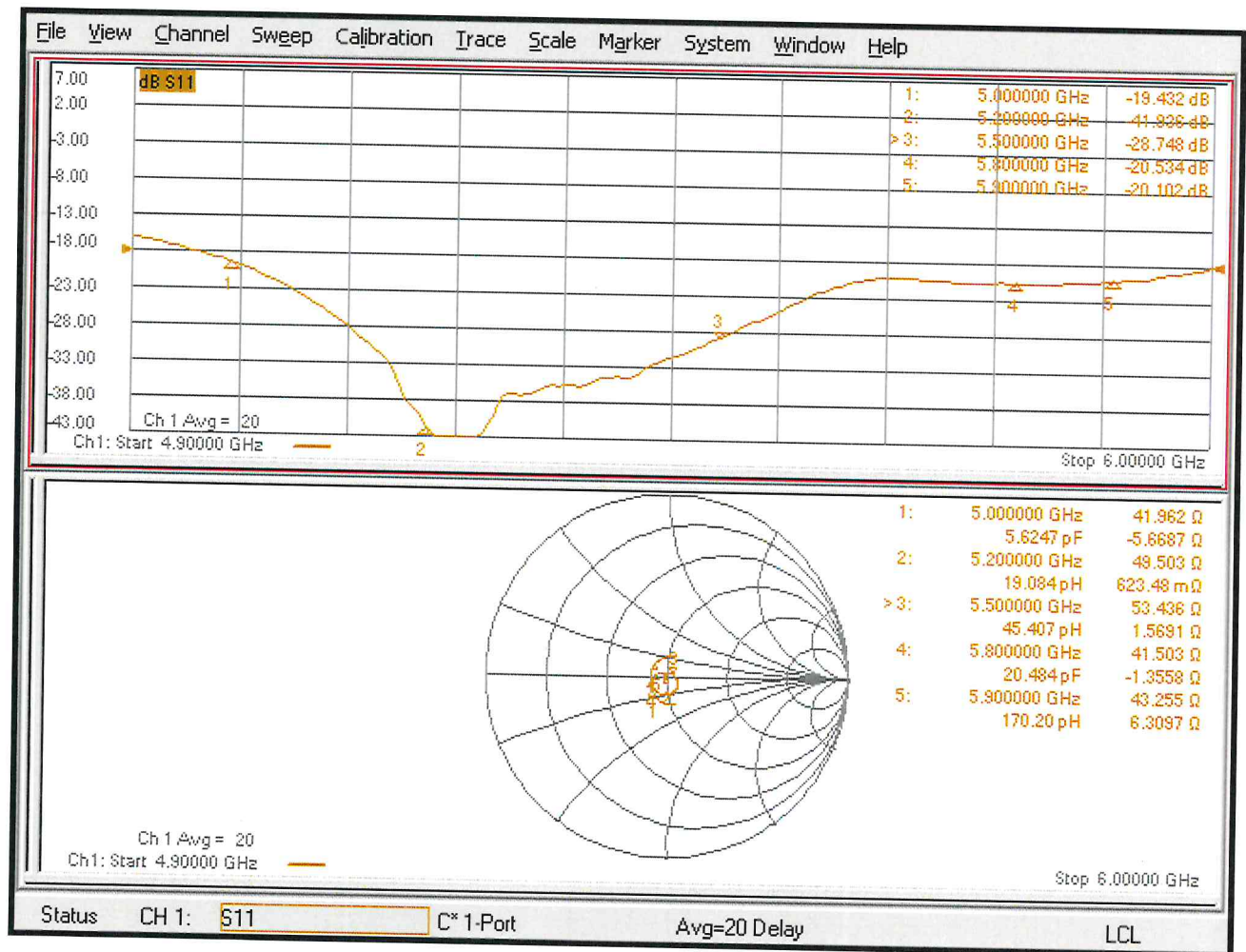


Impedance Measurement Plot



DASY5 E-field Result

Date: 26.01.2022

Test Laboratory: SPEAG Lab2

DUT: HAC Dipole 5500 MHz; Type: CD5500V3; Serial: CD5500V3 - SN: 1012

Communication System: UID 0 - CW ; Frequency: 5500 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) @ 5500 MHz; Calibrated: 28.12.2021
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 22.12.2021
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole E-Field measurement @ 5500MHz/E-Scan - 5500MHz d=15mm/Hearing Aid Compatibility Test (41x121x1):

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

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 128.9 V/m; Power Drift = -0.02 dB

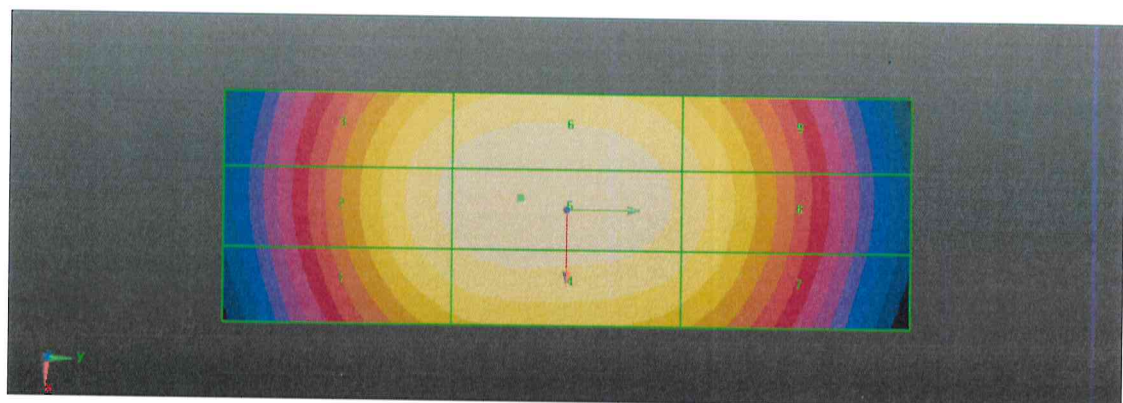
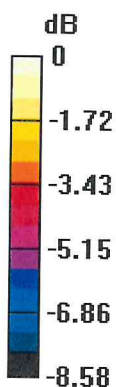
Applied MIF = 0.00 dB

RF audio interference level = 40.06 dBV/m

Emission category: M1

MIF scaled E-field

Grid 1 M2 39.39 dBV/m	Grid 2 M2 39.7 dBV/m	Grid 3 M2 39.59 dBV/m
Grid 4 M2 39.72 dBV/m	Grid 5 M1 40.06 dBV/m	Grid 6 M2 39.97 dBV/m
Grid 7 M2 39.1 dBV/m	Grid 8 M2 39.35 dBV/m	Grid 9 M2 39.26 dBV/m



0 dB = 100.6 V/m = 40.06 dBV/m

CD5500V3, Serial No. 1012 Extended Dipole Calibrations

Referring to KDB 865664 D01, if dipoles are verified in return loss (<-20dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

CD5500V2 – serial no. 1012						
5000 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2022.1.26	-19.432		41.962		-5.6687	
2023.1.25	-18.769	-3.41	41.076	0.886	-4.6626	-1.0061

CD5500V2 – serial no. 1012						
5200 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2022.1.26	-41.936		49.503		0.62348	
2023.1.25	-37.045	-11.66	52.315	-2.812	0.69594	-0.07346

CD5500V2 – serial no. 1012						
5500 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2022.1.26	-28.748		53.436		1.5691	
2023.1.25	-30.269	5.29	54.048	-0.612	1.8587	-0.2896

CD5500V2 – serial no. 1012						
5800 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2022.1.26	-20.534		41.503		-1.3558	
2023.1.25	-19.962	-2.79	42.484	-0.981	-2.0430	0.6872

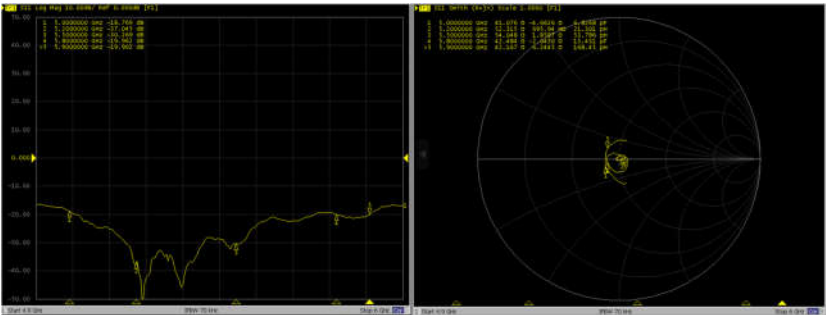
CD5500V2 – serial no. 1012						
5900 Head						
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2022.1.26	-20.102		43.255		6.3097	
2023.1.25	-19.902	-0.99	42.167	1.088	6.2445	0.0652

<Justification of the extended calibration>

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

Dipole Verification Data> CD5500V3, serial no. 1012

5000 MHz -5200MHz-5500MHz-5800MHz-5900MHz – Head – 2023.1.25



IMPORTANT NOTICE

USAGE OF THE DAE4

The DAE unit is a delicate, high precision instrument and requires careful treatment by the user. There are no serviceable parts inside the DAE. Special attention shall be given to the following points:

Battery Exchange: The battery cover of the DAE4 unit is fixed using a screw, over tightening the screw may cause the threads inside the DAE to wear out.

Shipping of the DAE: Before shipping the DAE to SPEAG for calibration, remove the batteries and pack the DAE in an antistatic bag. This antistatic bag shall then be packed into a larger box or container which protects the DAE from impacts during transportation. The package shall be marked to indicate that a fragile instrument is inside.

E-Stop Failures: Touch detection may be malfunctioning due to broken magnets in the E-stop. Rough handling of the E-stop may lead to damage of these magnets. Touch and collision errors are often caused by dust and dirt accumulated in the E-stop. To prevent E-stop failure, the customer shall always mount the probe to the DAE carefully and keep the DAE unit in a non-dusty environment if not used for measurements.

Repair: Minor repairs are performed at no extra cost during the annual calibration. However, SPEAG reserves the right to charge for any repair especially if rough unprofessional handling caused the defect.

DASY Configuration Files: Since the exact values of the DAE input resistances, as measured during the calibration procedure of a DAE unit, are not used by the DASY software, a nominal value of 200 MOhm is given in the corresponding configuration file.

Important Note:

Warranty and calibration is void if the DAE unit is disassembled partly or fully by the Customer.

Important Note:

Never attempt to grease or oil the E-stop assembly. Cleaning and readjusting of the E-stop assembly is allowed by certified SPEAG personnel only and is part of the annual calibration procedure.

Important Note:

To prevent damage of the DAE probe connector pins, use great care when installing the probe to the DAE. Carefully connect the probe with the connector notch oriented in the mating position. Avoid any rotational movement of the probe body versus the DAE while turning the locking nut of the connector. The same care shall be used when disconnecting the probe from the DAE.



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

Accreditation No.: **SCS 0108**

Client **Sporton**

Certificate No: **DAE4-1650_Aug22**

CALIBRATION CERTIFICATE

Object **DAE4 - SD 000 D04 BO - SN: 1650**

Calibration procedure(s) **QA CAL-06.v30**
 Calibration procedure for the data acquisition electronics (DAE)

Calibration date: **August 05, 2022**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}\text{C}$ and humidity $< 70\%$.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	31-Aug-21 (No:31368)	Aug-22
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Auto DAE Calibration Unit	SE UWS 053 AA 1001	24-Jan-22 (in house check)	In house check: Jan-23
Calibrator Box V2.1	SE UMS 006 AA 1002	24-Jan-22 (in house check)	In house check: Jan-23

Calibrated by:	Name	Function	Signature
	Dominique Steffen	Laboratory Technician	
Approved by:	Name	Function	Signature
	Sven Kühn	Technical Manager	

Issued: August 5, 2022

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Glossary

DAE	data acquisition electronics
Connector angle	information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
 - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
 - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
 - *Input Offset Measurement:* Output voltage and statistical results over a large number of zero voltage measurements.
 - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
 - *Power consumption:* Typical value for information. Supply currents in various operating modes.

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V, full range = -100...+300 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.915 $\pm$ 0.02% (k=2)	404.065 $\pm$ 0.02% (k=2)	404.330 $\pm$ 0.02% (k=2)
Low Range	3.99919 $\pm$ 1.50% (k=2)	4.00142 $\pm$ 1.50% (k=2)	3.99960 $\pm$ 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	188.0 ° $\pm$ 1 °
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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	199994.20	-1.16	-0.00
Channel X + Input	20003.06	0.84	0.00
Channel X - Input	-19999.99	1.66	-0.01
Channel Y + Input	199996.79	1.29	0.00
Channel Y + Input	20001.52	-0.60	-0.00
Channel Y - Input	-20002.28	-0.50	0.00
Channel Z + Input	199995.79	0.63	0.00
Channel Z + Input	20001.62	-0.44	-0.00
Channel Z - Input	-20003.13	-1.35	0.01

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2001.56	0.20	0.01
Channel X + Input	201.63	0.01	0.01
Channel X - Input	-198.11	0.08	-0.04
Channel Y + Input	2000.91	-0.25	-0.01
Channel Y + Input	200.92	-0.60	-0.30
Channel Y - Input	-198.38	-0.02	0.01
Channel Z + Input	2001.03	-0.15	-0.01
Channel Z + Input	200.33	-1.12	-0.55
Channel Z - Input	-199.16	-0.76	0.38

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-11.22	-12.84
	- 200	13.47	12.68
Channel Y	200	-6.04	-6.43
	- 200	4.95	5.26
Channel Z	200	-28.59	-28.64
	- 200	26.99	27.11

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	0.03	-2.62
Channel Y	200	4.74	-	0.86
Channel Z	200	8.90	3.18	-

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16116	16307
Channel Y	16150	16605
Channel Z	16180	15950

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10M Ω

	Average (μ V)	min. Offset (μ V)	max. Offset (μ V)	Std. Deviation (μ V)
Channel X	0.50	-0.67	2.34	0.53
Channel Y	-0.12	-1.08	0.89	0.35
Channel Z	-2.60	-3.51	-1.59	0.41

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

Sporton

Certificate No

EF-4050_Jan23

CALIBRATION CERTIFICATE

Object EF3DV3 - SN:4050

Calibration procedure(s) QA CAL-02.v9, QA CAL-25.v8
Calibration procedure for E-field probes optimized for close near field
evaluations in air

Calibration date January 24, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^\circ\text{C}$ 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	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z91	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
Power sensor NRP-Z91	SN: 103245	04-Apr-22 (No. 217-03525)	Apr-23
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
DAE4	SN: 789	03-Jan-23 (No. DAE4-789_Jan23)	Jan-24
Reference Probe ER3DV6	SN: 2328	06-Oct-22 (No. ER3-2328_Oct22)	Oct-23

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Jeffrey Katzman	Laboratory Technician	
Approved by	Sven Kühn	Technical Manager	

Issued: January 30, 2023

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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Multilateral Agreement for the recognition of calibration certificates**

Accreditation No.: SCS 0108

Glossary

NORM _{x,y,z}	sensitivity in free space
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
E _n	incident E-field orientation normal to probe axis
E _p	incident E-field orientation parallel to probe axis
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005
- CTIA Test Plan for Hearing Aid Compatibility, Rev 3.1.1, May 2017

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\vartheta = 0$ for XY sensors and $\vartheta = 90$ for Z sensor ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz in R22 waveguide).
- NORM(f)_{x,y,z}** = NORM_{x,y,z} * frequency_response (see Frequency Response Chart).
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}; A, B, C, D** are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- Spherical isotropy (3D deviation from isotropy)**: in a locally homogeneous field realized using an open waveguide setup
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).

Parameters of Probe: EF3DV3 - SN:4050

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$)	0.61	0.71	1.14	$\pm 10.1\%$
DCP (mV) ^B	100.0	100.0	96.0	$\pm 4.7\%$

Calibration Results for Frequency Response (30 MHz – 5.8 GHz)

Frequency MHz	Target E-field (En) V/m	Measured E-field (En) V/m	Deviation E-field (En)	Target E-field (Ep) V/m	Measured E-field (Ep) V/m	Deviation E-field (Ep)	Unc (k = 2)
30	77.2	77.3	0.2%	77.2	77.0	-0.2%	$\pm 5.1\%$
100	77.0	77.8	1.0%	76.9	77.8	1.1%	$\pm 5.1\%$
450	77.1	78.0	1.1%	77.1	78.1	1.3%	$\pm 5.1\%$
600	77.1	77.6	0.7%	77.1	77.7	0.8%	$\pm 5.1\%$
750	77.1	77.5	0.4%	77.1	77.5	0.4%	$\pm 5.1\%$
1800	143.4	140.4	-2.1%	143.3	140.5	-2.0%	$\pm 5.1\%$
2000	135.2	129.8	-4.0%	135.1	129.8	-3.9%	$\pm 5.1\%$
2200	127.7	124.8	-2.2%	127.6	126.0	-1.3%	$\pm 5.1\%$
2500	125.4	120.4	-4.0%	125.4	121.4	-3.2%	$\pm 5.1\%$
3000	79.5	76.4	-3.9%	79.4	77.4	-2.6%	$\pm 5.1\%$
3500	256.1	255.5	-0.3%	256.0	251.6	-1.7%	$\pm 5.1\%$
3700	249.9	243.2	-2.7%	249.7	240.5	-3.7%	$\pm 5.1\%$
5200	50.2	50.4	0.4%	50.2	50.4	0.4%	$\pm 5.1\%$
5500	49.6	48.9	-1.3%	49.6	48.9	-1.3%	$\pm 5.1\%$
5800	48.9	48.1	-1.6%	48.9	47.4	-3.0%	$\pm 5.1\%$

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%.

^B Linearization parameter uncertainty for maximum specified field strength.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Parameters of Probe: EF3DV3 - SN:4050

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu V}$	C	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0	CW	X	0.00	0.00	1.00	0.00	147.1	±3.0%	±4.7%
		Y	0.00	0.00	1.00		117.3		
		Z	0.00	0.00	1.00		118.2		
10352	Pulse Waveform (200Hz, 10%)	X	3.21	66.84	10.72	10.00	60.0	±2.1%	±9.6%
		Y	6.22	75.25	15.80		60.0		
		Z	3.76	68.98	12.12		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	1.89	64.73	8.72	6.99	80.0	±1.0%	±9.6%
		Y	8.95	80.87	16.51		80.0		
		Z	2.35	67.25	10.33		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	0.93	62.83	6.85	3.98	95.0	±0.8%	±9.6%
		Y	20.00	89.88	17.70		95.0		
		Z	1.45	66.70	9.02		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	0.48	61.71	5.61	2.22	120.0	±0.9%	±9.6%
		Y	20.00	92.31	17.63		120.0		
		Z	1.18	67.84	8.59		120.0		
10387	QPSK Waveform, 1 MHz	X	1.91	69.58	16.74	1.00	150.0	±2.3%	±9.6%
		Y	1.93	68.08	16.42		150.0		
		Z	1.91	68.11	16.39		150.0		
10388	QPSK Waveform, 10 MHz	X	2.55	70.96	17.40	0.00	150.0	±0.9%	±9.6%
		Y	2.65	70.79	17.24		150.0		
		Z	2.63	70.66	17.20		150.0		
10396	64-QAM Waveform, 100 kHz	X	3.33	75.18	21.11	3.01	150.0	±0.6%	±9.6%
		Y	4.10	76.58	21.48		150.0		
		Z	3.40	74.02	20.36		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.61	67.94	16.40	0.00	150.0	±1.3%	±9.6%
		Y	3.64	67.79	16.28		150.0		
		Z	3.65	67.73	16.30		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.88	66.06	15.92	0.00	150.0	±2.7%	±9.6%
		Y	4.98	65.86	15.78		150.0		
		Z	4.99	65.86	15.84		150.0		

Note: For details on UID parameters see Appendix

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%.

^B Linearization parameter uncertainty for maximum specified field strength.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Parameters of Probe: EF3DV3 - SN:4050**Sensor Frequency Model Parameters**

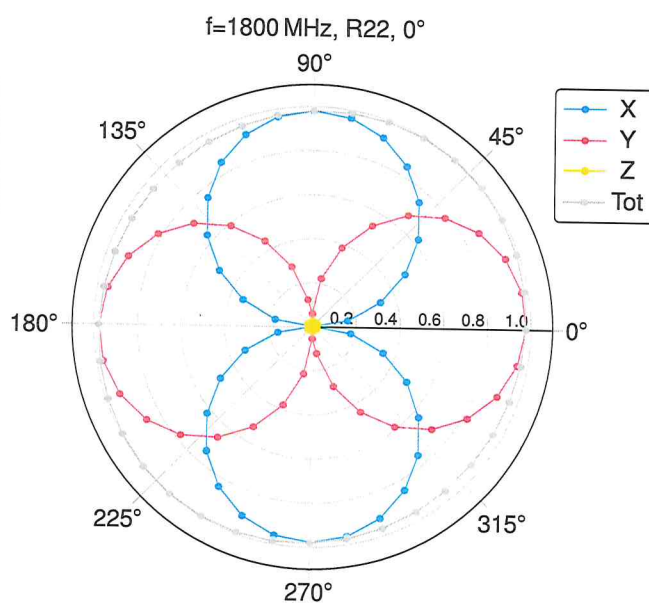
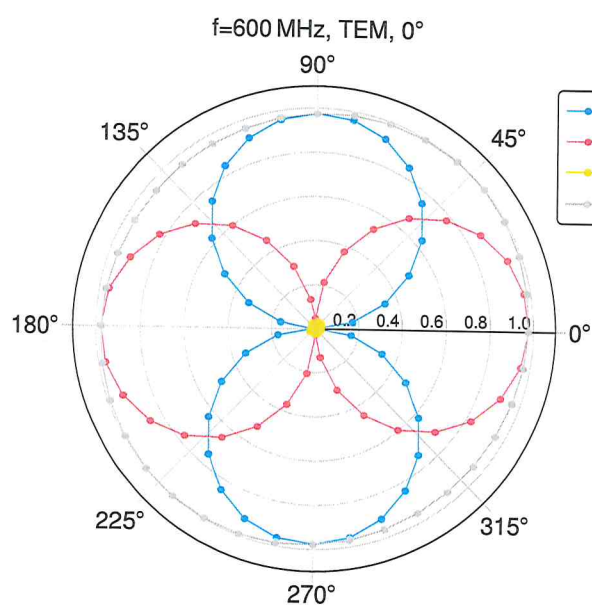
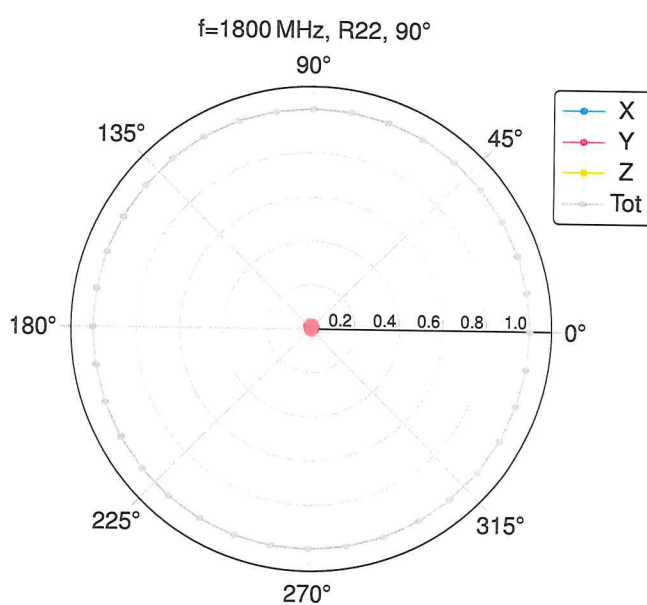
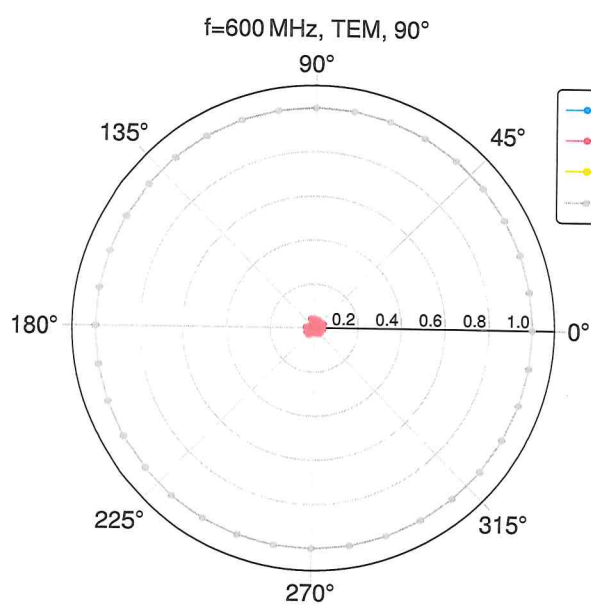
	Sensor X	Sensor Y	Sensor Z
Frequency Corr. (LF)	-0.06	-0.08	5.17
Frequency Corr. (HF)	2.82	2.82	2.82

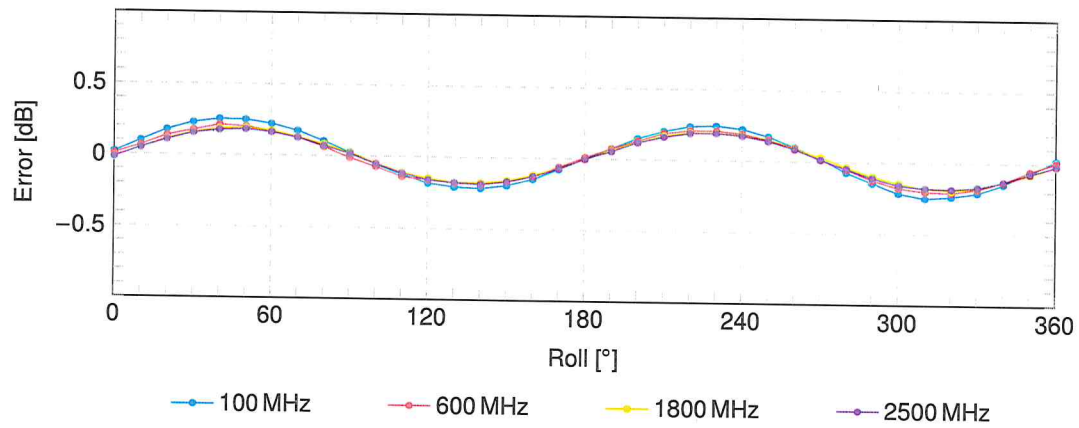
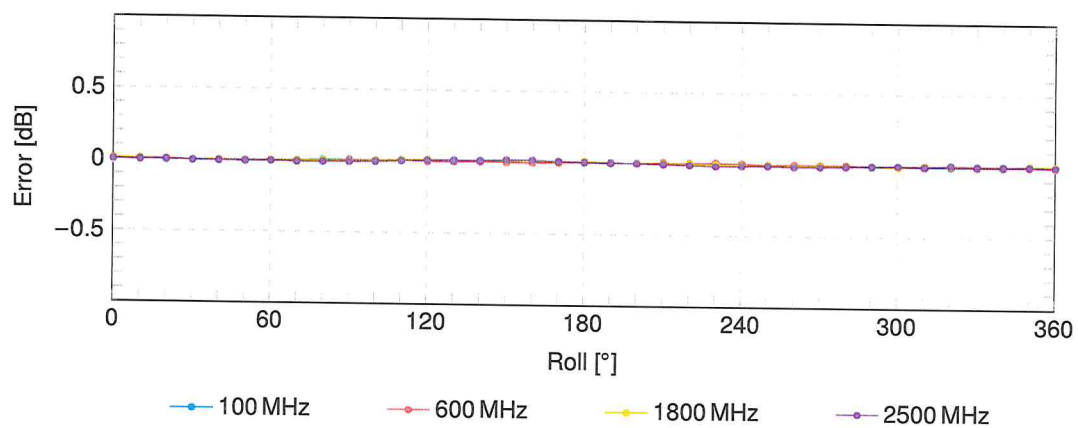
Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms V^{-2}$	T2 $ms V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
x	46.0	300.82	36.20	8.96	0.47	4.94	1.78	0.01	1.00
y	59.4	386.18	35.86	12.99	0.90	4.99	1.88	0.19	1.01
z	58.3	387.71	37.31	8.18	0.50	4.97	1.67	0.14	1.00

Other Probe Parameters

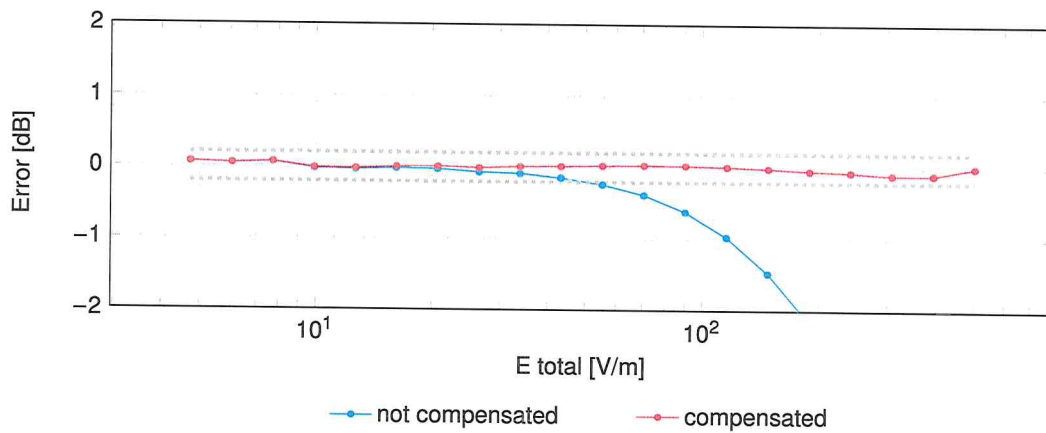
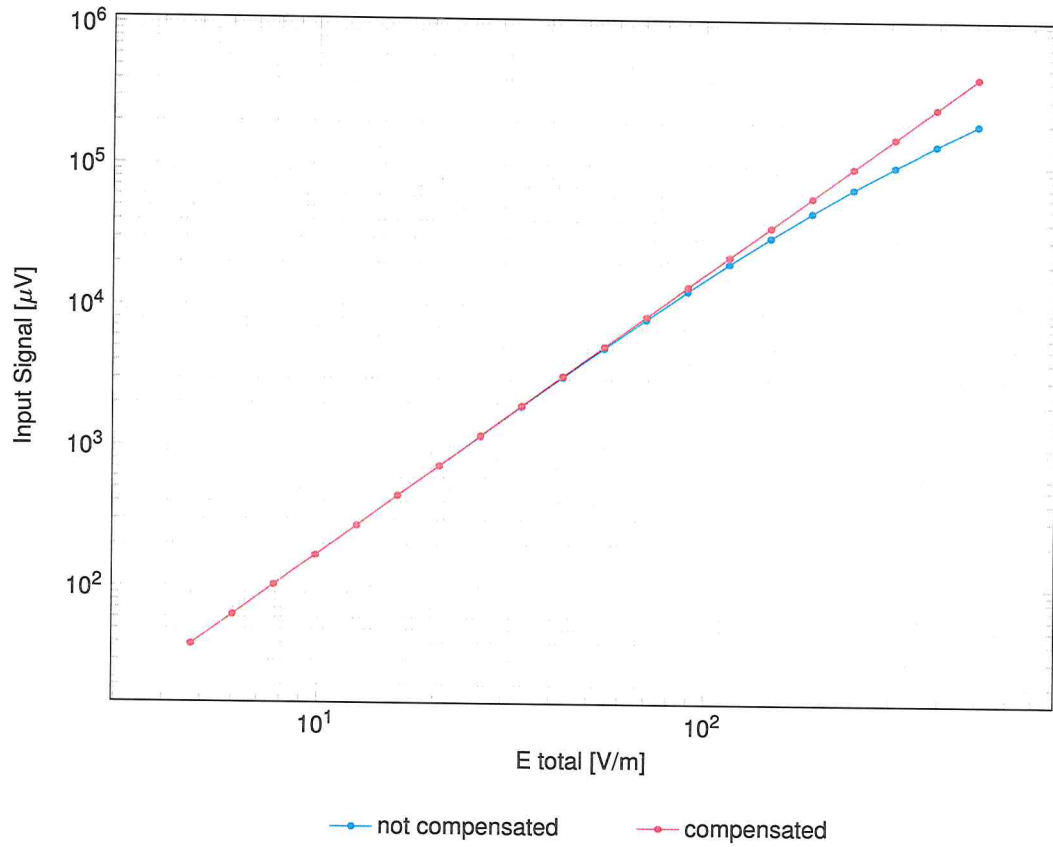
Sensor Arrangement	Rectangular
Connector Angle	-57.2°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	12 mm
Tip Length	25 mm
Tip Diameter	4 mm
Probe Tip to Sensor X Calibration Point	1.5 mm
Probe Tip to Sensor Y Calibration Point	1.5 mm
Probe Tip to Sensor Z Calibration Point	1.5 mm

Receiving Pattern (ϕ), $\vartheta = 0^\circ$ **Receiving Pattern (ϕ), $\vartheta = 90^\circ$** 

Receiving Pattern (ϕ), $\vartheta = 0^\circ$ Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)**Receiving Pattern (ϕ), $\vartheta = 90^\circ$** Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

Dynamic Range f(E-field)

(TEM cell, $f_{eval} = 900\text{MHz}$)



Uncertainty of Linearity Assessment: $\pm 0.6\%$ ($k=2$)

Deviation from Isotropy in Air

Error (ϕ, θ), $f = 900\text{MHz}$

