



## ANNEX E DIPOLE CALIBRATION CERTIFICATE

## Dipole 835 MHz

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





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Swiss Calibration Service

Accreditation No.: SCS 0108

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Client

Auden

Certificate No: CD835V3-1030\_Jul21

bject	CD835V3 - SN: 1	030	
	QA CAL-20.v7 Calibration Proce	dure for Validation Sources in air	
alibration date:	July 09, 2021		
		onal standards, which realize the physical unit	
пе теаѕигетенк апо те uncerta	inues with confidence pr	obability are given on the following pages and	and part of the certificate.
Il calibrations have been conducted	d in the closed laborator	y facility: environment temperature $(22 \pm 3)^{\circ}$ C	and humidity < 70%.
Calibration Equipment used (M&TE	critical for calibration)		
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Apr-22
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
Reference 20 dB Attenuator	SN: BH9394 (20k)	09-Apr-21 (No. 217-03343)	Apr-22
	SN: 310982 / 06327	09-Apr-21 (No. 217-03344)	Apr-22
vpe-N mismatch combination			
	SN: 4013	28-Dec-20 (No. EF3-4013 Dec20)	Dec-21
ype-N mismatch combination Probe EF3DV3 DAE4		28-Dec-20 (No. EF3-4013_Dec20) 23-Dec-20 (No. DAE4-781_Dec20)	Dec-21 Dec-21
robe EF3DV3 DAE4	SN: 4013	23-Dec-20 (No. DAE4-781_Dec20)	
Probe EF3DV3 DAE4 Secondary Standards	SN: 4013 SN: 781	23-Dec-20 (No. DAE4-781_Dec20)  Check Date (in house)	Dec-21 Scheduled Check
robe EF3DV3 DAE4	SN: 4013 SN: 781	23-Dec-20 (No. DAE4-781_Dec20)  Check Date (in house)  09-Oct-09 (in house check Oct-20)	Dec-21  Scheduled Check In house check: Oct-23
Probe EF3DV3 DAE4 Secondary Standards Power meter Agilent 4419B	SN: 4013 SN: 781 ID # SN: GB42420191 SN: US38485102	23-Dec-20 (No. DAE4-781_Dec20)  Check Date (in house)  09-Oct-09 (in house check Oct-20)  05-Jan-10 (in house check Oct-20)	Scheduled Check In house check: Oct-23 In house check: Oct-23
Probe EF3DV3 DAE4 Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A	SN: 4013 SN: 781 ID # SN: GB42420191	23-Dec-20 (No. DAE4-781_Dec20)  Check Date (in house)  09-Oct-09 (in house check Oct-20)  05-Jan-10 (in house check Oct-20)  09-Oct-09 (in house check Oct-20)	Scheduled Check In house check: Oct-23 In house check: Oct-23 In house check: Oct-23
Probe EF3DV3 DAE4 Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A	SN: 4013 SN: 781 ID # SN: GB42420191 SN: US38485102 SN: US37295597	23-Dec-20 (No. DAE4-781_Dec20)  Check Date (in house)  09-Oct-09 (in house check Oct-20)  05-Jan-10 (in house check Oct-20)	Scheduled Check In house check: Oct-23 In house check: Oct-23 In house check: Oct-23
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 SN: 837633/005	23-Dec-20 (No. DAE4-781_Dec20)  Check Date (in house)  09-Oct-09 (in house check Oct-20)  05-Jan-10 (in house check Oct-20)  09-Oct-09 (in house check Oct-20)  10-Jan-19 (in house check Oct-20)	Scheduled Check In house check: Oct-23 In house check: Oct-23 In house check: Oct-23 In house check: Oct-23
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 SN: 837633/005 SN: US41080477	23-Dec-20 (No. DAE4-781_Dec20)  Check Date (in house)  09-Oct-09 (in house check Oct-20)  05-Jan-10 (in house check Oct-20)  09-Oct-09 (in house check Oct-20)  10-Jan-19 (in house check Oct-20)  31-Mar-14 (in house check Oct-20)	Scheduled Check In house check: Oct-23 In house check: Oct-23 In house check: Oct-23 In house check: Oct-23 In house check: Oct-24
Probe EF3DV3 DAE4  Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06 Network Analyzer Agilent E8358A	SN: 4013 SN: 781 ID # SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477	23-Dec-20 (No. DAE4-781_Dec20)  Check Date (in house)  09-Oct-09 (in house check Oct-20)  05-Jan-10 (in house check Oct-20)  09-Oct-09 (in house check Oct-20)  10-Jan-19 (in house check Oct-20)  31-Mar-14 (in house check Oct-20)	Scheduled Check In house check: Oct-23 In house check: Oct-23 In house check: Oct-23 In house check: Oct-24 In house check: Oct-25

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Multilateral Agreement for the recognition of calibration certificates

#### References

[1] ANSI-C63.19-2019 (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%.

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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	835 MHz ± 1 MHz	
Input power drift	< 0.05 dB	

## Maximum Field values at 835 MHz

E-field 15 mm above dipole surface	condition	Interpolated maximum
Maximum measured above high end	100 mW input power	110.9 V/m = 40.90 dBV/m
Maximum measured above low end	100 mW input power	107.7 V/m = 40.64 dBV/m
Averaged maximum above arm	100 mW input power	109.3 V/m ± 12.8 % (k=2)

## Appendix (Additional assessments outside the scope of SCS 0108)

## **Antenna Parameters**

Frequency	Return Loss	Impedance
800 MHz	16.6 dB	39.4 Ω - 8.2 jΩ
835 MHz	25.9 dB	$51.6 \Omega + 4.9 j\Omega$
880 MHz	18.7 dB	59.4 Ω - 8.6 jΩ
900 MHz	18.6 dB	52.6 Ω - 11.9 jΩ
945 MHz	20.0 dB	53.0 Ω + 10.0 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.

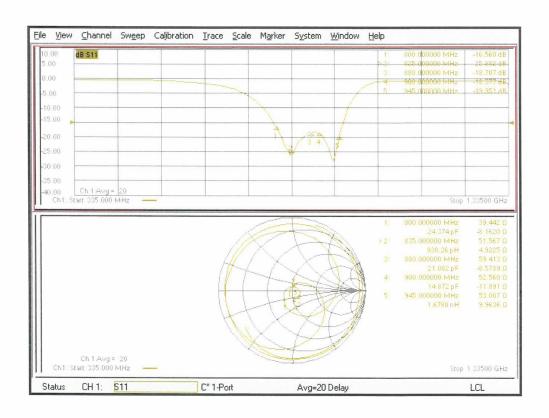
Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

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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## Impedance Measurement Plot



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## **DASY5 E-field Result**

Date: 09.07.2021

Test Laboratory: SPEAG Lab2

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: CD835V3 - SN:  $1030\,$ 

Communication System: UID 0 - CW ; Frequency: 835 MHz Medium parameters used:  $\sigma=0$  S/m,  $\epsilon_r=1$ ;  $\rho=0$  kg/m $^3$  Phantom section: RF Section

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

## DASY52 Configuration:

- Probe: EF3DV3 SN4013; ConvF(1, 1, 1) @ 835 MHz; Calibrated: 28.12.2020
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 23.12.2020
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.10.4(1534); SEMCAD X 14.6.14(7500)

### Dipole E-Field measurement @ 835MHz/E-Scan - 835MHz d=15mm/Hearing Aid Compatibility Test (41x361x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 132.1 V/m; Power Drift = -0.00 dB

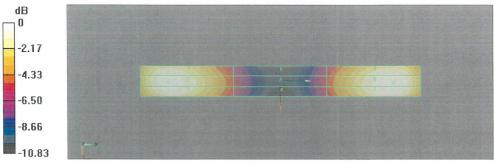
Applied MIF = 0.00 dB

RF audio interference level = 40.90 dBV/m

Emission category: M3

MIF scaled E-field

Grid 1 M3	Grid 2 M3	Grid 3 M3
40.56 dBV/m	40.64 dBV/m	40.35 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
35.7 dBV/m	35.71 dBV/m	35.42 dBV/m
Grid 7 M3	Grid 8 M3	Grid 9 M3
40.85 dBV/m	40.9 dBV/m	40.51 dBV/m



0 dB = 110.9 V/m = 40.90 dBV/m

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## Dipole 1880 MHz

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





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Client

	ERTIFICATE		
Object	CD1880V3 - SN: 1023		
Calibration procedure(s)	QA CAL-20.v7 Calibration Procedure for Validation Sources in air		
Calibration date:	July 09, 2021		
	10 A	onal standards, which realize the physical uni	
ine measurements and the uncerta	ainties with confidence pr	robability are given on the following pages an	d are part of the certificate.
All calibrations have been conducted	ed in the closed laborator	y facility: environment temperature (22 $\pm$ 3) $^{\circ}$ C	and humidity < 70%.
Calibration Equipment used (M&TE	critical for calibration)		
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Apr-22
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
Reference 20 dB Attenuator	SN: BH9394 (20k)	09-Apr-21 (No. 217-03343)	Apr-22
Type-N mismatch combination	SN: 310982 / 06327	09-Apr-21 (No. 217-03344)	Apr-22
Probe EF3DV3	SN: 4013	28-Dec-20 (No. EF3-4013_Dec20)	Dec-21
DAE4	SN: 781	23-Dec-20 (No. DAE4-781_Dec20)	Dec-21
	ID#	Check Date (in house)	Scheduled Check
Secondary Standards	CNI- OD40400404	09-Oct-09 (in house check Oct-20)	In house check: Oct-23
Secondary Standards Power meter Agilent 4419B	SN: GB42420191	00 Oct 00 (III House check Oct 20)	
	SN: GB42420191 SN: US38485102	05-Jan-10 (in house check Oct-20)	In house check: Oct-23
Power meter Agilent 4419B			In house check: Oct-23 In house check: Oct-23
Power meter Agilent 4419B Power sensor HP E4412A	SN: US38485102	05-Jan-10 (in house check Oct-20)	
Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A	SN: US38485102 SN: US37295597	05-Jan-10 (in house check Oct-20) 09-Oct-09 (in house check Oct-20)	In house check: Oct-23
Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06 Network Analyzer Agilent E8358A	SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477	05-Jan-10 (in house check Oct-20) 09-Oct-09 (in house check Oct-20) 10-Jan-19 (in house check Oct-20) 31-Mar-14 (in house check Oct-20) Function	In house check: Oct-23 In house check: Oct-23
Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06	SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477	05-Jan-10 (in house check Oct-20) 09-Oct-09 (in house check Oct-20) 10-Jan-19 (in house check Oct-20) 31-Mar-14 (in house check Oct-20)	In house check: Oct-23 In house check: Oct-23 In house check: Oct-21
Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06 Network Analyzer Agilent E8358A	SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477	05-Jan-10 (in house check Oct-20) 09-Oct-09 (in house check Oct-20) 10-Jan-19 (in house check Oct-20) 31-Mar-14 (in house check Oct-20) Function	In house check: Oct-23 In house check: Oct-23 In house check: Oct-21

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#### References

[1] ANSI-C63.19-2019 (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%.

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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	86.8 V/m = 38.77 dBV/m
Maximum measured above low end	100 mW input power	84.7 V/m = 38.56 dBV/m
Averaged maximum above arm	100 mW input power	85.8 V/m ± 12.8 % (k=2)

## Appendix (Additional assessments outside the scope of SCS 0108)

## **Antenna Parameters**

Frequency	Return Loss	Impedance
1730 MHz	22.9 dB	56.3 Ω + 4.3 jΩ
1880 MHz	22.2 dB	$57.7 \Omega + 3.3 j\Omega$
1900 MHz	22.5 dB	58.1 Ω + 0.0 jΩ
1950 MHz	30.0 dB	51.0 Ω - 3.0 jΩ
2000 MHz	20.8 dB	45.4 Ω + 7.4 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.

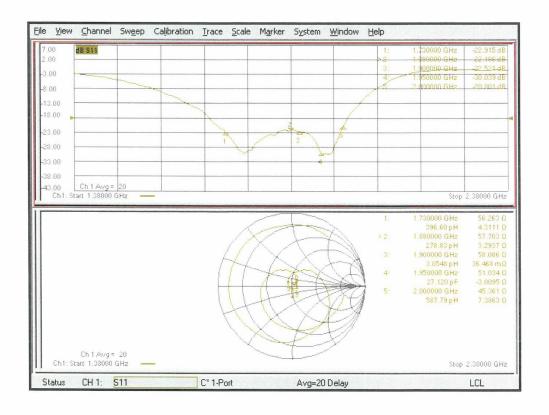
Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

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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## Impedance Measurement Plot



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### **DASY5 E-field Result**

Date: 09.07.2021

Test Laboratory: SPEAG Lab2

## DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: CD1880V3 - SN: 1023

Communication System: UID 0 - CW; Frequency: 1880 MHz Medium parameters used:  $\sigma = 0$  S/m,  $\varepsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

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: 28.12.2020
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 23.12.2020
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.10.4(1534); SEMCAD X 14.6.14(7500)

## 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 = 159.7 V/m; Power Drift = -0.01 dB

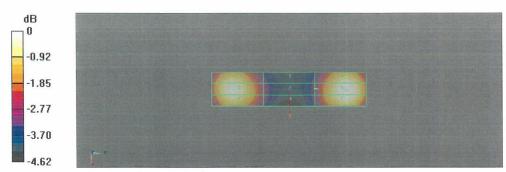
Applied MIF = 0.00 dB

RF audio interference level = 38.77 dBV/m

Emission category: M2

MIF scaled E-field

Grid 1 <b>M2</b>	Grid 2 M2	Grid 3 M2
38.43 dBV/m	38.56 dBV/m	38.34 dBV/m
Grid 4 M2	Grid 5 M2	Grid 6 M2
35.93 dBV/m	35.98 dBV/m	35.79 dBV/m
Grid 7 <b>M2</b>	Grid 8 M2	Grid 9 <b>M2</b>
38.73 dBV/m	38.77 dBV/m	38.49 dBV/m



0 dB = 86.84 V/m = 38.77 dBV/m

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# The photos of HAC test are presented in the additional document:

Appendix to test report No.I21Z61640-SEM02

The photos of HAC test