

TEST REPORT

Applicant: ZHUHAI QUIN TECHNOLOGY CO., LTD.

ROOM 103-029(CENTRALIZED OFFICE AREA),

Address: 1F, BUILDING 1, NO. 18 FUTIAN ROAD,

XIANGZHOU DISTRICT, ZHUHAI CITY, CHINA

Equipment Type: Portable Printer

Model Name: G100 (refer to section 2.3)

Brand Name: N/A

FCC ID: 2ASRB-G100

Test Standard: FCC 47 CFR Part 2.1093

(refer to section 3.1)

Maximum SAR: Body 2.4GHz(1 g): 0.96 W/kg

Sample Arrival Date: Oct. 13, 2024

Test Date: Oct. 27, 2024

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ISSUED BY:

Guo Guang Wei

Shenzhen BALUN Technology Co., Ltd.

Tested by: Guo Guangwei Checked by: Xu Rui Approved by: Tolan Tu

(Testing Director)

Tolan lu

Xu Rui



Revision History

Version

Issue Date

Revisions Content

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Initial Issue

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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,
Audiess	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. 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	
Acara ditation Cartificate	The laboratory is a testing organization accredited by FCC as a	
Accreditation Certificate	accredited testing laboratory. The designation number is CN1196.	

1.3 Test Environment Condition

Ambient Temperature	18℃ to 25℃	
Ambient Relative	200/ to 700/	
Humidity	30% to 70%	



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	ZHUHAI QUIN TECHNOLOGY CO., LTD.
	ROOM 103-029(CENTRALIZED OFFICE AREA), 1F, BUILDING 1,
Address	NO. 18 FUTIAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY,
	CHINA

2.2 Manufacturer Information

Manufacturer	ZHUHAI QUIN TECHNOLOGY CO., LTD.
	ROOM 103-029(CENTRALIZED OFFICE AREA), 1F, BUILDING 1,
Address	NO. 18 FUTIAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY,
	CHINA

2.3 General Description for Equipment under Test (EUT)

EUT Name	Portable Printer
Model Name Under Test	G100
Series Model Name	G110, G120, G130, G140, G150, AM-G1, AM-GT1, AM-G2, AM-GT2, H100, H110, H120
Description of Model name differentiation	The only differences between these models are model name and appearance. They are electrically identical. (this information provided by the applicant)
Hardware Version	Q357_A
Software Version	0.0.9.C
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

	Battery	
	Brand Name	N/A
	Model No.	N/A
Ancillary Equipment 1	Serial No.	N/A
	Capacitance	N/A
	Rated Voltage	14.8 V
	Limited Voltage	N/A



2.5 Technical Information

Network and Wireless	Bluetooth (BR+EDR+BLE)
connectivity	WIFI 802.11b, 802.11g, 802.11n

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

Operating Mode	2.4G WLAN; Bluetooth	
Eroguanov Panga	802.11b/g/n(HT20)	2412 ~ 2462 MHz
Frequency Range	Bluetooth	2402 ~ 2480 MHz
Antenna Type	WLAN	FPC Antenna
	Bluetooth	FPC Antenna
Hotspot Function	N/A	
Exposure Category	General Population/Uncontrolled exposure	
Product Type	Portable Device	
EUT Type		☐ Identical prototype



SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title	
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices	
		IEEE Standard for Safety Levels with Respect to Human	
2	ANSI C95.1-1992	Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to	
		300 GHz	
3	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01	
4	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz	
5	KDB 865664 D02 v01r02	RF Exposure Reporting	
6	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters	



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	Controlled Exposure		
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)

		Maximum Scaled	Maximum Report
Equipment Class	Band	SAR (W/kg)	SAR (W/kg)
		Body (0mm)	Body (0mm)
DTS	2.4G WIFI	0.96	0.00
DSS	Bluetooth	0.49	0.96
Limit (W/kg)		1.60	
Verdict		Pa	ISS



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 0.96 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

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

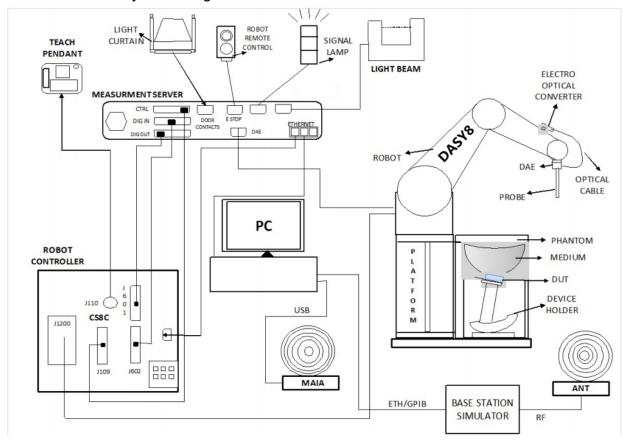
Where: σ is the conductivity of the tissue,

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



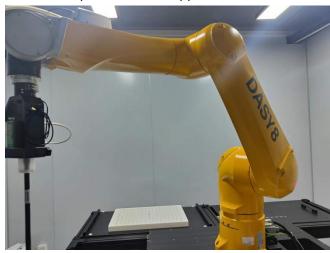
The DASY system for performing compliance tests consists of the following items:

- 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: 7510 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)

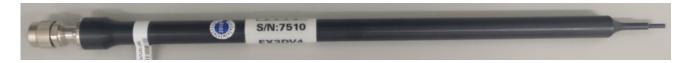
Dynamic range $5 \mu \text{W/g}$ to > 100 mW/g; Linearity: $\pm 0.2 \text{ dB}$

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

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- ·Left hand
- ·Right hand
- ·Flat phantom

Photo of Phantom SN1859



Serial Number	Material	Length	Height
SN 1859 SAM	Vinylester, glass fiber reinforced	1000	500



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.

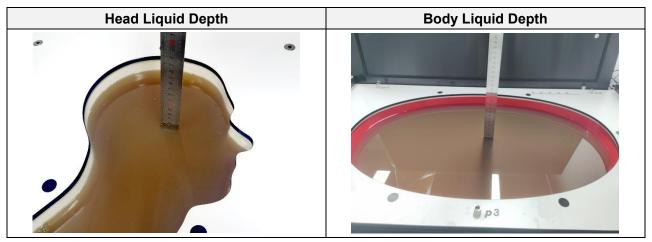


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.



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



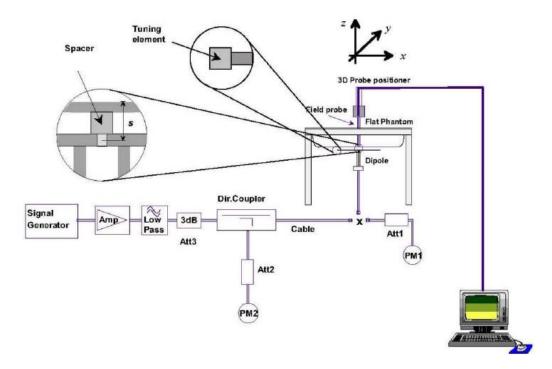
SYSTEM VERIFICATION

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:

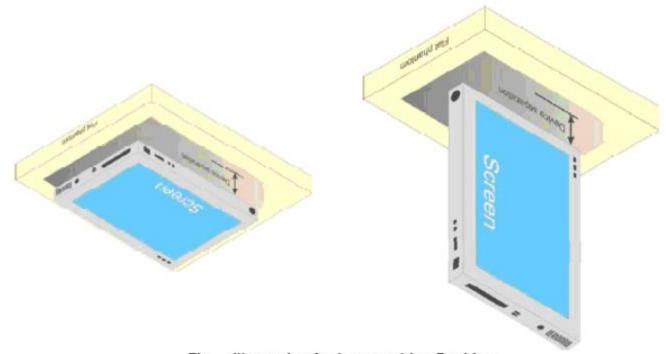




TEST POSITION CONFIGURATIONS

6.1 Tablet Exposure Condition

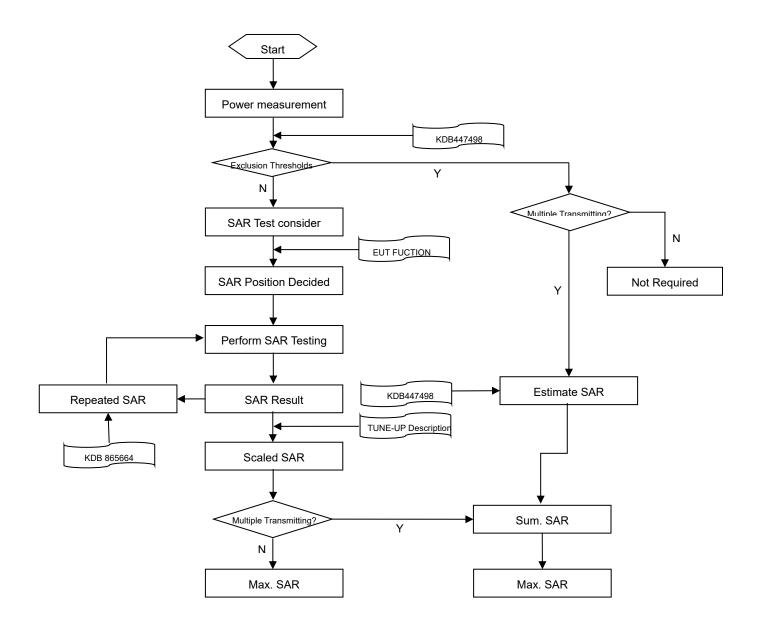
This DUT was tested in six different positions. They are Front Side, Back Side, Left Edge, Right Edge, Top Edge and Bottom Edge in these positions, the surface of DUT is touching with phantom 0mm.





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

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5±1 mm	½·δ·ln(2)±0.5 mm	
Maximum probe angle from	•	is to phantom surface	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 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 point on the test device.	
Maximum zoom scan spa	Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom		≤ 2 GHz: ≤ 8 mm 2 –3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
	uniform gr	id: 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
grid Δz Zoom (n>1):		between subsequent	≤ 1.5·Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm 4–5 GHz: ≥ 25 mm 5–6 GHz: ≥ 22 mm

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.



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.



8 CONDUCTED RF OUPUT POWER

8.1 WIFI

8.1.1 2.4G WIFI

Danid (CHE)	Mode	Charrel	Fra. (MALIE)	Conducted	Tune-up	SAR Test
Band (GHz)	Mode	Channel	Freq. (MHz)	Power (dBm)	Limit (dBm)	Require.
		1	2412	14.37	15.00	Yes
	802.11b	6	2437	13.24	13.50	Yes
		11	2462	13.05	13.50	Yes
		1	2412	14.77	15.00	No
2.4	802.11g	6	2437	13.83	14.00	No
		11	2462	13.63	14.00	No
		1	2412	13.75	9.00	No
	802.11n(HT20)	6	2437	12.79	9.00	No
		11	2462	12.59	9.00	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 $\leq 1.2 \text{ W/kg}$.

Adjusted SAR = Report SAR * (max power (OFDM)/ max power (DSSS)) = 0.961 * (31.62mW/39.81mW) = 0.961 W/Kg, so the 2.4G OFDM SAR test is not required.



8.2 Bluetooth

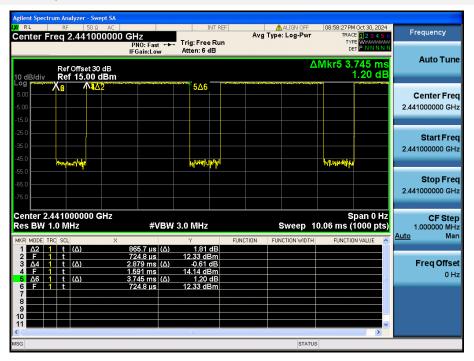
Mode	GFSK				π/4-DQPSK	
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	8.67	7.23	6.52	9.98	8.48	7.63
Tune-Up Limit (dBm)	9.00	9.00	8.00	10.50	9.00	8.00
SAR Test Require	No	No	No	Yes	No	No
Mode		BLE-1Mbps		BLE-2Mbps		
Channel	0	19	39	1	19	38
Frequency (MHz)	2402	2440	2480	2404	2440	2478
Average Power (dBm)	-3.27	-5.28	-6.79	-2.61	-4.50	-6.08
Tune-Up Limit (dBm)	-3.00	-3.00	-4.00	-2.00	-4.00	-4.00
SAR Test Require	No	No	No	No	No	No

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 \leq ½ dB higher than the primary mode.

The Bluetooth duty cycle is 76.88% 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

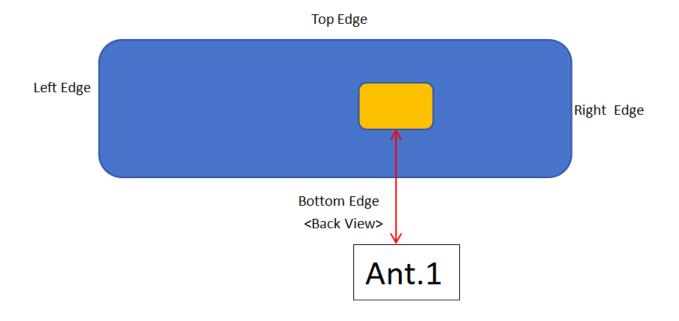
Bluetooth-2DH5





9 TEST EXCLUSION CONSIDERATION

9.1 Antenna Location Sketch



Antenna	Support Bands
Ant.1	WIFI2.4G&BT



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)					
Fraguency	At separation	At separation	At separation	At separation	At separation	
Frequency	distance of	distance of	distance of	distance of	distance of	
(MHz)	≤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	
	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 SAR Test Consideration

This host is a Handheld Console PC, under normal use the RF exposure scenarios are shown in the table below:

RF Exposure Position	RF Exposure Scenarios
Front Side	Body
Back Side	Body
Left Edge	Body
Right Edge	Body
Top Edge	Body
Bottom Edge	Body

Body RF exposure scenarios

Test Position Configurations	Mode	Bluetooth	WLAN 2.4GHz
Calculated Frequency(MHz)		2480	2462
	Distance to User (mm)	15	
	Max. Peak Power (dBm)	10.00	15.00
Front Side	Max. Peak Power (mW)	10.00	31.62
	Exclusion Threshold (mW)	22.03	22.12
	SAR Test Required	Yes	Yes
	Distance to User (mm)	1	5
	Max. Peak Power (dBm)	10.00	15.00
Back Side	Max. Peak Power (mW)	10.00	31.62
	Exclusion Threshold (mW)	22.03	22.12
	SAR Test Required	Yes	Yes
	Distance to User (mm)	13	35
	Max. Peak Power (dBm)	10.00	15.00
Left Edge	Max. Peak Power (mW)	10.00	31.62
	Exclusion Threshold (mW)	1447.37	1448.27
	SAR Test Required	No	No
	Distance to User (mm)	105	
	Max. Peak Power (dBm)	10.00	15.00
Right Edge	Max. Peak Power (mW)	10.00	31.62
	Exclusion Threshold (mW)	896.77	897.69
	SAR Test Required	No	No
	Distance to User (mm)	2	0
	Max. Peak Power (dBm)	10.00	15.00
Top Edge	Max. Peak Power (mW)	10.00	31.62
	Exclusion Threshold (mW)	38.10	38.24
	SAR Test Required	Yes	Yes
Dotton: Cdr.	Distance to User (mm)	2	0
Bottom Edge	Max. Peak Power (dBm)	10.00	15.00



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Max. Peak Power (mW)	10.00	31.62
Exclusion Threshold (mW)	38.10	38.24
SAR Test Required	Yes	Yes

Note:

- 1. 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 < 3. 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
- Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions. 6.
 - 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.

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10 TEST RESULT

- 1. The reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WIFI signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)".
 - c. For WIFI/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 2. Absorbed power density (APD) using a 4cm2 averaging area is reported based on SAR measurements.
- 3. Per KDB 447498 D04, for each exposure position, 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 midband or highest output power channel is:
 - $\cdot \leqslant 0.8$ W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is $\leqslant 100$ MHz
 - $\cdot \leqslant 0.6$ 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
 - $\cdot \leqslant 0.4$ W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 4. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is \ge 0.8W/kg



10.1WIFI 2.4GHz

Antenn a	Battery manufacturer	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Body															
		802.11b	Front Side	0	1	2412	0.07	0.774	14.37	15.00	1.156	100.00	1.000	0.895	/
		802.11b	Back Side	0	1	2412	0.11	0.044	14.37	15.00	1.156	100.00	1.000	0.051	/
		802.11b	Top Edge	0	1	2412	0.03	0.025	14.37	15.00	1.156	100.00	1.000	0.029	/
	JINLU	802.11b	Bottom Edge	0	1	2412	0.06	0.083	14.37	15.00	1.156	100.00	1.000	0.096	/
		802.11b	Front Side	0	6	2437	0.12	0.723	13.24	13.50	1.062	100.00	1.000	0.768	/
A = 4.4		802.11b	Front Side	0	11	2462	-0.04	0.707	13.05	13.50	1.109	100.00	1.000	0.784	/
Ant.1		802.11b	Front Side	0	1	2412	0.03	0.831	14.37	15.00	1.156	100.00	1.000	0.961	1#
		802.11b	Back Side	0	1	2412	-0.16	0.056	14.37	15.00	1.156	100.00	1.000	0.065	/
	VINIVEDA	802.11b	Top Edge	0	1	2412	-0.12	0.032	14.37	15.00	1.156	100.00	1.000	0.037	/
	XINKEDA	802.11b	Bottom Edge	0	1	2412	0.09	0.098	14.37	15.00	1.156	100.00	1.000	0.113	/
		802.11b	Front Side	0	6	2437	0.16	0.755	13.24	13.50	1.062	100.00	1.000	0.802	/
		802.11b	Front Side	0	11	2462	-0.13	0.763	13.05	13.50	1.109	100.00	1.000	0.846	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.2 Bluetooth

Antenn a Body	Battery manufacturer	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune- power (dBm)	Scaling Factor	Duty Cycle (%)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
		2DH5	Front Side	0	0	2402	0.02	0.242	9.98	10.50	1.127	76.88	1.301	0.355	/
	JINLU	2DH5	Back Side	0	0	2402	0.03	0.005	9.98	10.50	1.127	76.88	1.301	0.007	/
	JINLO	2DH5	Top Edge	0	0	2402	0.01	0.003	9.98	10.50	1.127	76.88	1.301	0.004	/
		2DH5	Bottom Edge	0	0	2402	0.15	0.002	9.98	10.50	1.127	76.88	1.301	0.003	/
Ant.1		2DH5	Front Side	0	0	2402	0.01	0.332	9.98	10.50	1.127	76.88	1.301	0.487	2#
Ant.i		2DH5	Front Side	0	39	2441	0.070	0.233	8.480	9.00	1.127	76.88	1.301	0.342	/
	XINKEDA	2DH5	Front Side	0	78	2480	-0.050	0.277	7.630	8.00	1.089	76.88	1.301	0.392	/
	AIIVILDA	2DH5	Back Side	0	0	2402	0.17	0.006	9.98	10.50	1.127	76.88	1.301	0.009	/
		2DH5	Top Edge	0	0	2402	-0.02	0.004	9.98	10.50	1.127	76.88	1.301	0.006	/
		2DH5	Bottom Edge	0	0	2402	-0.02	0.002	9.98	10.50	1.127	76.88	1.301	0.003	/
Note: Refe	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 Wireless Band (MHz) Band	Wireless	RF Exposure		Highest	Repeated	Repeated1th	Largest to
		Conditions	Test Position	Measured	SAR	Measured	Smallest
Bariu (IVIFIZ)	Danu	Conditions		SAR (W/kg)	(Yes/No)	SAR (W/kg)	SAR Radio
2412	802.11b	Body	Front Side 0mm	0.831	Yes	0.816	1.02

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

Note: This product has only one antenna for WLAN and Bluetooth, so simultaneous transmission evaluation is not required in this report.



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	DASY8	16.2.2.1588	N/A	N/A
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2024/05/07	2027/05/06
Data Acquisition Electronicsr	Speag	DAE4	SN: 1711	2024/03/18	2025/03/17
E-Field Probe	Speag	EX3DV4	SN: 7510	2024/06/25	2025/06/24
Signal Generator	R&S	SMB100A	177746	2024/04/24	2025/04/23
Power Meter	R&S	NRVD-B2	835843/014	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z4	100381	2024/08/08	2025/08/07
Power Sensor	R&S	NRV-Z2	100211	2024/08/08	2025/08/07
Network Analyzer	Agilent	E5071C	MY46103472	2023/11/14	2024/11/13
Thermometer	Elitech	RC-4HC	EF7239002655	2023/11/17	2024/11/16
Thermometer	Elitech	RC-4HC	EF7216002974	2023/11/17	2024/11/16
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	Speag	DAK3.5	SN: 1312	N/A	N/A
Phantom	Speag	SAM	SN: 1859	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.	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ε)	Target Conductivity (σ) (S/m)	Target Permittivity (ε)	Conductivity Tolerance (%)	Permittivity Tolerance (%)	
2024.10.27	Head	2450	21.2	1.80	39.59	1.80	39.20	0.00	0.99	
Note: The tol	Note: The tolerance limit of Conductivity and Permittivity is± 5%.									



ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 %.

Head liquid 1g

Date	Liquid	Freq.	Power	Measured	Normalized	Dipole SAR	Tolerance		
Date	Туре	(MHz)	(mW)	SAR (W/kg)	SAR (W/kg)	(W/kg)	(%)		
2024.10.27	Head	2450	100	5.460	54.60	52.60	3.80		
Note: The tolerance limit of System validation ±10%.									



System Performance Check Data (2450MHz)

Exposure Conditions

Phantom	Position,	Band	Group,	Frequency	Conversio	TSL	TSL	Ambient	Liquid
Section,	Test		UID	[MHz],	n Factor	Conductiv	Permittivit	Temperat	Temperat
TSL	Distance			Channel		ity [S/m]	у	ure	ure
	[mm]			Number				[°C]	[°C]
Flat,		D2450	CW,	2450.0,	7.75	1.80	39.6	22.1	21.2
HSI			0	2450					

Hardware Setup

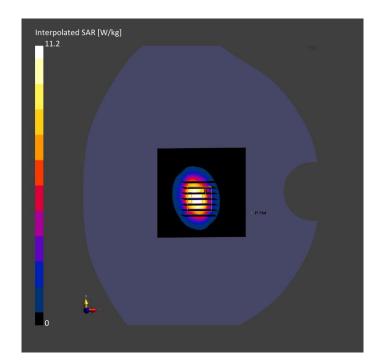
probe tilt) - 1859

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

 Twin-SAM V5.0 (30deg
 HBBL-600-10000
 2024-10-27
 EX3DV4 - SN7510, 2024-06-25
 DAE4 Sn1711, 2024-03-18

Scan Setup	Measurement Results									
	Area Scan	Zoom Scan		Area Scan	Zoom Scan					
Grid Extents	80.0 x 80.0	30.0 x 30.0 x 30.0	Date	2024-10-27	2024-10-27					
[mm]			psSAR1g [W/kg]	5.33	5.46					
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5	psSAR10g	2.56	2.55					
Sensor Surface	3.0	1.4	[W/kg]							
[mm]			Power Drift [dB]	-0.02	0.01					
Graded Grid	Yes	Yes	Power Scaling	Disabled	Disabled					
Grading Ratio	1.5	1.5	Scaling Factor							
MAIA	N/A	N/A	[dB]							
Surface	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction					
Detection			M2/M1 [%]		80.4					
Scan Method	Measured	Measured	Dist 3dB Peak		8.9					
			[mm]							







ANNEX C TEST DATA

Meas.1 Body Plane with Front Side 0mm on 1 Channel in IEEE802.11b mode with Antenna 1

Exposure Conditions

Phantom	Position,	Band	Group,	Frequency	Conversio	TSL	TSL	Ambient	Liquid
Section,	Test		UID	[MHz],	n Factor	Conductiv	Permittivit	Temperat	Temperat
TSL	Distance			Channel		ity [S/m]	у	ure	ure
	[mm]			Number				[°C]	[°C]
Flat,	FRONT,	WLAN	WLAN,	2412.0,	7.75	1.75	39.9	22.1	21.2
HSL	0.00	2.4GH	10315-AAB	1					
		Z							

Hardware Setup

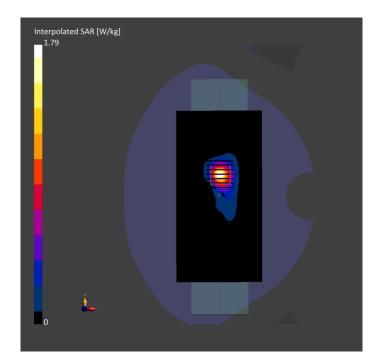
 Phantom
 TSL, Measured Date
 Probe, Calibration Date
 DAE, Calibration Date

 Twin-SAM V5.0 (30deg
 HBBL-600-10000
 2024-10-27
 EX3DV4 - SN7510, 2024-06-25
 DAE4 Sn1711, 2024-03-18

 probe tilt) - 1859

Scan Setup			Measurement Resul	ts	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	96.0 x 192.0	30.0 x 30.0 x 30.0	Date	2024-10-27	2024-10-27
[mm]			psSAR1g [W/kg]	0.786	0.831
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0	psSAR10g	0.329	0.347
Sensor Surface	3.0	1.4	[W/kg]		
[mm]			Power Drift [dB]	-0.03	0.03
Graded Grid	Yes	Yes	Power Scaling	Disabled	Disabled
Grading Ratio	1.5	1.5	Scaling Factor		
MAIA	N/A	N/A	[dB]		
Surface	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Detection			M2/M1 [%]		46.1
Scan Method	Measured	Measured	Dist 3dB Peak		8.1
			[mm]		







Meas.2 Body Plane with Front Side 0mm on 0 Channel in Bluetooth mode with Antenna 1

Exposure Conditions

Phantom	Position,	Band	Group,	Frequency	Conversio	TSL	TSL	Ambient	Liquid
Section,	Test		UID	[MHz],	n Factor	Conductiv	Permittivit	Temperat	Temperat
TSL	Distance			Channel		ity [S/m]	у	ure	ure
	[mm]			Number				[°C]	[°C]
Flat,	FRONT,	ISM	Bluetooth,	2402.0,	7.75	1.74	39.9	22.1	21.2
HSL	0.00	2.4	10035-CAA	0					
		GHz							
		Band							

Hardware Setup

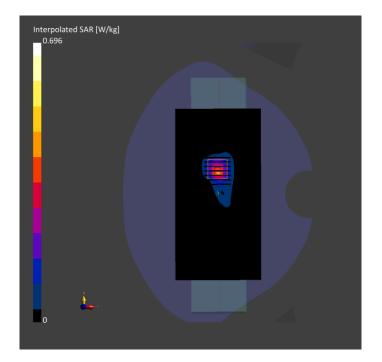
 Phantom
 TSL, Measured Date
 Probe, Calibration Date
 DAE, Calibration Date

 Twin-SAM V5.0 (30deg
 HBBL-600-10000
 2024-10-27
 EX3DV4 - SN7510, 2024-06-25
 DAE4 Sn1711, 2024-03-18

 probe tilt) - 1859

Scan Setup			Measurement Resul	ts	
	Area Scan	Zoom Scan		Area Scan	Zoom Scan
Grid Extents	96.0 x 192.0	30.0 x 30.0 x 30.0	Date	2024-10-27	2024-10-27
[mm]			psSAR1g [W/kg]	0.305	0.332
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0	psSAR10g	0.132	0.141
Sensor Surface	3.0	1.4	[W/kg]		
[mm]			Power Drift [dB]	-0.03	0.01
Graded Grid	Yes	Yes	Power Scaling	Disabled	Disabled
Grading Ratio	1.5	1.5	Scaling Factor		
MAIA	N/A	N/A	[dB]		
Surface	VMS + 6p	VMS + 6p	TSL Correction	No correction	No correction
Detection			M2/M1 [%]		48.0
Scan Method	Measured	Measured	Dist 3dB Peak		8.5
			[mm]		







ANNEX D SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ24A0207-AS.pdf".

ANNEX E CALIBRATION REPORT

Please refer the document "BL-SZ24A0207-AC.pdf".

ANNEX F TUNE-UP PROCEDURE

Please refer the document "BL-SZ24A0207-AT.pdf".



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