a

#### Remark:

 Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20 or 3 (1-g or 10-g respectively)

## 4.5. General description of test procedures

- 1. Test positions as described in the tables above are in accordance with the specified test standard.
- 2. Tests in body position were performed in that configuration, which generates the highest time based averaged output power (see conducted power results).
- 3. According to IEEE 1528 the SAR test shall be performed at middle channel. Testing of top and bottom channel is optional.
- 4. According to KDB 447498 D01 testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - $\leq$  0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transm0.105ission band is  $\leq$  100 MHz
  - $\bullet$  ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 5. IEEE 1528-2003 require the middle channel to be tested first. This generally applies to wireless devices that are designed to operate in technologies with tight tolerances for maximum output power variations across channels in the band. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.





Page 33 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

6. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements.19 If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.

7. 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, each band is tested independently for SAR.

# 4.6. Measurement Uncertainty (450MHz-6GHz)

Not required as SAR measurement uncertainty analysis is required in SAR reports only when the highest measured SAR in a frequency band is ≥ 1.5 W/kg for 1-g SAR according to KDB865664D01.





Page 34 of 78 **FCC ID: 2BANK-P-SERIES** Report No.: LCSA032123099EB

# 4.7. System Check Results

Test mode:2450MHz(Head) Product Description:Validation

Model:Dipole SID2450

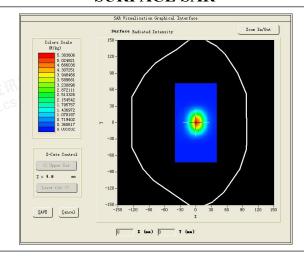
E-Field Probe: SSE2(SN 25/22 EPGO376)

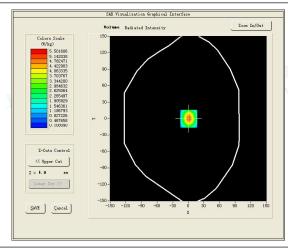
Test Date: March 24, 2023

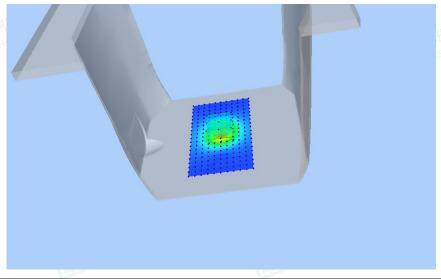
Medium(liquid type)	HSL_2450		
Frequency (MHz)	2450.0000		
Relative permittivity (real part)	39.76		
Conductivity (S/m)	1.77		
Input power	100mW		
Crest Factor	1.0 Tillian Lab		
Conversion Factor	2.60		
Variation (%)	0.110000		
SAR 10g (W/Kg)	2.563463		
SAR 1g (W/Kg)	5.421016		
·			

## **SURFACE SAR**

## **VOLUME SAR**









Shenzhen LCS Compliance Testing Laboratory Ltd.



Page 35 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

Test mode:5200MHz(Head) Product Description:Validation

Model:Dipole SID5000

E-Field Probe: SSE2(SN 25/22 EPGO376)

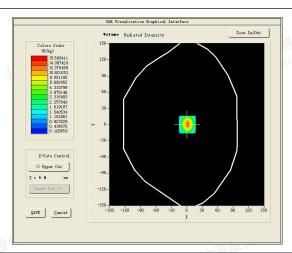
Test Date: March 29, 2023

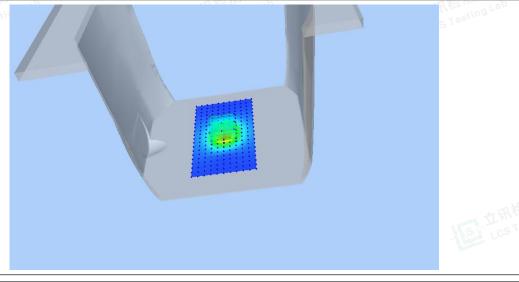
Medium(liquid type)	HSL _5000
Frequency (MHz)	5200.0000
Relative permittivity (real part)	36.82
Conductivity (S/m)	4.64
Input power	100mW
Crest Factor	1.0 II il ing Lab
Conversion Factor	1.85
Variation (%)	-3.690000
SAR 10g (W/Kg)	5.515210
SAR 1g (W/Kg)	15.408034

## **SURFACE SAR**

# 

## **VOLUME SAR**







Shenzhen LCS Compliance Testing Laboratory Ltd.



Page 36 of 78 FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

Test mode:5800MHz(Head) Product Description:Validation

Model:Dipole SID5000

E-Field Probe: SSE2(SN 25/22 EPGO376)

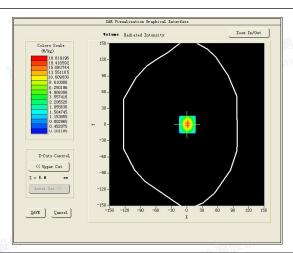
Test Date: April 06, 2023

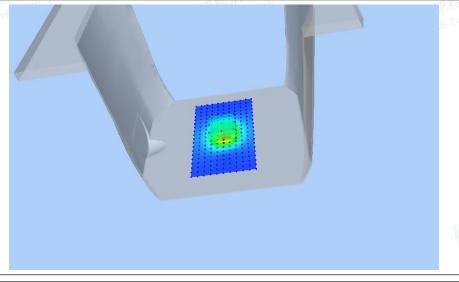
Medium(liquid type)	HSL _5000
Frequency (MHz)	5800.0000
Relative permittivity (real part)	36.46
Conductivity (S/m)	5.25
Input power	100mW
Crest Factor	1.0
Conversion Factor	2.01
Variation (%)	-1.320000
SAR 10g (W/Kg)	6.180085
SAR 1g (W/Kg)	18.264125

## **SURFACE SAR**

# 

## **VOLUME SAR**







Shenzhen LCS Compliance Testing Laboratory Ltd.



FCC ID: 2BANK-P-SERIES Report No.: LCSA032123099EB

# 4.8. SAR Test Graph Results

SAR plots for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination

Test Mode: 802.11b (WiFi2.4G), Middle channel (Test Position 1)

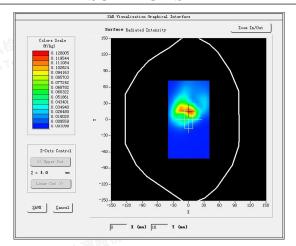
Product Description: WIFI Receiver Model: 600M Wireless USB Adapter

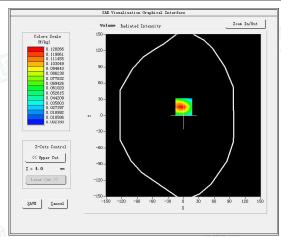
Test Date: March 24, 2023

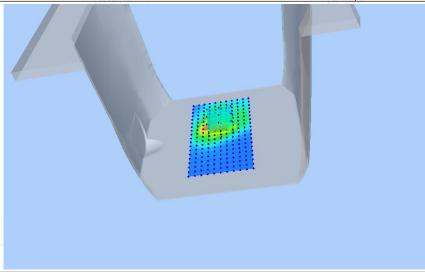
Medium(liquid type)	HSL 2450
Frequency (MHz)	2437.0000
Relative permittivity (real part)	39.48
Conductivity (S/m)	1.79
E-Field Probe	SN 25/22 EPGO376
Crest Factor	1.0
Conversion Factor	2.60
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.070000
SAR 10g (W/Kg)	0.064766
SAR 1g (W/Kg)	0.148012
SURFACE SAR	VOLUME SAR

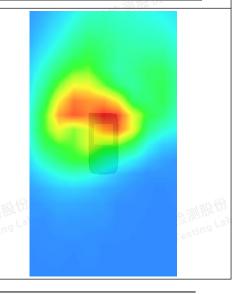
#### SURFACE SAR

## VOLUME SAR











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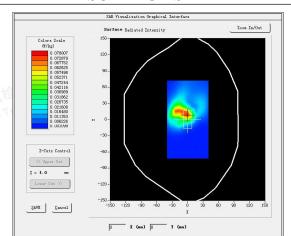


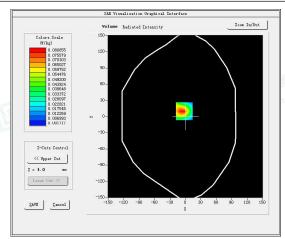
Test Mode: 802.11ac VHT40 (WiFi5.2G),Low channel (Test Position 1)

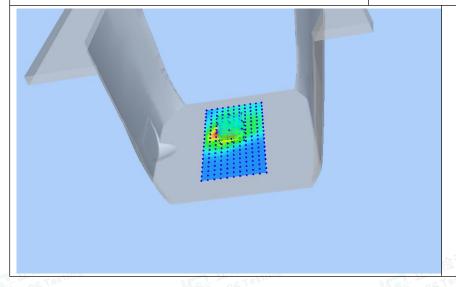
Product Description: WIFI Receiver Model: 600M Wireless USB Adapter

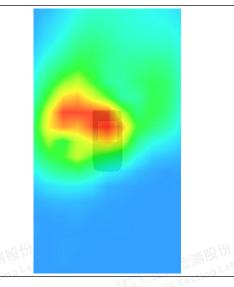
Test Date: March 29, 2023

Medium(liquid type)	HSL 5000
Frequency (MHz)	5190.0000
Relative permittivity (real part)	35.12
Conductivity (S/m)	4.65
E-Field Probe	SN 25/22 EPGO376
Crest Factor	1.0
Conversion Factor	1.85
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.690000
SAR 10g (W/Kg)	0.040224
SAR 1g (W/Kg)	0.093311
SURFACE SAR	VOLUME SAR





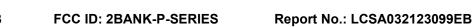






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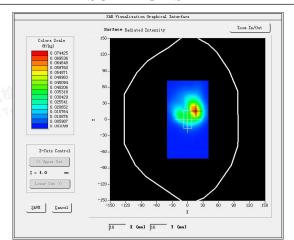


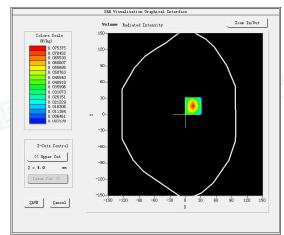
Test Mode: 802.11ac(20MHz) (WiFi5.8G),Low channel (Test Position 1)

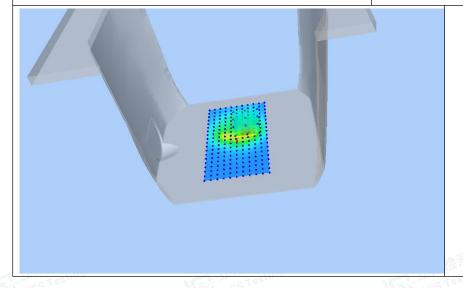
Product Description: WIFI Receiver Model: 600M Wireless USB Adapter

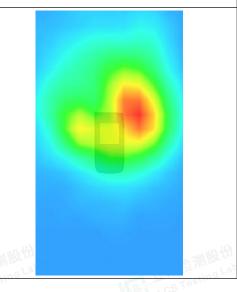
Test Date: April 06, 2023

Medium(liquid type)	HSL _5000
Frequency (MHz)	5745.0000
Relative permittivity (real part)	35.56
Conductivity (S/m)	5.26
E-Field Probe	SN 25/22 EPGO376
Crest Factor	1.0
Conversion Factor	2.01
Sensor	4mm
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Variation (%)	-0.500000
SAR 10g (W/Kg)	0.035480
SAR 1g (W/Kg)	0.083622
SURFACE SAR	<b>VOLUME SAR</b>











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