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Accreditation No.: **SCS 108**

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	modulation dependent linearization parameters
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 DASYS system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005.

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: R22 waveguide).
- *X, Y, Z(f)*: 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 (no uncertainty required). 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}; VR_{x,y,z}*: A, B, C 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 *X* (no uncertainty required).

Probe H3DV6

SN:6274

Manufactured: November 30, 2007
Calibrated: February 17, 2012

Calibrated for DASYS/EASY Systems
(Note: non-compatible with DASYS2 system!)

DASY/EASY - Parameters of Probe: H3DV6 - SN:6274

Basic Calibration Parameters

		Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (A/m / $\sqrt{\text{mV}}$)	a0	2.49E-003	2.58E-003	2.90E-003	$\pm 5.1 \%$
Norm (A/m / $\sqrt{\text{mV}}$)	a1	-1.39E-004	-1.92E-004	-1.14E-004	$\pm 5.1 \%$
Norm (A/m / $\sqrt{\text{mV}}$)	a2	3.08E-005	7.89E-006	1.16E-005	$\pm 5.1 \%$
DCP (mV) ^B		94.0	95.4	94.9	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dB	C dB	VR mV	Unc ^E (k=2)
10000	CW	0.00	X	0.00	0.00	1.00	105.5	$\pm 2.7 \%$
			Y	0.00	0.00	1.00	105.1	
			Z	0.00	0.00	1.00	103.2	
10011	UMTS-FDD (WCDMA)	3.40	X	3.45	64.7	17.8	115.2	$\pm 0.7 \%$
			Y	3.42	64.8	17.9	114.9	
			Z	3.43	64.6	17.7	112.6	
10021	GSM-FDD (TDMA, GMSK)	9.40	X	9.04	74.3	23.8	145.7	$\pm 2.2 \%$
			Y	8.40	72.0	22.5	101.9	
			Z	9.68	73.8	23.9	110.8	
10039	CDMA2000 (1xRTT, RC1)	4.57	X	5.46	66.8	19.0	125.3	$\pm 1.2 \%$
			Y	5.45	66.8	19.0	125.1	
			Z	5.45	66.7	18.9	123.6	
10056	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	11.01	X	11.61	75.9	26.4	117.7	$\pm 2.7 \%$
			Y	11.85	76.3	26.5	119.5	
			Z	13.11	77.7	27.4	131.8	
10081	CDMA2000 (1xRTT, RC3)	3.96	X	4.18	65.2	18.1	118.1	$\pm 0.9 \%$
			Y	4.22	65.6	18.4	117.3	
			Z	4.28	65.8	18.4	116.2	
10082	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	4.77	X	3.48	75.9	18.3	149.5	$\pm 1.4 \%$
			Y	6.06	83.6	21.0	149.8	
			Z	25.84	99.6	25.6	115.7	
10100	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	5.66	X	7.21	69.0	20.5	134.4	$\pm 1.7 \%$
			Y	7.21	69.1	20.6	132.7	
			Z	7.22	69.1	20.6	131.6	
10101	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	6.41	X	7.72	67.1	19.7	101.3	$\pm 1.9 \%$
			Y	8.76	70.2	21.4	148.5	
			Z	8.78	70.1	21.4	148.1	
10108	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	5.79	X	7.51	69.5	20.8	136.3	$\pm 1.7 \%$
			Y	7.52	69.7	20.9	134.5	
			Z	7.56	69.7	20.9	134.6	

10109	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	6.42	X	7.80	67.2	19.8	101.5	±1.9 %
			Y	8.89	70.5	21.6	149.0	
			Z	8.92	70.4	21.5	149.2	
10110	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	5.75	X	7.34	69.2	20.7	135.4	±1.7 %
			Y	7.31	69.3	20.7	133.4	
			Z	7.36	69.3	20.7	133.4	
10111	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	6.44	X	7.73	67.0	19.8	101.4	±1.9 %
			Y	8.78	70.2	21.5	148.5	
			Z	8.78	70.1	21.4	147.9	
10148	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	5.83	X	7.65	69.7	21.0	137.7	±1.7 %
			Y	7.55	69.6	20.9	135.5	
			Z	7.56	69.4	20.8	135.2	
10149	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	6.42	X	7.87	67.5	20.0	101.9	±1.9 %
			Y	8.91	70.5	21.6	149.5	
			Z	8.99	70.6	21.6	148.9	
10154	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	5.76	X	7.37	69.2	20.7	136.1	±1.7 %
			Y	7.33	69.3	20.7	133.8	
			Z	7.34	69.2	20.7	132.8	
10155	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	6.43	X	7.75	67.1	19.8	101.6	±1.9 %
			Y	8.75	70.1	21.4	148.1	
			Z	8.77	70.1	21.4	147.6	
10156	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	5.79	X	7.45	69.4	20.8	136.4	±1.7 %
			Y	7.39	69.3	20.8	134.3	
			Z	7.36	69.1	20.7	133.8	
10157	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	6.49	X	7.83	67.2	19.9	102.1	±1.9 %
			Y	8.83	70.2	21.5	149.0	
			Z	8.89	70.3	21.5	147.7	
10160	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	5.81	X	7.67	69.4	20.7	140.2	±1.7 %
			Y	7.60	69.3	20.7	138.1	
			Z	7.62	69.3	20.7	136.8	
10161	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	6.42	X	7.82	67.0	19.7	103.2	±1.9 %
			Y	7.78	67.0	19.7	101.6	
			Z	8.78	69.8	21.2	149.3	
10163	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	5.68	X	7.26	68.9	20.5	136.6	±1.7 %
			Y	7.18	68.8	20.4	134.9	
			Z	7.21	68.7	20.4	133.2	
10164	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	6.44	X	7.82	67.1	19.8	102.8	±1.9 %
			Y	7.83	67.2	19.8	101.2	
			Z	8.82	70.0	21.3	148.4	

10166	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	5.45	X	6.89	68.6	20.2	134.2	±1.4 %
			Y	6.77	68.3	20.1	132.1	
			Z	6.84	68.5	20.2	130.7	
10167	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	6.21	X	8.20	69.1	20.7	145.7	±1.9 %
			Y	8.15	69.0	20.8	143.9	
			Z	8.17	69.0	20.7	141.4	
10042	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	7.78	X	8.28	80.4	23.0	114.2	±1.2 %
			Y	7.91	79.0	22.2	114.7	
			Z	7.08	73.9	19.6	122.5	

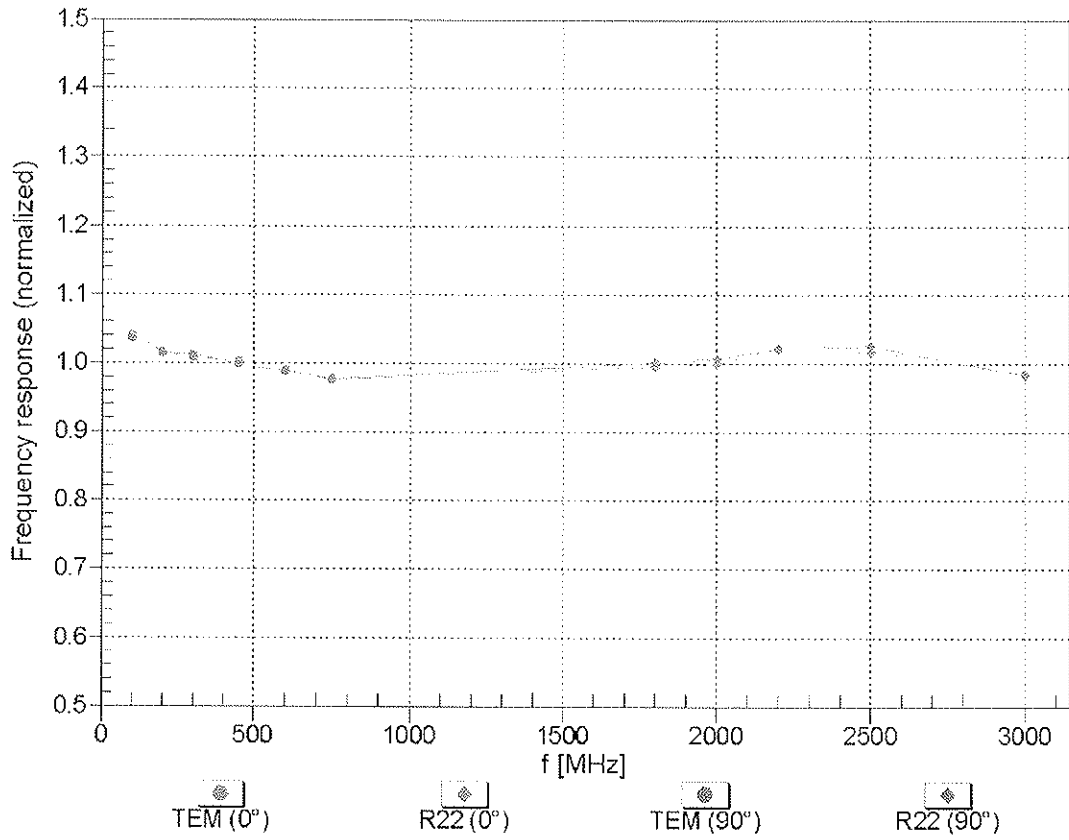
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^B Numerical linearization parameter: uncertainty not required.

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

Frequency Response of H-Field

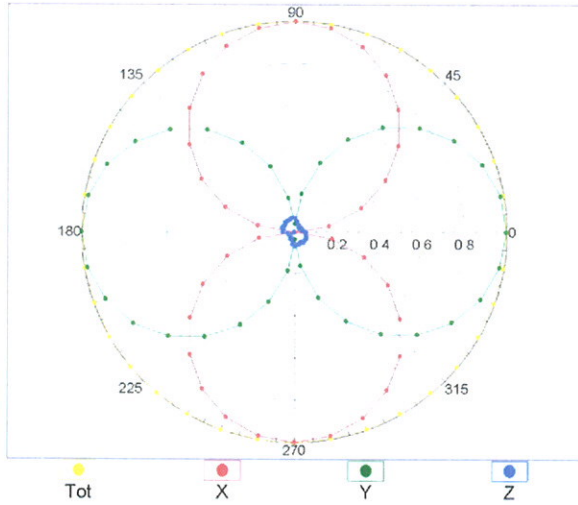
(TEM-Cell: ifi110 EXX, Waveguide: R22)



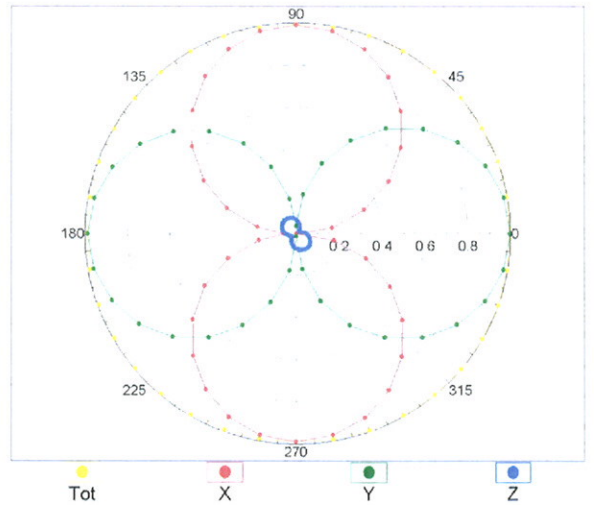
Uncertainty of Frequency Response of H-field: $\pm 6.3\%$ (k=2)

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

f=600 MHz, TEM, 0°

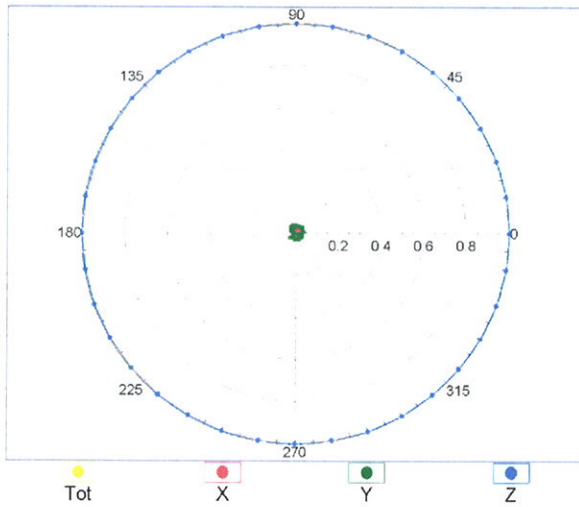


f=2500 MHz, R22, 0°

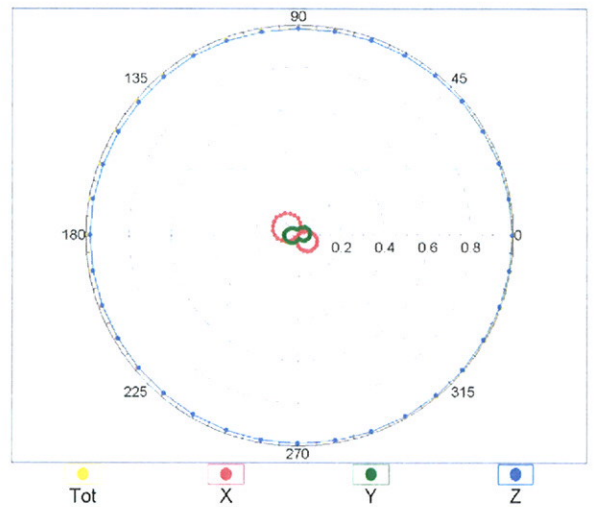


Receiving Pattern (ϕ), $\vartheta = 90^\circ$

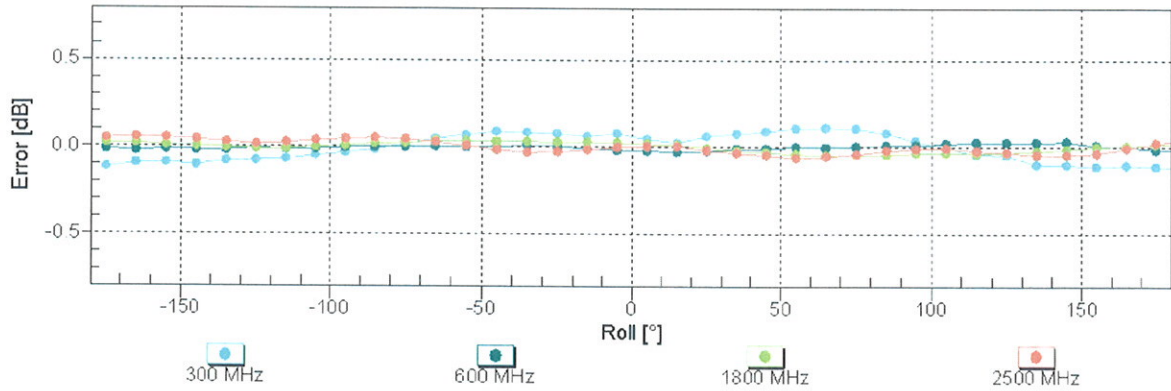
f=600 MHz, TEM, 90°



f=2500 MHz, R22, 90°

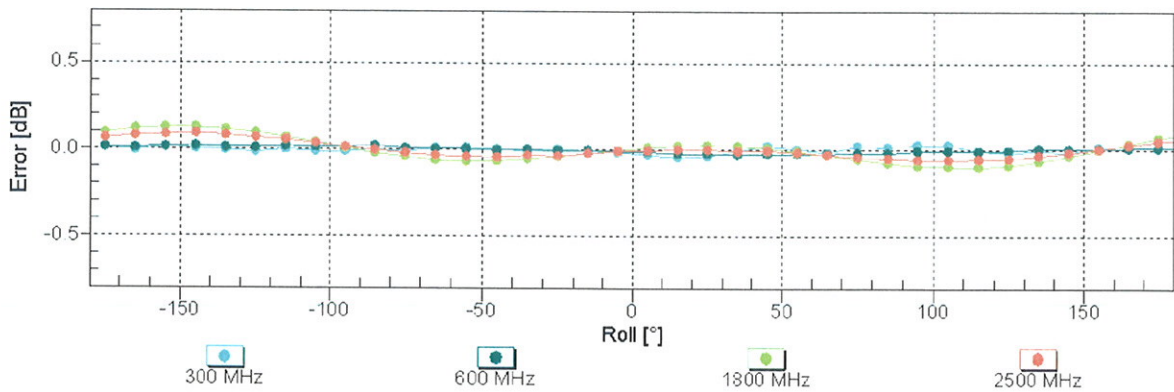


Receiving Pattern (ϕ), $\vartheta = 0^\circ$



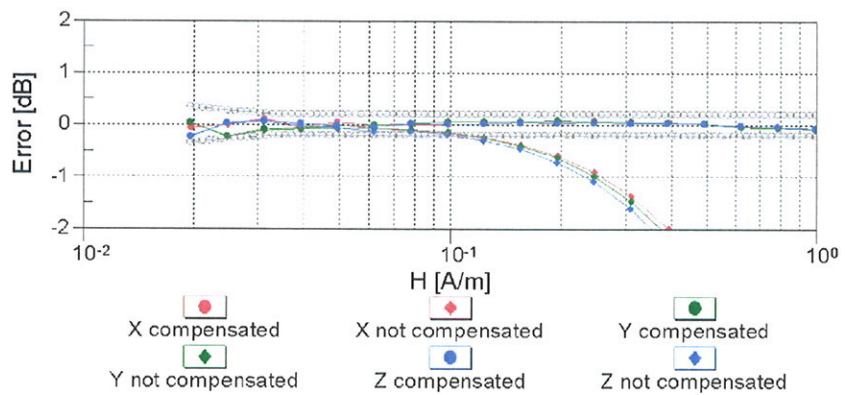
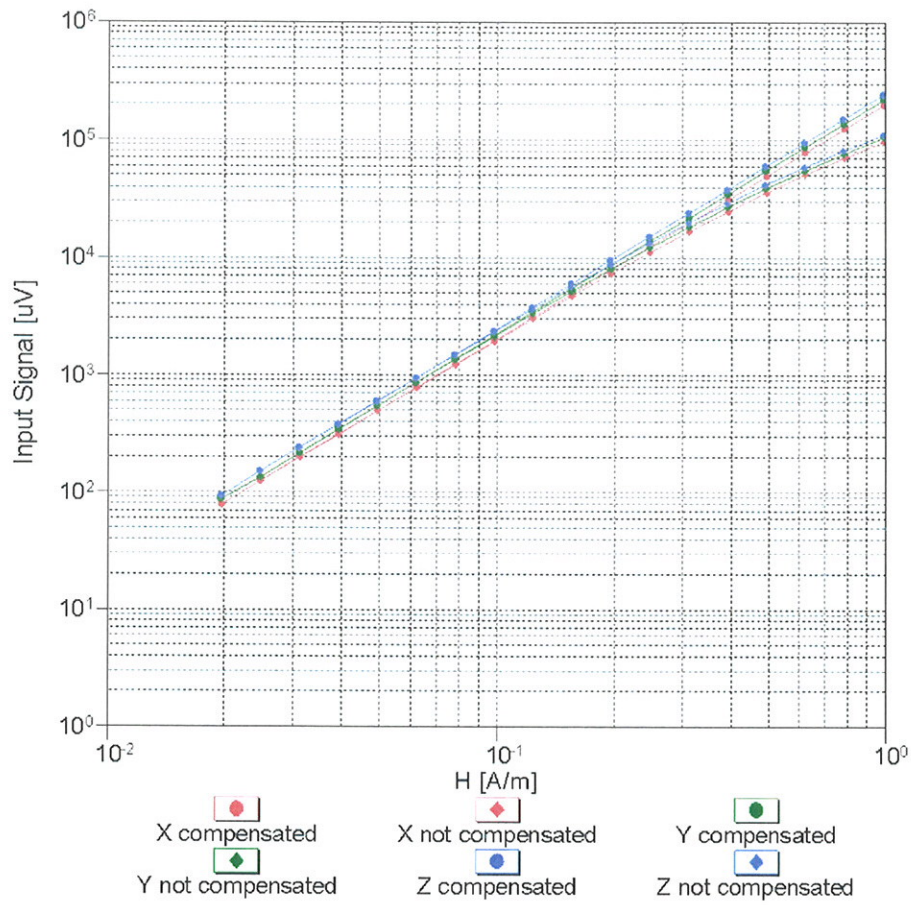
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

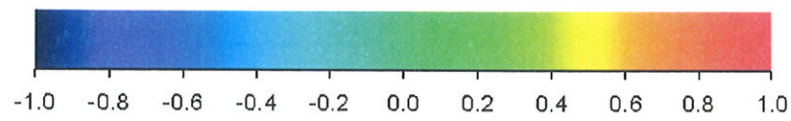
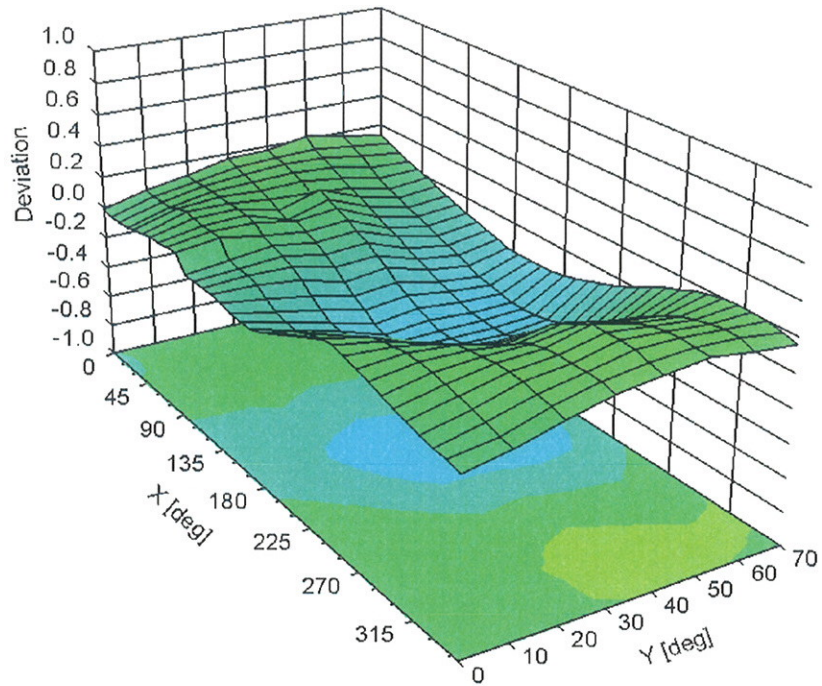
Dynamic Range f(H-field) (TEM cell, f = 900 MHz)



Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Deviation from Isotropy in Air

Error (ϕ, ϑ), $f = 900$ MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

DASY/EASY - Parameters of Probe: H3DV6 - SN:6274

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (°)	-125
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	20 mm
Tip Diameter	6 mm
Probe Tip to Sensor X Calibration Point	3 mm
Probe Tip to Sensor Y Calibration Point	3 mm
Probe Tip to Sensor Z Calibration Point	3 mm



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Accreditation No.: **SCS 108**

Client **B. V. ADT (Auden)**

Certificate No: **ER3-2445_Feb12**

CALIBRATION CERTIFICATE

Object **ER3DV6 - SN:2445**

Calibration procedure(s) **QA CAL-02.v6, QA CAL-25.v4
Calibration procedure for E-field probes optimized for close near field
evaluations in air**

Calibration date: **February 17, 2012**

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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	31-Mar-11 (No. 217-01372)	Apr-12
Power sensor E4412A	MY41498087	31-Mar-11 (No. 217-01372)	Apr-12
Reference 3 dB Attenuator	SN: S5054 (3c)	29-Mar-11 (No. 217-01369)	Apr-12
Reference 20 dB Attenuator	SN: S5086 (20b)	29-Mar-11 (No. 217-01367)	Apr-12
Reference 30 dB Attenuator	SN: S5129 (30b)	29-Mar-11 (No. 217-01370)	Apr-12
Reference Probe ER3DV6	SN: 2328	11-Oct-11 (No. ER3-2328_Oct11)	Oct-12
DAE4	SN: 789	30-Jan-12 (No. DAE4-789_Jan12)	Jan-13
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-11)	In house check: Apr-13
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-11)	In house check: Oct-12

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	
			Issued: February 22, 2012

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



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Accreditation No.: **SCS 108**

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Glossary:

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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.

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: 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 (no uncertainty required). 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}; VR_{x,y,z}*: A, B, C 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).

Probe ER3DV6

SN:2445

Manufactured: January 22, 2008
Calibrated: February 17, 2012

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: ER3DV6 - SN:2445

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$)	1.47	1.69	1.82	$\pm 10.1\%$
DCP (mV) ^B	99.1	99.0	102.5	

Modulation Calibration Parameters

UID	Communication System Name	PAR		A dB	B dB	C dB	VR mV	Unc ^E (k=2)
10000	CW	0.00	X	0.00	0.00	1.00	102.1	$\pm 2.7\%$
			Y	0.00	0.00	1.00	88.3	
			Z	0.00	0.00	1.00	109.2	
10011	UMTS-FDD (WCDMA)	3.40	X	3.36	64.9	17.8	110.1	$\pm 0.9\%$
			Y	3.56	66.2	18.8	130.2	
			Z	3.46	65.9	18.4	117.2	
10021	GSM-FDD (TDMA, GMSK)	9.40	X	17.21	99.7	28.7	147.3	$\pm 2.5\%$
			Y	14.07	99.7	29.3	115.6	
			Z	20.54	99.8	28.5	120.2	
10039	CDMA2000 (1xRTT, RC1)	4.57	X	4.52	65.5	18.5	111.5	$\pm 0.7\%$
			Y	4.77	66.9	19.5	131.9	
			Z	4.52	66.1	18.8	117.5	
10056	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	11.01	X	12.20	98.8	38.5	116.8	$\pm 1.9\%$
			Y	11.19	99.1	39.5	130.5	
			Z	14.41	99.8	37.5	133.6	
10081	CDMA2000 (1xRTT, RC3)	3.96	X	3.74	65.0	18.2	108.7	$\pm 0.7\%$
			Y	3.89	65.9	18.8	128.1	
			Z	3.80	65.8	18.6	115.1	
10082	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	4.77	X	34.62	99.7	23.0	146.7	$\pm 2.5\%$
			Y	31.16	99.9	23.2	120.4	
			Z	62.19	99.9	21.9	115.1	
10100	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	5.66	X	6.32	67.2	19.7	125.0	$\pm 1.9\%$
			Y	6.73	68.9	21.0	146.5	
			Z	6.33	67.4	19.9	130.8	
10101	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	6.41	X	7.56	68.1	20.6	132.2	$\pm 2.5\%$
			Y	7.40	67.7	20.5	110.4	
			Z	7.48	68.1	20.5	140.9	
10108	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	5.79	X	6.28	67.1	19.9	121.8	$\pm 2.2\%$
			Y	6.61	68.6	21.0	144.1	
			Z	6.23	67.2	19.9	129.4	

10109	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	6.42	X	7.29	67.8	20.5	128.9	±2.5 %
			Y	7.15	67.4	20.4	108.0	
			Z	7.20	67.7	20.4	136.4	
10110	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	5.75	X	5.98	66.6	19.7	118.9	±1.7 %
			Y	6.24	67.9	20.6	140.7	
			Z	5.88	66.6	19.6	125.6	
10111	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	6.44	X	7.06	67.6	20.5	125.3	±3.0 %
			Y	7.37	69.0	21.5	148.3	
			Z	6.94	67.6	20.3	132.5	
10148	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	5.83	X	6.31	67.0	19.9	122.2	±1.9 %
			Y	6.68	68.6	21.0	144.9	
			Z	6.27	67.1	19.9	129.4	
10149	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	6.42	X	7.33	67.9	20.6	129.0	±2.5 %
			Y	7.17	67.4	20.5	108.3	
			Z	7.17	67.6	20.3	136.5	
10154	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	5.76	X	5.92	66.3	19.5	119.1	±1.7 %
			Y	6.22	67.8	20.5	140.9	
			Z	5.87	66.5	19.5	125.8	
10155	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	6.43	X	6.91	66.9	19.9	125.5	±1.9 %
			Y	7.20	68.2	20.8	148.9	
			Z	6.92	67.4	20.2	132.5	
10156	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	5.79	X	5.73	66.1	19.5	116.4	±1.9 %
			Y	6.03	67.6	20.5	137.2	
			Z	5.66	66.3	19.5	122.9	
10157	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	6.49	X	6.79	67.4	20.5	121.0	±2.5 %
			Y	6.93	68.0	20.8	143.2	
			Z	6.65	67.3	20.2	127.4	
10160	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	5.81	X	6.39	67.1	19.9	123.4	±2.2 %
			Y	6.73	68.6	20.9	146.6	
			Z	6.31	67.1	19.8	130.7	
10161	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	6.42	X	7.25	67.3	20.1	130.2	±2.2 %
			Y	7.27	67.7	20.6	108.6	
			Z	7.21	67.7	20.3	137.3	
10163	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	5.68	X	5.55	66.0	19.4	115.2	±1.7 %
			Y	5.87	67.6	20.5	135.6	
			Z	5.48	66.2	19.3	121.5	
10164	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	6.44	X	6.50	66.6	19.8	119.4	±1.9 %
			Y	6.84	68.3	21.0	140.6	
			Z	6.57	67.6	20.4	125.9	

10166	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	5.45	X	4.91	65.5	19.0	109.7	±1.2 %
			Y	5.17	67.0	20.1	128.4	
			Z	4.95	66.1	19.3	116.5	
10167	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	6.21	X	5.92	67.0	20.0	112.3	±2.2 %
			Y	6.21	68.6	21.2	131.3	
			Z	5.87	67.2	20.1	118.4	
10042	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	7.78	X	5.88	73.4	17.3	141.1	±4.1 %
			Y	32.95	99.5	25.8	114.1	
			Z	10.44	80.1	20.1	118.5	

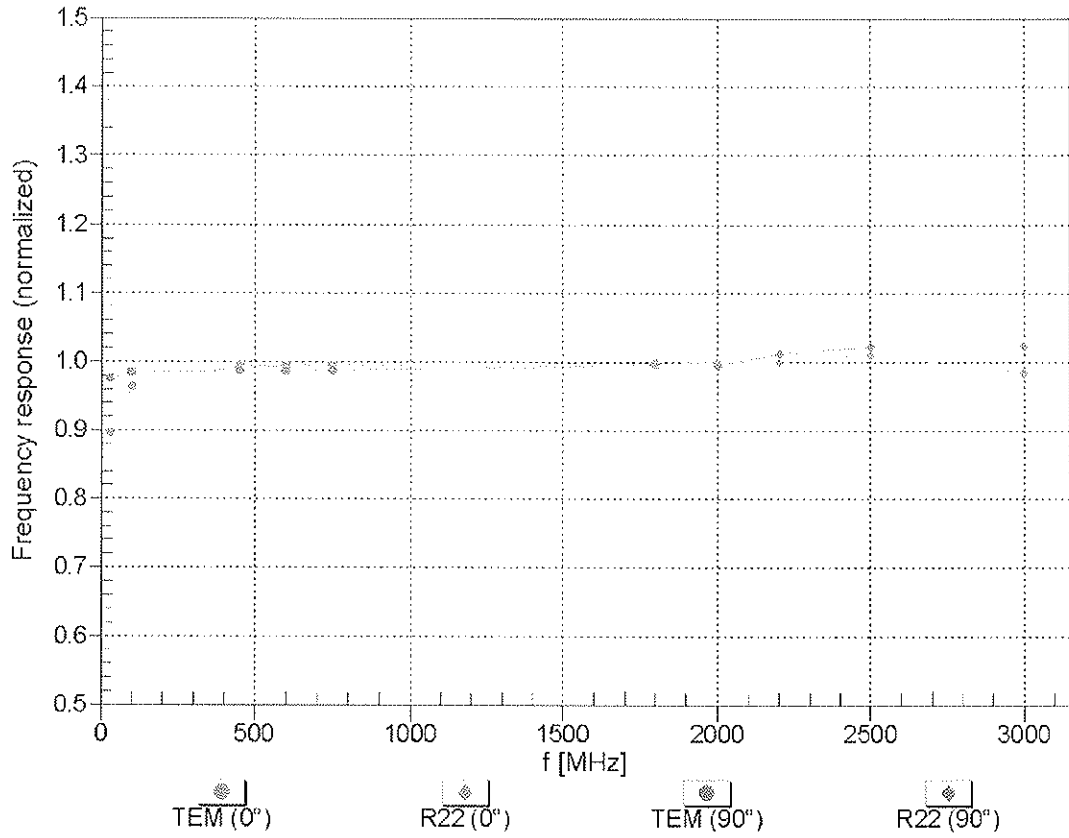
The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^B Numerical linearization parameter: uncertainty not required.

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

Frequency Response of E-Field

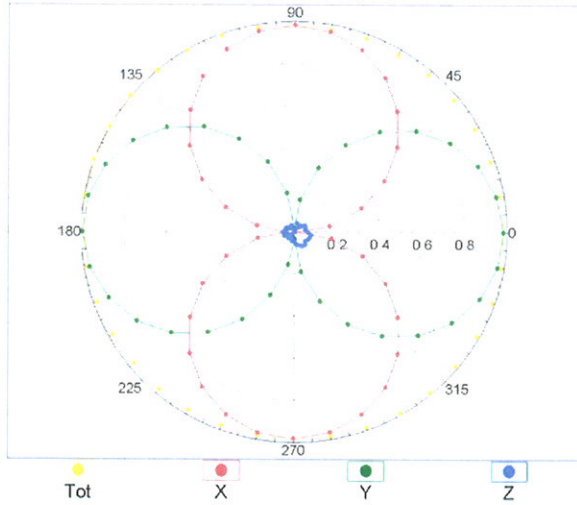
(TEM-Cell:ifi110 EXX, Waveguide: R22)



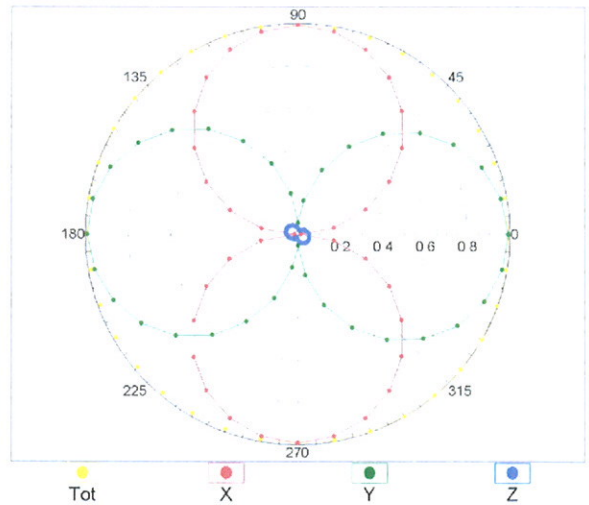
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ (k=2)

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

f=600 MHz, TEM, 0°

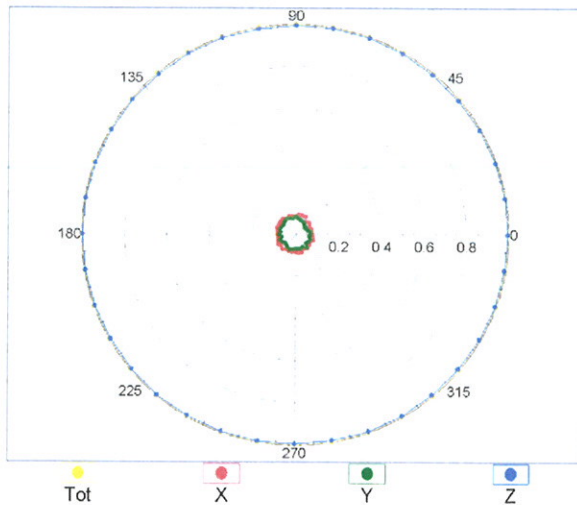


f=2500 MHz, R22, 0°

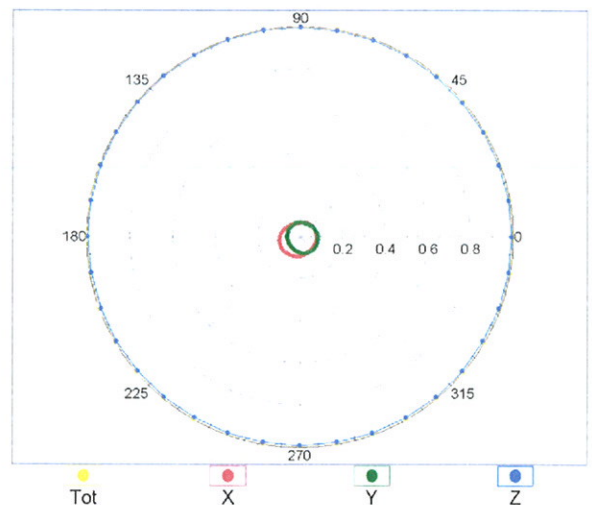


Receiving Pattern (ϕ), $\vartheta = 90^\circ$

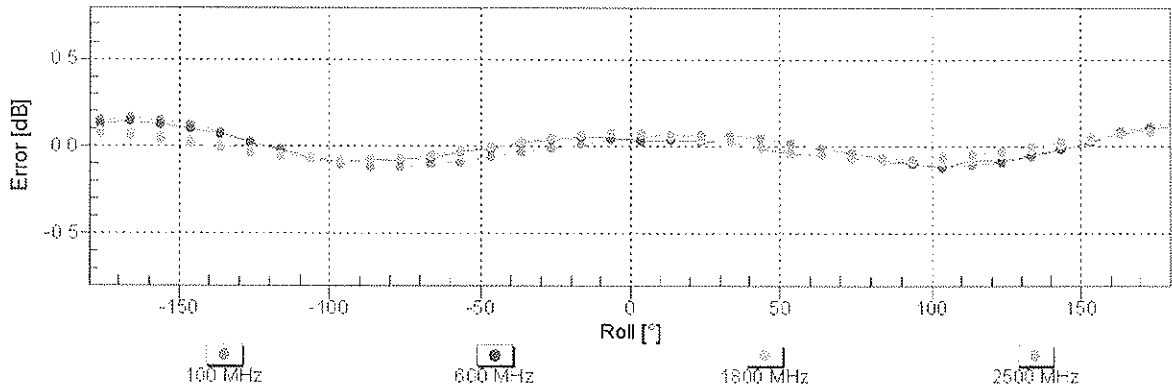
f=600 MHz, TEM, 90°



f=2500 MHz, R22, 90°

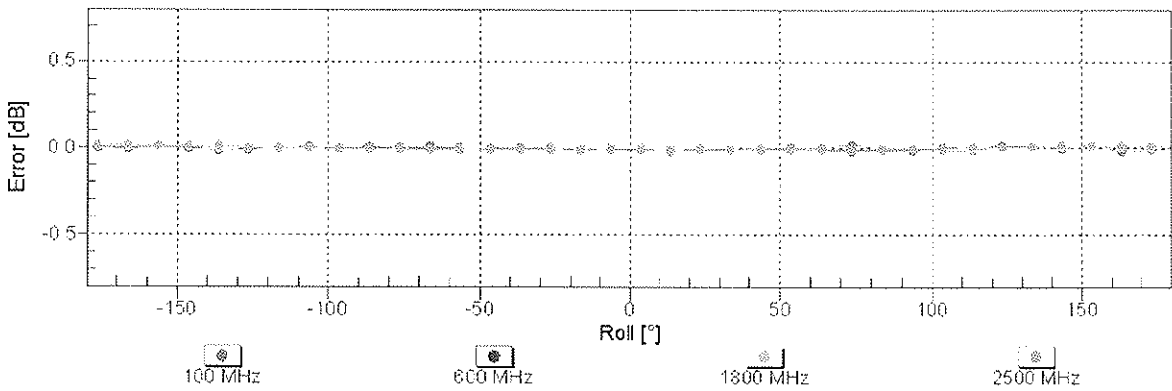


Receiving Pattern (ϕ), $\vartheta = 0^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

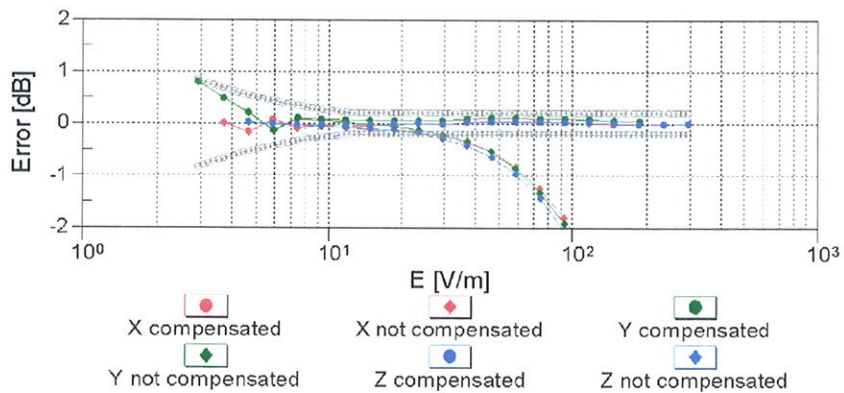
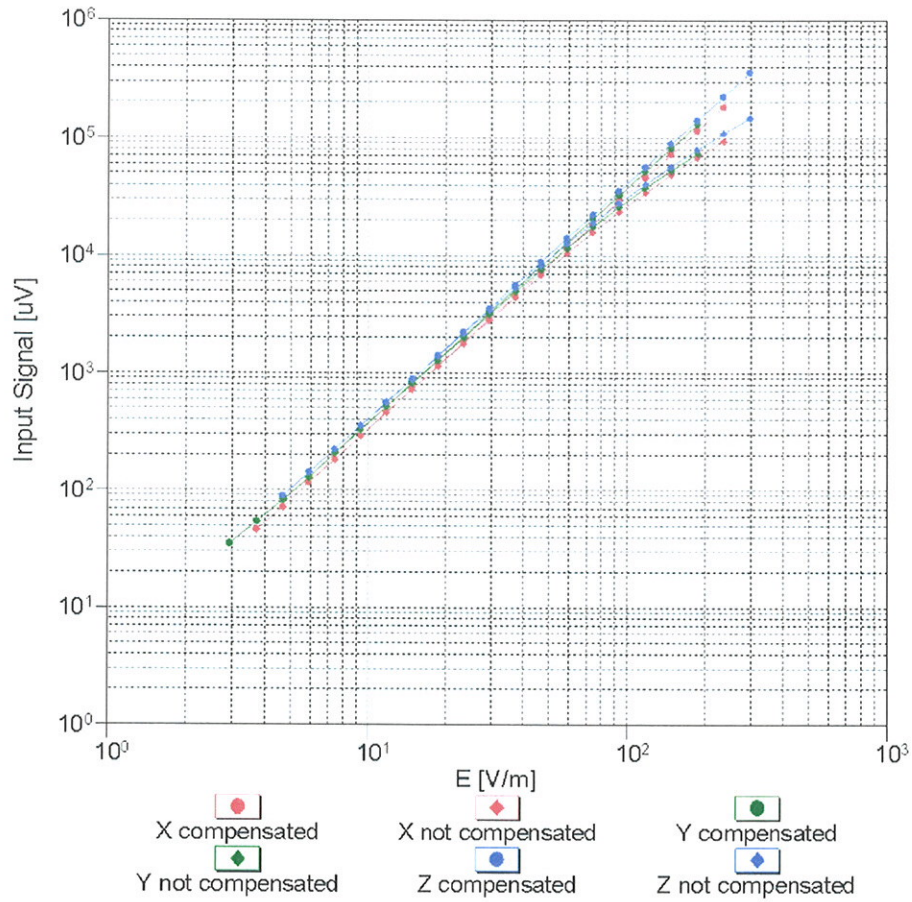
Receiving Pattern (ϕ), $\vartheta = 90^\circ$



Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

Dynamic Range f(E-field)

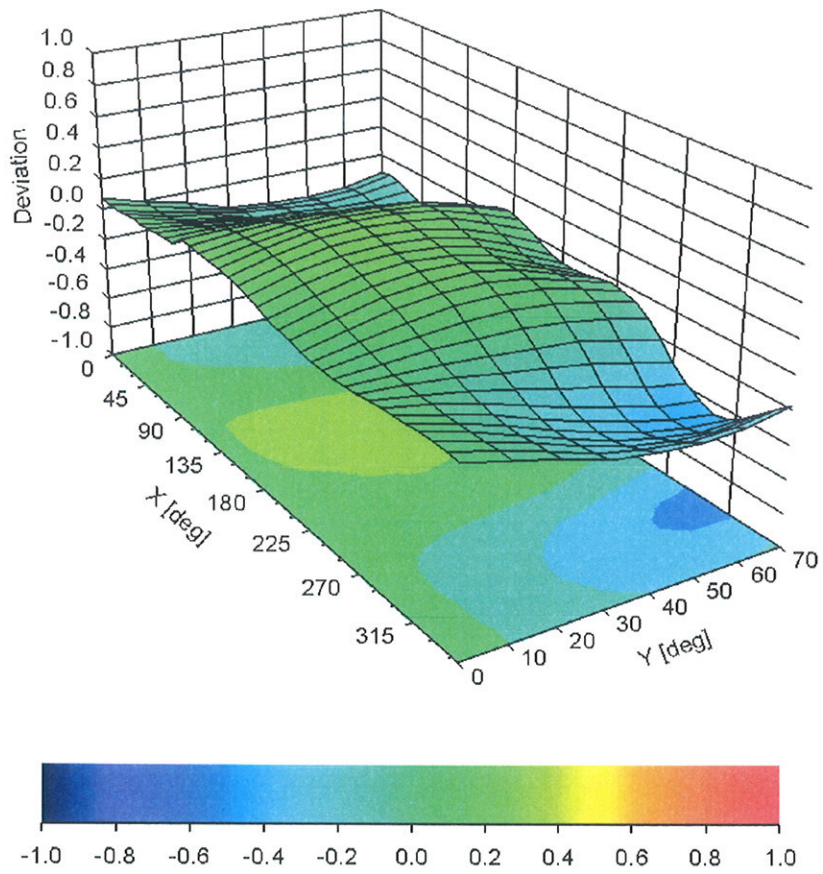
(TEM cell , f = 900 MHz)



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

Deviation from Isotropy in Air

Error (ϕ, ϑ), $f = 900$ MHz



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

DASY/EASY - Parameters of Probe: ER3DV6 - SN:2445

Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (°)	43.6
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	10 mm
Tip Diameter	8 mm
Probe Tip to Sensor X Calibration Point	2.5 mm
Probe Tip to Sensor Y Calibration Point	2.5 mm
Probe Tip to Sensor Z Calibration Point	2.5 mm