

ISSUED BY Shenzhen BALUN Technology Co., Ltd.



FOR

Smart Voice Recorder

ISSUED TO Speech Processing Solutions GmbH

Gutheil-Schoder Gasse 8-12, 1100 Vienna, Austria



Tested by Zong Livao
(Engineer)
Date Sep 21.201

Approved by Wet Yanquan
(Chief Engineer)
Date 21.73

Report No.: BL-SZ1880152-702

EUT Name: Smart Voice Recorder
Model Name: PSP2100

Brand Name: PHILIPS
FCC ID: 2AD4M-PSP2

Test Standard: FCC 47 CFR Part 2.1093

ANSI C95.1: 1999, IEEE 1528: 2013

Maximum SAR: Head (1 g): 0.123 W/kg Body (1 g): 0.167 W/kg

Test Conclusion: Pass

Test Date: Aug. 13, 2018
Date of Issue: Sep. 21, 2018

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Revision History

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.		
	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi		
Address	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.		
	China		
Phone Number +86 755 6685 0100			
Fax Number +86 755 6182 4271			

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.		
	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi		
Address	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.		
	China		
	The laboratory has been listed by Industry Canada to perform		
	electromagnetic emission measurements. The recognition numbers		
	of test site are 11524A-1.		
	The laboratory is a testing organization accredited by FCC as a		
Accreditation	accredited testing laboratory. The designation number is CN1196.		
Certificate	The laboratory is a testing organization accredited by American		
Certificate	Association for Laboratory Accreditation (A2LA) according to		
	ISO/IEC 17025. The accreditation certificate is 4344.01.		
	The laboratory is a testing organization accredited by China National		
	Accreditation Service for Conformity Assessment (CNAS) according		
	to ISO/IEC 17025. The accreditation certificate number is L6791.		
	All measurement facilities used to collect the measurement data are		
Description	located at Block B, FL 1, Baisha Science and Technology Park,		
Description	Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province,		
	P. R. China 518055		

1.3 Test Environment Condition

Ambient Temperature	20°C to 23°C	
Ambient Relative Humidity	37% to 48%	
Ambient Pressure	100 KPa to 102 KPa	



1.4 Announce

- (1) The test report reference to the report template version v2.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Speech Processing Solutions GmbH	
Address	Gutheil-Schoder Gasse 8-12, 1100 Vienna, Austria	

2.2 Manufacturer Information

Manufacturer		Shenzhen Jingwah Information Technology Co., Ltd.	
1	Address	4F, Bldg, 4, Jing Hua Square, Jinghua Street, Shennan Road	
		Centre, Shenzhen, Guangdong, China	

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	Smart Voice Recorder	
Model Name Under Test	PSP2100	
Series Model Name	PSP2100, PSP2XXX (Remark: "X" denotes 0 to 9 or A	
Series Model Name	to Z or Blank, In accordance with buyer coder)	
Description of Model All models have the same electrical parameters and internal		
Name Differentiation	of circuit, and only differ in appearance color and model name.	
Hardware Version N/A		
Software Version	N/A	
Dimensions (Approx.) N/A		
Weight (Approx.)	N/A	



2.5 Ancillary Equipment

	Battery		
	Brand Name	N/A	
	Model No.	N/A	
Ancillary Equipment 1	Serial No.	N/A	
	Capacitance	2000mAh	
	Rated Voltage	3.7 V	
	Limit Charge Voltage	N/A	
	Adapter		
	Brand Name	N/A	
Anaillan, Equipment 2	Model No.	KA23-0502000DEU	
Ancillary Equipment 2	Serial No.	N/A	
	Rated Input	100 - 240 V~, 350 mA, 50/60 Hz	
	Rated Output	5 V= 2000 mA	
Ancillary Equipment 3	USB Data Cable		
	Length (Approx)	1 m	
Ancillary Equipment 4	Earphone		
Ancillary Equipment 4	Length (Approx)	1.2 m	
Ancillary Equipment 5	Case		



2.6 Technical Information

Network and Wireless	WIFI 802.11b, 802.11g, 802.11n(HT20);	
connectivity	Bluetooth	

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

Operating Mode	WLAN; Bluetooth		
Frequency Range	802.11b/g /n(HT20)	2400 ~ 2483.5 MHz	
	Bluetooth	2400 ~ 2483.	5 MHz
Antenna Type	WLAN	PIFA	
Antenna Type	Bluetooth	PIFA	
Hotspot Function	N/A		
Power Reduction	Not Support		
Exposure Category	General Population/Uncontrolled exposure		
EUT Stage	Portable Device		
Product	Туре		
Product	□ Production unit		☐ Identical prototype



3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title					
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules					
'	47 CFR Fall 2	and Regulations					
2	ANSI/IEEE Std.	IEEE Standard for Safety Levels with Respect to Human Exposure					
	C95.1-1999	to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz					
	IEEE Std. 1528-	Recommended Practice for Determining the Peak Spatial-Average					
3	2013	Specific Absorption Rate (SAR) in the Human Head from Wireless					
	2013	Communications Devices: Measurement Techniques					
4	FCC KDB 447498	Mobile and Portable Device RF Exposure Procedures and					
4	D01 v06	Equipment Authorization Policies					
5	FCC KDB 865664	SAR Measurement 100 MHz to 6 GHz					
3	D01 v01r04	SAR Measurement 100 MHz to 6 GHz					
6	FCC KDB 865664	DE Evocaura Danartina					
0	D02 v01r02	RF Exposure Reporting					
7	FCC KDB 648474	SAR Evaluation Considerations for Wireless Handasta					
/	D04 v01r03	SAR Evaluation Considerations for Wireless Handsets					
8	KDB 248227 D01	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters					
0	v02r02	SAN Guidance for IEEE 602.11 (WI-FI) Harisifiliters					



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 Valu	e (W/Kg)		
Body Position	General Population/	Occupational/		
	Uncontrolled Exposure	ControlledExposure		
Whole-Body SAR	0.08	0.4		
(averaged over the entire body)	0.00	3.4		
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 S	Scaled SAR	Maximum Report SAR			
Band	(W)	/kg)	(W/kg)			
	Head		Head	Body		
2.4G WLAN	0.123	0.167	0.123	0.167		
Limit (W/kg)		1.6	60			
Verdict		Pa	ss			

3.3.2 Highest Simultaneous SAR

The product has only antenna for 2.4G WLAN and Bluetooth, and can't transmit simultaneously, so the simultaneous transmission evaluation is not required in this report.



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 0.167 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

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

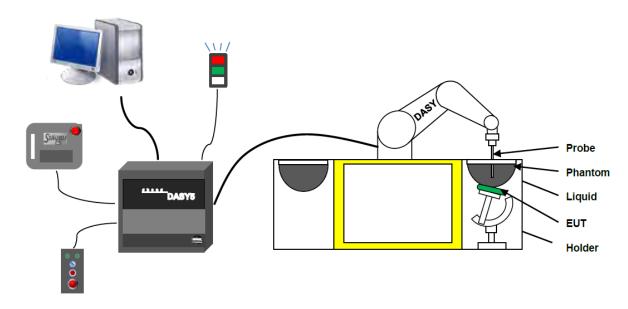
Where: σ is the conductivity of the tissue,

ρ is 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 DASY5 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 DASY5 measurement server.
- 6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
- 7. DASY5 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 10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)

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 CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1/2 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 SN1857



Photo of Phantom SN1859



Serial Number	Material	Length	Height
			1101911



SN 1857 SAM1	Vinylester, glass fiber reinforced	1000	500
SN 1859 SAM2	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

The DASY5 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.

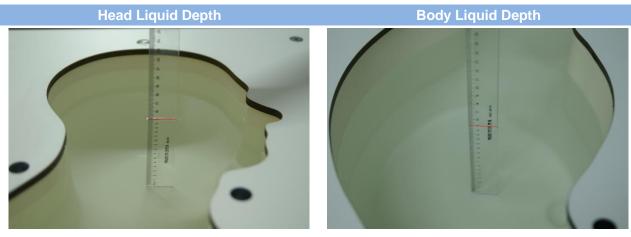


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.



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.

g to give			ad (Referen	ice IEEE15				•
Frequency	Water	Sugar	Cellulose	Salt	Preventol	DGBE	Conductivity	Permittivity
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)	σ (S/m)	ε
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency	Water	F	Hexyl Carbito	ol	Triton	X-100	Conductivity	Permittivity
(MHz)	(%)		(%)		(%	6)	σ (S/m)	3
5200	62.52		17.24		17.24		4.66	36.0
5800	62.52		17.24		17.24		5.27	35.3
		Body (F	rom instrun	nent manu	facturer)			
Frequency	Water	Sugar	Cellulose	Salt	Preventol	DGBE	Conductivity	Permittivity
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)	σ (S/m)	3
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Fraguency/MH=\	Water		DGBE		Sa	alt	Conductivity	Permittivity
Frequency(MHz)	Water		(%)		(%	6)	σ (S/m)	ε
5200	78.60		21.40		/		5.54	47.86



5800 78.50 21.40 0.1 6.0 48.20	5800	78.50	21.40	0.1	6.0	48.20
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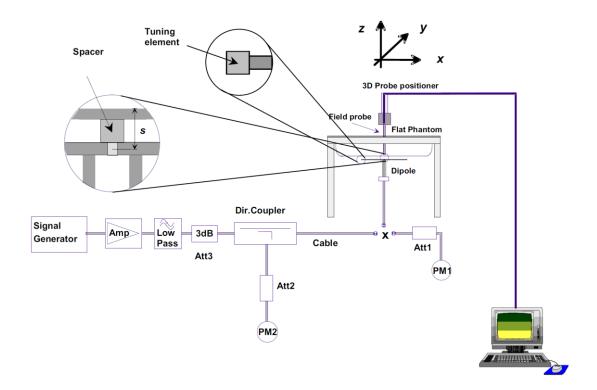
5 SYSTEM VERIFICATION

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

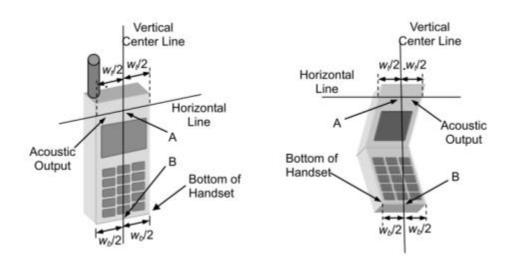
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

6.1.1 Two Imaginary Lines on the Handset

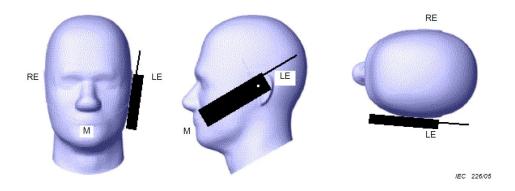
- (a) The vertical center line passes through two points on the front side of the handset the midpoint of the width w t of the handset at the level of the acoustic output, and the midpoint of the width w b of the bottom of the handset.
- (b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



6.1.2 Cheek Position

- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



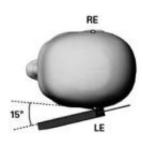


6.1.3 Tilted Position

- (a) To position the device in the "cheek" position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.







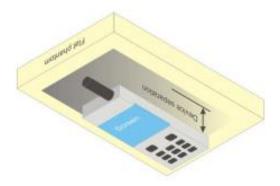


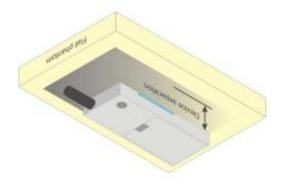
6.2 Body-worn Position Conditions

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.

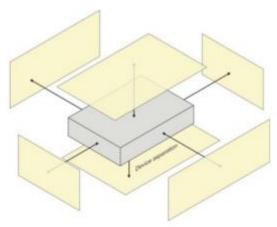






6.3 Hotspot Mode Exposure Position Conditions

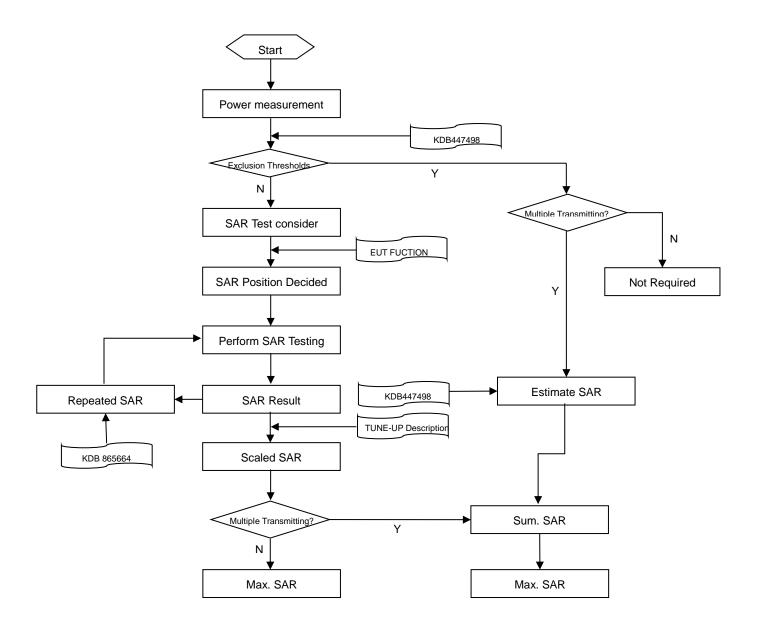
For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom 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 body-worn 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).





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 meas	surement point	F.1 mm	1/ 5 ln/2) 10 5 mm			
(geometric center of prob	e sensors) t	o phantom surface	5±1 mm	½·δ·ln(2)±0.5 mm			
Maximum probe angle fro	om probe axi	s to phantom surface	30°±1°	20°±1°			
normal at the measurement	ent location		30 ±1	20 ±1			
			≤ 2 GHz: ≤ 15 mm	3–4 GHz: ≤ 12 mm			
			2 – 3 GHz: ≤ 12 mm	4 – 6 GHz: ≤ 10 mm			
			When the x or y dimension of t	he test device, in the			
Maximum area scan spa	tial resolutior	n: ∆x Area , ∆y Area	measurement plane orientation	n, is smaller than the above,			
			the measurement resolution m	ust be ≤ the corresponding x or			
			y dimension of the test device with at least one measurement				
			point on the test device.				
NA	-4:-114:-	A 7 A 7	≤ 2 GHz: ≤ 8 mm	3–4 GHz: ≤ 5 mm*			
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom		2 –3 GHz: ≤ 5 mm*	4 – 6 GHz: ≤ 4 mm*				
waxiinum zoom scan spat				3–4 GHz: ≤ 4 mm			
	unifor	m grid: Δz Zoom (n)	≤ 5 mm	Zoom (n) ≤ 5 mm 4–5 GHz:			
Massinas managa ang				5–6 GHz: ≤ 2 mm			
Maximum zoom scan spatial resolution,		Δz Zoom (1): between		3–4 GHz: ≤ 3 mm			
normal to phantom		1st two points closest	≤ 4 mm	4–5 GHz: ≤ 2.5 mm			
surface	graded	to phantom surface		5–6 GHz: ≤ 2 mm			
	grid	Δz Zoom (n>1):					
		between subsequent	≤ 1.5·Δz 2	Zoom (n-1)			
		points					
Minimum 700				3–4 GHz: ≥ 28 mm			
Minimum zoom scan volume		x, y, z	≥30 mm	4–5 GHz: ≥ 25 mm			
Scall volulle				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.
- * 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

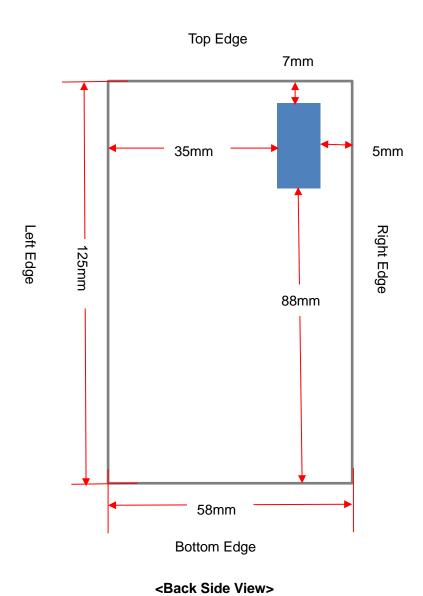
Band	Mode	Channel	Freq.	Peak Power	Tune-up limit	SAR Test
(GHz)			(MHz)	(dBm)	(dBm)	Require.
		1	2412	18.54	19.00	Yes
2.4	802.11b	6	2437	18.34	19.00	No
		11	2462	18.30	19.00	No
	802.11g	1	2412	18.39	18.50	No
(2.4~2.4835)		6	2437	18.16	18.50	No
(2.4~2.4633)		11	2462	18.04	18.50	No
		1	2412	16.55	17.00	No
	802.11n(HT20)	6	2437	16.38	17.00	No
		11	2462	16.02	17.00	No

8.2 Bluetooth

Mode		GFSK		π/4-DQPSK			
Channel	0	39	78	0	39	78	
Frequency (MHz)	2402	2441	2480	2402	2441	2480	
Peak Power dBm)	-0.63	-1.77	-1.33	-2.59	-2.36	-2.77	
Mode		8-DPSK		-			
Channel	0	39	78	-	-	•	
Frequency (MHz)	2402	2441	2480	-	-	-	
Peak Power dBm)	-2.13	-1.94	-2.30	-	-	-	



9 TEST EXCLUSION CONSIDERATION



WLAN/Bluetooth Antenna



9.1 SAR Test Exclusion Consideration Table

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz − 6 GHz and ≤ 50 mm> Table, this Device SAR test configurations consider as following :

		Max. Peak Power		Test Position Configurations						
Band	Mode			Head	Front/	Left	Right	Тор	Bottom	
		dBm	mW	пеац	Back	Edge	Edge	Edge	Edge	
	Distan	<5mm	<5mm	35mm	5mm	7mm	88mm			
WLAN	802.11b	19.00	79.43	Yes	Yes	No	Yes	Yes	No	
2.4 G	802.11g	18.50	70.79	No	No	No	No	No	No	
	802.11n(HT20)	17.00	50.12	No	No	No	No	No	No	
Bluetooth	Distan	ce to User		<5mm	<5mm	35mm	5mm	7mm	88mm	
	BR/EDR	0.50	1.12	No	No	No	No	No	No	

Note:

- Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units
- 2. Per KDB 447498 D01, 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 D01, 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 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

- a. f(GHz) is the RF channel transmit frequency in GHz
- b. Power and distance are rounded to the nearest mW and mm before calculation
- c. The result is rounded to one decimal place for comparison
- d. For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.

This formula is [3.0] / $[\sqrt{f(GHz)}]$ · [(min. test separation distance, mm)] = exclusion threshold of mW.

- 5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
 - a. [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - b. [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 6. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When KDB Publication 447498 D01 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 \leq 1.2 W/kg.



10 TEST RESULT

10.1WIFI 2.4GHz

Mode	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 Scaling Factor	1 g Scaled SAR (W/Kg)	Meas. No.
	Left Cheek	0	1	2412	0.01	0.076	18.54	19.00	1.112	100	1.000	0.084	/
	Left Tilt	0	1	2412	0.08	0.052	18.54	19.00	1.112	100	1.000	0.058	/
802.11 b	Right Cheek	0	1	2412	0.17	0.111	18.54	19.00	1.112	100	1.000	0.123	1#
	Right Tilt	0	1	2412	0.07	0.047	18.54	19.00	1.112	100	1.000	0.052	/
Body													
	Front Side	10	1	2412	-0.14	0.039	18.54	19.00	1.112	100	1.000	0.043	/
	Back Side	10	1	2412	0.16	0.150	18.54	19.00	1.112	100	1.000	0.167	2#
802.11 b	Right Side	10	1	2412	0.01	0.118	18.54	19.00	1.112	100	1.000	0.131	/
0U2.11 D	Top Side	10	1	2412	0.13	0.045	18.54	19.00	1.112	100	1.000	0.050	/
	Back Side Handset	10	1	2412	0.04	0.134	18.54	19.00	1.112	100	1.000	0.149	/



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.
- 3. 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.

The highest measured SAR is 0.150 < 0.80 W/kg, so the repeated measurement is not required.



12 SIMULTANEOUS TRANSMISSION

The product has only antenna for 2.4G WLAN and Bluetooth, and can't transmit simultaneously, so the simultaneous transmission evaluation is not required in this report.



13 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2017/03/21	2020/03/20
E-Field Probe	Speag	EX3DV4	SN: 7510	2018/07/14	2019/07/13
Data acquisition electronics	Speag	DAE4 SN: 1454		2018/01/11	2019/01/10
Signal Generator	R&S	SMBV100A	260592	2018/06/15	2019/06/14
Power Meter	Agilent	E4419B	GB40201833	2017/11/02	2018/11/01
Power Sensor	Agilent	E9300A	MY41498012	2017/11/02	2018/11/01
Power Sensor	Agilent	E9300A	MY41499891	2017/11/02	2018/11/01
Network Analyzer	Agilent	5071C	MY46103472	2018/03/14	2019/03/13
Thermometer	Elitech	RC-4HC	N/A	2017/11/13	2018/11/12
Dielectric Probe Kit	SATIMO	SCLMP	SN 25/13 OCPG56	N/A	N/A
Phantom1	Speag	SAM	SN: 1859	N/A	N/A
Phantom2	Speag	SAM	SN: 1857	N/A	N/A
Power Amplifier	SATIMO	6552B	22374	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 an SCLMP 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 (%)	
2018.08.13	Head	2450	20.2	1.85	39.31	1.80	39.20	2.78	0.28	
2018.08.13	Body	2450	20.2	1.94	52.56	1.95	52.70	-0.51	-0.27	
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 %(for 1 g).

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)	Targeted SAR(W/kg)	Tolerance (%)
2018.08.13	Head	2450	100	5.18	51.80	52.40	-1.15	52.40	-1.15
2018.08.13	Body	2450	100	5.39	53.90	50.50	6.73	52.40	2.86
Note: The tolerance limit of System validation ±10%.									



System Performance Check Data (2450MHz Head)

Date: 2018.08.13

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 39.312$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:21.4 Liquid Temperature:20.2

DASY5 Configuration:

- Probe: EX3DV4 SN7510; ConvF(7.88, 7.88, 7.88); Calibrated: 2018.07.14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2018.01.11
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

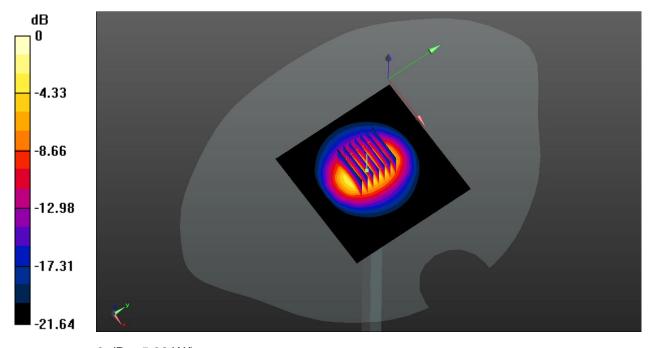
CW2450-HEAD-100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 6.08 W/kg

CW2450-HEAD-100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 49.52 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 10.5 W/kg

SAR(1 g) = 5.18 W/kg; SAR(10 g) = 2.39 W/kg Maximum value of SAR (measured) = 5.98 W/kg



0 dB = 5.98 W/kg



System Performance Check Data (2450MHz Body)

Date/Time: 2018.08.13

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 1.938$ S/m; $\epsilon_r = 52.560$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:21.4 Liquid Temperature:20.2

DASY5 Configuration:

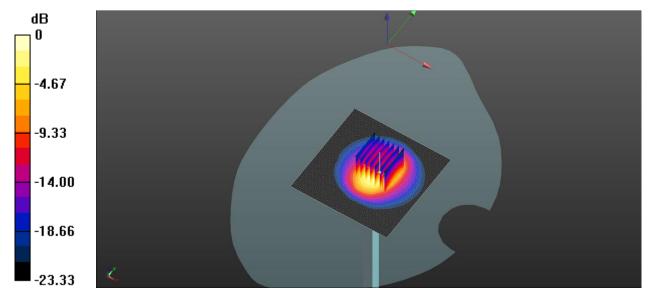
- Probe: EX3DV4 SN7510; ConvF(7.80, 7.80, 7.80); Calibrated: 2018.07.14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2018.01.11
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW2450 Body 100mW /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 6.41 W/kg

CW2450 Body 100mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 49.28 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 11.9 W/kg

SAR(1 g) = 5.39 W/kg; SAR(10 g) = 2.56 W/kg Maximum value of SAR (measured) = 6.27 W/kg



0 dB = 6.27 W/kg



ANNEX C TEST DATA

MEAS.1 Right Head with Cheek on Low Channel in IEEE802.11b mode

Date: 2018.08.13

Communication System Band: WLAN(b); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2412 MHz; $\sigma = 1.788$ S/m; $\varepsilon_r = 39.611$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:21.4 Liquid Temperature:20.2

DASY5 Configuration:

Probe: EX3DV4 - SN7510; ConvF(7.88, 7.88, 7.88); Calibrated: 2018.07.14;

• Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1454; Calibrated: 2018.01.11

Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 1/Area Scan (71x131x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.117 W/kg

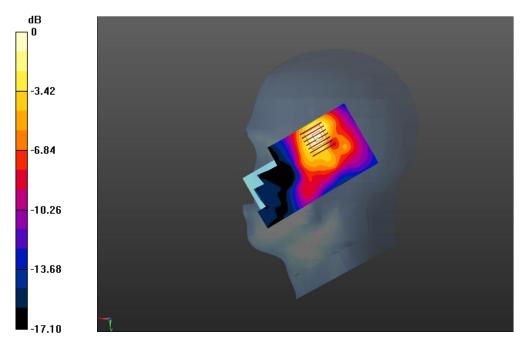
Ch 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.570 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.217 W/kg

SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.054 W/kg.

Maximum value of SAR (measured) = 0.124 W/kg



0 dB = 0.124 W/kg



MEAS.2 Body Plane with Back Side 10mm on Low Channel in IEEE802.11b mode

Date: 2018.08.13

Communication System Band: WLAN(b); Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2412 MHz; $\sigma = 1.889$ S/m; $\epsilon r = 52.925$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:21.4 Liquid Temperature:20.2

DASY5 Configuration:

- Probe: EX3DV4 SN7510; ConvF(7.80, 7.80, 7.80); Calibrated: 2018.07.14;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2018.01.11
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 1/Area Scan (81x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.164 W/kg

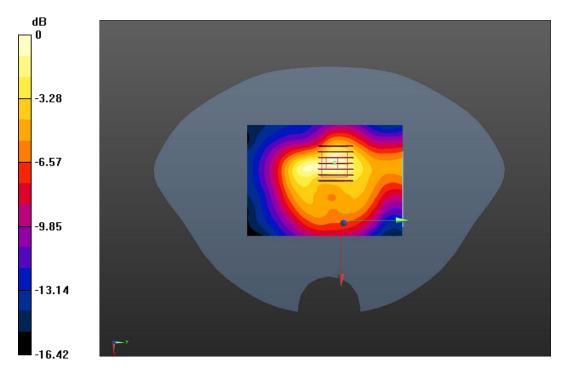
Ch 1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.142 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.276 W/kg

SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.078 W/kg

Maximum value of SAR (measured) = 0.167 W/kg



0 dB = 0.167 W/kg



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ1880152-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ1880152-AS2.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "CALIBRATION REPORT.pdf".

--END OF REPORT--