FCC SAR TESTREPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.



FOR

Tablet

ISSUED TO ALCO Electronics Limited.

11/F Metropole Square, 2 On Yiu Street, Sha Tin, New Territories, Hong Kong





Report No.: BL-HK1850376-701

EUT Name: Tablet

WT9S12C24 (refer section 2.4) Model Name:

Venturer / RCA **Brand Name:**

> A2HW122 FCC ID:

FCC 47 CFR Part 2.1093 Test Standard:

ANSI C95.1: 1999, IEEE 1528: 2013

Maximum SAR: Body (1 g): 0.753 W/kg

Test Conclusion: Pass

Test Date:

May 28, 2018

Date of Issue:

Jun. 05, 2018

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Revision History

Version Issue Date Revisions Content

Rev. 01 Jun. 05, 2018 Initial Issue

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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 A | | ALCO Electronics Limited. | |
|-------------|----------|--|--|
| | A ddraga | 11/F Metropole Square, 2 On Yiu Street, Sha Tin, New Territories, Hong | |
| <i> </i> | Address | Kong | |

2.2 Manufacturer Information

| Manufacturer | | ALCO Electronics Limited. |
|--------------|------------|---|
| Address | A alalyses | 11/F Metropole Square, 2 On Yiu Street, Sha Tin, New Territories, |
| | Address | Hong Kong |

2.3 Factory Information

| Factory | Alco Electronics (Dongguan) Limited. |
|---------|---|
| Address | Gong Ye Xi Road, Houjie Technology Industrial Park, Houjie, |
| Address | Dongguan, Guangdong, P.R.C. Postal Code: 523960 |

2.4 General Description for Equipment under Test (EUT)

| EUT Name | Tablet | |
|-----------------------|---|--|
| Model Name Under Test | WT9S12C24 | |
| Series Model Name | WT9S12C24, WT9S12C24T2, W122SC24, W122SC24T2 | |
| Description of Model | All models are same with electrical parameters and internal circuit | |
| Name Differentiation | structure, but only differ in trade name and model name. | |
| Hardware Version | G8216-V2.0 | |
| Software Version | OS V05,BIOS V06 | |
| Dimensions (Approx.) | N/A | |
| Weight (Approx.) | N/A | |



2.5 Ancillary Equipment

| | Battery | | |
|-----------------------|-----------------|-----------------------------|--|
| | Brand Name | PowTech | |
| | Model No. | PT2890128 | |
| Ancillary Equipment 1 | Serial No. | N/A | |
| | Capacity | 3200 mAh | |
| | Rated Voltage | 7.4 V | |
| | Limited Voltage | 8.4 V | |
| | Adapter | | |
| | Brand Name | GST | |
| Ancillary Equipment 2 | Model No. | GT-WCAU12000150-302 | |
| Ancillary Equipment 2 | Serial No. | N/A | |
| | Rated Input | 100-240 V~, 50/60 Hz, 0.5 A | |
| | Rated Output | 12 V= 1.5 A | |

2.6 Technical Information

| Network and Wireless | Bluetooth 4.0 (BR+EDR+BLE) | |
|----------------------|---|--|
| connectivity | WIFI 802.11b, 802.11g and 802.11n (HT20/40) | |

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/HT40) | 2400 ~ 2483.5 MHz | |
| | Bluetooth | 2400 ~ 2483.5 M | 1Hz |
| Antonna Typo | WLAN: PIFA Antenna | | |
| Antenna Type | Bluetooth: PIFA Antenna | | |
| DTM | N/A | | |
| Hotspot Function N/A | | | |
| Power Reduction Not Support | | | |
| Exposure Category | General Population/Uncontrolled exposure | | |
| EUT Stage | Portable Device | | |
| Product | Туре | | |
| Floduct | | | ☐ 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 and Regulations |
| 2 | ANSI/IEEE Std. C95.1-1999 | IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz |
| 3 | IEEE Std. 1528- 2013 | Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques |
| 4 | FCC KDB 447498 D01 v06 | Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies |
| 5 | FCC KDB 865664 D01 v01r04 | SAR Measurement 100 MHz to 6 GHz |
| 6 | FCC KDB 865664 D02 v01r02 | RF Exposure Reporting |
| 7 | 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 | 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) | 1.60 | 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)

| Band | Maximum Scaled SAR (W/kg) | Maximum Report SAR (W/kg) | | | |
|--------------|------------------------------|------------------------------|--|--|--|
| | Body (0mm) | Body (0mm) | | | |
| 2.4G WLAN | 0.753 | 0.750 | | | |
| Bluetooth | 0.152 | 0.753 | | | |
| Limit (W/kg) | 1.6 | 60 | | | |
| Verdict | Pass | | | | |

3.3.2 Highest Simultaneous SAR

The product has only one antenna for 2.4G WALN and Bluetooth, and can't transmit at the same time, so the Simultaneous SAR is not required on 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 0.753 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

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

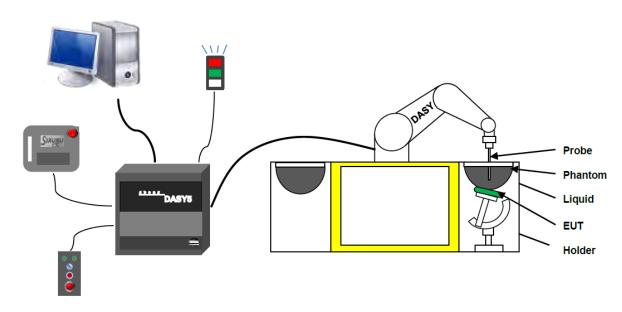
Where: σ is the conductivity of the tissue,

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.
- 3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, 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 ES3DV3-SN:3110 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 3 GHz; Linearity: ± 0.2 dB (30 MHz to 3 GHz)

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

axis)

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

Dimensions Overall length: 337 mm (Tip: 10 mm) Tip diameter: 4 mm (Body: 10 mm) Distance from

probe tip to dipole centers: 2.0 mm

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

scanning in arbitrary phantoms (ES3DV3)



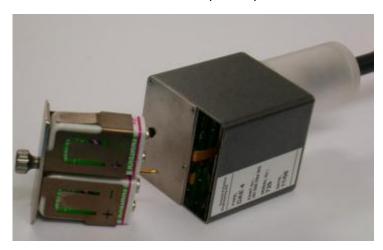
E-Field Probe Calibration Process

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 |
|---------------|------------------------------------|--------|--------|
| 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.

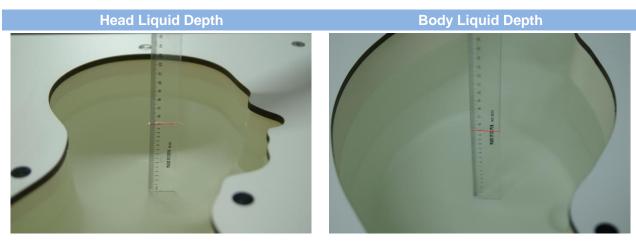


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.



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.

| The relieving table give | • | | ad (Referen | • | | | | |
|--------------------------|-------|---------|---------------|-----------|-----------|-------|--------------|--------------|
| Frequency | Water | Sugar | Cellulose | Salt | Preventol | DGBE | Conductivity | Permittivity |
| (MHz) | (%) | (%) | (%) | (%) | (%) | (%) | σ (S/m) | 3 |
| 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 | H | Hexyl Carbito | l | 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) | ε |
| 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 |
| F(NALL-) | \\/-t | | DGBE | | Sa | Salt | | Permittivity |
| Frequency(MHz) | Water | (%) | | | (%) | | σ (S/m) | ε |
| 5200 | 78.60 | | 21.40 | | / | | 5.54 | 47.86 |
| 5800 | 78.50 | | 21.40 | | 0. | 1 | 6.0 | 48.20 |



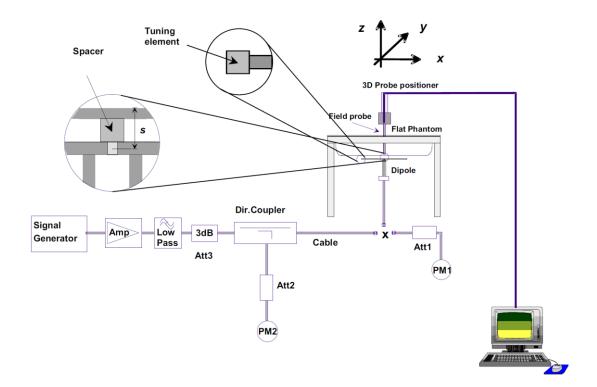
5 SYSTEM VERIFICATION

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 Laptop Exposure Condition

This DUT should consider one position which is bottom of laptop touching with phantom 0 mm air gap and the screen portion of the device shall be an open position at a 90° angle.



6.2 Tablet Exposure Condition

This DUT was tested in two different positions. They are back side and top edge in these positions, the surface of DUT is touching with phantom 0mm.

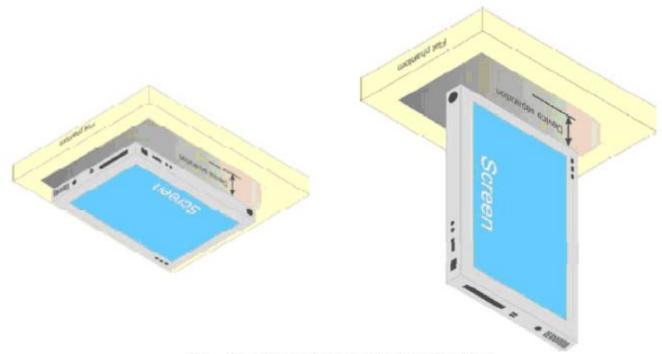
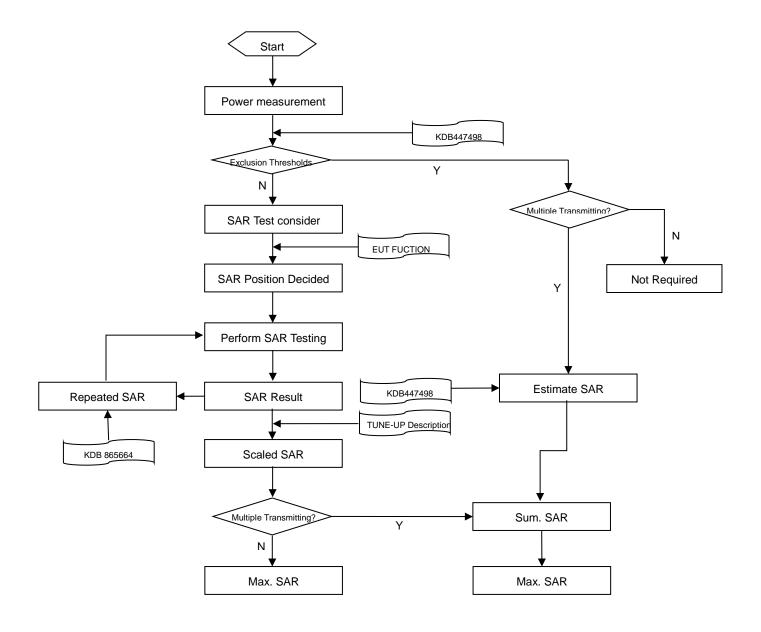


Fig Illustration for Lap-touching Position



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 | closest meas | surement point | 5±1 mm | ½·δ·ln(2)±0.5 mm |
| (geometric center of prob | e sensors) t | o phantom surface | 0±1 mm | 72 0 III(Z)±0.0 IIIIII |
| Maximum probe angle fro | om probe ax | s to phantom surface | 30°±1° | 20°±1° |
| normal at the measureme | ent location | | 00 11 | 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 spat | ial resolution | n: Δx Area , Δy 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. | |
| Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom | | | ≤ 2 GHz: ≤ 8 mm | 3–4 GHz: ≤ 5 mm* |
| Iviaximum 200m scan spa | iliai resolulio | л. дх 20011 , ду 20011 | 2 –3 GHz: ≤ 5 mm* | 4 – 6 GHz: ≤ 4 mm* |
| | | | | 3–4 GHz: ≤ 4 mm |
| | unifor | m grid: Δz Zoom (n) | ≤ 5 mm | 4–5 GHz: ≤ 3 mm |
| Maximum zoom scan | | | | 5–6 GHz: ≤ 2 mm |
| 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 zoom | | | | 3–4 GHz: ≥ 28 mm |
| scan volume | | x, y, z | ≥30 mm | 4–5 GHz: ≥ 25 mm |
| Soan volume | | | | 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

- 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. | Conducted | tune-up | SAR Test |
|--------------|---------------|--------------------|-------|-------------|-------------|----------|
| (GHz) | | 3 110111101 | (MHz) | Power (dBm) | power (dBm) | Require. |
| | | 1 | 2412 | 15.00 | 16.00 | Yes |
| | 802.11b | 6 | 2437 | 14.36 | 16.00 | Yes |
| | | 11 | 2462 | 15.71 | 16.00 | Yes |
| | | 1 | 2412 | 13.56 | 15.00 | No |
| | 802.11g | 6 | 2437 | 14.56 | 15.00 | No |
| 2.4 | | 11 | 2462 | 14.15 | 15.00 | No |
| (2.4~2.4835) | | 1 | 2412 | 12.93 | 15.00 | No |
| | 802.11n(HT20) | 6 | 2437 | 14.54 | 15.00 | No |
| | | 11 | 2462 | 13.53 | 15.00 | No |
| | | 3 | 2422 | 12.14 | 13.50 | No |
| | 802.11n(HT40) | 6 | 2437 | 11.92 | 13.50 | No |
| | | 9 | 2452 | 13.16 | 13.50 | No |

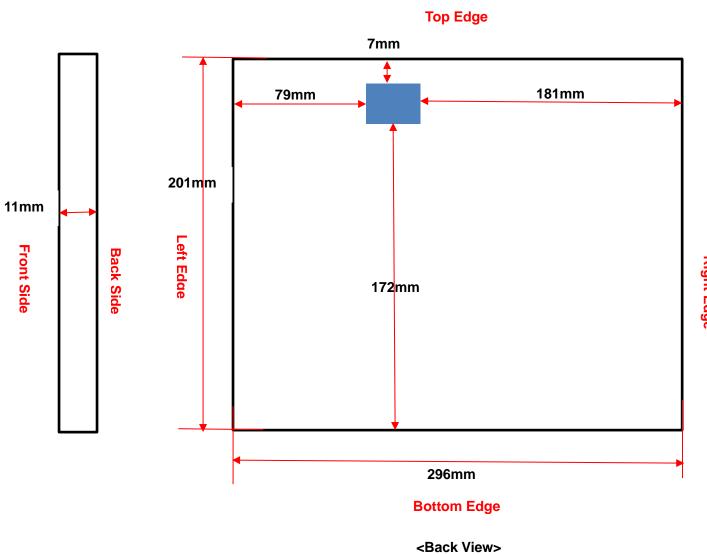
8.2 Bluetooth

| Mode | | GFSK | | π/4-DQPSK | | | |
|-----------------------|-----------|--------|------|-----------|-------|------|--|
| Channel | 0 | 39 | 78 | 0 | 39 | 78 | |
| Frequency (MHz) | 2402 | 2441 | 2480 | 2402 | 2441 | 2480 | |
| Conducted Power (dBm) | 4.32 | 4.08 | 3.57 | 5.49 | 4.73 | | |
| tune-up power (dBm) | 5.50 6.00 | | | | | | |
| Mode | | 8-DPSK | | BLE | | | |
| Channel | 0 | 39 | 78 | 0 | 19 | 39 | |
| Frequency (MHz) | 2402 | 2441 | 2480 | 2402 | 2440 | 2480 | |
| Conducted Power (dBm) | 5.97 | 5.66 | 5.23 | 9.43 | 9.21 | 8.73 | |
| tune-up power (dBm) | | 6.50 | | | 10.00 | | |



9 TEST EXCLUSION CONSIDERATION

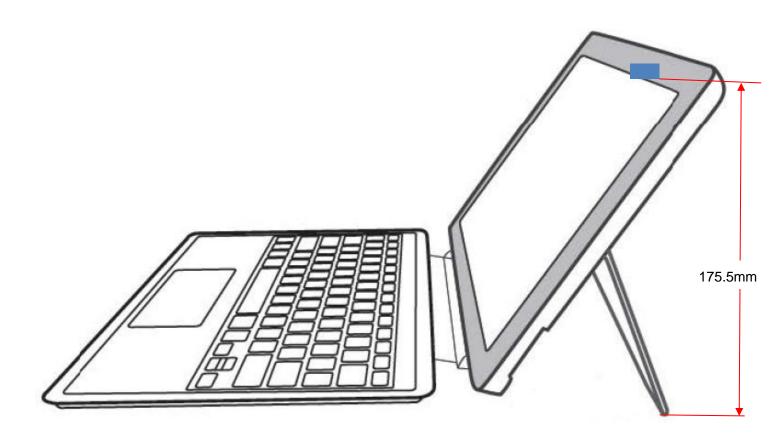
9.1 Tablet Mode antenna location sketch



WLAN/Bluetooth antenna



9.2 Laptop Mode antenna location sketch



WLAN/Bluetooth antenna



9.3 SAR Test Exclusion Consideration Table

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

| | | Max. Peak Power | | Test Position Configurations | | | | | | | |
|---------------|---------------|-----------------|-------------------|------------------------------|-------|------|------|-------|------|--------|--|
| Band | Mode | Max. Pe | iviax. Peak Power | | Front | Back | Left | Right | Тор | Bottom | |
| | | dBm | mW | Laptop | TIOII | Dack | Edge | Edge | Edge | Edge | |
| | Distan | ce to User | | 175.5mm | <5mm | <5mm | 79mm | 181mm | 7mm | 172mm | |
| \A/I A N I | 802.11b | 16.00 | 39.81 | No | No | Yes | No | No | Yes | No | |
| WLAN 2.4 G | 802.11g | 15.00 | 31.62 | No | No | No | No | No | No | No | |
| 2.4 G | 802.11n(HT20) | 15.00 | 31.62 | No | No | No | No | No | No | No | |
| | 802.11n(HT40) | 13.50 | 22.39 | No | No | No | No | No | No | No | |
| | Distan | ce to User | | 175.5mm | <5mm | <5mm | 79mm | 181mm | 7mm | 172mm | |
| Bluetooth | BR/EDR | 6.50 | 4.47 | No | No | No | No | No | No | No | |
| | BLE | 10.00 | 10.00 | No | No | Yes | No | No | Yes | No | |

Note:

- 1. 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.
- 3. 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.

- 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

10.1 WIFI 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. |
|-------------|----------------|---------------|--------------|----------------|------------------|-------------------------------|-------------------------|-----------------------------------|-------------------|----------------------|---------------------------|--------------------------------|--------------|
| Войу | | 0 | 11 | 2462 | 0.04 | 0.622 | 15.71 | 16.00 | 1.069 | 100 | 1.000 | 0.665 | / |
| 000 44 h | Back Side | 0 | 1 | 2412 | 0.11 | 0.598 | 15.00 | 16.00 | 1.259 | 100 | 1.000 | 0.753 | 1# |
| 802.11 b | | 0 | 6 | 2437 | -0.08 | 0.468 | 14.36 | 16.00 | 1.459 | 100 | 1.000 | 0.683 | / |
| | Top Edge | 0 | 11 | 2462 | -0.12 | 0.196 | 15.71 | 16.00 | 1.069 | 100 | 1.000 | 0.210 | / |
| Note: Refer | to ANNEX C for | the deta | iled test da | ta for each | test config | guration. | | | | | | | |

10.2 Bluetooth

| 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 | 1 g Scaled SAR (W/Kg) | Meas. No. |
|-------------|----------------|---------------|--------------|----------------|------------------------|----------------------------|-------------------------|-----------------------------------|-------------------|-----------------------------|--------------|
| Войу | | 0 | 0 | 2402 | -0.09 | 0.113 | 9.43 | 10.00 | 1.140 | 0.129 | / |
| BLE | Back Side | 0 | 19 | 2440 | 0.02 | 0.127 | 9.21 | 10.00 | 1.199 | 0.152 | 2# |
| DLE | | 0 | 39 | 2480 | 0.17 | 0.109 | 8.73 | 10.00 | 1.340 | 0.146 | / |
| | Top Edge | 0 | 0 | 2402 | 0.19 | 0.023 | 9.43 | 10.00 | 1.140 | 0.026 | / |
| Note: Refer | to ANNEX C for | the detai | iled test da | ta for each | test confid | uration. | | • | | | • |



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.

When the highest measured SAR is 0.598 W/kg less than 0.80 W/kg, so the repeated measurement is not required.



12 SIMULTANEOUS TRANSMISSION

The product has only one antenna for 2.4G WALN and Bluetooth, and can't transmit at the same time, so the Simultaneous SAR is not required on 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 | ES3DV3 | SN: 3110 | 2017/08/02 | 2018/08/01 |
| Data Acquisition Electronics | Speag | DAE4 | SN: 685 | 2017/08/02 | 2018/08/01 |
| Signal Generator | R&S | SMBV100A | 260592 | 2017/06/12 | 2018/06/11 |
| 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 | 5071B | MY42404001 | 2017/06/12 | 2018/06/11 |
| Thermometer | Elitech | RC-4HC | N/A | 2017/11/13 | 2018/11/12 |
| 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 |
| Dielectric Probe Kit | SATIMO | SCLMP | SN 25/13 OCPG56 | N/A | N/A |

Note:

Per KDB 865664 D01, Dipole SAR Validation Verification, BALUN LAB has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

- 1. There is no physical damage on the dipole;
- 2. System validation with specific dipole is within 10% of calibrated value;
- 3. Return-loss in within 20% 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 (%) |
|------------|----------------|---------------|--------------|------------------------------|------------------------------|-------------------------------|-------------------------------|----------------------------|----------------------------|
| 2018.05.28 | Body | 2450 | 21.4 | 2.02 | 50.71 | 1.95 | 52.70 | 3.59 | -3.78 |

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 (%) | | |
|--|----------------|----------------|------------|---------------------------|--------------------------|----------------------|------------------|-----------------------|------------------|--|--|
| 2018.05.28 | Body | 2450 | 100 | 5.23 | 52.30 | 50.50 | 3.56 | 52.40 | -0.19 | | |
| Note: The tolerance limit of System validation ±10%. | | | | | | | | | | | |



System Performance Check Data (2450MHz Body)

Date: 2018.05.28

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; $\sigma = 2.020$ S/m; $\epsilon_r = 50.710$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

Probe: ES3DV3 - SN3110; ConvF(4.23, 4.23, 4.23); Calibrated: 2017.08.02;

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn685; Calibrated: 2017.08.02

Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1012

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

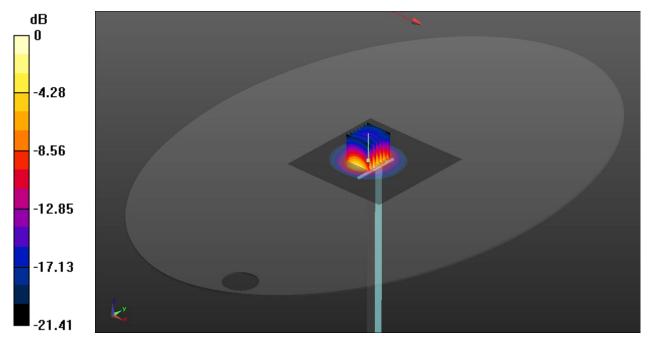
CW 2450 Body 100mW/Area Scan (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 5.84 W/kg

CW 2450 Body 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 44.87 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 5.23W/kg; SAR(10 g) = 2.43 W/kg Maximum value of SAR (measured) = 6.05W/kg



0 dB = 6.050W/kg



ANNEX C TEST DATA

MEAS.1 Body Plane with Back Side 0mm on Channel 1 in IEEE 802.11 b Mode

Date: 2018.05.28

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

Medium parameters used: f = 2412 MHz; σ = 1.853 S/m; ϵ_r = 51.023; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

• Probe: ES3DV3 - SN3110; ConvF(4.23, 4.23, 4.23); Calibrated: 2017.08.02;

Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn685; Calibrated: 2017.08.02

Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1012

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

Ch1/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.660 W/kg

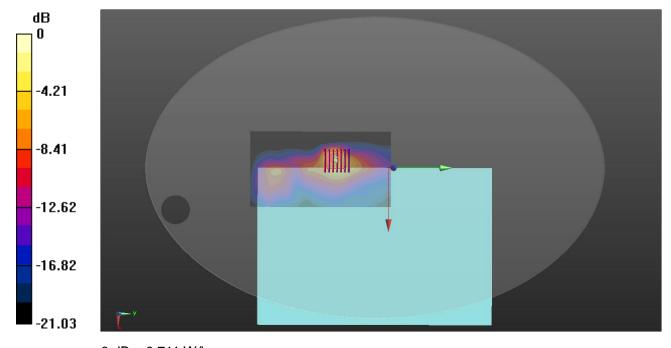
Ch1/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.649 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.598 W/kg; SAR(10 g) = 0.255 W/kg

Maximum value of SAR (measured) = 0.711 W/kg



0 dB = 0.711 W/kg



MEAS.2 Body Plane with Back Side 0mm on Channel 19 in Bluetooth BLE Mode

Date: 2018.05.28

Communication System Band: BT; Frequency: 2440 MHz; Duty Cycle: 1:1.562 Medium parameters used: f = 2440 MHz; $\sigma = 1.996$ S/m; $\epsilon_r = 50.912$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

• Probe: ES3DV3 - SN3110; ConvF(4.23, 4.23, 4.23); Calibrated: 2017.08.02;

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

Electronics: DAE4 Sn685; Calibrated: 2017.08.02

• Phantom: ELI v4.0 (30deg probe tilt); Type: QDOVA001BB; Serial: TP:1012

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

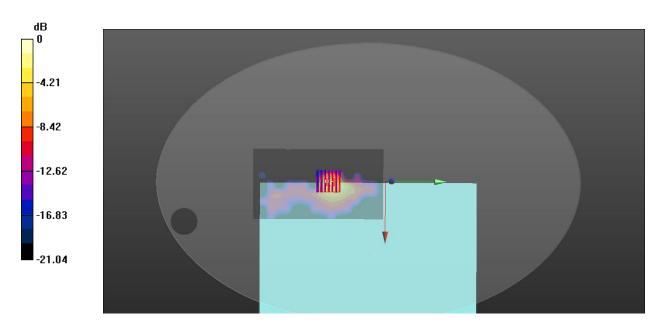
Ch19/Area Scan (81x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.184 W/kg

Ch19/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.269 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.341 W/kg

SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.056 W/kg Maximum value of SAR (measured) = 0.158 W/kg



0 dB = 0.158W/kg



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-HK1850376-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-HK1850376-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "CALIBRATION REPORT.pdf".

--END OF REPORT--