FCC SAR Test Report

APPLICANT : Honeywell International Inc. **EQUIPMENT** : CN75LAN mobile computer

BRAND NAME : Honeywell MODEL NAME : CN75LAN

MARKETING NAME: CN75

FCC ID : HD5-CN75LAN

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2013

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Manager

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Approved by: Jones Tsai / Manager





Report No.: FA6D2819-01

SPORTON INTERNATIONAL INC.

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)

TEL: 886-3-327-3456 / FAX: 886-3-328-4978

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Revision History

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|-------------|---------|---|---------------|
| FA6D2819-01 | Rev. 01 | Initial issue of report | Mar. 08, 2017 |
| FA6D2819-01 | Rev. 02 | Updated Bluetooth Tune-up Limit Updated Appendix A / B | Mar. 10, 2017 |
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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Honeywell International Inc., CN75LAN mobile computer, CN75LAN, are as follows.

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| | | Highest SAR Summary | | | | | | |
|--------------------|-------------------|--------------------------|--------------------------------|--|--|--|--|--|
| Equipment Class | Frequency Band | Head (Separation 0mm) | Body-worn (Separation 10mm) | | | | | |
| | | 1g SAR (W/kg) | | | | | | |
| DTS | 2.4GHz WLAN | 0.08 | 0.07 | | | | | |
| NII | 5GHz WLAN | 0.09 | 0.44 | | | | | |
| DSS | Bluetooth | | < 0.01 | | | | | |

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications

2. Administration Data

| Testing Laboratory | | | | | | |
|--------------------|--|--|--|--|--|--|
| Test Site | SPORTON INTERNATIONAL INC. | | | | | |
| Test Site Location | No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978 | | | | | |

| Applicant Applicant | | | | | | | |
|---------------------|---|--|--|--|--|--|--|
| Company Name | Honeywell International Inc. | | | | | | |
| Address | 9680 Old Bailes Road, Fort Mill, SC 29707 USA | | | | | | |

| Manufacturer | | | | | | |
|--------------|---|--|--|--|--|--|
| Company Name | Honeywell International Inc. | | | | | |
| Address | 9680 Old Bailes Road, Fort Mill, SC 29707 USA | | | | | |

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02

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4. Equipment Under Test (EUT) Information

4.1 General Information

| Product Feature & Specification | | | | | | |
|---|--|--|--|--|--|--|
| Equipment Name | CN75LAN mobile computer | | | | | |
| Brand Name | Honeywell | | | | | |
| Model Name | CN75LAN | | | | | |
| Marketing Name | CN75 | | | | | |
| FCC ID | HD5-CN75LAN | | | | | |
| Wireless Technology and Frequency Range | WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.5GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz | | | | | |
| Mode | 802.11a/b/g/n HT20 Bluetooth BR/EDR/LE | | | | | |
| HW Version | v1.1 | | | | | |
| SW Version | 3.00.05.0075 | | | | | |
| EUT Stage | Identical Prototype | | | | | |

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Remark:

- 1. WLAN operation in 5600 MHz ~ 5650 MHz is notched.
- 2. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.

| Sample List | | | | | | | |
|-------------|--------------------------------------|--|--|--|--|--|--|
| Sample 1 | CN75E non-WWAN-Q6 non-WWAN_Q6 keypad | | | | | | |
| Sample 2 | CN75E non-WWAN-N7 non-WWAN_N7 keypad | | | | | | |
| Sample 3 | CN75 non-WWAN-Q5 non-WWAN_Q5 keypad | | | | | | |
| Sample 4 | CN75 non-WWAN-N5 non-WWAN_N5 keypad | | | | | | |

| Accessory Information | | | | | | | | | |
|-----------------------|--------------|--|--|--|--|--|--|--|--|
| Equipment | Model Name | | | | | | | | |
| CN75A/CN75E Dock | 1000AV01 | | | | | | | | |
| CK75 Dock | 1001AV01 | | | | | | | | |
| car charger | 850-057-005 | | | | | | | | |
| Snap-on(LAN) | 1000AA01 | | | | | | | | |
| Snap-on(RS232) | 1000AA03 | | | | | | | | |
| Snap-On(VoCollect) | 1000AA05 | | | | | | | | |
| Snap-on (USB) | 1000AA07 | | | | | | | | |
| Snap-on adapter | 9001AE01 | | | | | | | | |
| Holster for the CN75A | INZPT-2148-K | | | | | | | | |
| Holster for the CN75E | INZPT-2150-K | | | | | | | | |
| Holster for the CK75 | INZPT-2152-K | | | | | | | | |

5. RF Exposure Limits

5.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The 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.

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5.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.4 | 8.0 | 20.0 |

Limits for General Population/Uncontrolled Exposure (W/kg)

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.08 | 1.6 | 4.0 |

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

6. Spot Check Evaluation

1. Introduction Section

The original model (FCC ID: HD5-CN75WAN) and the variant model (FCC ID: HD5-CN75LAN) has identical PCB layout, antenna, SW implementation for Bluetooth/Wi-Fi/NFC/GPS. Based on their similarity, the FCC SAR (equipment class: DTS, DSS, NII) test data of HD5-CN75LAN references the test data of HD5-CN75WAN.

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The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: HD5-CN75LAN).

2. Difference Section

The difference between original model and the variant model is remove WWAN operation and spot-check WLAN/BT operation were performed on the head and body-worn condition to ensure that the SAR measurement for both device are the same, and the original model please refer to appendix A.

3. Spot Check Verification Data Section

The spot check verification shows the WLAN/BT SAR performance of HD5-CN75WAN represents the performance of HD5-CN75LAN.

<Head SAR>

| | | _ | | | | | | _ | | | | (HD5-C | N75WAN) | | | Spot Ch | eck Mod | e (HD5- | CN75LAN) | | |
|------------|---------------|------------------|-------------|----------|-----|----------------|---------------------------|---------------------------|--------------------|------------------------|------------------------------|------------------------------|---------|---------------------------|--------------------|------------------------|------------------------------|------------------------------|-----------|--|--|
| Band | Mode | Test Position | Gap (mm) | Sample | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Duty Cycle % | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | | Tune-Up Limit (dBm) | Duty Cycle % | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Deviation | | |
| WLAN2.4GHz | 802.11b 1Mbps | Left Cheek | 0mm | Sample 3 | 11 | 2462 | 17.27 | 18.00 | 100.000 | 0.050 | 0.070 | 0.083 | 17.11 | 18.00 | 100.000 | 0.120 | 0.057 | 0.070 | -15.7% | | |
| WLAN5GHz | 802.11a 6Mbps | Left Cheek | 0mm | Sample 1 | 64 | 5320 | 13.39 | 14.00 | 98.900 | 0.143 | 0.076 | 0.088 | 13.06 | 14.00 | 98.900 | 0.190 | 0.066 | 0.083 | -5.7% | | |
| WLAN5GHz | 802.11a 6Mbps | Left Cheek | 0mm | Sample 3 | 140 | 5700 | 13.15 | 14.00 | 98.900 | 0.159 | 0.064 | 0.079 | 13.00 | 14.00 | 98.900 | 0.180 | 0.065 | 0.083 | 5.1% | | |
| WLAN5GHz | 802.11a 6Mbps | Left Cheek | 0mm | Sample 2 | 165 | 5825 | 13.41 | 14.00 | 98.810 | 0.097 | 0.07 | 0.081 | 13.10 | 14.00 | 98.810 | 0.160 | 0.057 | 0.071 | -12.3% | | |

<Body-Worn SAR>

| | About Wolff CAILS | | | | | | | | | | | | | | | | | | |
|------------|-------------------|------------------|-------------|----------|-----|----------------|---------------------------|------------------------------|--------------------|------------------------|------------------------------|-------------------------------|---------------------------|---------------------------|--------------------|------------------------|------------------------------|------------------------------|-----------|
| | | | | | | | | Original Model (HD5-CN75WAN) | | | | Spot Check Mode (HD5-CN75LAN) | | | | | | | |
| Band | Mode | Test Position | Gap (mm) | Sample | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Duty Cycle % | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Average Power (dBm) | Tune-Up Limit (dBm) | Duty Cycle % | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Deviation |
| WLAN2.4GHz | 802.11b 1Mbps | Back | 10mm | Sample 4 | 6 | 2437 | 17.20 | 18.00 | 100.000 | 0.039 | 0.057 | 0.069 | 17.18 | 18.00 | 100.000 | -0.059 | 0.048 | 0.058 | -15.9% |
| WLAN5GHz | 802.11a 6Mbps | Back | 10mm | Sample 4 | 64 | 5320 | 13.39 | 14.00 | 98.900 | 0.136 | 0.376 | 0.437 | 13.06 | 14.00 | 100.000 | -0.066 | 0.325 | 0.404 | -7.6% |
| WLAN5GHz | 802.11a 6Mbps | Back | 10mm | Sample 4 | 100 | 5500 | 13.19 | 14.00 | 98.900 | -0.065 | 0.329 | 0.401 | 13.05 | 14.00 | 100.000 | -0.127 | 0.271 | 0.337 | -16.0% |
| WLAN5GHz | 802.11a 6Mbps | Back | 10mm | Sample 3 | 165 | 5825 | 13.41 | 14.00 | 98.810 | -0.191 | 0.364 | 0.422 | 13.10 | 14.00 | 100.000 | -0.061 | 0.333 | 0.410 | -2.8% |
| Bluetooth | 1Mbps | Back | 10mm | Sample 2 | 39 | 2441 | 7.11 | 8.00 | 77.130 | -0.128 | 0.003 | 0.004 | 6.47 | 8.00 | 77.130 | -0.158 | 0.002 | 0.004 | 0.0% |

4. Reference detail Section

| Rule Part | Frequency Band (MHz) | Wireless Technology | Reference FCC ID | Reference Report Title | Reference Report No. | Reference Report Sections |
|--------------|--|------------------------|---------------------|---------------------------|-------------------------|--|
| 15C | 2400~2483.5 | Bluetooth | HD5-CN75WAN | FCC SAR Test Report | FA6D2819-01 | Sections related to Bluetooth test data |
| 15C | 2400~2483.5 | Wi-Fi | HD5-CN75WAN | FCC SAR Test Report | FA6D2819-01 | Sections related to WiFi test data |
| 15E | 5150~5250 5250~5350 5470~5725 5725~5850 | Wi-Fi | HD5-CN75WAN | FCC SAR Test Report | FA6D2819-01 | Sections related to WiFi test data |

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7. Uncertainty Assessment

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

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A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

| Uncertainty Distributions | Normal | Rectangular | Triangular | U-Shape |
|------------------------------------|--------------------|-------------|------------|---------|
| Multi-plying Factor ^(a) | 1/k ^(b) | 1/√3 | 1/√6 | 1/√2 |

- (a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- (b) κ is the coverage factor

Table 7.1. Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

| Error Description | Uncertainty Value (±%) | Probability | Divisor | (Ci) 1g | (Ci) 10g | Standard Uncertainty (1g) (±%) | Standard Uncertainty (10g) (±%) |
|-----------------------------------|------------------------------|-------------|---------|------------|-------------|--------------------------------------|---------------------------------------|
| Measurement System | | | | | | | |
| Probe Calibration | 6.00 | N | 1 | 1 | 1 | 6.0 | 6.0 |
| Axial Isotropy | 4.70 | R | 1.732 | 0.7 | 0.7 | 1.9 | 1.9 |
| Hemispherical Isotropy | 9.60 | R | 1.732 | 0.7 | 0.7 | 3.9 | 3.9 |
| Boundary Effects | 1.00 | R | 1.732 | 1 | 1 | 0.6 | 0.6 |
| Linearity | 4.70 | R | 1.732 | 1 | 1 | 2.7 | 2.7 |
| System Detection Limits | 1.00 | R | 1.732 | 1 | 1 | 0.6 | 0.6 |
| Modulation Response | 4.68 | R | 1.732 | 1 | 1 | 2.7 | 2.7 |
| Readout Electronics | 0.30 | N | 1 | 1 | 1 | 0.3 | 0.3 |
| Response Time | 0.00 | R | 1.732 | 1 | 1 | 0.0 | 0.0 |
| Integration Time | 2.60 | R | 1.732 | 1 | 1 | 1.5 | 1.5 |
| RF Ambient Noise | 3.00 | R | 1.732 | 1 | 1 | 1.7 | 1.7 |
| RF Ambient Reflections | 3.00 | R | 1.732 | 1 | 1 | 1.7 | 1.7 |
| Probe Positioner | 0.40 | R | 1.732 | 1 | 1 | 0.2 | 0.2 |
| Probe Positioning | 2.90 | R | 1.732 | 1 | 1 | 1.7 | 1.7 |
| Max. SAR Eval. | 2.00 | R | 1.732 | 1 | 1 | 1.2 | 1.2 |
| Test Sample Related | | | | | | | |
| Device Positioning | 3.03 | N | 1 | 1 | 1 | 3.0 | 3.0 |
| Device Holder | 3.60 | N | 1 | 1 | 1 | 3.6 | 3.6 |
| Power Drift | 5.00 | R | 1.732 | 1 | 1 | 2.9 | 2.9 |
| Power Scaling | 0.00 | R | 1.732 | 1 | 1 | 0.0 | 0.0 |
| Phantom and Setup | | | | | | | |
| Phantom Uncertainty | 6.10 | R | 1.732 | 1 | 1 | 3.5 | 3.5 |
| SAR correction | 0.00 | R | 1.732 | 1 | 0.84 | 0.0 | 0.0 |
| Liquid Conductivity Repeatability | 0.03 | N | 1 | 0.78 | 0.71 | 0.0 | 0.0 |
| Liquid Conductivity (target) | 5.00 | R | 1.732 | 0.78 | 0.71 | 2.3 | 2.0 |
| Liquid Conductivity (mea.) | 2.50 | R | 1.732 | 0.78 | 0.71 | 1.1 | 1.0 |
| Temp. unc Conductivity | 3.68 | R | 1.732 | 0.78 | 0.71 | 1.7 | 1.5 |
| Liquid Permittivity Repeatability | 0.02 | N | 1 | 0.23 | 0.26 | 0.0 | 0.0 |
| Liquid Permittivity (target) | 5.00 | R | 1.732 | 0.23 | 0.26 | 0.7 | 0.8 |
| Liquid Permittivity (mea.) | 2.50 | R | 1.732 | 0.23 | 0.26 | 0.3 | 0.4 |
| Temp. unc Permittivity | 0.84 | R | 1.732 | 0.23 | 0.26 | 0.1 | 0.1 |
| Cor | mbined Std. Ur | ncertainty | | | | 11.6% | 11.6% |
| | verage Factor | | | | | K=2 | K=2 |
| Expanded STD Uncertainty | | | | | | | 23.1% |

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Table 7.2. Uncertainty Budget for frequency range 300 MHz to 3 GHz

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| Error Description | Uncertainty Value (±%) | Probability | Divisor | (Ci) 1g | (Ci) 10g | Standard Uncertainty (1g) (±%) | Standard Uncertainty (10g) (±%) | |
|-----------------------------------|------------------------------|-------------|---------|------------|-------------|--------------------------------------|---------------------------------------|--|
| Measurement System | | | | | | | | |
| Probe Calibration | 7.00 | N | 1 | 1 | 1 | 7.0 | 7.0 | |
| Axial Isotropy | 4.70 | R | 1.732 | 0.7 | 0.7 | 1.9 | 1.9 | |
| Hemispherical Isotropy | 9.60 | R | 1.732 | 0.7 | 0.7 | 3.9 | 3.9 | |
| Boundary Effects | 2.00 | R | 1.732 | 1 | 1 | 1.2 | 1.2 | |
| Linearity | 4.70 | R | 1.732 | 1 | 1 | 2.7 | 2.7 | |
| System Detection Limits | 1.00 | R | 1.732 | 1 | 1 | 0.6 | 0.6 | |
| Modulation Response | 4.68 | R | 1.732 | 1 | 1 | 2.7 | 2.7 | |
| Readout Electronics | 0.30 | N | 1 | 1 | 1 | 0.3 | 0.3 | |
| Response Time | 0.00 | R | 1.732 | 1 | 1 | 0.0 | 0.0 | |
| Integration Time | 2.60 | R | 1.732 | 1 | 1 | 1.5 | 1.5 | |
| RF Ambient Noise | 3.00 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | |
| RF Ambient Reflections | 3.00 | R | 1.732 | 1 | 1 | 1.7 | 1.7 | |
| Probe Positioner | 0.40 | R | 1.732 | 1 | 1 | 0.2 | 0.2 | |
| Probe Positioning | 6.70 | R | 1.732 | 1 | 1 | 3.9 | 3.9 | |
| Max. SAR Eval. | 4.00 | R | 1.732 | 1 | 1 | 2.3 | 2.3 | |
| Test Sample Related | | | | | | | | |
| Device Positioning | 3.03 | N | 1 | 1 | 1 | 3.0 | 3.0 | |
| Device Holder | 3.60 | N | 1 | 1 | 1 | 3.6 | 3.6 | |
| Power Drift | 5.00 | R | 1.732 | 1 | 1 | 2.9 | 2.9 | |
| Power Scaling | 0.00 | R | 1.732 | 1 | 1 | 0.0 | 0.0 | |
| Phantom and Setup | | | | | | | | |
| Phantom Uncertainty | 6.60 | R | 1.732 | 1 | 1 | 3.8 | 3.8 | |
| SAR correction | 0.00 | R | 1.732 | 1 | 0.84 | 0.0 | 0.0 | |
| Liquid Conductivity Repeatability | 0.03 | N | 1 | 0.78 | 0.71 | 0.0 | 0.0 | |
| Liquid Conductivity (target) | 5.00 | R | 1.732 | 0.78 | 0.71 | 2.3 | 2.0 | |
| Liquid Conductivity (mea.) | 2.50 | R | 1.732 | 0.78 | 0.71 | 1.1 | 1.0 | |
| Temp. unc Conductivity | 3.68 | R | 1.732 | 0.78 | 0.71 | 1.7 | 1.5 | |
| Liquid Permittivity Repeatability | 0.02 | N | 1 | 0.23 | 0.26 | 0.0 | 0.0 | |
| Liquid Permittivity (target) | 5.00 | R | 1.732 | 0.23 | 0.26 | 0.7 | 0.8 | |
| Liquid Permittivity (mea.) | 2.50 | R | 1.732 | 0.23 | 0.26 | 0.3 | 0.4 | |
| Temp. unc Permittivity | 0.84 | R | 1.732 | 0.23 | 0.26 | 0.1 | 0.1 | |
| Con | Combined Std. Uncertainty | | | | | | | |
| Co | verage Factor | for 95 % | | | | K=2 | K=2 | |
| Exp | Expanded STD Uncertainty | | | | | | | |

Table 7.3. Uncertainty Budget for frequency range 3 GHz to 6 GHz

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8. References

[1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"

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- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [9] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.