Address:



TEST REPORT

Applicant: Shenzhen Tinno Mobile Technology Corp

> 27-001, South side of Tianlong mobile HQ Building, Tongfa South Road, Xili Street, Nanshan District,

Shenzhen, Guangdong Province, 518000, China

Equipment Type: onn. 10.1" Tablet

Model Name: TBIND100135925 (refer to section 2.3)

Brand Name: onn.

FCC ID: XD6WM2310T

FCC 47 CFR Part 2.1093 **Test Standard:**

(refer to section 3.1)

Maximum SAR: Body (1 g@0mm): 1.19 W/kg

Sample Arrival Date: Dec. 11, 2023

Test Date: Jan. 02, 2024 - Jan. 03, 2024

Date of Issue: Jan. 11, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Xiong Lining Checked by: Xu Rui Approved by: Tolan Tu

(Testing Director)

Tolan In

Liong Li Wing Xu Rui

Tel: +86-755-66850100 E-mail: qc@baluntek.com Web: www.titcgroup.com Template No.: TRP-FCC DASY-Body-2 (2023-01-30) Add: Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China



Revision History

Version Issue Date

Revisions Content

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road,
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi
	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.
Location	China
Location	□ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park,
	No. 1008, Songbai Road, Yangguang Community, Xili Sub-district,
	Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation	The laboratory is a testing organization accredited by FCC as a
Certificate	accredited testing laboratory. The designation number is CN1196.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative	200/ 1- 700/
Humidity	30% to 70%



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shenzhen Tinno Mobile Technology Corp
	27-001, South side of Tianlong mobile HQ Building, Tongfa South
Address	Road, Xili Street, Nanshan District, Shenzhen, Guangdong Province,
	518000, China

2.2 Manufacturer Information

Manufacturer	Shenzhen Tinno Mobile Technology Corp
	27-001, South side of Tianlong mobile HQ Building, Tongfa South
Address	Road, Xili Street, Nanshan District, Shenzhen, Guangdong Province,
	518000, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	onn. 10.1" Tablet
Model Name Under Test	TBIND100135925
Series Model Name	TBPPY100135925, TBLVD100135925, TBVAN100135925
Description of Model Name Differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name and color. (this information provided by the customer)
Hardware Version	V1.0
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

	Battery		
	Brand Name	N/A	
	Model No.	U309395PV-1S2P	
Ancillary Equipment 1	Serial No.	N/A	
	Capacity	7300 mAh	
	Rated Voltage	3.80 V	
	Limit Charge Voltage	4.35 V	



2.5 Technical Information

	Bluetooth (BR+EDR+BLE)
Network and Wireless	2.4G WIFI 802.11b, 802.11g, 802.11n(HT20)
connectivity	5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
	U-NII-1/2A/2C/3, GPS

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	2.4G WLAN, 5G WLAN, Bluetooth			
	802.11b/g/ n(HT20)	2412 MHz ~ 2462 MHz		
	802.11a/	5150 MH	łz ~ 5250 MHz	
Frequency Range	n(HT20/HT40)	5250 MH	5250 MHz ~ 5350 MHz	
	/ac(VHT20/VHT40/	5470 MH	łz ~ 5725 MHz	
	VHT80)	5725 MH	łz ~ 5850 MHz	
	Bluetooth	2402 MHz ~ 2480 MHz		
Antenna Type	2.4G WLAN/Bluetooth: IFA Antenna			
Antenna Type	5G WLAN: LOOP Antenna			
Hotspot Function	N/A			
Exposure Category	General Population/Uncontrolled exposure			
Product Type	Portable Device			
EUT Type			☐ Identical prototype	



3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	No. Identity Document Title		
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices	
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure	
		to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz	
3	FCC KDB 447498	RF Exposure Procedures and Equipment Authorization Policies	
3	D04	for Mobile and Portable Devices	
4	FCC KDB 865664	SAR Measurement 100 MHz to 6 GHz	
4	D01 v01r04	SAR Measurement 100 MHz to 6 GHz	
5	FCC KDB 865664	RF Exposure Reporting	
5	D02 v01r02		
6	KDB 248227 D01	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters	
0	v02r02		
7	KDB 616217	SAR for laptop and tablets	
_ ′	D04v01r02		



3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

	SAR Value (W/Kg)			
Body Position	General Population/	Occupational/		
	Uncontrolled Exposure	ControlledExposure		
Whole-Body SAR	0.08	0.4		
(averaged over the entire body)	0.08	0.4		
Partial-Body SAR	1.60	8.0		
(averaged over any 1 gram of tissue)	1.00	8.0		
SAR for hands, wrists, feet and				
ankles	4.0	20.0		
(averaged over any 10 grams of tissue)				

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.



3.3 Test Result Summary

3.3.1 Highest SAR (1 g Value)

Equipment Class	Band	Antenna	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
			Body (0mm)	Body (0mm)
DTS	2.4G WLAN	1	1.19	
U-NII-2A	5.3G WLAN	2	1.16	
U-NII-2C	5.6G WLAN	2	1.02	1.19
U-NII-3	5.8G WLAN	2	1.18	
DSSS	Bluetooth	1	0.28	
Limit (W/kg)			1.	60
Verdict			Pa	ISS

3.3.2 Highest Simultaneous Transmission SAR Values (1 g Value)

Fautiament	Maximum Report SAR (W/kg)
Equipment Class	Body(0mm)
	1g SAR
NII	1.44
DSS	1.44
Limit (W/Kg)	1.6
Verdict	Pass

Note: The simultaneous transmission SAR detail please refer to section 12.

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3.4 Test Uncertainty

According to KDB 865664 D01, when the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 1.19 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.



4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an 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 general population/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 a given 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 measurement can be related to the electrical field in the tissue by

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

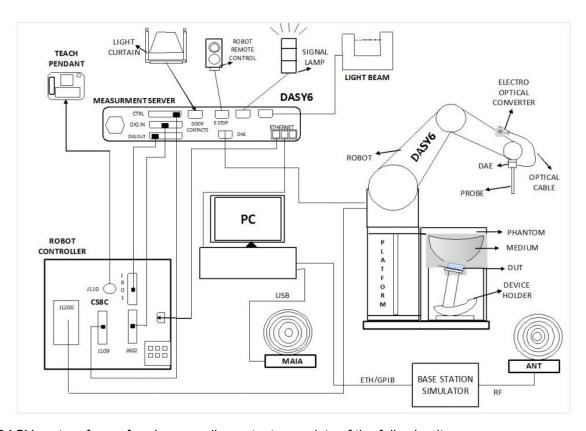
Where: σ is the conductivity of the tissue,

pis the mass density of the tissue and E is the RMS electrical field strength.



4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



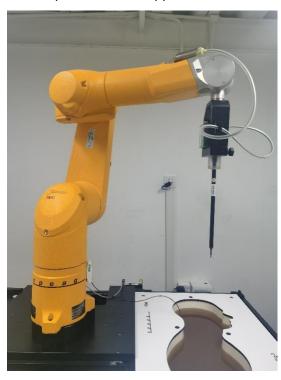
The DASY system for performing compliance tests consists of the following items:

- 1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- 2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, ADconversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is
 battery powered with standard or rechargeable batteries. The signal is optically transmitted to the
 EOC.
- 4. A unit to operate the optical surface detector which is connected to the EOC.
- 5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY measurement server.
- 6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
- 7. DASY software and SEMCAD data evaluation software.
- 8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
- 9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
- 10. The device holder for handheld mobile phones.
- 11. Tissue simulating liquid mixed according to the given recipes.
- 12. System validation dipoles allowing to validate the proper functioning of the system.



4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision (repeatability ±0.02 mm)
- High reliability (industrial design)
- Low maintenance costs
 (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brush less synchron motors; no stepper motors)
- Low ELF interference (motor control _elds shielded via the closed metallic construction shields)



4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4-SN: 7607 with following specifications is used.

Construction Symmetrical design with triangular core Built-in optical fiber for surface detection system

Built-in shielding against static charges PEEK enclosure material (resistant to organic

solvents, e.g., glycolether)

Calibration ISO/IEC 17025 calibration service available

Frequency 4 MHz to 10 GHz; Linearity: ± 0.2 dB

Directivity ± 0.2 dB in HSL (rotation around probe axis); ± 0.4 dB in HSL (rotation normal to probe

axis)

Dynamic range $5 \mu W/g$ to > 100 mW/g; Linearity: $\pm 0.2 dB$

Dimensions Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from

probe tip to dipole centers: 1.0 mm

Application General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic

scanning in arbitrary phantoms (EX3DV4)



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.



4.2.4 Data Acquisition Electronics

The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

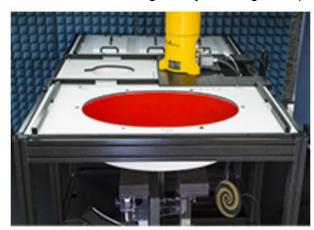


- Input Impedance: 200MOhm
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB



4.2.5 Phantoms

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of below 10 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209 Part II and all known tissue simulating liquids. ELI4 has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points.



·Flat phantom

Photo of Phantom SN2159



Serial Number	Shell Thickness (mm)	Major ellipse axis (mm)	Minor axis (mm)
SN 2159 ELI4	2.0 ± 0.2	600	400



4.2.6 Device Holder

The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.

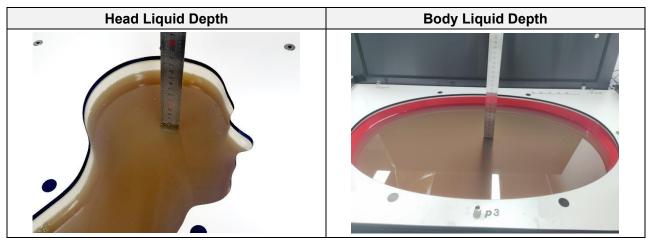


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.



4.2.7 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 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

The following table gives the recipes for tissue simulating liquid.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600- 10000V6	600-10000	Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4- diol, Alkoxylated alcohol



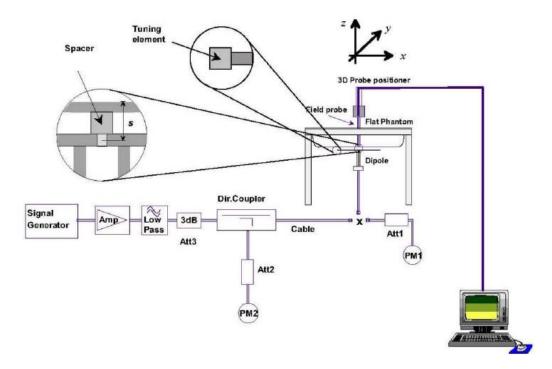
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:





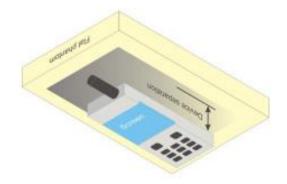
6 TEST POSITION CONFIGURATIONS

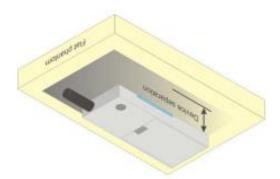
6.1 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance <= 5 mm to support compliance.

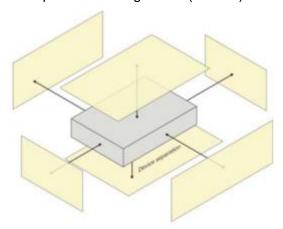






6.2 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for bodyworn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



6.3 Product Specific 10g Exposure Consideration

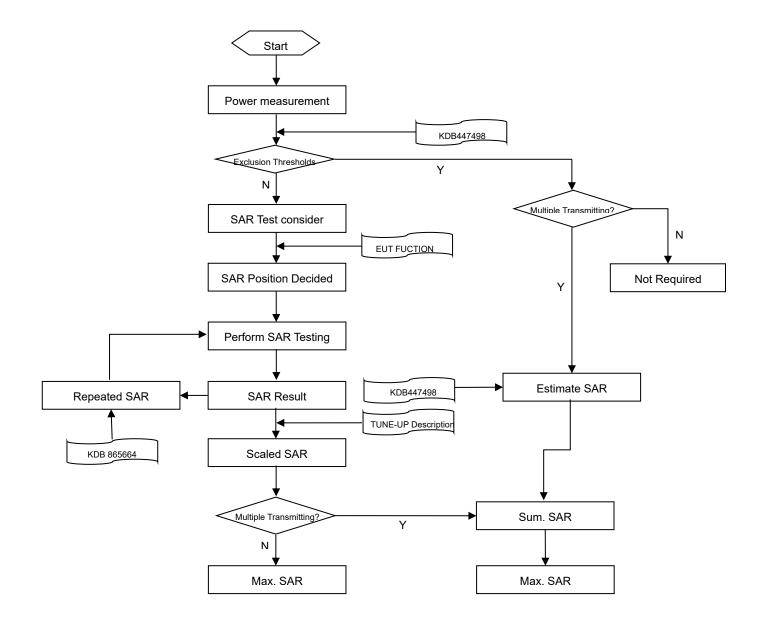
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at \leq 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.



7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram





7.2 SAR Scan General Requirement

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

			≤3GHz	>3GHz	
Maximum distance from (geometric center of prob		•	5±1 mm ½·δ·ln(2)±0.5 mr		
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1° 20°±1°		
Maximum area scan spatial resolution: Δx Area , Δy Area			\leq 2 GHz: \leq 15 mm 3–4 GHz: \leq 12 mm 2 – 3 GHz: \leq 12 mm 4 – 6 GHz: \leq 10 mm When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement		
Maximum zoom scan spa	Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom		point on the test device. ≤ 2 GHz: ≤ 8 mm 2 –3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
	unifor	m grid: Δz Zoom (n)	≤ 5 mm	3–4 GHz: ≤ 4 mm 4–5 GHz: ≤ 3 mm 5–6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm 4–5 GHz: ≤ 2.5 mm 5–6 GHz: ≤ 2 mm	
canaco	grid \(\Delta z Zoom (n>1):\) between subsequent points		≤ 1.5·∆z 2	Zoom (n-1)	
Minimum zoom scan volume		x, y, z	≥30 mm	3–4 GHz: ≥ 28 mm 4–5 GHz: ≥ 25 mm 5–6 GHz: ≥ 22 mm	

Note:

- 1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
- 2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

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7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 *32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7.5 Interim Procedures for WLAN 6E

Interim procedures for FCC radio frequency (RF) exposure evaluations of U-NII 6-7 GHz band portable devices have been made available during the TCB workshop in April 2021. The procedure is summarized below:

- a. Evaluate SAR / APD with DASY6 Module SAR V16.0 or higher. The configurations to be tested are defined in the relevant Knowledge Database (KDB). The psSAR and absorbed psPD are reported.
- b. 2. For the configuration with the highest SAR, evaluate the incident power density with DASY6 Module mmWave V2.4.2 or higher. The incident psPD must be adjusted per amount that the measurement uncertainty exceeds 30% before it is included in the test report.



8 CONDUCTED RF OUPUT POWER

8.1 WIFI

8.1.1 2.4G WIFI

Band	Mada	Charral	Freq.	Conducted	Tune-up	SAR Test
(GHz)	Mode	Channel	(MHz)	Power (dBm)	Limit (dBm)	Require.
		1	2412	14.10	14.50	Yes
	802.11b	7	2442	15.60	16.00	Yes
		13	2472	15.30	16.00	Yes
	802.11g	1	2412	15.73	16.00	No
2.4 (2.4~2.4835)		7	2442	15.85	16.00	No
(2.4*2.4033)		13	2472	15.90	16.00	No
		1	2412	12.77	14.50	No
	802.11n(HT20)	7	2442	15.81	16.00	No
		13	2472	15.85	16.00	No

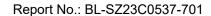
Note: According KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is \leq 1.2 W/kg.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = 1.192 * <math>(39.81 mW/28.18 mW) = 1.684 W/Kg, so the 2.4G OFDM SAR test is not required.



8.1.2 5G WIFI

Band		01 1	Freq.	Conducted	Tune-up Power	SAR Test
(GHz)	Mode	Channel	(MHz)	Power (dBm)	Limit (dBm)	Require.
		36	5180	12.44	12.50	No
	802.11a	44	5220	12.15	12.50	No
		48	5240	12.28	12.50	No
		36	5180	12.38	12.50	No
	802.11n(HT20)	44	5220	12.27	12.50	No
		48	5240	12.19	12.50	No
5.2	000 44=/UT40)	38	5190	12.39	12.50	Yes
(5.15~5.25)	802.11n(HT40)	46	5230	12.35	12.50	Yes
		36	5180	12.45	12.50	No
	802.11ac(VHT20)	44	5220	12.02	12.50	No
		48	5240	12.15	12.50	No
	900 11cc/\/LIT40\	38	5190	12.14	12.50	No
	802.11ac(VHT40)	46	5230	12.13	12.50	No
	802.11ac(VHT80)	42	5210	12.06	12.50	No
		52	5260	12.38	12.50	No
	802.11a	60	5300	12.10	12.50	No
		64	5320	12.17	12.50	No
		52	5260	12.26	12.50	No
	802.11n(HT20)	60	5300	12.39	12.50	No
		64	5320	12.43	12.50	No
5.3	902 11 _m /LIT40)	54	5270	12.36	12.50	Yes
(5.25~5.35)	802.11n(HT40)	62	5310	12.29	12.50	Yes
		52	5260	12.23	12.50	No
	802.11ac(VHT20)	60	5300	11.40	12.50	No
		64	5320	12.27	12.50	No
	802.11ac(VHT40)	54	5270	12.35	12.50	No
	002.11ac(V11140)	62	5310	12.47	12.50	No
	802.11ac(VHT80)	58	5290	12.49	12.50	Yes
		100	5500	12.46	12.50	No
	802.11a	116	5580	12.07	12.50	No
		140	5700	12.49	12.50	No
		100	5500	12.34	12.50	No
5.6	802.11n(HT20)	116	5580	12.02	12.50	No
(5.47~5.725)		140	5700	12.37	12.50	No
(0.77 0.720)		102	5510	12.29	12.50	Yes
	802.11n(HT40)	118	5590	12.35	12.50	Yes
		134	5670	12.06	12.50	Yes
	802.11ac(VHT20)	100	5500	12.32	12.50	No
	502.11d0(V11120)	116	5580	12.42	12.50	No





		140	5700	12.26	12.50	No
	802.11ac(VHT40)	102	5510	12.27	12.50	No
		118	5590	12.35	12.50	No
		134	5670	12.30	12.50	No
	000 44 () (LITOO)	106	5530	12.43	12.50	Yes
	802.11ac(VHT80)	122	5610	12.25	12.50	Yes
		149	5745	10.82	11.00	No
	802.11a	157	5785	10.62	11.00	No
		165	5825	10.71	11.00	No
		149	5745	10.29	11.00	No
	802.11n(HT20)	157	5785	10.58	11.00	No
		165	5825	10.61	11.00	No
5.8	000 44 - (UT40)	151	5755	10.70	11.00	No
(5.725~5.85)	802.11n(HT40)	159	5795	10.73	11.00	No
		149	5745	10.86	11.00	No
	802.11ac(VHT20)	157	5785	10.90	11.00	No
		165	5825	10.82	11.00	No
	000 44 () (UT40)	151	5755	10.92	11.00	No
	802.11ac(VHT40)	159	5795	10.86	11.00	No
	802.11ac(VHT80)	155	5775	10.78	11.00	Yes

Note: 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. If the highest reported SAR for a test configuration is \leq 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.



8.2 Bluetooth

8.2.1 Bluetooth

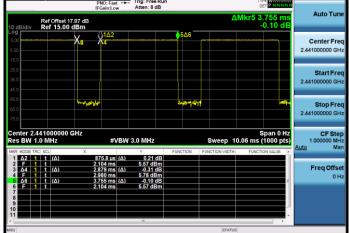
Mode	GFSK				π/4-DQPSK	
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	9.89	10.48	11.21	9.38	9.71	10.47
Tune-Up Limit (dBm)	10.00	11.00	12.00	10.00	10.00	11.00
SAR Test Require	Yes	Yes	Yes	No	No	No
Mode	8-DPSK			BLE-1Mbps		
Wode		0-DP3K			BLE-TIMBPS	
Channel	0	39	78	0	19	39
	0 2402	I	78 2480	0 2402		39 2480
Channel	-	39			19	
Channel Frequency (MHz)	2402	39 2441	2480	2402	19 2440	2480

Note: Since Bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is $\,\leqslant\,\,$ ¼ dB higher than the primary mode.

The Bluetooth duty cycle is 76.68 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation. **Duty Cycle**



Bluetooth-GFSK

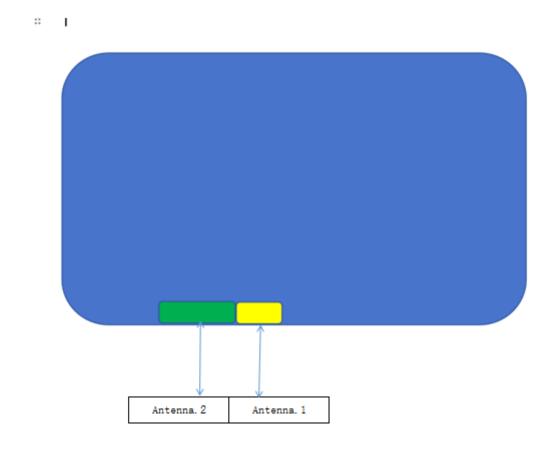




9 TEST EXCLUSION CONSIDERATION

9.1 Tablet Mode antenna location sketch

Back view



Antenna	Support Bands
Antenna.1	BT, WLAN 2.4G
Antenna.2	WLAN 5G



9.2 SAR Test Consideration Table

According with FCC KDB 447498 D04, Appendix B, The SAR-based exemption formula applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). The following table shows the power threshold from 5mm to 50mm.

	Power Thresholds (mW)							
Eroguanav	At separation	At separation	At separation	At separation	At separation			
Frequency (MHz)	distance of	distance of	distance of	distance of	distance of			
(IVITZ)	≤5 mm	10 mm	15 mm	20 mm	25 mm			
300	39 mW	65 mW	88 mW	110 mW	129 mW			
450	22 mW	44 mW	67 mW	89 mW	112 mW			
835	9 mW	25 mW	44 mW	66 mW	90 mW			
1900	3 mW	12 mW	26 mW	44 mW	66 mW			
2450	3 mW	10 mW	22 mW	38 mW	59 mW			
3600	2 mW	8 mW	18 mW	32 mW	49 mW			
5800	1 mW	6 mW	14 mW	25 mW	40 mW			
F=====================================	At separation	At separation	At separation	At separation	At separation			
Frequency	distance of	distance of	distance of	distance of	distance of			
(MHz)	30 mm	35 mm	40 mm	45 mm	50 mm			
300	148 mW	166 mW	184 mW	201 mW	217 mW			
450	135 mW	158 mW	180 mW	203 mW	226 mW			
835	116 mW	145 mW	175 mW	207 mW	240 mW			
1900	92 mW	122 mW	157 mW	195 mW	236 mW			
2450	83 mW	111 mW	143 mW	179 mW	219 mW			
3600	71 mW	96 mW	125 mW	158 mW	195 mW			
5800	58 mW	80 mW	106 mW	136 mW	169 mW			



9.2.1 Tablet mode SAR Test Consideration

This host is a notebook computer, under normal use the RF exposure scenarios are shown in the table below:

RF exposure Position	RF exposure scenarios					
Back Side	Body					
Left Edge	Body					
Right Edge	Body					
Top Edge	Body					
Bottom Edge	Body					

Aux. Antenna Limb RF exposure scenarios

	·	Aux. Antenna						
Test Position Configurations	Mode	Bluetooth	WLAN 2.4GHz	UNII-2A	UNII-2C	UNII-3		
Calcula	ated Frequency(MHz)	2480	2462	5320	5710	5825		
	Distance to User (mm)		5.00					
	Max. Peak Power (dBm)	12.00	16.00	12.50	12.50	11.00		
Back Side	Max. Peak Power (mW)	15.85	39.81	17.78	17.78	12.59		
	Exclusion Threshold (mW)	2.72	2.73	1.48	1.41	1.39		
	SAR Test Required	Yes	Yes	Yes	Yes	Yes		
	Distance to User (mm)			0				
	Max. Peak Power (dBm)	12.00	16.00	12.50	12.50	11.00		
Left Edge	Max. Peak Power (mW)	15.85	39.81	17.78	17.78	12.59		
	Exclusion Threshold (mW)	0.00	0.00	0.00	0.00	0.00		
	SAR Test Required	Yes	Yes	Yes	Yes	Yes		
	Distance to User (mm)	223.8						
	Max. Peak Power (dBm)	12.00	16.00	12.50	12.50	11.00		
Right Edge	Max. Peak Power (mW)	15.85	39.81	17.78	17.78	12.59		
	Exclusion Threshold (mW)	3790.82	3790.14	3861.58	3867.12	3869.45		
	SAR Test Required	No	No	No	No	No		
	Distance to User (mm)	53						
	Max. Peak Power (dBm)	12.00	16.00	12.50	12.50	11.00		
Top Edge	Max. Peak Power (mW)	15.85	39.81	17.78	17.78	12.59		
	Exclusion Threshold (mW)	243.85	244.36	196.00	192.70	191.34		
	SAR Test Required	No	No	No	No	No		
	Distance to User (mm)			350				
	Max. Peak Power (dBm)	12.00	16.00	12.50	12.50	11.00		
Bottom Edge	Max. Peak Power (mW)	15.85	39.81	17.78	17.78	12.59		
	Exclusion Threshold (mW)	8885.04	8877.18	9741.81	9811.59	9841.02		
	SAR Test Required	No	No	No	No	No		



Note:

- Maximum power is the source-based time-average power and represents the maximum RF output power including tuneup tolerance among production units
- 2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D04, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is
 5mm, 5mm is used to determine SAR exclusion threshold
- 4. Per KDB 447498 D04, for separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive), the threshold Pth (mW) is given by Following:

$$P_{th}(mW) = \begin{cases} ERP_{20cm}(d/20cm)^x & d \le 20cm \\ ERP_{20cm} & 20cm < d \le 40cm \end{cases}$$

where

$$x = -log_{10} \left(\frac{60}{ERP_{20cm} \sqrt{f}} \right)$$

- a. f(GHz) is the RF channel transmit frequency in GHz
- b. d is the separation distance (cm), The result is rounded to one decimal place for comparison
- c. ERP_{20cm} are determined by:

$$ERP_{20cm}(mW) = f(x) = \begin{cases} 2040f & 0.3GHz \le f < 1.5GHz \\ 3060 & 1.5GHz \le f \le 6GHz \end{cases}$$

- 5. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
- 6. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When KDB Publication 447498 D04 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.
- 7. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
 - a. 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. 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.
 - b. 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.
- 8. For Limb SAR, SAR test exemption considered by applying a factor of 2.5 to the applicable power level thresholds.

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10 TEST RESULT

10.1 Bluetooth

10.1.1 Bluetooth

Mode	Antenna	State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body-F	-66														
DH5	Antenna.1	Tablet	Back Side	0	78	2480	0.06	0.032	11.21	12.00	1.199	76.68	1.304	0.050	/
DHO	Antenna.1	rablet	Left Edge	0	78	2480	0.09	0.176	11.21	12.00	1.199	76.68	1.304	0.275	1#
Note: R	Note: Refer to ANNEX C for the detailed test data for each test configuration.														

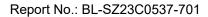
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10.2WIFI 2.4GHz

10.2.1 WIFI 2.4GHz Body SAR

Mode	Antenna	State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
			Back Side	0	6	2437	0.01	0.137	15.60	16.00	1.096	99.32	1.007	0.151	/
802.11b		Tablet	Left Edge	0	6	2437	0.06	1.080	15.60	16.00	1.096	99.32	1.007	1.192	2#
	Antenna.1		Left Edge	0	1	2412	0.04	1.050	14.10	14.50	1.096	99.32	1.007	1.159	/
			Left Edge	0	11	2462	0.03	0.817	15.30	16.00	1.175	99.32	1.007	0.967	/
Note: Refe	Note: Refer to ANNEX C for the detailed test data for each test configuration.														





10.3WIFI 5GHz

10.3.1 WIFI 5GHz Body SAR

M	ode	Antenna	State	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	1g Scaled SAR (W/kg)	Meas. No.
Body																
5.3G	802.11	Antenna.2	Tablet	Back Side	0	58	5290	0.04	0.073	12.49	12.50	1.002	87.93	1.137	0.083	/
5.3G	ac80	Antenna.2	Tablet	Left Edge	0	58	5290	0.08	1.020	12.49	12.50	1.002	87.93	1.137	1.162	3#
	000.44	Antenna.2	Antenna.2 Tablet	Back Side	0	106	5530	0.11	0.119	12.43	12.50	1.016	87.93	1.137	0.137	/
5.6G	802.11 ac80			Left Edge	0	106	5530	0.14	0.805	12.43	12.50	1.016	87.93	1.137	0.930	/
	ac80			Left Edge	0	122	5610	-0.13	0.843	12.25	12.50	1.059	87.93	1.137	1.015	4#
5.00	802.11		Tables	Back Side	0	155	5775	-0.11	0.085	10.78	11.00	1.052	87.93	1.137	0.102	/
5.8G	ac80	Antenna.2	Tablet	Left Edge	0	155	5775	0.03	0.988	10.78	11.00	1.052	87.93	1.137	1.182	5#
Note: Re	Note: Refer to ANNEX C for the detailed test data for each test configuration.															



11 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

- 1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
- 2. When the highest measured SAR is >= 0.80 W/kg, repeat that measurement once.
- 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, perform a second repeated measurement.
- 4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20, and the original, first or second repeated measurement is >= 1.5 W/kg, perform a third repeated measurement.

Frequency		DE Evenne		Highest	Repeated	Repeated1th	Largest to
Band	Band Wireless Band (MHz)	RF Exposure	Test Position	Measured SAR	SAR	Measured SAR	Smallest SAR
(MHz)		Conditions		(W/kg)	(Yes/No)	(W/kg)	Radio
2450	WIFI 2.4GHz	Body	Left Edge	1.080	Yes	1.040	1.04
5300	WIFI 5.3GHz	Body	Left Edge	1.020	Yes	0.990	1.03
5600	WIFI 5.6GHz	Body	Left Edge	0.843	Yes	0.822	1.02
5800	WIFI 5.8GHz	Body	Left Edge	0.988	Yes	0.981	1.01

Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20, the second repeated measurement. is not required.



12 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR). According KDB 447498 D04, simultaneous transmission:

- a) SPLSR = (SAR1 + SAR2)^{A1.5} / R_i (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)² + (y1-y2)² + (z1-z2)²], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan. SAR1 is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition. SAR2 is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition as the first.
- b) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
- c) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

12.1 Simultaneous Transmission Mode Considerations

No.	Simultaneous Tx Combination	Body		
1	Bluetooth + WLAN 5GHz	Yes		

Note:

- 1. When stand-alone SAR is not required for a side of antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
- 2. The maximum SAR summation is calculated based on the same configuration and test position.



12.2Sum SAR of Simultaneous Transmission

12.2.1 Body Simultaneous Transmission SAR Evaluation for WLAN Antenna with Bluetooth

	Position -	Stand al	one SAR	SUM SAR	
State		1	2	SUM SAR	
		Bluetooth	WLAN 5GHz MAX	Sum SAR	
		Bidelootii	WLAN SGI IZ WAX	(1+2)	
Tablet	Back Side 0mm	0.050	0.137	0.187	
Tablet	Left Edge 0mm	0.275	1.162	1.437	

Note:

^{1:} The highest Summed 10g SAR is 1.437 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.



13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY6	16.0.0.116	N/A	N/A
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2021/05/19	2024/05/18
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2021/05/18	2024/05/17
E-Field Probe	Speag	EX3DV4	SN: 7607	2023/07/04	2024/07/03
Data Acquisition Electronicsr	Speag	DAE4	SN: 878	2023/03/23	2024/03/22
Signal Generator	R&S	SMB100A	177746	2023/05/10	2024/05/09
Power Meter	R&S	NRVD-B2	835843/014	2023/09/05	2024/09/04
Power Sensor	R&S	NRV-Z4	100381	2023/09/05	2024/09/04
Power Sensor	R&S	NRV-Z2	100211	2023/09/05	2024/09/04
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/14
Thermometer	Elitech	RC-4	EF5238001628	2023/10/09	2024/10/09
Thermometer	Elitech	RC-4HC	EF7239002652	2023/11/17	2024/11/17
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	ELI V8.0	SN: 2159	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and 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 in within 20% of calibrated measurement.
- 4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.



ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using a DAK3.5 Dielectric Probe Kit.

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2024.01.02	Head	2450	21.7	1.80	39.48	1.80	39.20	0.00	0.71
2024.01.03	Head	5250	21.3	4.70	35.73	4.71	35.93	-0.21	-0.56
2024.01.03	Head	5600	21.3	5.05	35.14	5.07	35.53	-0.39	-1.10
2024.01.03	Head	5750	21.3	5.18	35.60	5.22	35.36	-0.77	0.68
Note: The tole	erance lim	nit of Cond	ductivity a	nd Permittivity is	s± 5%.	_		_	



ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within itsspecification of 10 %(for 1 g).

Data	Liquid	Freq.	Power	Measured	Normalized SAR	Dipole SAR	Tolerance
Date	Туре	(MHz)	(mW)	SAR (W/kg)	(W/kg)	(W/kg)	(%)
2024.01.02	Head	2450	100	5.43	54.30	53.00	2.45
2024.01.03	Head	5250	100	7.82	78.20	77.80	0.51
2024.01.03	Head	5600	100	8.11	81.10	81.20	-0.12
2024.01.03	Head	5750	100	7.76	77.60	77.20	0.52
Note: The tolerance	e limit of Syst	em validation	+10%				



System Performance Check Data (2450MHz)

Device under Test Properties

Model, Manufacturer Dimensions [mm] DUT Type
D2450V2, SPEAG 10.0 x 10.0 x 3.0 Dipole

Exposure Conditions

Phantom	Position,	Band	Group,	Frequency	Conversion	TSL	TSL	Ambient	Liquid
Section,	Test		UID	[MHz],	Factor	Conductivity	Permittivity	Temperature	Temperature
TSL	Distance			Channel		[S/m]		[°C]	[°C]
	[mm]			Number					
Flat,		D2450	CW,	2450.0,	7.47	1.80	39.5	22.5	21.7
HSL			0	2450					

Hardware Setup

 Phantom
 TSL, Measured Date
 Probe, Calibration Date
 DAE, Calibration Date

 Twin-SAM V5.0 (30deg
 HBBL-600-10000
 2024-01-02
 EX3DV4 - SN7607, 2023-07-04
 DAE4 Sn878, 2023-03-23

probe tilt) - 1859

Scan Setup			Measurement R	esults	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2024-01-02	2024-01-02
[mm]			psSAR1g	5.36	5.43
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	[W/kg]		
Sensor Surface	3.0	1.4	psSAR10g	2.58	2.53
[mm]			[W/kg]		
Graded Grid	Yes	Yes	Power Drift [dB]	-0.02	0.00
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor		
Surface	VMS + 6p	VMS + 6p	[dB]		
Detection			TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		80.4
			Dist 3dB Peak		8.9
			[mm]		

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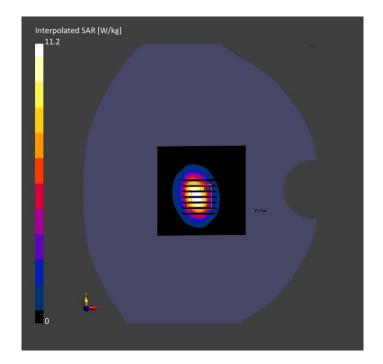
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System Performance Check Data (5250MHz)

Device under Test Properties

Dimensions [mm] **DUT Type** Model, Manufacturer D5GHZV2, SPEAG 10.0 x 10.0 x 3.0 Dipole

Exposure Conditions

Phantom	Position,	Band	Group,	Frequency	Conversion	TSL	TSL	Ambient	Liquid
Section,	Test		UID	[MHz],	Factor	Conductivity	Permittivity	Temperature	Temperature
TSL	Distance			Channel		[S/m]		[℃]	[℃]
	[mm]			Number					
Flat,		D5GHz	CW,	5250.0,	5.41	4.70	35.7	22.3	21.3
HSL			0	5250					

Hardware Setup

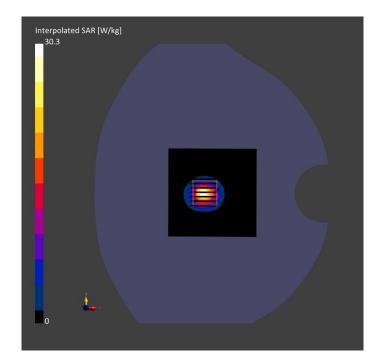
Phantom TSL, Measured Date Probe, Calibration Date DAE, Calibration Date Twin-SAM V5.0 (30deg HBBL-600-10000 2024-01-03 EX3DV4 - SN7607, 2023-07-04 DAE4 Sn878, 2023-03-23

probe tilt) - 1859

Scan Setup			Measurement R	esults	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	80.0 x 80.0	22.0 x 22.0 x 22.0	Date	2024-01-03	2024-01-03
[mm]			psSAR1g	7.42	7.82
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
Sensor Surface	3.0	1.4	psSAR10g	2.21	2.23
[mm]			[W/kg]		
Graded Grid	Yes	Yes	Power Drift [dB]	0.00	-0.12
Grading Ratio	1.5	1.4	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor		
Surface	VMS + 6p	VMS + 6p	[dB]		
Detection			TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		66.5
			Dist 3dB Peak		6.9
			[mm]		

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System Performance Check Data (5600MHz)

Device under Test Properties

Model, Manufacturer Dimensions [mm] DUT Type
D5GHzV2, SPEAG 10.0 x 10.0 x 3.0 Dipole

Exposure Conditions

Phantom	Position,	Band	Group,	Frequency	Conversion	TSL	TSL	Ambient	Liquid
Section,	Test		UID	[MHz],	Factor	Conductivity	Permittivity	Temperature	Temperature
TSL	Distance			Channel		[S/m]		[°C]	[°C]
	[mm]			Number					
Flat,		D5GHz	CW,	5600.0,	4.58	5.05	35.1	22.3	21.3
HSL			0	5600					

Hardware Setup

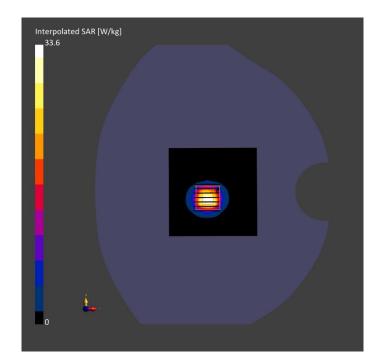
 Phantom
 TSL, Measured Date
 Probe, Calibration Date
 DAE, Calibration Date

 Twin-SAM V5.0 (30deg
 HBBL-600-10000
 2024-01-03
 EX3DV4 - SN7607, 2023-07-04
 DAE4 Sn878, 2023-03-23

probe tilt) - 1859

Scan Setup			Measurement R	esults	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	80.0 x 80.0	22.0 x 22.0 x 22.0	Date	2024-01-03	2024-01-03
[mm]			psSAR1g	6.90	8.11
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
Sensor Surface	3.0	1.4	psSAR10g	2.21	2.29
[mm]			[W/kg]		
Graded Grid	Yes	Yes	Power Drift [dB]	0.01	-0.02
Grading Ratio	1.5	1.4	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor		
Surface	VMS + 6p	VMS + 6p	[dB]		
Detection			TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		62.3
			Dist 3dB Peak		7.2
			[mm]		







System Performance Check Data (5750MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
D5GHzV2, SPEAG	10.0 x 10.0 x 3.0	Dipole

Exposure Conditions

Phanto	Position	Band	Group	Frequenc	Conversio	TSL	TSL	Ambient	Liquid
m	, Test		,	y [MHz],	n Factor	Conductivit	Permittivit	Temperatur	Temperatur
Section,	Distanc		UID	Channel		y [S/m]	у	е	е
				Ni				r%11	F%71
TSL	e [mm]			Number				[°C]	[°C]
Flat,	e [mm]	D5GH	CW,	5750.0,	4.78	5.18	35.6	22.3	21.3

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg	HBBL-600-10000 2024-01-03	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23
probe tilt) - 1859			

Scan Setup Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	80.0 x 80.0	22.0 x 22.0 x 22.0	Date	2024-01-03	2024-01-03
[mm]			psSAR1g	6.53	7.76
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4	[W/kg]		
Sensor Surface	3.0	1.4	psSAR10g	2.09	2.20
[mm]			[W/kg]		
Graded Grid	Yes	Yes	Power Drift [dB]	0.01	0.01
Grading Ratio	1.5	1.4	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor		
Surface	VMS + 6p	VMS + 6p	[dB]		
Detection			TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		60.1
			Dist 3dB Peak		7.4
			[mm]		

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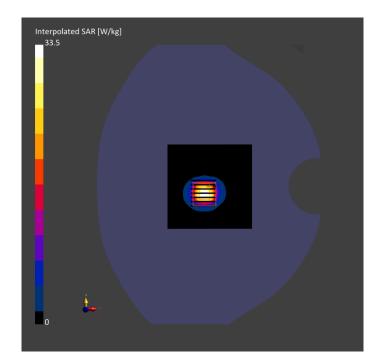
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ANNEX C TEST DATA

Meas.1Body Plane with Left Edge 0mm on 78 Channel in Bluetooth Mode with Antenna.1 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
T402AA	238.0 x 158.0 x 13.0	Tablet

Exposure Conditions

Phanto	Position	Ban	Group,	Frequenc	Conversio	TSL	TSL	Ambient	Liquid
m	, Test	d	UID	y [MHz],	n Factor	Conductivit	Permittivit	Temperatur	Temperatur
Section,	Distanc			Channel		y [S/m]	у	е	е
TSL	e [mm]			Number				[°C]	[℃]
Flat,	EDGE	ISM	Bluetooth	2480.0,	7.47	1.83	39.3	22.5	21.7
HSL	LEFT,	2.4	,	78					
	0.00	GHz	10032-						
		Band	CAA						

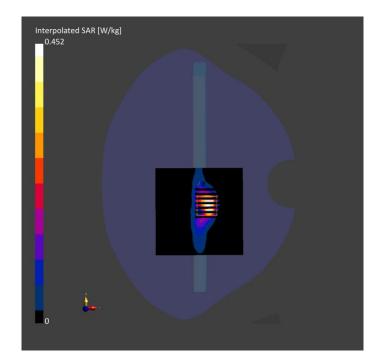
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg	HBBL-600-10000 2024-01-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23
probe tilt) - 1859			

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	96.0 x 96.0	30.0 x 30.0 x 30.0	Date	2024-01-02	2024-01-02
[mm]			psSAR1g	0.113	0.176
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0	[W/kg]		
Sensor Surface	3.0	1.4	psSAR10g	0.046	0.061
[mm]			[W/kg]		
Graded Grid	Yes	Yes	Power Drift [dB]	-0.00	0.09
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	Υ	N/A	Scaling Factor		
Surface	VMS + 6p	VMS + 6p	[dB]		
Detection			TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		37.0
			Dist 3dB Peak		4.0
			[mm]		







Meas.2 Body Plane with Left Edge 0mm on 6 Channel in IEEE802.11b Mode with Antenna.1 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
T402AA	238.0 x 158.0 x 13.0	Tablet

Exposure Conditions

Phanto	Position	Band	Group	Frequenc	Conversio	TSL	TSL	Ambient	Liquid
m	, Test		,	y [MHz],	n Factor	Conductivit	Permittivit	Temperatur	Temperatur
Section,	Distanc		UID	Channel		y [S/m]	у	е	е
TSL	e [mm]			Number				[°C]	[°]
Flat,	EDGE	WLAN	WLAN	2437.0,	7.47	1.78	39.5	22.5	21.7
HSL	LEFT,	2.4GH	,	6					
	0.00	z	10012-						
			CAB						

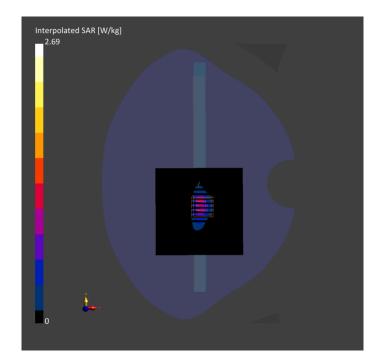
Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V5.0 (30deg	HBBL-600-10000 2024-01-02	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23
probe tilt) - 1859			

Scan Setup Measurement Results

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	96.0 x 96.0	30.0 x 30.0 x 30.0	Date	2024-01-02	2024-01-02
[mm]			psSAR1g	0.890	1.08
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0	[W/kg]		
Sensor Surface	3.0	1.4	psSAR10g	0.370	0.377
[mm]			[W/kg]		
Graded Grid	Yes	Yes	Power Drift [dB]	0.00	0.06
Grading Ratio	1.5	1.5	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor		
Surface	VMS + 6p	VMS + 6p	[dB]		
Detection			TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		37.0
			Dist 3dB Peak		4.0
			[mm]		







Meas.3 Body Plane with Left Edge 0mm on 58 Channel in IEEE802.11ac80 Mode with Antenna.2 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
T402AA	238.0 x 158.0 x 13.0	Tablet

Exposure Conditions

Phanto	Position	Band	Group	Frequenc	Conversio	TSL	TSL	Ambient	Liquid
m	, Test		,	y [MHz],	n Factor	Conductivit	Permittivit	Temperatur	Temperatur
Section,	Distanc		UID	Channel		y [S/m]	у	е	е
TSL	e [mm]			Number				[°C]	[C]
Flat,	EDGE	WLA	WLAN,	5290.0,	5.41	4.81	35.0	22.3	21.3
HSL	LEFT,	N	10544-	58					
	0.00	5GHz	AAC						

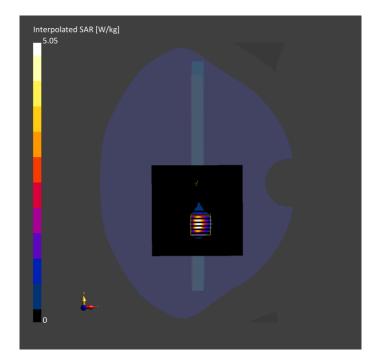
Hardware Setup

Phantom		TSL, Measured Da	ate	Probe, Calibration Date	DAE, Calibration Date	
Twin-SAM V5.0	(30deg	HBBL-600-10000	2024-01-03	EX3DV4 - SN7607, 2023-07-04	DAE4 Sn878, 2023-03-23	
probe tilt) - 1859						

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	100.0 x 100.0	24.0 x 24.0 x 22.0	Date	2024-01-03	2024-01-03
[mm]			psSAR1g	0.805	1.02
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0	[W/kg]		
Sensor Surface	3.0	1.4	psSAR10g	0.212	0.221
[mm]			[W/kg]		
Graded Grid	Yes	Yes	Power Drift [dB]	0.04	0.08
Grading Ratio	1.5	1.4	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor		
Surface	VMS + 6p	VMS + 6p	[dB]		
Detection			TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		48.7
			Dist 3dB Peak		4.0
			[mm]		







Meas.4 Body Plane with Left Edge 0mm on 122 Channel in IEEE802.11ac80 Mode with Antenna.2 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
T402AA	238.0 x 158.0 x 13.0	Tablet

Exposure Conditions

Phanto	Position	Band	Group	Frequenc	Conversio	TSL	TSL	Ambient	Liquid
m	, Test		,	y [MHz],	n Factor	Conductivit	Permittivit	Temperatur	Temperatur
Section,	Distanc		UID	Channel		y [S/m]	у	е	е
TSL	e [mm]			Number				[°C]	[C]
Flat,	EDGE	WLA	WLAN,	5610.0,	4.58	5.07	35.0	22.3	21.3
HSL	LEFT,	N	10544-	122					
	0.00	5GHz	AAC						

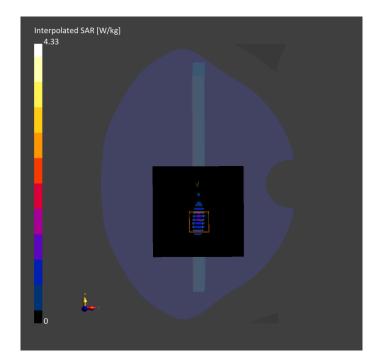
Hardware Setup

Phantom			TSL, Measured Da	ate	Probe, Calibration I	Date	DAE, Calibration Date	
Twin-SAM	V5.0	(30deg	HBBL-600-10000	2024-01-03	EX3DV4 - SN7607, 2	2023-07-04	DAE4 Sn878, 2023-03-2	23
probe tilt) -	1859							

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	100.0 x 100.0	24.0 x 24.0 x 22.0	Date	2024-01-03	2024-01-03
[mm]			psSAR1g	0.789	0.843
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0	[W/kg]		
Sensor Surface	3.0	1.4	psSAR10g	0.230	0.220
[mm]			[W/kg]		
Graded Grid	Yes	Yes	Power Drift [dB]	0.11	-0.13
Grading Ratio	1.5	1.4	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor		
Surface	VMS + 6p	VMS + 6p	[dB]		
Detection			TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		43.9
			Dist 3dB Peak		4.7
			[mm]		







Meas.5 Body Plane with Left Edge 0mm on 155 Channel in IEEE802.11ac80 Mode with Antenna.2 Device under Test Properties

Model, Manufacturer	Dimensions [mm]	DUT Type
T402AA	238.0 x 158.0 x 13.0	Tablet

Exposure Conditions

Phanto	Position	Band	Group	Frequenc	Conversio	TSL	TSL	Ambient	Liquid
m	, Test		,	y [MHz],	n Factor	Conductivit	Permittivit	Temperatur	Temperatur
Section,	Distanc		UID	Channel		y [S/m]	у	е	е
TSL	e [mm]			Number				[°C]	[°]
Flat,	EDGE	WLA	WLAN,	5775.0,	4.78	5.22	35.3	22.3	21.3
HSL	LEFT,	N	10402-	155					
	0.00	5GHz	AAE						

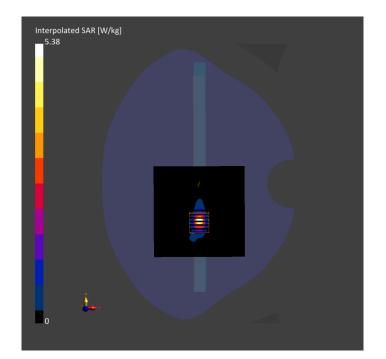
Hardware Setup

Phantom		TSL, Measured Da	ate	Probe, Calibration	Date	DAE, Calibration Date		
Twin-SAM	V5.0	(30deg	HBBL-600-10000	2024-01-03	EX3DV4 - SN7607,	2023-07-04	DAE4 Sn878, 2023-03-23	
probe tilt) -	1859							

Scan Setup

	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	100.0 x 100.0	24.0 x 24.0 x 22.0	Date	2024-01-03	2024-01-03
[mm]			psSAR1g	0.921	0.988
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0	[W/kg]		
Sensor Surface	3.0	1.4	psSAR10g	0.211	0.206
[mm]			[W/kg]		
Graded Grid	Yes	Yes	Power Drift [dB]	0.03	0.03
Grading Ratio	1.5	1.4	Power Scaling	Disabled	Disabled
MAIA	N/A	N/A	Scaling Factor		
Surface	VMS + 6p	VMS + 6p	[dB]		
Detection			TSL Correction	No correction	No correction
Scan Method	Measured	Measured	M2/M1 [%]		46.5
			Dist 3dB Peak		4.3
			[mm]		







ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ23C0537-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ23C0537-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "BL-SZ23C0537-AC.pdf".

ANNEX G TUNE-UP PROCEDURE

Please refer the document "BL-SZ23C0537-AT.pdf".

Report No.: BL-SZ23C0537-701



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