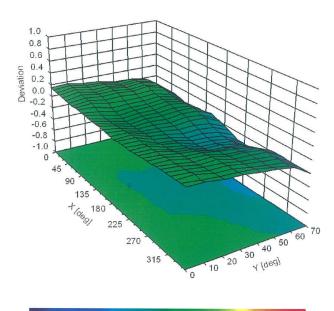




EF3DV3 – SN:4060 May 17, 2019

Deviation from Isotropy in Air Error (φ, θ), f = 900 MHz





Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

Certificate No: EF3-4060_May19

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ANNEX E DIPOLE CALIBRATION CERTIFICATE

Dipole 835 MHz

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





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Client

CTTL (Auden)

Certificate No: CD835V3-1023_Aug19

CALIBRATION CI	ERTIFICATE		
Dbject	CD835V3 - SN: 1	023	
Calibration procedure(s)	QA CAL-20.v7 Calibration Proce	dure for Validation Sources in air	
Calibration date:	August 26, 2019		
The measurements and the uncerta	inties with confidence po	onal standards, which realize the physical unit robability are given on the following pages and ry facility: environment temperature $(22\pm3)^{\circ}$ C	d are part of the certificate.
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-19 (No. 217-02894)	Apr-20
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-19 (No. 217-02895)	Apr-20
Probe EF3DV3	SN: 4013	03-Jan-19 (No. EF3-4013_Jan19)	Jan-20
DAE4	SN: 781	09-Jan-19 (No. DAE4-781_Jan19)	Jan-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-22
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19
,,			0:
	Name	Function	Signature
Calibrated by:	Name Leif Klysner	Function Laboratory Technician	Seef Illen
			Seif Mgm

Certificate No: CD835V3-1023_Aug19

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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 couple. 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: CD835V3-1023_Aug19 Page 2 of 5





Measurement Conditions

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

DASY system configuration, as far as not given	on page 1.	
DASY Version	DASY5	V52.10.2
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	106.7 V/m = 40.56 dBV/m
Maximum measured above low end	100 mW input power	106.6 V/m = 40.56 dBV/m
Averaged maximum above arm	100 mW input power	106.7 V/m ± 12.8 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

Frequency	Return Loss	Impedance
800 MHz	17.2 dB	41.4 $Ω$ - 9.3 j $Ω$
835 MHz	25.2 dB	$52.6 \Omega + 5.0 jΩ$
880 MHz	16.4 dB	62.6 Ω - 11.7 jΩ
900 MHz	16.2 dB	52.8 Ω - 15.9 jΩ
945 MHz	24.1 dB	45.6 Ω + 4.0 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.

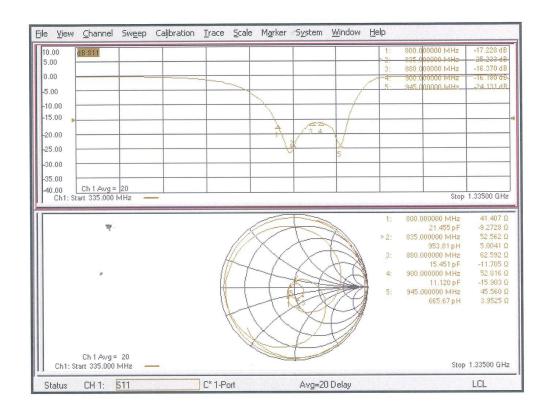
After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

Certificate No: CD835V3-1023_Aug19

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Impedance Measurement Plot







DASY5 E-field Result

Date: 26.08.2019

Test Laboratory: SPEAG Lab2

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: CD835V3 - SN: 1023

Communication System: UID 0 - CW ; Frequency: 835 MHz Medium parameters used: $\sigma=0$ S/m, $\epsilon_r=1$; $\rho=0$ kg/m³ Phantom section: RF Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

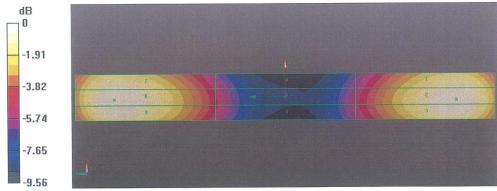
- Probe: EF3DV3 SN4013; ConvF(1, 1, 1) @ 835 MHz; Calibrated: 03.01.2019
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 09.01.2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

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

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 127.9 V/m; Power Drift = -0.01 dB
Applied MIF = 0.00 dB
RF audio interference level = 40.56 dBV/m
Emission category: M3

MIF scaled E-field

Grid 1 M3	Grid 2 M3	Grid 3 M3
40.08 dBV/m	40.56 dBV/m	40.51 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
35.34 dBV/m	35.68 dBV/m	35.67 dBV/m
Grid 7 M3	Grid 8 M3	Grid 9 M3
40.23 dBV/m	40.56 dBV/m	40.49 dBV/m



0 dB = 106.7 V/m = 40.56 dBV/m

Certificate No: CD835V3-1023_Aug19

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Dipole 1880 MHz

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Client

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Certificate No: CD1880V3-1018_Aug19

Dbject	CD1880V3 - SN:	1018	
Calibration procedure(s)	QA CAL-20.v7 Calibration Proce	dure for Validation Sources in air	
Calibration date:	August 26, 2019		
The measurements and the uncerta	ainties with confidence po	conal standards, which realize the physical unit robability are given on the following pages and γ facility: environment temperature (22 \pm 3)°C	d are part of the certificate.
	ID#	Cal Data (Cartificata No.)	Scheduled Calibration
Primary Standards Power meter NRP	SN: 104778	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893)	Apr-20
Power meter NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
	SN: 103244	03-Apr-19 (No. 217-02893)	Apr-20
Power sensor NRP-Z91	300000000 20000000000000000000000000000	03-Apr-19 (No. 217-02693) 04-Apr-19 (No. 217-02894)	Apr-20
7 - C			Apr-20
Reference 20 dB Attenuator	SN: 5058 (20k)		Apr 20
Type-N mismatch combination	SN: 5047.2 / 06327	04-Apr-19 (No. 217-02895)	Apr-20
Type-N mismatch combination Probe EF3DV3	SN: 5047.2 / 06327 SN: 4013	04-Apr-19 (No. 217-02895) 03-Jan-19 (No. EF3-4013_Jan19)	Jan-20
Reference 20 dB Attenuator Type-N mismatch combination Probe EF3DV3 DAE4	SN: 5047.2 / 06327	04-Apr-19 (No. 217-02895)	
Type-N mismatch combination Probe EF3DV3	SN: 5047.2 / 06327 SN: 4013	04-Apr-19 (No. 217-02895) 03-Jan-19 (No. EF3-4013_Jan19)	Jan-20
Type-N mismatch combination Probe EF3DV3 DAE4 Secondary Standards	SN: 5047.2 / 06327 SN: 4013 SN: 781	04-Apr-19 (No. 217-02895) 03-Jan-19 (No. EF3-4013_Jan19) 09-Jan-19 (No. DAE4-781_Jan19)	Jan-20 Jan-20 Scheduled Check In house check: Oct-20
Type-N mismatch combination Probe EF3DV3 DAE4 Secondary Standards Power meter Agilent 4419B	SN: 5047.2 / 06327 SN: 4013 SN: 781	04-Apr-19 (No. 217-02895) 03-Jan-19 (No. EF3-4013_Jan19) 09-Jan-19 (No. DAE4-781_Jan19) Check Date (in house) 09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17)	Jan-20 Jan-20 Scheduled Check In house check: Oct-20 In house check: Oct-20
Type-N mismatch combination Probe EF3DV3 DAE4	SN: 5047.2 / 06327 SN: 4013 SN: 781 ID# SN: GB42420191 SN: US38485102 SN: US37295597	04-Apr-19 (No. 217-02895) 03-Jan-19 (No. EF3-4013_Jan19) 09-Jan-19 (No. DAE4-781_Jan19) 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)	Jan-20 Jan-20 Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
Fype-N mismatch combination Probe EF3DV3 DAE4 Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A	SN: 5047.2 / 06327 SN: 4013 SN: 781 ID# SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005	04-Apr-19 (No. 217-02895) 03-Jan-19 (No. EF3-4013_Jan19) 09-Jan-19 (No. DAE4-781_Jan19) 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)	Jan-20 Jan-20 Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
Type-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: 5047.2 / 06327 SN: 4013 SN: 781 ID# SN: GB42420191 SN: US38485102 SN: US37295597	04-Apr-19 (No. 217-02895) 03-Jan-19 (No. EF3-4013_Jan19) 09-Jan-19 (No. DAE4-781_Jan19) 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)	Jan-20 Jan-20 Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
Type-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 Network Analyzer Agilent E8358A	SN: 5047.2 / 06327 SN: 4013 SN: 781 ID # SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477 Name	04-Apr-19 (No. 217-02895) 03-Jan-19 (No. EF3-4013_Jan19) 09-Jan-19 (No. DAE4-781_Jan19) 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) 10-Jan-19 (in house check Jan-19) 31-Mar-14 (in house check Oct-18) Function	Jan-20 Jan-20 Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
Type-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: 5047.2 / 06327 SN: 4013 SN: 781 ID # SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477	04-Apr-19 (No. 217-02895) 03-Jan-19 (No. EF3-4013_Jan19) 09-Jan-19 (No. DAE4-781_Jan19) 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 Oct-17) 10-Jan-19 (in house check Jan-19) 31-Mar-14 (in house check Oct-18)	Jan-20 Jan-20 Scheduled Check In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-21 In house check: Oct-19

Certificate No: CD1880V3-1018_Aug19

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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 couple. 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 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: CD1880V3-1018_Aug19

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Measurement Conditions

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

DASY Version	DASY5	V52.10.2
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	88.0 V/m = 38.89 dBV/m
Maximum measured above low end	100 mW input power	86.5 V/m = 38.74 dBV/m
Averaged maximum above arm	100 mW input power	87.3 V/m ± 12.8 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

Frequency	Return Loss	Impedance
1730 MHz	27.8 dB	$54.3 \Omega + 0.3 j\Omega$
1880 MHz	21.6 dB	$55.4 \Omega + 7.0 j\Omega$
1900 MHz	22.8 dB	56.3 Ω + 4.5 jΩ
1950 MHz	33.3 dB	52.2 Ω - 0.1 jΩ
2000 MHz	19.4 dB	47.6 Ω + 10.2 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.

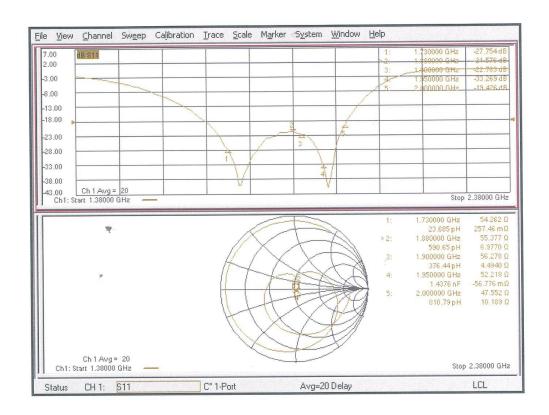
After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

Certificate No: CD1880V3-1018_Aug19

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Impedance Measurement Plot



Certificate No: CD1880V3-1018_Aug19





DASY5 E-field Result

Date: 26.08.2019

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)

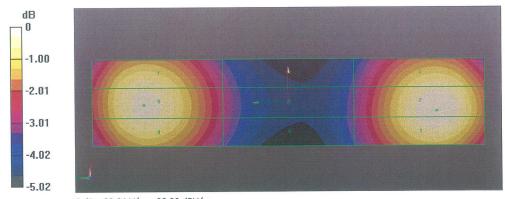
DASY52 Configuration:

- Probe: EF3DV3 SN4013; ConvF(1, 1, 1) @ 1880 MHz; Calibrated: 03.01.2019
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 09.01.2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

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 = 151.1 V/m; Power Drift = -0.01 dB Applied MIF = 0.00 dB RF audio interference level = 38.89 dBV/m Emission category: M2

MIF scaled E-field

	E8870E 2337	Grid 3 M2
38.47 dBV/m	38.89 dBV/m	38.86 dBV/m
Grid 4 M2	Grid 5 M2	Grid 6 M2
35.88 dBV/m	36.02 dBV/m	35.97 dBV/m
Grid 7 M2	Grid 8 M2	Grid 9 M2
38.51 dBV/m	38.74 dBV/m	38.6 dBV/m



0 dB = 88.04 V/m = 38.89 dBV/m

Certificate No: CD1880V3-1018_Aug19

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

Appendix to test report No.I20Z60571-SEM01/02

The photos of HAC test