



Dipole 1880 MHz

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Multilateral Agreement for the recognition of calibration certificates

Client

CTTL-BJ (Auden)

Certificate No: CD1880V3-1018_Aug20

| Dbject | CD1880V3 - SN: 1018 | | |
|--|---|---|---|
| Calibration procedure(s) | QA CAL-20.v7 Calibration Procedure for Validation Sources in air | | |
| Calibration date: | August 18, 2020 | | |
| his calibration certificate documen | nts the traceability to nation | onal standards, which realize the physical uni | ts of measurements (SI). |
| ne measurements and the uncert | tainties with confidence pr | robability are given on the following pages an | d are part of the certificate. |
| Il calibrations have been conduct | ed in the closed laborates | or facility applicament temporature (00 : 000 | 2 and b dib 700/ |
| ii calibrations have been conducti | ed in the closed laborator | y facility: environment temperature (22 ± 3)°C | and humidity < 70%. |
| Calibration Equipment used (M&TE | E critical for calibration) | | |
| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
| Power meter NRP | SN: 104778 | 01-Apr-20 (No. 217-03100/03101) | Apr-21 |
| ower sensor NRP-Z91 | SN: 103244 | 01-Apr-20 (No. 217-03100) | Apr-21 |
| ower sensor NRP-Z91 | SN: 103245 | 01-Apr-20 (No. 217-03100) | Apr-21 |
| eference 20 dB Attenuator | SN: BH9394 (20k) | 31-Mar-20 (No. 217-03106) | Apr-21 |
| | O14. D110004 (2011) | 31-Wai-20 (W. 217-03100) | Apr-21 |
| | SN: 310982 / 06327 | 31-Mar-20 (No. 217-03104) | Apr 21 |
| ype-N mismatch combination | SN: 310982 / 06327 | 31-Mar-20 (No. 217-03104) | Apr-21 |
| ype-N mismatch combination robe EF3DV3 | SN: 310982 / 06327 SN: 4013 SN: 781 | 31-Dec-19 (No. EF3-4013_Dec19) | Dec-20 |
| Type-N mismatch combination Probe EF3DV3 | SN: 4013 | | 2000 S000 |
| Type-N mismatch combination Probe EF3DV3 DAE4 Secondary Standards | SN: 4013 | 31-Dec-19 (No. EF3-4013_Dec19) | Dec-20 |
| Type-N mismatch combination Probe EF3DV3 DAE4 Secondary Standards | SN: 4013 SN: 781 | 31-Dec-19 (No. EF3-4013_Dec19) 27-Dec-19 (No. DAE4-781_Dec19) Check Date (in house) | Dec-20 Dec-20 Scheduled Check |
| ype-N mismatch combination robe EF3DV3 AE4 secondary Standards rower meter Agilent 4419B | SN: 4013 SN: 781 | 31-Dec-19 (No. EF3-4013_Dec19) 27-Dec-19 (No. DAE4-781_Dec19) Check Date (in house) 09-Oct-09 (in house check Oct-17) | Dec-20 Dec-20 Scheduled Check In house check: Oct-20 |
| Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A | SN: 4013 SN: 781 ID # SN: GB42420191 | 31-Dec-19 (No. EF3-4013_Dec19) 27-Dec-19 (No. DAE4-781_Dec19) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) | Dec-20 Dec-20 Scheduled Check In house check: Oct-20 In house check: Oct-20 |
| Power sensor HP 8482A | SN: 4013 SN: 781 ID# SN: GB42420191 SN: US38485102 | 31-Dec-19 (No. EF3-4013_Dec19) 27-Dec-19 (No. DAE4-781_Dec19) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 09-Oct-09 (in house check Oct-17) | Dec-20 Dec-20 Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 |
| Prope-N mismatch combination Probe EF3DV3 DAE4 Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06 | SN: 4013 SN: 781 ID # SN: GB42420191 SN: US38485102 SN: US37295597 | 31-Dec-19 (No. EF3-4013_Dec19) 27-Dec-19 (No. DAE4-781_Dec19) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) | Dec-20 Dec-20 Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 |
| Fype-N mismatch combination Probe EF3DV3 DAE4 | SN: 4013 SN: 781 ID # SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005 | 31-Dec-19 (No. EF3-4013_Dec19) 27-Dec-19 (No. DAE4-781_Dec19) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 10-Jan-19 (in house check Jan-19) 31-Mar-14 (in house check Oct-19) | Dec-20 Dec-20 Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 |
| Prope-N mismatch combination Probe EF3DV3 DAE4 Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06 Jetwork Analyzer Agilent E8358A | SN: 4013 SN: 781 ID # SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477 Name | 31-Dec-19 (No. EF3-4013_Dec19) 27-Dec-19 (No. DAE4-781_Dec19) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 10-Jan-19 (in house check Jan-19) 31-Mar-14 (in house check Oct-19) | Dec-20 Dec-20 |
| ype-N mismatch combination Probe EF3DV3 PAE4 Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A EF generator R&S SMT-06 Letwork Analyzer Agilent E8358A | SN: 4013 SN: 781 ID# SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477 | 31-Dec-19 (No. EF3-4013_Dec19) 27-Dec-19 (No. DAE4-781_Dec19) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 10-Jan-19 (in house check Jan-19) 31-Mar-14 (in house check Oct-19) | Dec-20 Dec-20 Scheduled Check In house check: Oct-20 Signature |
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Certificate No: CD1880V3-1018_Aug20

Page 1 of 5





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Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

References

ANSI-C63.19-2011 American National Standard, Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

Methods Applied and Interpretation of Parameters:

- Coordinate System: y-axis is in the direction of the dipole arms. z-axis is from the basis of the antenna (mounted on the table) towards its feed point between the two dipole arms. x-axis is normal to the other axes. In coincidence with the standards [1], the measurement planes (probe sensor center) are selected to be at a distance of 15 mm above the top metal edge of the dipole arms.
- Measurement Conditions: Further details are available from the hardcopies at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated. The forward power to the dipole connector is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level.
- Antenna Positioning: The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole positioner with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching grid reference point (tip of the probe) considering the probe sensor offset. The vertical distance to the probe is essential for the
- Feed Point Impedance and Return Loss: These parameters are measured using a Vector Network Analyzer. The impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any obstacles.
- E-field distribution: E field is measured in the x-y-plane with an isotropic E-field probe with 100 mW forward power to the antenna feed point. In accordance with [1], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 15 mm (in z) above the metal top of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any nonparallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E-field, in the plane above the dipole surface.

| The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the |
|--|
| coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%. |
| 95%. which lot a normal distribution corresponds to a coverage probability of approximately 95%. |

| Certificate No: CD1880V3-1018_Aug20 | Page 2 of 5 | |
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Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version | DASY5 | V52.10.4 |
|------------------------------------|------------------|----------|
| Phantom | HAC Test Arch | |
| Distance Dipole Top - Probe Center | 15 mm | |
| Scan resolution | dx, dy = 5 mm | |
| Frequency | 1880 MHz ± 1 MHz | |
| Input power drift | < 0.05 dB | |

Maximum Field values at 1880 MHz

| E-field 15 mm above dipole surface | condition | Interpolated maximum |
|------------------------------------|--------------------|-------------------------|
| Maximum measured above high end | 100 mW input power | 87.8 V/m = 38.87 dBV/m |
| Maximum measured above low end | 100 mW input power | 87.1 V/m = 38.80 dBV/m |
| Averaged maximum above arm | 100 mW input power | 87.4 V/m ± 12.8 % (k=2) |

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

| Frequency | Return Loss | Impedance |
|-----------|-------------|-----------------------------|
| 1730 MHz | 27.9 dB | 54.2 Ω + 0.5 jΩ |
| 1880 MHz | 22.4 dB | 54.6 Ω + 6.5 jΩ |
| 1900 MHz | 22.8 dB | 56.2 Ω + 4.5 jΩ |
| 1950 MHz | 31.8 dB | $52.6 \Omega + 0.4 j\Omega$ |
| 2000 MHz | 19.7 dB | 47.6 Ω + 9.9 jΩ |

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

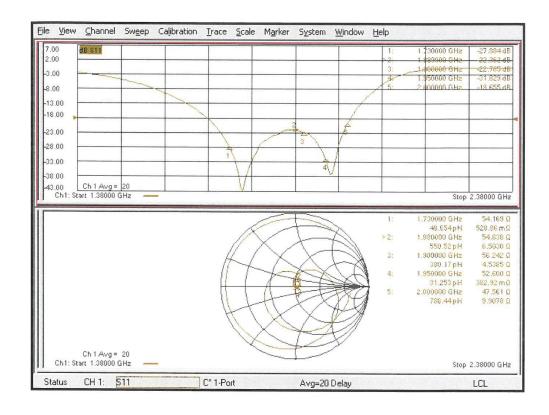
The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DC signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.



Impedance Measurement Plot



Certificate No: CD1880V3-1018_Aug20

Page 4 of 5





DASY5 E-field Result

Date: 18.08.2020

Test Laboratory: SPEAG Lab2

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: CD1880V3 - SN: 1018

Communication System: UID 0 - CW; Frequency: 1880 MHz Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EF3DV3 - SN4013; ConvF(1, 1, 1) @ 1880 MHz; Calibrated: 31.12.2019

Sensor-Surface: (Fix Surface)

Electronics: DAE4 Sn781; Calibrated: 27.12.2019

Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole E-Field measurement @ 1880MHz/E-Scan - 1880MHz d=15mm/Hearing Aid Compatibility Test (41x181x1):

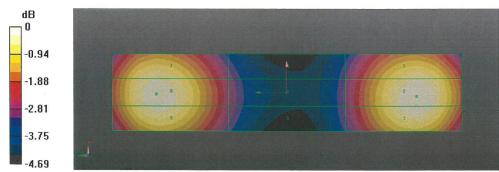
Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 156.4 V/m; Power Drift = 0.00 dB Applied MIF = 0.00 dB

RF audio interference level = 38.87 dBV/m

Emission category: M2

MIF scaled E-field

| Grid 1 M2 | Grid 2 M2 | Grid 3 M2 |
|------------------|------------------|------------------|
| 38.55 dBV/m | 38.87 dBV/m | 38.82 dBV/m |
| Grid 4 M2 | Grid 5 M2 | Grid 6 M2 |
| 35.96 dBV/m | 36.14 dBV/m | 36.09 dBV/m |
| Grid 7 M2 | Grid 8 M2 | Grid 9 M2 |
| 38.55 dBV/m | 38.8 dBV/m | 38.7 dBV/m |



0 dB = 87.78 V/m = 38.87 dBV/m

Certificate No: CD1880V3-1018_Aug20

Page 5 of 5





Dipole 2450 MHz

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Client

CTTL-BJ (Auden)

Certificate No: CD2450V3-1021_Aug20

| Object | CD2450V3 - SN: | 1021 | |
|--------------------------------------|--|--|---------------------------------|
| Calibration procedure(s) | QA CAL-20.v7 Calibration Procedure for Validation Sources in air | | |
| Calibration date: | August 18, 2020 | | |
| This calibration certificate documen | ts the traceability to nation | onal standards, which realize the physical ur | nits of measurements (SI). |
| he measurements and the uncerta | inties with confidence pr | robability are given on the following pages ar | nd are part of the certificate. |
| All calibrations have been conducte | ed in the closed laborator | y facility: environment temperature (22 ± 3)° | C and humidity < 70% |
| | | y reality. Grand temperature (22 ± 5) | o and numbers 70%. |
| Calibration Equipment used (M&TE | Francisco de la constante de l | | |
| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
| Power meter NRP | SN: 104778 | 01-Apr-20 (No. 217-03100/03101) | Apr-21 |
| Power sensor NRP-Z91 | SN: 103244 | 01-Apr-20 (No. 217-03100) | Apr-21 |
| Power sensor NRP-Z91 | SN: 103245 | 01-Apr-20 (No. 217-03101) | Apr-21 |
| Reference 20 dB Attenuator | SN: BH9394 (20k) | 31-Mar-20 (No. 217-03106) | Apr-21 |
| ype-N mismatch combination | SN: 310982 / 06327 | 31-Mar-20 (No. 217-03104) | Apr-21 |
| Probe EF3DV3 | SN: 4013 | 31-Dec-19 (No. EF3-4013_Dec19) | Dec-20 |
| DAE4 | SN: 781 | 27-Dec-19 (No. DAE4-781_Dec19) | Dec-20 |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| Power meter Agilent 4419B | SN: GB42420191 | 09-Oct-09 (in house check Oct-17) | In house check: Oct-20 |
| Power sensor HP E4412A | SN: US38485102 | 05-Jan-10 (in house check Oct-17) | In house check: Oct-20 |
| Power sensor HP 8482A | SN: US37295597 | 09-Oct-09 (in house check Oct-17) | In house check: Oct-20 |
| RF generator R&S SMT-06 | SN: 837633/005 | 10-Jan-19 (in house check Jan-19) | In house check: Oct-20 |
| Network Analyzer Agilent E8358A | SN: US41080477 | 31-Mar-14 (in house check Oct-19) | In house check: Oct-20 |
| | Name | Function | Signature |
| Calibrated by: | Leif Klysner | Laboratory Technician | P1911 - |
| | | | and little |
| | Katja Pokovic | Technical Manager | Muc |
| Approved by: | Raya FOROVIC | | |
| Approved by: | Raya FOROVIC | | seas |

Certificate No: CD2450V3-1021_Aug20

Page 1 of 5





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Accreditation No.: SCS 0108

References

[1] ANSI-C63.19-2011 American National Standard, Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

Methods Applied and Interpretation of Parameters:

- Coordinate System: y-axis is in the direction of the dipole arms. z-axis is from the basis of the antenna
 (mounted on the table) towards its feed point between the two dipole arms. x-axis is normal to the other axes.
 In coincidence with the standards [1], the measurement planes (probe sensor center) are selected to be at a
 distance of 15 mm above the top metal edge of the dipole arms.
- Measurement Conditions: Further details are available from the hardcopies at the end of the certificate. All
 figures stated in the certificate are valid at the frequency indicated. The forward power to the dipole connector
 is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a
 directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level.
- Antenna Positioning: The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole positioner with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching grid reference point (tip of the probe) considering the probe sensor offset. The vertical distance to the probe is essential for the accuracy.
- Feed Point Impedance and Return Loss: These parameters are measured using a Vector Network Analyzer.
 The impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any obstacles.
- E-field distribution: E field is measured in the x-y-plane with an isotropic E-field probe with 100 mW forward power to the antenna feed point. In accordance with [1], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 15 mm (in z) above the metal top of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E-field, in the plane above the dipole surface.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

| Certificate No: CD2450V3-1021_Aug20 | Page 2 of 5 | |
|-------------------------------------|-------------|--|
| | | |





Measurement Conditions

DASY system configuration, as far as not given on page 1.

| DASY Version | DASY5 | V52.10.4 |
|------------------------------------|------------------|----------|
| Phantom | HAC Test Arch | |
| Distance Dipole Top - Probe Center | 15 mm | |
| Scan resolution | dx, dy = 5 mm | |
| Frequency | 2450 MHz ± 1 MHz | |
| Input power drift | < 0.05 dB | |

Maximum Field values at 2450 MHz

| E-field 15 mm above dipole surface | condition | Interpolated maximum |
|------------------------------------|--------------------|-------------------------|
| Maximum measured above high end | 100 mW input power | 85.8 V/m = 38.67 dBV/m |
| Maximum measured above low end | 100 mW input power | 85.4 V/m = 38.62 dBV/m |
| Averaged maximum above arm | 100 mW input power | 85.6 V/m ± 12.8 % (k=2) |

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

| Frequency | Return Loss | Impedance |
|-----------|-------------|-----------------|
| 2250 MHz | 18.4 dB | 63.0 Ω + 4.2 jΩ |
| 2350 MHz | 30.9 dB | 52.3 Ω - 1.8 jΩ |
| 2450 MHz | 27.9 dB | 53.9 Ω - 1.4 jΩ |
| 2550 MHz | 30.0 dB | 50.5 Ω - 3.1 jΩ |
| 2650 MHz | 19.2 dB | 59.7 Ω - 7.1 jΩ |

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DC signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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| Certificate No: CD2450V3-1021_Aug20 | Page 3 of 5 | |