



| TE | EST REPORT |
|--|---|
| Report Reference No | TRE18050120 R/C: 28613 |
| FCC ID: | OUNBCLINK2 |
| Applicant's name: | Backcountry Access, Inc. |
| Address | 2820 Wilderness Place Unit H, Boulder, Colorado, United States |
| Manufacturer | Fujian Belfone Communications Technology Co.,Ltd. |
| Address | A-15 Huaqiao Economic Development Zone, Luojiang, Quanzhou, Fujian, China |
| Test item description: | TWO-WAY RADIO |
| Trade Mark | BCA |
| Model/Type reference: | BC LINK 2.0 |
| Listed Model(s): | _ |
| Standard: | FCC 47 CFR Part2.1093 ANSI/IEEE C95.1: 1999 IEEE 1528: 2013 |
| Date of receipt of test sample: | May. 15, 2018 |
| Date of testing | May. 16, 2018 - May. 28, 2018 |
| Date of issue | May. 29, 2018 |
| Result: | PASS |
| Compiled by (position+printed name+signature): | File administrators: Charley Wu |
| Supervised by (position+printed name+signature): | Test Engineer: Charley Wu Charley Wu Manager: Hans Hu HowsHW |
| Approved by (position+printed name+signature): | Manager: Hans Hu |
| Testing Laboratory Name: | Shenzhen Huatongwei International Inspection Co., Ltd |
| Address: | 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China |
| | |

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The test report merely correspond to the test sample.

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1. Test Standards and Report version

1.1. Test Standards

The tests were performed according to following standards:

FCC 47 Part 2.1093:_Radiofrequency Radiation Exposure Evaluation:Portable Devices

<u>IEEE Std C95.1, 1999:</u> IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 KHz to 300 GHz.

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

KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04: SAR Measurement Requirements for 100 MHz to 6 GHz

<u>KDB 865664 D02 RF Exposure Reporting v01r02:</u> RF Exposure Compliance Reporting and Documentation Considerations

KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies

1.2. Report version

| Revision No. | Date of issue | Description |
|--------------|---------------|-------------|
| N/A | 2018-05-29 | Original |
| | | |
| | | |
| | | |
| | | |

2. <u>Summary</u>

2.1. Client Information

| Applicant: | Backcountry Access, Inc. |
|---------------|---|
| Address: | 2820 Wilderness Place Unit H, Boulder, Colorado, United States |
| Manufacturer: | Fujian Belfone Communications Technology Co.,Ltd. |
| Address: | A-15 Huaqiao Economic Development Zone, Luojiang,Quanzhou,Fujian,China |

2.2. Product Description

| Name of EUT: | TWO-WAY RADI | 0 | | | | |
|----------------------------|--------------------------|-------------------|-----------|-----------------|--|--|
| Trade mark: | BCA | BCA | | | | |
| Model/Type reference: | BC LINK 2.0 | | | | | |
| Listed model(s): | - | | | | | |
| Device Category: | Portable | | | | | |
| RF Exposure Environment: | General Population | on / Uncontrolled | | | | |
| Power supply: | DC 3.7V | | | | | |
| Hardware version: | LT-666-LN-VER6 | .8 | | | | |
| Software version: | LT-666-LN-VER6.8 | | | | | |
| Maximum SAR Value | | | | | | |
| Separation Distance: | Body: | 0mm | | | | |
| Separation Distance. | Face: | 25mm | | | | |
| Maximun SAR Value (1g): | Body: | 1.499 W/kg | | | | |
| Maximun SAR Value (19). | Face: | 0.572 W/kg | | | | |
| PMR | | | | | | |
| | 462.5625MHz~ 4 | 62.7125MHz | | | | |
| Operation Frequency Range: | 467.5625MHz~ 467.7125MHz | | | | | |
| | 462.5500MHz~ 462.7250MHz | | | | | |
| Rated Output Power: | High Power: | 2W (33.00dBm) | Low Power | 0.5W (27.00dBm) | | |
| Modulation Type: | FM(Analog) | | | | | |
| Channel Separation | Analog:12.5kHz | | | | | |
| Antenna Type: | Integral | | | | | |

2.3. Test frequency list

When the frequency channels required for SAR testing are not specified in the published RF exposure KDB procedures, the following should be applied to determine the number of required test channels. The test channels should be evenly spread across the transmission frequency band of each wireless mode:

$$N_{\rm c} = 2 * \text{roundup} [10^* (f_{\rm high} - f_{\rm low})/f_{\rm c}] + 1$$

fc: is the centre frequency of the band in hertz;fhigh: is the highest frequency in the band in hertz;flow: is the lowest frequency in the band in hertz;Nc: is the number of channels;f: is the width of the transmit frequency band in hertz.

| ModulationType | Operation Frequency Penge | Test | Test Frequency (MHz) |
|-------------------|---------------------------|------------------|----------------------|
| ModulationType | Operation Frequency Range | Channel | ТХ |
| | 462.5625MHz~ 462.7125MHz | CH _{M1} | 462.6375 |
| Analog 12.5kHz | 467.5625MHz~ 467.7125MHz | CH _{M2} | 467.6375 |
| 12.36112 | 462.5500MHz~ 462.7250MHz | СН _{мз} | 462.6500 |

3. Test Environment

3.1. Test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

3.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235.

IC-Registration No.: 5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4. Equipments Used during the Test

| | | | | Calib | ration |
|--|--------------------|------------|---------------|------------|------------|
| Test Equipment | Manufacturer | Type/Model | Serial Number | Last Cal. | Due Date |
| Data Acquisition Electronics DAEx | SPEAG | DAE4 | 1549 | 2018/04/25 | 2019/04/24 |
| E-field Probe | SPEAG | EX3DV4 | 7494 | 2018/02/26 | 2019/02/25 |
| System Validation Dipole | SPEAG | D450V3 | 1102 | 2018/02/23 | 2021/02/22 |
| Dielectric Assessment Kit | SPEAG | DAK-3.5 | 1267 | 2018/03/01 | 2019/02/28 |
| Dielectric Assessment Kit | SPEAG | DAK-12 | 1130 | 2018/03/01 | 2019/02/28 |
| Network analyzer | Agilent | N9923A | MY51491493 | 2017/09/05 | 2018/09/04 |
| Universal Radio Communication Tester | ROHDE & SCHWARZ | CMU200 | 112012 | 2017/11/11 | 2018/11/10 |
| Signal Generator | ROHDE & SCHWARZ | SMB100A | 175248 | 2017/09/02 | 2018/09/01 |
| Power meter | Agilent | N1914A | MY52090010 | 2018/03/22 | 2019/03/21 |
| Power sensor | Agilent | E9304A | MY52140008 | 2018/03/22 | 2019/03/21 |
| Power sensor | Agilent | E9301H | MY54470001 | 2017/06/02 | 2018/06/01 |
| Power Amplifier | Mini-Circuits | ZHL-42W | QA1202003 | 2017/11/27 | 2018/11/26 |
| Dual Directional Coupler | Agilent | 778D | MY48220612 | 2018/03/22 | 2019/03/21 |

Note:

1. The DAE ,Probe and Dipole calibration reference to the Appendix A and Appendix B.

5. <u>Measurement Uncertainty</u>

| | | | Measu | rement U | ncerta | ainty | | | | |
|-------------|---|--------------------------|-------------------------------|--------------------------|------------|------------|-------------|-------------------|--------------------|----------------------|
| No. | Error Description | Туре | Uncertainty Value | Probably Distribution | Div. | (Ci) 1q | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
| Measureme | nt System | | | | | | - <u>J</u> | | | |
| 1 | Probe calibration | В | 6.0% | N | 1 | 1 | 1 | 6.0% | 6.0% | ∞ |
| 2 | Axial isotropy | В | 4.70% | R | √3 | 0.7 | 0.7 | 1.90% | 1.90% | 8 |
| 3 | Hemispherical isotropy | В | 9.60% | R | $\sqrt{3}$ | 0.7 | 0.7 | 3.90% | 3.90% | 8 |
| 4 | Boundary Effects | В | 1.00% | R | $\sqrt{3}$ | 1 | 1 | 0.60% | 0.60% | 8 |
| 5 | Probe Linearity | В | 4.70% | R | $\sqrt{3}$ | 1 | 1 | 2.70% | 2.70% | 8 |
| 6 | Detection limit | В | 1.00% | R | $\sqrt{3}$ | 1 | 1 | 0.60% | 0.60% | ∞ |
| 7 | RF ambient conditions-noise | В | 0.00% | R | $\sqrt{3}$ | 1 | 1 | 0.00% | 0.00% | 8 |
| 8 | RF ambient conditions- reflection | В | 0.00% | R | √3 | 1 | 1 | 0.00% | 0.00% | 8 |
| 9 | Response time | В | 0.80% | R | $\sqrt{3}$ | 1 | 1 | 0.50% | 0.50% | ∞ |
| 10 | Integration time | В | 5.00% | R | $\sqrt{3}$ | 1 | 1 | 2.90% | 2.90% | ∞ |
| 11 | RF ambient | В | 3.00% | R | $\sqrt{3}$ | 1 | 1 | 1.70% | 1.70% | 8 |
| 12 | Probe positioned mech. restrictions | В | 0.40% | R | $\sqrt{3}$ | 1 | 1 | 0.20% | 0.20% | 8 |
| 13 | Probe positioning with respect to phantom shell | В | 2.90% | R | $\sqrt{3}$ | 1 | 1 | 1.70% | 1.70% | ø |
| 14 | Max.SAR evalation | В | 3.90% | R | $\sqrt{3}$ | 1 | 1 | 2.30% | 2.30% | 8 |
| Test Sample | | | | | - | | | - | _ | |
| 15 | Test sample positioning | А | 1.86% | N | 1 | 1 | 1 | 1.86% | 1.86% | 8 |
| 16 | Device holder uncertainty | А | 1.70% | N | 1 | 1 | 1 | 1.70% | 1.70% | 8 |
| 17 | Drift of output power | В | 5.00% | R | √3 | 1 | 1 | 2.90% | 2.90% | 8 |
| Phantom an | | 1 | | | 1 | 1 | 1 | 1 | 1 | |
| 18 | Phantom uncertainty | В | 4.00% | R | $\sqrt{3}$ | 1 | 1 | 2.30% | 2.30% | 8 |
| 19 | Liquid conductivity (target) | В | 5.00% | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.80% | 1.20% | 8 |
| 20 | Liquid conductivity (meas.) | A | 0.50% | Ν | 1 | 0.64 | 0.43 | 0.32% | 0.26% | ø |
| 21 | Liquid permittivity (target) | В | 5.00% | R | √3 | 0.64 | 0.43 | 1.80% | 1.20% | 8 |
| 22 | Liquid cpermittivity (meas.) | А | 0.16% | N | 1 | 0.64 | 0.43 | 0.10% | 0.07% | 8 |
| | tandard uncertainty | <i>u_c</i> = 1 | $\sum_{i=1}^{22} c_i^2 u_i^2$ | / | / | / | / | 9.79% | 9.67% | ø |
| | led uncertainty e interval of 95 %) | u, | $u_c = 2u_c$ | R | K=2 | / | / | 19.57% | 19.34% | 8 |

| | | | Systen | n Check U | ncert | ainty | | | | |
|-----------|---|-----------|-------------------------------|--------------------------|------------|------------|-------------|-------------------|--------------------|----------------------|
| No. | Error Description | Туре | Uncertainty Value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
| | ent System | 5 | 0.00/ | | L 4 | | | 0.00/ | 0.00/ | r |
| 1 | Probe calibration | В | 6.0% | N | 1 | 1 | 1 | 6.0% | 6.0% | ∞ |
| 2 | Axial isotropy | В | 4.70% | R | $\sqrt{3}$ | 0.7 | 0.7 | 1.90% | 1.90% | ∞ |
| 3 | Hemispherical isotropy | В | 9.60% | R | $\sqrt{3}$ | 0.7 | 0.7 | 3.90% | 3.90% | ∞ |
| 4 | Boundary Effects | В | 1.00% | R | $\sqrt{3}$ | 1 | 1 | 0.60% | 0.60% | ∞ |
| 5 | Probe Linearity | В | 4.70% | R | $\sqrt{3}$ | 1 | 1 | 2.70% | 2.70% | ∞ |
| 6 | Detection limit | В | 1.00% | R | $\sqrt{3}$ | 1 | 1 | 0.60% | 0.60% | ∞ |
| 7 | RF ambient conditions-noise | В | 0.00% | R | $\sqrt{3}$ | 1 | 1 | 0.00% | 0.00% | ∞ |
| 8 | RF ambient conditions- reflection | В | 0.00% | R | $\sqrt{3}$ | 1 | 1 | 0.00% | 0.00% | ∞ |
| 9 | Response time | В | 0.80% | R | $\sqrt{3}$ | 1 | 1 | 0.50% | 0.50% | ∞ |
| 10 | Integration time | В | 5.00% | R | $\sqrt{3}$ | 1 | 1 | 2.90% | 2.90% | ∞ |
| 11 | RF ambient | В | 3.00% | R | √3 | 1 | 1 | 1.70% | 1.70% | ø |
| 12 | Probe positioned mech. restrictions | В | 0.40% | R | $\sqrt{3}$ | 1 | 1 | 0.20% | 0.20% | 00 |
| 13 | Probe positioning with respect to phantom shell | В | 2.90% | R | √3 | 1 | 1 | 1.70% | 1.70% | ∞ |
| 14 | Max.SAR evalation | В | 3.90% | R | $\sqrt{3}$ | 1 | 1 | 2.30% | 2.30% | ∞ |
| System va | lidation source-dipole | | | | | | | | | |
| 15 | Deviation of experimental dipole from numerical dipole | A | 1.58% | N | 1 | 1 | 1 | 1.58% | 1.58% | × |
| 16 | Dipole axis to liquid distance | А | 1.35% | Ν | 1 | 1 | 1 | 1.35% | 1.35% | ∞ |
| 17 | Input power and SAR drift | В | 4.00% | R | $\sqrt{3}$ | 1 | 1 | 2.30% | 2.30% | ∞ |
| Phantom a | | 1 | r | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | Phantom uncertainty | В | 4.00% | R | $\sqrt{3}$ | 1 | 1 | 2.30% | 2.30% | ø |
| 20 | Liquid conductivity (meas.) | А | 0.50% | N | 1 | 0.64 | 0.43 | 0.32% | 0.26% | ∞ |
| 22 | Liquid cpermittivity (meas.) | А | 0.16% | N | 1 | 0.64 | 0.43 | 0.10% | 0.07% | ø |
| Combined | standard uncertainty | $u_c = 1$ | $\sum_{i=1}^{22} c_i^2 u_i^2$ | / | / | / | / | 8.80% | 8.79% | ∞ |
| | nded uncertainty ce interval of 95 %) | u, | $u_c = 2u_c$ | R | K=2 | / | / | 17.59% | 17.58% | ø |

6. SAR Measurements System Configuration

6.1. SAR Measurement Set-up

The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).

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.

A unit to operate the optical surface detector which is connected to the EOC.

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.

The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows 2003.

DASY5 software and SEMCAD data evaluation software.

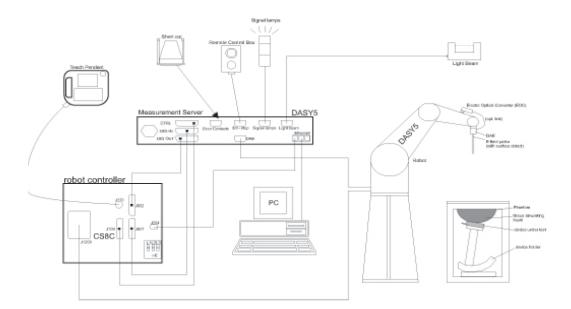
Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.

The generic twin phantom enabling the testing of left-hand and right-hand usage.

The device holder for handheld Mobile Phones.

Tissue simulating liquid mixed according to the given recipes.

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



6.2. DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

• Probe Specification

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

CalibrationISO/IEC 17025 calibration service available.

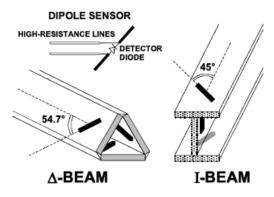
| Frequency | 4 MHz to 10 GHz; Linearity: ± 0.2 dB (30 MHz to 10 GHz) |
|---------------|--|
| Directivity | ± 0.2 dB in HSL (rotation around probe axis) ± 0.3 dB in tissue material (rotation normal to probe axis) |
| Dynamic Range | 10 μW/g to > 100 mW/g; Linearity: ± 0.2 dB |
| Dimensions | Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm |
| Application | General dosimetry up to 10 GHz Dosimetry in strong gradient fields Compliance tests of Mobile Phones |
| Compatibility | DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI |



• Isotropic E-Field Probe

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

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



6.3. Phantoms

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI isfully compatible with the IEC 62209-2 standard and all known tissuesimulating liquids. ELI has been optimized regarding its performance and can beintegrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurementgrids, by teaching three points. The phantom is compatible with all SPEAGdosimetric probes and dipoles.



ELI4 Phantom

6.4. Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the DASY system.

The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.



Device holder supplied by SPEAG

7. SAR Test Procedure

7.1. Scanning Procedure

The DASY5 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT's output power and should vary max. ± 5 %.

The "surface check" measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above ± 0.1 mm). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^{\circ}$.)

Area Scan

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

Zoom Scan

After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm.

Spatial Peak Detection

The procedure for spatial peak SAR evaluation has been implemented and can determine values of masses of 1g and 10g, as well as for user-specific masses. The DASY5 system allows evaluations that combine measured data and robot positions, such as:

- maximum search
- extrapolation
- boundary correction
- peak search for averaged SAR

During a maximum search, global and local maxima searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. Several measurements at different distances are necessary for the extrapolation. Extrapolation routines require at least 10 measurement points in 3-D space.

They are used in the Zoom Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Shepard's method for extrapolation.

A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 5mm steps.

| | | | \leq 3 GHz | > 3 GHz |
|---|--|--|--|---|
| Maximum distance fro (geometric center of pr | | measurement point rs) to phantom surface | $5 \mathrm{mm} \pm 1 \mathrm{mm}$ | $\frac{1}{2} \cdot \delta \cdot \ln(2) \text{ mm} \pm 0.5 \text{ mm}$ |
| Maximum probe angle surface normal at the r | | | $30^{\circ} \pm 1^{\circ}$ | $20^{\circ} \pm 1^{\circ}$ |
| | | | \leq 2 GHz: \leq 15 mm 2 - 3 GHz: \leq 12 mm | $\begin{array}{l} 3-4 \text{ GHz:} \leq 12 \text{ mm} \\ 4-6 \text{ GHz:} \leq 10 \text{ mm} \end{array}$ |
| Maximum area scan sp | patial resol | ution: Δx _{Area} , Δy _{Area} | When the x or y dimension measurement plane orientat above, the measurement res corresponding x or y dimen at least one measurement po | ion, is smaller than the olution must be \leq the sion of the test device with |
| Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom} | | $\leq 2 \text{ GHz: } \leq 8 \text{ mm}$ 3 - 4 GHz: $\leq 5 2 - 3 \text{ GHz: } \leq 5 \text{ mm}^*$ 4 - 6 GHz: $\leq 4 4 - 6 \text{ GHz: } \leq 4 4 + 6 4 5 4 + 6 5 4 5 4 5 5 8 5 $ | | |
| | uniform | grid: $\Delta z_{\text{Zoom}}(n)$ | \leq 5 mm | $3-4 \text{ GHz:} \le 4 \text{ mm}$ $4-5 \text{ GHz:} \le 3 \text{ mm}$ $5-6 \text{ GHz:} \le 2 \text{ mm}$ |
| Maximum zoom scan spatial resolution, normal to phantom surface | an spatial $\Delta z_{Zoom}(1)$: between 1 st two points closest | | \leq 4 mm | $3-4 \text{ GHz:} \le 3 \text{ mm}$ $4-5 \text{ GHz:} \le 2.5 \text{ mm}$ $5-6 \text{ GHz:} \le 2 \text{ mm}$ |
| | | | $\leq 1.5 \cdot \Delta z_{Zoc}$ | om(n-1) mm |
| Minimum zoom scan volume | x, y, z | | ≥ 30 mm | $3-4$ GHz: ≥ 28 mm $4-5$ GHz: ≥ 25 mm $5-6$ GHz: ≥ 22 mm |

Table 1: Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v04

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

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

7.2. Data Storage and Evaluation

Data Storage

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DA4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

| Probe parameters: | Sensitivity: | Normi, ai0, ai1, ai2 |
|--------------------|--------------------------|----------------------|
| | Conversion factor: | ConvFi |
| | Diode compression point: | Dcpi |
| Device parameters: | Frequency: | f |
| | Crest factor: | cf |
| Media parameters: | Conductivity: | σ |
| | Density: | ρ |

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY5 components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

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

Vi: compensated signal of channel (i = x, y, z)

Ui: input signal of channel (i = x, y, z)

cf: crest factor of exciting field (DASY parameter)

dcpi: diode compression point (DASY parameter)

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

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

H – fieldprobes :
$$H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

| | J |
|--------|--|
| Vi: | compensated signal of channel ($i = x, y, z$) |
| Normi: | sensor sensitivity of channel ($i = x, y, z$), |
| | [mV/(V/m)2] for E-field Probes |
| ConvF: | sensitivity enhancement in solution |
| aij: | sensor sensitivity factors for H-field probes |
| f: | carrier frequency [GHz] |
| Ei: | electric field strength of channel i in V/m |
| Hi: | magnetic field strength of channel i in A/m |

The RSS value of the field components gives the total field strength (Hermitian magnitude):

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

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

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

SAR: local specific absorption rate in mW/g

Etot: total field strength in V/m

σ: conductivity in [mho/m] or [Siemens/m]

ρ: equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid.

8. <u>Position of the wireless device in relation to the phantom</u>

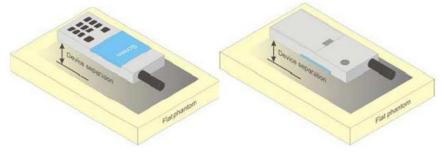
8.1. Front-of-face

A typical example of a front-of-face device is a two-way radio that is held at a distance from the face of the user when transmitting. In these cases the device under test shall be positioned at the distance to the phantom surface that corresponds to the intended use as specified by the manufacturer in the user instructions. If the intended use is not specified, a separation distance of 25 mm between the phantom surface and the device shall be used.



8.2. Body Position

A typical example of a body-worn device is a mobile phone, wireless enabled PDA or other battery operated wireless device with the ability to transmit while mounted on a person's body using a carry accessory approved by the wireless device manufacturer.



9. SAR System Validation

Per FCC KDB 865664 D02,SAR system validadion status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue-equivalent media for system validation, according to the procedures outlined in FCC KDB 865664 D01 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s),measurement frequencies, SAR probes and tissue dielectric parameters has been included.

| | Probe | Probe | | robe | Dielectric P | arameters | C | CW Validation | ſ | Modula | tion Validatio | n |
|---|-------|--------|----------------------|------|--------------|--------------|-------------|--------------------|-------------------|-------------------|----------------|-----|
| | | type | Calibration Point | | Conductivity | Permittivity | Sensitivity | Probe linearity | Probe Isotropy | Moduation type | Duty factor | PAR |
| ĺ | 7494 | EX3DV4 | 450 | Head | 0.86 | 44.49 | PASS | PASS | PASS | 4FSK/FM | PASS | N/A |
| | 7494 | EX3DV4 | 450 | Body | 0.96 | 56.11 | PASS | PASS | PASS | 4FSK/FM | PASS | N/A |

| SAR System Validation Summary |
|-------------------------------|
|-------------------------------|

NOTE:

While the probes have been calibrated for both CW and modulated signals,all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01 for scenarios when CW probe calibrations are used with other signal types.

10. System Verification

10.1. Tissue Dielectric Parameters

It's satisfying the latest tissue dielectric parameters requirements proposed by the KDB865664 D01. Targets for tissue simulating liquid

| Tissue dielectric parameters for head and body | | | | | | | | | | |
|--|----|--------|----|--------|--|--|--|--|--|--|
| Target Frequency | He | ad | E | Body | | | | | | |
| (MHz) | ٤r | σ(s/m) | ٤r | σ(s/m) | | | | | | |
| 450 | | | | | | | | | | |

CheckResult:

| Dielectric performance of Head tissue simulating liquid | | | | | | | | | | | |
|---|--------|----------|--------|----------|-------|--------|--------|------|------------|--|--|
| Frequency | | εr | σ(s/m) | | Delta | Delta | Lingit | Temp | | | |
| (MHz) | Target | Measured | Target | Measured | (ɛr) | (σ) | Limit | (°C) | Date | | |
| 450 | 43.50 | 44.49 | 0.87 | 0.86 | 2.28% | -1.26% | ±5% | 22 | 2018-05-25 | | |

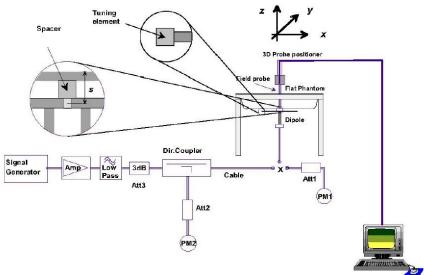
| Dielectric performance of Body tissue simulating liquid | | | | | | | | | | | |
|---|--------|----------|--------|----------|--------|-------|-------|------|------------|--|--|
| Frequency | | ٤r | σ(s/m) | | Delta | Delta | | Temp | | | |
| (MHz) | Target | Measured | Target | Measured | (ɛr) | (σ) | Limit | (°C) | Date | | |
| 450 | 56.70 | 56.11 | 0.94 | 0.96 | -1.05% | 2.23% | ±5% | 22 | 2018-05-25 | | |

10.2. SAR System Verification

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

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

System check is performed regularly on all frequency bands where tests are performed with the DASY5 system.



The output power on dipole port must be calibrated to 24 dBm (250mW) before dipole is connected.



Photo of Dipole Setup

Check Result:

| | Head | | | | | | | | | | | |
|-----------|--------|----------|---------|----------|-------|-------|--------|------|------------|--|--|--|
| Frequency | 1g | SAR | 10g SAR | | Delta | Delta | Linsit | Temp | Data | | | |
| (MHz) | Target | Measured | Target | Measured | (1g) | (10g) | Limit | (°C) | Date | | | |
| 450 | 4.48 | 4.64 | 3.00 | 3.09 | 3.57% | 3.07% | ±10% | 22 | 2018-05-25 | | | |

| | | | | Body | , | | | | |
|-----------|--------|----------|---------|----------|-------|-------|-------|------|------------|
| Frequency | 1g | SAR | 10g SAR | | Delta | Delta | | Temp | |
| (MHz) | Target | Measured | Target | Measured | (1g) | (10g) | Limit | (°C) | Date |
| 450 | 4.47 | 4.88 | 3.01 | 3.30 | 9.17% | 9.77% | ±10% | 22 | 2018-05-25 |

Note:

1. the graph results see follow.

SystemPerformanceCheck-Head 450MHz

DUT: Dipole 450 MHz D450V3; Type: D450V3; Serial:1102

Date: 2018-05-25 Communication System: UID 0, A-CW (0); Frequency: 450 MHz Medium parameters used: f = 450 MHz; σ = 0.859 S/m; ϵ_r = 44.492; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY Configuration:

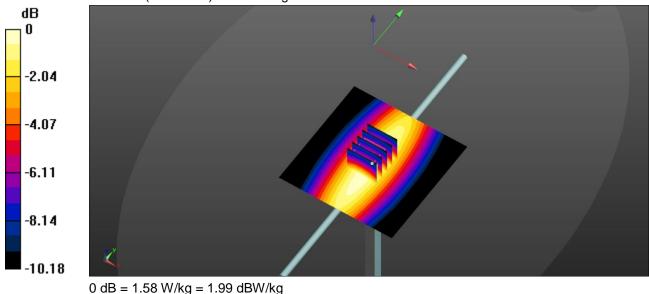
- Probe: EX3DV4 SN7494; ConvF(11.7, 11.7, 11.7); Calibrated: 2/26/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1549; Calibrated: 4/25/2018
- Phantom: ELI V8.0 ; Type: QD OVA 004 AA ; Serial: 2078
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

System Performance Check at Frequencies below 1GHz/d=15 mm, Pin=250 mw, dist=1.4mm (EX-Probe)/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm,

dy=1.500 mm Maximum value of SAR (interpolated) = 1.60 W/kg

System Performance Check at Frequencies below 1GHz/d=15 mm, Pin=250 mw, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement

grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 44.31 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 1.85 W/kg SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.773 W/kg Maximum value of SAR (measured) = 1.58 W/kg



SystemPerformanceCheck-Body 450MHz

DUT: Dipole 450 MHz D450V3; Type: D450V3; Serial:1102

Date: 2018-05-25 Communication System: UID 0, A-CW (0); Frequency: 450 MHz Medium parameters used: f = 450 MHz; σ = 0.961 S/m; ϵ_r = 56.106; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY Configuration:

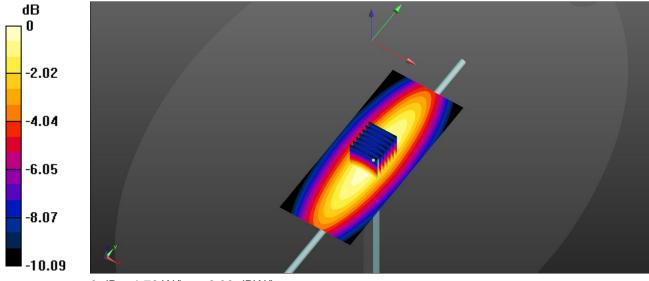
- Probe: EX3DV4 SN7494; ConvF(11.87, 11.87, 11.87); Calibrated: 2/26/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 Sn1549; Calibrated: 4/25/2018
- Phantom: ELI V8.0 ; Type: QD OVA 004 AA ; Serial: 2078
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

System Performance Check/d=15mm, Pin=250mW, dist=1.4mm (EX-

Probe)/Area Scan (51x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 1.67 W/kg

System Performance Check/d=15mm, Pin=250mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,

dz=5mm Reference Value = 42.66 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 2.03 W/kg SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.826 W/kg Maximum value of SAR (measured) = 1.72 W/kg



0 dB = 1.72 W/kg = 2.36 dBW/kg

11. SAR Exposure Limits

| | Limit (\ | N/kg) | | |
|---|---|---|--|--|
| Type Exposure | General Population / Uncontrolled Exposure Environment | Occupational / Controlled Exposure Environment | | |
| Spatial Average SAR (whole body) | 0.08 | 0.4 | | |
| Spatial Peak SAR (1g cube tissue for head and trunk) | 1.60 | 8.0 | | |
| Spatial Peak SAR (10g for limb) | 4.0 | 20.0 | | |

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

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

12. Radiated Power Measurement Results

| Mode | Channel | Frequency (MHz) | Radiated power (dBm) |
|------------------|------------------|-----------------|----------------------|
| | CH _{M1} | 462.6375 | 30.17 |
| Analog / 12.5KHz | CH _{M2} | 467.6375 | 23.21 |
| _ | СН _{М3} | 462.6500 | 29.86 |

13. Maximum Tune-up Limit

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01

| | | PMR | |
|--------|-----------------------------|------------------------------------|--------------------------------|
| Mode | Channel Separation (KHz) | Operation Frequency Range (MHz) | Maximum tune up power (dBm) |
| | 12.5 | 462.5625MHz~ 462.7125MHz | 30.50 |
| Analog | 12.5 | 467.5625MHz~ 467.7125MHz | 23.50 |
| | 12.5 | 462.5500MHz~ 462.7250MHz | 30.00 |

Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances \leq 50mm are determined by:

[(max. Power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [$\sqrt{f(GHz)}$] \leq 15.0 for 1-g SAR

Per KDB 447498 D01, when the minimum test separation distance is <5mm, a distance of 5mm is applied to determine SAR test exclusion.

14. SAR Measurement Results

| | Analog mode | | | | | | | | | | | | |
|------------------|-----------------------|------------------|---------------------------|-------|---------------------|-----------------------|--------------------|---------------------|-------------------|--------------------|--------------|--|--|
| Test Position | Channel Separation | Fre | Frequency Conducted Power | | Tune up limit | Tune up scaling | Power Drift(dB) | Measured SAR(1g) | Report SAR(1g) | 50% Duty SAR | Test Plot | | |
| FUSILION | | СН | MHz | (dBm) | (dBm) | factor | Brin(GB) | (W/kg) | (W/kg) | (W/kg) | i iot | | |
| _ | 12.5KHz | CH _{M1} | 462.6375 | 30.17 | 30.50 | 1.08 | -0.11 | 1.060 | 1.145 | 0.572 | AF | | |
| Front of face | 12.5KHz | CH _{M2} | 467.6375 | 23.21 | 23.50 | 1.07 | -0.14 | 0.160 | 0.171 | 0.086 | | | |
| | 12.5KHz | СН _{мз} | 462.6500 | 29.86 | 30.00 | 1.03 | -0.01 | 0.898 | 0.925 | 0.462 | | | |
| | 12.5KHz | CH _{M1} | 462.6375 | 30.17 | 30.50 | 1.08 | -0.16 | 2.740 | 2.959 | 1.480 | | | |
| Body Worn | 12.5KHz | CH _{M2} | 467.6375 | 23.21 | 23.50 | 1.07 | 0.20 | 0.835 | 0.893 | 0.447 | | | |
| | 12.5KHz | СН _{М3} | 462.6500 | 29.86 | 30.00 | 1.03 | -0.15 | 2.910 | 2.997 | 1.499 | AB | | |

Note:

1. The value with blue color is the maximum SAR Value of each test band.

| SAR Test Data Plots | | | |
|---------------------|----|----------------|---------------|
| Test Plot: | AF | Test Position: | Front of Face |

Date: 2018-05-25

Communication System: UID 0, A-CW (0); Frequency: 462.638 MHz;Duty Cycle: 1:1 Medium parameters used: f = 462.638 MHz; σ = 0.87 S/m; ϵ_r = 44.258; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7494; ConvF(11.7, 11.7, 11.7); Calibrated: 2/26/2018;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/25/2018
- Phantom: ELI V8.0 ; Type: QD OVA 004 AA ; Serial: 2078
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)

Front of face/Procedure/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm,

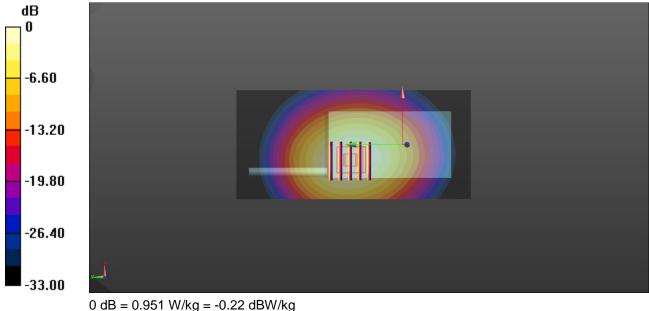
dy=1.500 mm

Maximum value of SAR (interpolated) = 0.992 W/kg

Front of face/Procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.28 V/m; Power Drift = -0.11 dB Peak SAR (extrapolated) = 2.23 W/kg SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.694 W/kg

Maximum value of SAR (measured) = 0.951 W/kg



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|------------|-------------|----------------|--------------------|
| Test Plot: | AB | Test Position: | Body-worn |

Date: 2018-05-25

Communication System: UID 0, A-CW (0); Frequency: 462.65 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 462.65 MHz; σ = 0.973 S/m; ϵ_r = 55.63; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

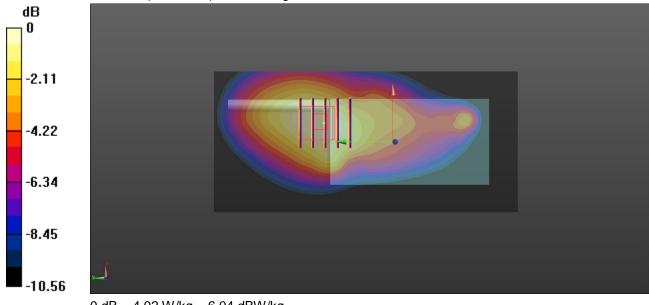
- Probe: EX3DV4 SN7494; ConvF(11.87, 11.87, 11.87); Calibrated: 2/26/2018;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1549; Calibrated: 4/25/2018
- Phantom: ELI V8.0 ; Type: QD OVA 004 AA ; Serial: 2078
- Measurement SW: DASY52, Version 52.10 (1); SEMCAD X Version 14.6.11 (7437)

Body/Procedure/Area Scan (61x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 4.21 W/kg

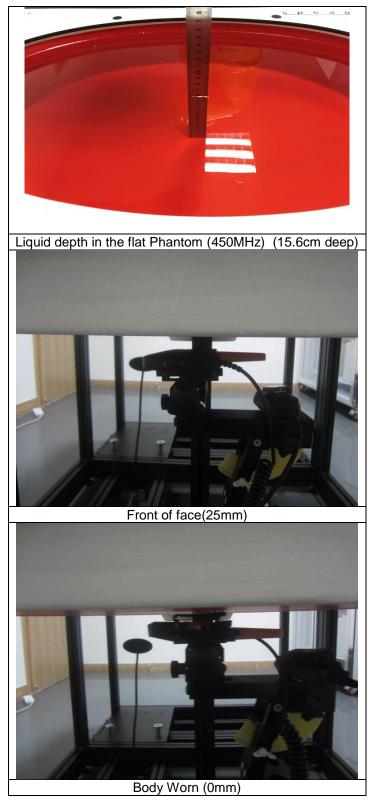
Body/Procedure/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 44.64 V/m; Power Drift = -0.15 dB Peak SAR (extrapolated) = 5.89 W/kg SAR(1 g) = 2.91 W/kg; SAR(10 g) = 1.85 W/kg Info: Interpolated medium parameters used for SAR evaluation. Maximum value of SAR (measured) = 4.02 W/kg



0 dB = 4.02 W/kg = 6.04 dBW/kg

15. Test Setup Photos



16. External and Internal Photos of the EUT

Please refer to the test report No.: TRE18050117.

-----End of Report-----