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Accreditation No.: SCS 0108

Client **UL Korea**
Gyeonggi-do, Republic of Korea

Certificate No. **MAGPy-8H3D-3071**

CALIBRATION CERTIFICATE

Object	MAGPy-8H3D+E3DV2 SN:3071 MAGPy-DASV2 SN:2050
Calibration procedure(s)	QA CAL-46.v1 Calibration Procedure for MAGPy–8H3D+E3D Near-field Electric and Magnetic Field Sensor System
Calibration date	July 04, 2024

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
Oscilloscope	SN: 112135	25-Sep-23 (No. 17A1162175)	Sep-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
Type-N mismatch	SN: 310982 / 06327	26-Mar-24 (No. 217-04047)	Mar-25

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Network Analyzer E5061B	SN: MY49810822	In house check: Nov-23	In house check: Nov-24
TEM Cell	SN: S6029i	In house check: Nov-23	In house check: Nov-24
Plate Capacitor	SN: 6028i	In house check: Nov-23	In house check: Nov-24
Resonator (160kHz)	SN: 6030i	In house check: Nov-23	In house check: Nov-24

	Name	Function	Signature
Calibrated by	Aidonia Georgiadou	Laboratory Engineer	
Approved by	Sven Kühn	Technical Manager	

Issued: July 04, 2024

Glossary

MAGPy-8H3D-E3D	Magnetic Amplitude and Gradient Probe – Eight H-field Sensors, Single E-field sensor
MAGPy-DAS	Magnetic Amplitude and Gradient Data Acquisition System

Calibration is Performed According to the Following Standards:

a) IEEE Std 1309-2013, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", November 2013

Methods Applied and Interpretation of Parameters

- Calibration has been performed after the adjustment of the device.
- *Linearity*: Calibration of the linearity of the field reading over the specified dynamic range at 161.75 kHz. Influence of offset voltage is included in this measurement.
- *Frequency response*: Calibration of the field reading over the specified frequency range from 3.0 kHz to 10.0 MHz.
- Receiving Pattern: Assessed for H-field polarizations ϑ, and $\phi = 0° ... 360°$; $\vartheta = 90°$, and $\phi = 0° ... 360°$; for the XYZ sensors (in TEM-Cell at 4 kHz, 40 kHz, 400 kHz and 4 MHz).
- Receiving Pattern: Assessed for E-field polarizations ϑ, and $\phi = 0° ... 360°$; $\vartheta = 90°$, and $\phi = 0° ... 360°$; for the XYZ sensor (in parallel plate capacitor at 4 kHz, 40 kHz, 400 kHz and 4 MHz).

Calibration Uncertainty

The calibration uncertainty is 0.7 dB for the H-field readings and 1.06 dB for the E-field readings. The calibration uncertainty is specified over the frequency range from 3.0 kHz to 10.0 MHz and a dynamic range from 0.1 A/m to 3200 A/m and from 0.08 V/m to 2000 V/m respectively.

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%.

Measurement Conditions

Unit Type	MAGPy–8H3D+E3DV2 (SP MGY 303 AA)	3071
	MAGPy–DASV2 (SE UMS 303 AD)	2050
	MAGPy FPGA Board	WP000107
Adjustment Date	Last MAGPy Adjustment	July 04, 2024
Firmware SW Version	MAGPy Firmware	Ver. 1.00
Backend SW Version	MAGPy Backend	Ver. 1.0.2
Calibration SW Version	MAGACAP	Ver. 1.0

Dynamic Range

Dynamic Range, H-field, Channel 0

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			
x	y	z	x	y	z	x	y	z	Tolerance/(dB)
0.380	0.360	0.350	0.390	0.370	0.390	0.23	0.24	0.94	±1.00
0.510	0.490	0.480	0.530	0.510	0.500	0.33	0.35	0.35	±1.00
0.700	0.670	0.650	0.700	0.690	0.660	0.00	0.26	0.13	±1.00
0.910	0.880	0.850	0.900	0.880	0.870	−0.10	0.00	0.20	±1.00
1.24	1.19	1.16	1.22	1.18	1.19	−0.14	−0.07	0.22	±1.00
1.70	1.63	1.59	1.69	1.63	1.62	−0.05	0.00	0.16	±1.00
2.26	2.17	2.11	2.28	2.17	2.14	0.08	0.00	0.12	±0.20
3.02	2.90	2.83	3.03	2.91	2.84	0.03	0.03	0.03	±0.20
4.10	3.94	3.84	4.11	3.94	3.85	0.02	0.00	0.02	±0.20
5.54	5.34	5.19	5.54	5.36	5.20	0.00	0.03	0.02	±0.20
7.47	7.19	6.98	7.49	7.23	7.00	0.02	0.05	0.02	±0.20
9.97	9.60	9.33	9.97	9.68	9.32	0.00	0.07	−0.01	±0.20
13.5	13.0	12.6	13.5	13.1	12.6	0.00	0.07	0.00	±0.20
18.1	17.5	17.0	18.2	17.6	17.0	0.05	0.05	0.00	±0.20
24.5	23.6	22.9	24.6	23.7	23.0	0.04	0.04	0.04	±0.20
32.7	31.5	30.6	32.9	31.7	30.8	0.05	0.05	0.06	±0.20
44.1	42.6	41.3	44.4	42.8	41.5	0.06	0.04	0.04	±0.20
59.9	57.7	55.9	60.2	58.1	56.3	0.04	0.06	0.06	±0.20
82.4	79.4	77.0	82.0	79.1	76.7	−0.04	−0.03	−0.03	±0.20
108	104	101	107	104	100	−0.08	0.00	−0.09	±0.20
148	143	139	148	142	138	0.00	−0.06	−0.06	±0.20
206	199	193	205	198	192	−0.04	−0.04	−0.05	±0.20
285	275	267	286	271	268	0.03	−0.13	0.03	±0.20
423	408	396	416	403	389	−0.14	−0.11	−0.15	±0.20
586	565	548	579	561	542	−0.10	−0.06	−0.10	±0.20
878	847	822	878	850	821	0.00	0.03	−0.01	±0.20
1340	1290	1250	1350	1310	1270	0.06	0.13	0.14	±0.30
1830	1760	1710	1870	1810	1750	0.19	0.24	0.20	±0.30
3010	2900	2820	3110	3010	2910	0.28	0.32	0.27	±0.50
3670	3530	3440	3800	3680	3560	0.30	0.36	0.30	±0.50

SPEAG H-field linearity tolerance criteria[1]:
- ±1.0 dB for applied H-fields < 2.0 A/m
- ±0.2 dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3 dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4 dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5 dB for applied H-fields ≥ 3000 A/m

[1] Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 1

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.380	0.370	0.360	0.410	0.380	0.390	0.66	0.23	0.70	±1.00
0.510	0.500	0.490	0.540	0.520	0.520	0.50	0.34	0.52	±1.00
0.700	0.680	0.670	0.720	0.690	0.680	0.24	0.13	0.13	±1.00
0.920	0.890	0.880	0.910	0.880	0.890	−0.09	−0.10	0.10	±1.00
1.24	1.21	1.18	1.25	1.20	1.21	0.07	−0.07	0.22	±1.00
1.70	1.65	1.63	1.71	1.66	1.64	0.05	0.05	0.05	±1.00
2.26	2.20	2.17	2.28	2.22	2.20	0.08	0.08	0.12	±0.20
3.03	2.95	2.90	3.06	2.97	2.91	0.09	0.06	0.03	±0.20
4.11	4.00	3.93	4.14	4.02	3.95	0.06	0.04	0.04	±0.20
5.56	5.42	5.32	5.59	5.46	5.33	0.05	0.06	0.02	±0.20
7.48	7.30	7.16	7.52	7.34	7.19	0.05	0.05	0.04	±0.20
9.99	9.74	9.56	10.0	9.79	9.61	0.01	0.04	0.05	±0.20
13.5	13.2	12.9	13.5	13.2	12.9	0.00	0.00	0.00	±0.20
18.2	17.8	17.4	18.2	17.8	17.5	0.00	0.00	0.05	±0.20
24.6	24.0	23.5	24.6	24.0	23.6	0.00	0.00	0.04	±0.20
32.8	32.0	31.3	33.0	32.2	31.5	0.05	0.05	0.06	±0.20
44.3	43.2	42.4	44.5	43.4	42.6	0.04	0.04	0.04	±0.20
60.0	58.5	57.3	60.4	58.9	57.7	0.06	0.06	0.06	±0.20
82.6	80.6	79.0	82.2	80.3	78.6	−0.04	−0.03	−0.04	±0.20
108	106	103	108	105	103	0.00	−0.08	0.00	±0.20
149	145	142	148	144	142	−0.06	−0.06	0.00	±0.20
206	202	198	206	201	197	0.00	−0.04	−0.04	±0.20
286	280	274	287	275	275	0.03	−0.16	0.03	±0.20
424	414	406	417	409	399	−0.14	−0.11	−0.15	±0.20
587	574	562	581	570	556	−0.09	−0.06	−0.09	±0.20
881	860	843	880	863	843	−0.01	0.03	0.00	±0.20
1340	1310	1280	1360	1330	1300	0.13	0.13	0.13	±0.30
1830	1790	1750	1870	1840	1790	0.19	0.24	0.20	±0.30
3020	2950	2890	3120	3060	2990	0.28	0.32	0.30	±0.50
3670	3580	3520	3810	3740	3660	0.33	0.38	0.34	±0.50

SPEAG H-field linearity tolerance criteria[1]:
- ±1.0dB for applied H-fields < 2.0A/m
- ±0.2dB for applied H-fields ≥ 2.0A/m and < 1000A/m
- ±0.3dB for applied H-fields ≥ 1000A/m and < 2000A/m
- ±0.4dB for applied H-fields ≥ 2000A/m and < 3000A/m
- ±0.5dB for applied H-fields ≥ 3000A/m

[1] Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 2

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.370	0.370	0.360	0.400	0.390	0.380	0.68	0.46	0.47	±1.00
0.500	0.500	0.490	0.530	0.510	0.520	0.51	0.17	0.52	±1.00
0.690	0.690	0.680	0.690	0.670	0.710	0.00	−0.26	0.37	±1.00
0.900	0.900	0.890	0.890	0.890	0.880	−0.10	−0.10	−0.10	±1.00
1.22	1.21	1.20	1.22	1.22	1.19	0.00	0.07	−0.07	±1.00
1.67	1.67	1.64	1.70	1.66	1.65	0.15	−0.05	0.05	±1.00
2.22	2.22	2.19	2.27	2.22	2.21	0.19	0.00	0.08	±0.20
2.97	2.97	2.93	3.01	2.97	2.94	0.12	0.00	0.03	±0.20
4.04	4.03	3.98	4.09	4.03	3.98	0.11	0.00	0.00	±0.20
5.46	5.45	5.39	5.49	5.46	5.37	0.05	0.02	−0.03	±0.20
7.35	7.34	7.24	7.38	7.37	7.24	0.04	0.04	0.00	±0.20
9.81	9.80	9.68	9.85	9.87	9.68	0.04	0.06	0.00	±0.20
13.2	13.2	13.1	13.3	13.3	13.1	0.07	0.07	0.00	±0.20
17.9	17.9	17.6	17.9	17.9	17.7	0.00	0.00	0.05	±0.20
24.1	24.1	23.8	24.2	24.2	23.9	0.04	0.04	0.04	±0.20
32.2	32.2	31.7	32.4	32.4	31.9	0.05	0.05	0.05	±0.20
43.5	43.5	42.9	43.8	43.8	43.1	0.06	0.06	0.04	±0.20
58.9	58.9	58.0	59.2	59.3	58.4	0.04	0.06	0.06	±0.20
81.1	81.1	79.9	80.7	80.7	79.5	−0.04	−0.04	−0.04	±0.20
106	106	105	106	106	104	0.00	0.00	−0.08	±0.20
146	146	144	145	145	143	−0.06	−0.06	−0.06	±0.20
203	203	200	202	202	199	−0.04	−0.04	−0.04	±0.20
281	281	277	282	276	278	0.03	−0.16	0.03	±0.20
416	417	411	409	411	404	−0.15	−0.13	−0.15	±0.20
576	577	569	570	573	563	−0.09	−0.06	−0.09	±0.20
865	865	853	864	868	852	−0.01	0.03	−0.01	±0.20
1310	1320	1300	1330	1340	1310	0.13	0.13	0.07	±0.30
1800	1800	1780	1840	1850	1820	0.19	0.24	0.19	±0.30
2960	2960	2920	3060	3070	3020	0.29	0.32	0.29	±0.40
3610	3610	3560	3740	3760	3700	0.31	0.35	0.34	±0.50

SPEAG H-field linearity tolerance criteria[1]:
- ±1.0dB for applied H-fields < 2.0A/m
- ±0.2dB for applied H-fields ≥ 2.0A/m and < 1000A/m
- ±0.3dB for applied H-fields ≥ 1000A/m and < 2000A/m
- ±0.4dB for applied H-fields ≥ 2000A/m and < 3000A/m
- ±0.5dB for applied H-fields ≥ 3000A/m

[1] Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 3

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.370	0.360	0.360	0.400	0.380	0.380	0.68	0.47	0.47	±1.00
0.500	0.490	0.490	0.530	0.520	0.500	0.51	0.52	0.18	±1.00
0.690	0.680	0.670	0.680	0.690	0.670	−0.13	0.13	0.00	±1.00
0.900	0.880	0.870	0.890	0.870	0.880	−0.10	−0.10	0.10	±1.00
1.22	1.20	1.18	1.23	1.19	1.20	0.07	−0.07	0.15	±1.00
1.67	1.64	1.62	1.68	1.66	1.63	0.05	0.11	0.05	±1.00
2.23	2.19	2.16	2.25	2.22	2.17	0.08	0.12	0.04	±0.20
2.98	2.92	2.89	2.99	2.94	2.90	0.03	0.06	0.03	±0.20
4.05	3.97	3.93	4.06	3.98	3.92	0.02	0.02	−0.02	±0.20
5.47	5.37	5.31	5.49	5.39	5.30	0.03	0.03	−0.02	±0.20
7.37	7.24	7.15	7.38	7.25	7.13	0.01	0.01	−0.02	±0.20
9.84	9.67	9.54	9.85	9.68	9.53	0.01	0.01	−0.01	±0.20
13.3	13.1	12.9	13.3	13.1	12.9	0.00	0.00	0.00	±0.20
17.9	17.6	17.4	18.0	17.6	17.4	0.05	0.00	0.00	±0.20
24.2	23.8	23.4	24.3	23.8	23.5	0.04	0.00	0.04	±0.20
32.2	31.7	31.3	32.5	31.9	31.5	0.08	0.05	0.06	±0.20
43.6	42.9	42.3	43.8	43.1	42.5	0.04	0.04	0.04	±0.20
59.0	58.0	57.2	59.4	58.5	57.7	0.06	0.07	0.08	±0.20
81.3	80.0	78.8	80.9	79.6	78.4	−0.04	−0.04	−0.04	±0.20
106	105	103	106	104	103	0.00	−0.08	0.00	±0.20
146	144	142	146	143	141	0.00	−0.06	−0.06	±0.20
203	200	197	203	199	196	0.00	−0.04	−0.04	±0.20
282	277	273	283	273	274	0.03	−0.13	0.03	±0.20
417	411	405	410	405	398	−0.15	−0.13	−0.15	±0.20
578	569	561	571	564	555	−0.11	−0.08	−0.09	±0.20
867	853	841	866	854	840	−0.01	0.01	−0.01	±0.20
1320	1300	1280	1330	1320	1290	0.07	0.13	0.07	±0.30
1800	1770	1750	1840	1820	1790	0.19	0.24	0.20	±0.30
2970	2920	2880	3070	3010	2980	0.29	0.26	0.30	±0.40
3620	3560	3520	3750	3670	3650	0.31	0.26	0.32	±0.50

SPEAG H-field linearity tolerance criteria[1]:
- ±1.0 dB for applied H-fields < 2.0 A/m
- ±0.2 dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3 dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4 dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5 dB for applied H-fields ≥ 3000 A/m

[1] Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 4

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.370	0.370	0.360	0.400	0.390	0.380	0.68	0.46	0.47	±1.00
0.510	0.510	0.490	0.530	0.530	0.510	0.33	0.33	0.35	±1.00
0.690	0.690	0.680	0.700	0.680	0.680	0.12	−0.13	0.00	±1.00
0.900	0.900	0.880	0.910	0.900	0.890	0.10	0.00	0.10	±1.00
1.22	1.22	1.19	1.24	1.24	1.20	0.14	0.14	0.07	±1.00
1.68	1.68	1.64	1.69	1.69	1.64	0.05	0.05	0.00	±1.00
2.23	2.24	2.18	2.24	2.24	2.20	0.04	0.00	0.08	±0.20
2.99	2.99	2.92	3.00	2.99	2.94	0.03	0.00	0.06	±0.20
4.05	4.06	3.96	4.07	4.06	3.99	0.04	0.00	0.07	±0.20
5.48	5.50	5.36	5.51	5.51	5.37	0.05	0.02	0.02	±0.20
7.38	7.40	7.21	7.41	7.41	7.24	0.04	0.01	0.04	±0.20
9.86	9.89	9.63	9.88	9.89	9.64	0.02	0.00	0.01	±0.20
13.3	13.3	13.0	13.3	13.4	13.0	0.00	0.07	0.00	±0.20
17.9	18.0	17.5	18.0	18.0	17.6	0.05	0.00	0.05	±0.20
24.2	24.3	23.7	24.3	24.4	23.7	0.04	0.04	0.00	±0.20
32.3	32.5	31.6	32.5	32.6	31.8	0.05	0.03	0.05	±0.20
43.7	43.9	42.7	44.0	44.1	42.9	0.06	0.04	0.04	±0.20
59.2	59.4	57.7	59.5	59.8	58.2	0.04	0.06	0.07	±0.20
81.5	81.8	79.6	81.0	81.4	79.2	−0.05	−0.04	−0.04	±0.20
107	107	104	106	107	104	−0.08	0.00	0.00	±0.20
147	147	143	146	147	143	−0.06	0.00	0.00	±0.20
204	205	199	203	204	198	−0.04	−0.04	−0.04	±0.20
282	284	276	283	279	277	0.03	−0.15	0.03	±0.20
418	420	409	411	415	402	−0.15	−0.10	−0.15	±0.20
579	582	566	572	578	560	−0.11	−0.06	−0.09	±0.20
869	873	849	867	876	849	−0.02	0.03	0.00	±0.20
1320	1330	1290	1340	1350	1310	0.13	0.13	0.13	±0.30
1810	1820	1770	1850	1860	1810	0.19	0.19	0.19	±0.30
2980	2990	2910	3080	3100	3010	0.29	0.31	0.29	±0.40
3620	3640	3550	3760	3790	3680	0.33	0.35	0.31	±0.50

SPEAG H-field linearity tolerance criteria[1]:
- ±1.0dB for applied H-fields < 2.0A/m
- ±0.2dB for applied H-fields ≥ 2.0A/m and < 1000A/m
- ±0.3dB for applied H-fields ≥ 1000A/m and < 2000A/m
- ±0.4dB for applied H-fields ≥ 2000A/m and < 3000A/m
- ±0.5dB for applied H-fields ≥ 3000A/m

[1] Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 5

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.370	0.370	0.370	0.380	0.400	0.380	0.23	0.68	0.23	±1.00
0.510	0.510	0.510	0.520	0.520	0.520	0.17	0.17	0.17	±1.00
0.700	0.700	0.700	0.680	0.710	0.710	−0.25	0.12	0.12	±1.00
0.910	0.910	0.910	0.900	0.910	0.920	−0.10	0.00	0.09	±1.00
1.23	1.23	1.23	1.23	1.24	1.24	0.00	0.07	0.07	±1.00
1.68	1.69	1.69	1.68	1.70	1.69	0.00	0.05	0.00	±1.00
2.24	2.25	2.25	2.25	2.28	2.26	0.04	0.12	0.04	±0.20
3.00	3.01	3.01	3.01	3.04	3.01	0.03	0.09	0.00	±0.20
4.07	4.09	4.08	4.10	4.13	4.08	0.06	0.08	0.00	±0.20
5.51	5.53	5.52	5.54	5.58	5.53	0.05	0.08	0.02	±0.20
7.41	7.45	7.43	7.45	7.48	7.48	0.05	0.03	0.06	±0.20
9.90	9.95	9.92	9.94	9.98	9.98	0.04	0.03	0.05	±0.20
13.4	13.4	13.4	13.4	13.5	13.5	0.00	0.06	0.06	±0.20
18.0	18.1	18.1	18.1	18.2	18.1	0.05	0.05	0.00	±0.20
24.4	24.5	24.4	24.4	24.6	24.5	0.00	0.04	0.04	±0.20
32.5	32.7	32.5	32.7	32.9	32.8	0.05	0.05	0.08	±0.20
43.8	44.1	44.0	44.1	44.4	44.2	0.06	0.06	0.04	±0.20
59.4	59.8	59.5	59.8	60.2	59.9	0.06	0.06	0.06	±0.20
81.8	82.3	81.9	81.4	81.9	81.5	−0.04	−0.04	−0.04	±0.20
107	108	107	107	107	107	0.00	−0.08	0.00	±0.20
147	148	148	147	148	147	0.00	0.00	−0.06	±0.20
205	206	205	204	205	204	−0.04	−0.04	−0.04	±0.20
283	286	284	285	281	285	0.06	−0.15	0.03	±0.20
420	423	421	413	418	414	−0.15	−0.10	−0.15	±0.20
582	586	583	575	581	577	−0.11	−0.07	−0.09	±0.20
872	878	874	872	881	874	0.00	0.03	0.00	±0.20
1330	1340	1330	1340	1360	1350	0.07	0.13	0.13	±0.30
1810	1830	1820	1860	1880	1860	0.24	0.23	0.19	±0.30
2990	3010	3000	3090	3120	3100	0.29	0.31	0.28	±0.50
3640	3660	3650	3780	3810	3790	0.33	0.35	0.33	±0.50

SPEAG H-field linearity tolerance criteria[1]:
±1.0dB for applied H-fields < 2.0A/m
±0.2dB for applied H-fields ≥ 2.0A/m and < 1000A/m
±0.3dB for applied H-fields ≥ 1000A/m and < 2000A/m
±0.4dB for applied H-fields ≥ 2000A/m and < 3000A/m
±0.5dB for applied H-fields ≥ 3000A/m

[1]Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 6

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.380	0.370	0.370	0.390	0.390	0.380	0.23	0.46	0.23	±1.00
0.520	0.510	0.500	0.530	0.530	0.510	0.17	0.33	0.17	±1.00
0.710	0.700	0.680	0.710	0.720	0.680	0.00	0.24	0.00	±1.00
0.920	0.910	0.890	0.900	0.930	0.890	−0.19	0.19	0.00	±1.00
1.25	1.23	1.21	1.24	1.25	1.21	−0.07	0.14	0.00	±1.00
1.72	1.69	1.66	1.72	1.73	1.66	0.00	0.20	0.00	±1.00
2.29	2.25	2.21	2.29	2.28	2.23	0.00	0.12	0.08	±0.20
3.06	3.01	2.96	3.06	3.05	2.97	0.00	0.11	0.03	±0.20
4.15	4.08	4.01	4.14	4.11	4.03	−0.02	0.06	0.04	±0.20
5.61	5.53	5.43	5.61	5.57	5.45	0.00	0.06	0.03	±0.20
7.56	7.44	7.30	7.55	7.47	7.33	−0.01	0.03	0.04	±0.20
10.1	9.94	9.76	10.1	9.99	9.76	0.00	0.04	0.00	±0.20
13.6	13.4	13.2	13.6	13.5	13.2	0.00	0.06	0.00	±0.20
18.4	18.1	17.8	18.4	18.1	17.8	0.00	0.00	0.00	±0.20
24.8	24.4	24.0	24.9	24.5	24.1	0.03	0.04	0.04	±0.20
33.1	32.6	32.0	33.3	32.8	32.2	0.05	0.05	0.05	±0.20
44.7	44.1	43.2	45.0	44.4	43.5	0.06	0.06	0.06	±0.20
60.6	59.7	58.5	61.0	60.1	58.9	0.06	0.06	0.06	±0.20
83.4	82.2	80.6	83.0	81.8	80.2	−0.04	−0.04	−0.04	±0.20
109	108	105	109	107	105	0.00	−0.08	0.00	±0.20
150	148	145	150	147	144	0.00	−0.06	−0.06	±0.20
209	206	202	208	205	201	−0.04	−0.04	−0.04	±0.20
289	285	279	290	280	280	0.03	−0.15	0.03	±0.20
428	423	414	421	417	407	−0.14	−0.12	−0.15	±0.20
593	585	574	586	581	567	−0.10	−0.06	−0.11	±0.20
890	877	860	888	880	859	−0.02	0.03	−0.01	±0.20
1350	1330	1310	1370	1360	1320	0.13	0.19	0.07	±0.30
1850	1830	1790	1890	1870	1830	0.19	0.19	0.19	±0.30
3050	3010	2950	3150	3120	3050	0.28	0.31	0.29	±0.50
3710	3660	3590	3850	3810	3730	0.32	0.35	0.33	±0.50

SPEAG H-field linearity tolerance criteria[1]:
- ±1.0dB for applied H-fields < 2.0A/m
- ±0.2dB for applied H-fields ≥ 2.0A/m and < 1000A/m
- ±0.3dB for applied H-fields ≥ 1000A/m and < 2000A/m
- ±0.4dB for applied H-fields ≥ 2000A/m and < 3000A/m
- ±0.5dB for applied H-fields ≥ 3000A/m

[1] Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, H-field, Channel 7

H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.380	0.370	0.360	0.380	0.380	0.370	0.00	0.23	0.24	±1.00
0.510	0.500	0.480	0.520	0.490	0.510	0.17	−0.18	0.53	±1.00
0.700	0.690	0.660	0.720	0.660	0.670	0.24	−0.39	0.13	±1.00
0.910	0.900	0.870	0.940	0.890	0.870	0.28	−0.10	0.00	±1.00
1.24	1.22	1.17	1.25	1.23	1.17	0.07	0.07	0.00	±1.00
1.70	1.67	1.61	1.69	1.70	1.61	−0.05	0.15	0.00	±1.00
2.26	2.23	2.14	2.26	2.25	2.15	0.00	0.08	0.04	±0.20
3.02	2.98	2.87	3.04	2.99	2.86	0.06	0.03	−0.03	±0.20
4.10	4.04	3.89	4.11	4.06	3.88	0.02	0.04	−0.02	±0.20
5.54	5.47	5.26	5.58	5.50	5.26	0.06	0.05	0.00	±0.20
7.46	7.37	7.08	7.49	7.38	7.09	0.03	0.01	0.01	±0.20
9.97	9.85	9.46	9.98	9.86	9.46	0.01	0.01	0.00	±0.20
13.5	13.3	12.8	13.5	13.3	12.8	0.00	0.00	0.00	±0.20
18.1	17.9	17.2	18.2	17.9	17.2	0.05	0.00	0.00	±0.20
24.5	24.2	23.2	24.6	24.2	23.3	0.04	0.00	0.04	±0.20
32.7	32.3	31.0	32.9	32.5	31.2	0.05	0.05	0.06	±0.20
44.1	43.7	41.9	44.4	43.9	42.1	0.06	0.04	0.04	±0.20
59.9	59.1	56.7	60.2	59.5	57.1	0.04	0.06	0.06	±0.20
82.4	81.5	78.1	82.0	81.1	77.8	−0.04	−0.04	−0.03	±0.20
108	107	102	107	106	102	−0.08	−0.08	0.00	±0.20
148	147	141	148	146	140	0.00	−0.06	−0.06	±0.20
206	204	195	205	203	194	−0.04	−0.04	−0.04	±0.20
285	282	271	286	278	272	0.03	−0.12	0.03	±0.20
423	419	402	416	414	395	−0.14	−0.10	−0.15	±0.20
586	580	556	579	576	550	−0.10	−0.06	−0.09	±0.20
878	869	834	877	874	833	−0.01	0.05	−0.01	±0.20
1340	1320	1270	1350	1350	1280	0.06	0.20	0.07	±0.30
1830	1810	1740	1870	1860	1770	0.19	0.24	0.15	±0.30
3010	2980	2860	3110	3100	2950	0.28	0.34	0.27	±0.50
3660	3620	3480	3800	3780	3620	0.33	0.38	0.34	±0.50

SPEAG H-field linearity tolerance criteria[1]:
- ±1.0 dB for applied H-fields < 2.0 A/m
- ±0.2 dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3 dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4 dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5 dB for applied H-fields ≥ 3000 A/m

[1] Calibration uncertainty not taken into account (shared risk 50%).

Dynamic Range, E-field, Channel 0

E-field/(V/m) Applied			E-field/(V/m) Reading			Difference/(dB)			Tolerance/(dB)		
x	y	z	x	y	z	x	y	z	x	y	z
0.320	0.200	0.070	0.330	0.210	0.060	0.27	0.42	−1.34	±5.00	±5.00	±5.00
0.440	0.270	0.090	0.460	0.260	0.110	0.39	−0.33	1.74	±5.00	±5.00	±5.00
0.600	0.380	0.130	0.620	0.380	0.140	0.28	0.00	0.64	±5.00	±5.00	±5.00
0.790	0.490	0.170	0.800	0.500	0.180	0.11	0.18	0.50	±5.00	±5.00	±5.00
1.07	0.660	0.220	1.10	0.660	0.240	0.24	0.00	0.76	±5.00	±5.00	±5.00
1.46	0.910	0.310	1.48	0.910	0.290	0.12	0.00	−0.58	±5.00	±5.00	±5.00
1.95	1.21	0.410	1.98	1.22	0.380	0.13	0.07	−0.66	±5.00	±5.00	±5.00
2.61	1.62	0.550	2.63	1.62	0.550	0.07	0.00	0.00	±1.00	±5.00	±5.00
3.54	2.20	0.740	3.57	2.19	0.760	0.07	−0.04	0.23	±1.00	±1.00	±5.00
4.79	2.98	1.00	4.82	2.99	0.990	0.05	0.03	−0.09	±1.00	±1.00	±5.00
6.45	4.01	1.35	6.50	4.01	1.32	0.07	0.00	−0.20	±1.00	±1.00	±5.00
8.62	5.36	1.81	8.69	5.36	1.75	0.07	0.00	−0.29	±1.00	±1.00	±5.00
11.6	7.23	2.44	11.7	7.22	2.37	0.07	−0.01	−0.25	±1.00	±1.00	±1.00
15.7	9.76	3.29	15.8	9.74	3.19	0.06	−0.02	−0.27	±1.00	±1.00	±1.00
21.2	13.2	4.44	21.3	13.1	4.32	0.04	−0.07	−0.24	±1.00	±1.00	±1.00
28.3	17.6	5.92	28.6	17.6	5.80	0.09	0.00	−0.18	±1.00	±1.00	±1.00
38.2	23.8	8.00	38.5	23.8	7.83	0.07	0.00	−0.19	±1.00	±1.00	±1.00
51.7	32.2	10.8	52.3	32.3	10.6	0.10	0.03	−0.16	±1.00	±1.00	±1.00
71.3	44.3	14.9	71.3	44.0	14.5	0.00	−0.06	−0.24	±1.00	±1.00	±1.00
93.3	58.0	19.5	93.3	57.6	18.9	0.00	−0.06	−0.27	±1.00	±1.00	±1.00
128	79.8	26.9	128	79.2	26.1	0.00	−0.07	−0.26	±1.00	±1.00	±1.00
178	111	37.3	178	110	36.3	0.00	−0.08	−0.24	±1.00	±1.00	±1.00
247	154	51.7	249	154	50.6	0.07	0.00	−0.19	±1.00	±1.00	±1.00
366	228	76.7	353	217	75.4	−0.31	−0.43	−0.15	±1.00	±1.00	±1.00
507	315	106	492	303	105	−0.26	−0.34	−0.08	±1.00	±1.00	±1.00
760	473	159	746	460	159	−0.16	−0.24	0.00	±1.00	±1.00	±1.00
1160	719	242	1150	709	246	−0.08	−0.12	0.14	±1.00	±1.00	±1.00
1580	983	331	1590	979	340	0.05	−0.04	0.23	±1.00	±1.00	±1.00
2600	1620	545	2650	1630	538	0.17	0.05	−0.11	±1.00	±1.00	±1.00
3170	1970	664	3240	1990	660	0.19	0.09	−0.05	±1.00	±1.00	±1.00

SPEAG E-field linearity tolerance criteria[1]:
±5.0dB for applied E-field < 2V/m
±1.0dB for applied E-field ≥ 2V/m

[1] Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response

Frequency Response, H-field, Channel 0

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.54	1.54	1.54	1.55	1.55	1.54	0.06	0.06	0.00	±0.3
3200	1.54	1.54	1.54	1.55	1.55	1.54	0.06	0.06	0.00	±0.3
4000	1.53	1.53	1.53	1.54	1.54	1.53	0.06	0.06	0.00	±0.3
5200	1.52	1.52	1.52	1.53	1.53	1.51	0.06	0.06	−0.06	±0.3
6600	1.51	1.51	1.51	1.51	1.51	1.51	0.00	0.00	0.00	±0.3
8200	1.50	1.50	1.50	1.50	1.50	1.49	0.00	0.00	−0.06	±0.3
9000	1.50	1.50	1.50	1.50	1.50	1.49	0.00	0.00	−0.06	±0.3
10600	4.34	4.32	4.31	4.33	4.30	4.29	−0.02	−0.04	−0.04	±0.3
13400	4.36	4.33	4.32	4.36	4.33	4.31	0.00	0.00	−0.02	±0.3
17000	4.36	4.32	4.31	4.37	4.34	4.31	0.02	0.04	0.00	±0.3
21400	4.38	4.34	4.33	4.38	4.37	4.34	0.00	0.06	0.02	±0.3
27200	4.38	4.34	4.33	4.38	4.34	4.33	0.00	0.00	0.00	±0.3
34400	4.38	4.35	4.34	4.39	4.36	4.34	0.02	0.02	0.00	±0.3
40000	4.37	4.34	4.33	4.38	4.35	4.33	0.02	0.02	0.00	±0.3
43600	4.36	4.33	4.33	4.37	4.34	4.34	0.02	0.02	0.02	±0.3
55400	4.35	4.32	4.32	4.36	4.33	4.33	0.02	0.02	0.02	±0.3
70000	4.34	4.31	4.31	4.36	4.32	4.30	0.04	0.02	−0.02	±0.3
88800	4.33	4.30	4.29	4.33	4.31	4.30	0.00	0.02	0.02	±0.3
112400	4.31	4.29	4.28	4.32	4.29	4.29	0.02	0.00	0.02	±0.3
142400	4.30	4.27	4.27	4.31	4.27	4.28	0.02	0.00	0.02	±0.3
161750	4.28	4.25	4.25	4.29	4.25	4.25	0.02	0.00	0.00	±0.3
180400	4.27	4.24	4.24	4.28	4.26	4.24	0.02	0.04	0.00	±0.3
228400	4.24	4.21	4.20	4.25	4.21	4.21	0.02	0.00	0.02	±0.3
289400	4.20	4.17	4.17	4.21	4.18	4.17	0.02	0.02	0.00	±0.3
366400	4.16	4.14	4.13	4.17	4.15	4.14	0.02	0.02	0.02	±0.3
400000	4.14	4.12	4.12	4.15	4.13	4.12	0.02	0.02	0.00	±0.3
464000	4.11	4.09	4.09	4.13	4.10	4.09	0.04	0.02	0.00	±0.3
587800	4.07	4.05	4.04	4.08	4.06	4.05	0.02	0.02	0.02	±0.3
744200	4.02	4.00	4.00	4.03	4.01	4.00	0.02	0.02	0.00	±0.3
942600	4.00	3.99	3.99	4.01	4.00	3.99	0.02	0.02	0.00	±0.3
1193600	3.98	3.97	3.96	4.00	3.98	3.97	0.04	0.02	0.02	±0.3
1511600	3.98	3.96	3.96	3.99	3.96	3.96	0.02	0.00	0.00	±0.3
1914400	3.96	3.95	3.94	3.97	3.96	3.94	0.02	0.02	0.00	±0.3
2424400	3.95	3.93	3.93	3.95	3.93	3.93	0.00	0.00	0.00	±0.3
3070200	3.92	3.90	3.90	3.92	3.91	3.90	0.00	0.02	0.00	±0.3
3888000	3.86	3.85	3.84	3.87	3.85	3.84	0.02	0.00	0.00	±0.3
4000000	3.86	3.84	3.83	3.87	3.85	3.84	0.02	0.02	0.02	±0.3
4923800	3.79	3.78	3.77	3.80	3.78	3.77	0.02	0.00	0.00	±0.3
6235400	3.69	3.67	3.67	3.69	3.67	3.68	0.00	0.00	0.02	±0.3
7896400	3.54	3.53	3.52	3.55	3.53	3.53	0.02	0.00	0.02	±0.3
10000000	3.40	3.38	3.38	3.41	3.40	3.38	0.03	0.05	0.00	±0.3

SPEAG H-field frequency response tolerance criteria[1]:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

[1] Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 1

	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			
f/(Hz)	x	y	z	x	y	z	x	y	z	Tolerance/(dB)
3000	1.54	1.54	1.54	1.55	1.55	1.55	0.06	0.06	0.06	±0.3
3200	1.54	1.54	1.54	1.56	1.55	1.54	0.11	0.06	0.00	±0.3
4000	1.53	1.53	1.53	1.53	1.53	1.54	0.00	0.00	0.06	±0.3
5200	1.52	1.52	1.52	1.53	1.53	1.52	0.06	0.06	0.00	±0.3
6600	1.51	1.51	1.51	1.51	1.51	1.51	0.00	0.00	0.00	±0.3
8200	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	±0.3
9000	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	±0.3
10600	4.34	4.32	4.31	4.32	4.33	4.30	−0.04	0.02	−0.02	±0.3
13400	4.36	4.33	4.32	4.37	4.33	4.31	0.02	0.00	−0.02	±0.3
17000	4.36	4.32	4.31	4.37	4.33	4.32	0.02	0.02	0.02	±0.3
21400	4.38	4.34	4.33	4.40	4.35	4.36	0.04	0.02	0.06	±0.3
27200	4.38	4.34	4.33	4.39	4.34	4.33	0.02	0.00	0.00	±0.3
34400	4.38	4.35	4.34	4.38	4.36	4.34	0.00	0.02	0.00	±0.3
40000	4.37	4.34	4.33	4.38	4.35	4.34	0.02	0.02	0.02	±0.3
43600	4.36	4.33	4.33	4.36	4.35	4.33	0.00	0.04	0.00	±0.3
55400	4.35	4.32	4.32	4.36	4.33	4.33	0.02	0.02	0.02	±0.3
70000	4.34	4.31	4.31	4.35	4.32	4.31	0.02	0.02	0.00	±0.3
88800	4.33	4.30	4.29	4.33	4.30	4.30	0.00	0.00	0.02	±0.3
112400	4.31	4.29	4.28	4.34	4.29	4.29	0.06	0.00	0.02	±0.3
142400	4.30	4.27	4.27	4.30	4.28	4.27	0.00	0.02	0.00	±0.3
161750	4.28	4.25	4.25	4.29	4.27	4.25	0.02	0.04	0.00	±0.3
180400	4.27	4.24	4.24	4.27	4.25	4.24	0.00	0.02	0.00	±0.3
228400	4.24	4.21	4.20	4.25	4.21	4.21	0.02	0.00	0.02	±0.3
289400	4.20	4.17	4.17	4.20	4.18	4.18	0.00	0.02	0.02	±0.3
366400	4.16	4.14	4.13	4.17	4.15	4.14	0.02	0.02	0.02	±0.3
400000	4.14	4.12	4.12	4.15	4.13	4.12	0.02	0.02	0.00	±0.3
464000	4.11	4.09	4.09	4.13	4.10	4.09	0.04	0.02	0.00	±0.3
587800	4.07	4.05	4.04	4.08	4.05	4.05	0.02	0.00	0.02	±0.3
744200	4.02	4.00	4.00	4.03	4.01	4.00	0.02	0.02	0.00	±0.3
942600	4.00	3.99	3.99	4.01	4.00	3.99	0.02	0.02	0.00	±0.3
1193600	3.98	3.97	3.96	3.99	3.98	3.97	0.02	0.02	0.02	±0.3
1511600	3.98	3.96	3.96	3.98	3.96	3.96	0.00	0.00	0.00	±0.3
1914400	3.96	3.95	3.94	3.97	3.94	3.95	0.02	−0.02	0.02	±0.3
2424400	3.95	3.93	3.93	3.95	3.94	3.93	0.00	0.02	0.00	±0.3
3070200	3.92	3.90	3.90	3.92	3.91	3.90	0.00	0.02	0.00	±0.3
3888000	3.86	3.85	3.84	3.87	3.85	3.84	0.02	0.00	0.00	±0.3
4000000	3.86	3.84	3.83	3.87	3.85	3.84	0.02	0.02	0.02	±0.3
4923800	3.79	3.78	3.77	3.80	3.78	3.78	0.02	0.00	0.02	±0.3
6235400	3.69	3.67	3.67	3.69	3.67	3.67	0.00	0.00	0.00	±0.3
7896400	3.54	3.53	3.52	3.55	3.53	3.54	0.02	0.00	0.05	±0.3
10000000	3.40	3.38	3.38	3.40	3.38	3.39	0.00	0.00	0.03	±0.3

SPEAG H-field frequency response tolerance criteria[1]:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

[1] Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 2

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.54	1.54	1.54	1.54	1.55	1.55	0.00	0.06	0.06	±0.3
3200	1.54	1.54	1.54	1.56	1.55	1.55	0.11	0.06	0.06	±0.3
4000	1.53	1.53	1.53	1.54	1.54	1.53	0.06	0.06	0.00	±0.3
5200	1.52	1.52	1.52	1.53	1.53	1.52	0.06	0.06	0.00	±0.3
6600	1.51	1.51	1.51	1.51	1.51	1.51	0.00	0.00	0.00	±0.3
8200	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	±0.3
9000	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	±0.3
10600	4.34	4.32	4.31	4.34	4.30	4.31	0.00	−0.04	0.00	±0.3
13400	4.36	4.33	4.32	4.38	4.34	4.30	0.04	0.02	−0.04	±0.3
17000	4.36	4.32	4.31	4.37	4.32	4.32	0.02	0.00	0.02	±0.3
21400	4.38	4.34	4.33	4.38	4.35	4.33	0.00	0.02	0.00	±0.3
27200	4.38	4.34	4.33	4.39	4.35	4.32	0.02	0.02	−0.02	±0.3
34400	4.38	4.35	4.34	4.38	4.36	4.34	0.00	0.02	0.00	±0.3
40000	4.37	4.34	4.33	4.38	4.35	4.33	0.02	0.02	0.00	±0.3
43600	4.36	4.33	4.33	4.38	4.35	4.33	0.04	0.04	0.00	±0.3
55400	4.35	4.32	4.32	4.36	4.33	4.32	0.02	0.02	0.00	±0.3
70000	4.34	4.31	4.31	4.34	4.31	4.32	0.00	0.00	0.02	±0.3
88800	4.33	4.30	4.29	4.34	4.31	4.30	0.02	0.02	0.02	±0.3
112400	4.31	4.29	4.28	4.32	4.30	4.29	0.02	0.02	0.02	±0.3
142400	4.30	4.27	4.27	4.30	4.29	4.27	0.00	0.04	0.00	±0.3
161750	4.28	4.25	4.25	4.29	4.27	4.25	0.02	0.04	0.00	±0.3
180400	4.27	4.24	4.24	4.27	4.24	4.24	0.00	0.00	0.00	±0.3
228400	4.24	4.21	4.20	4.26	4.22	4.21	0.04	0.02	0.02	±0.3
289400	4.20	4.17	4.17	4.21	4.18	4.17	0.02	0.02	0.00	±0.3
366400	4.16	4.14	4.13	4.17	4.15	4.14	0.02	0.02	0.02	±0.3
400000	4.14	4.12	4.12	4.15	4.13	4.12	0.02	0.02	0.00	±0.3
464000	4.11	4.09	4.09	4.12	4.10	4.09	0.02	0.02	0.00	±0.3
587800	4.07	4.05	4.04	4.08	4.06	4.05	0.02	0.02	0.02	±0.3
744200	4.02	4.00	4.00	4.03	4.01	4.00	0.02	0.02	0.00	±0.3
942600	4.00	3.99	3.99	4.02	4.00	3.99	0.04	0.02	0.00	±0.3
1193600	3.98	3.97	3.96	3.99	3.98	3.97	0.02	0.02	0.02	±0.3
1511600	3.98	3.96	3.96	3.99	3.97	3.96	0.02	0.02	0.00	±0.3
1914400	3.96	3.95	3.94	3.97	3.95	3.94	0.02	0.00	0.00	±0.3
2424400	3.95	3.93	3.93	3.96	3.94	3.94	0.02	0.02	0.02	±0.3
3070200	3.92	3.90	3.90	3.93	3.91	3.90	0.02	0.02	0.00	±0.3
3888000	3.86	3.85	3.84	3.87	3.86	3.85	0.02	0.02	0.02	±0.3
4000000	3.86	3.84	3.83	3.85	3.84	3.84	−0.02	0.00	0.02	±0.3
4923800	3.79	3.78	3.77	3.80	3.78	3.77	0.02	0.00	0.00	±0.3
6235400	3.69	3.67	3.67	3.69	3.68	3.67	0.00	0.02	0.00	±0.3
7896400	3.54	3.53	3.52	3.55	3.53	3.52	0.02	0.00	0.00	±0.3
10000000	3.40	3.38	3.38	3.40	3.37	3.39	0.00	−0.03	0.03	±0.3

SPEAG H-field frequency response tolerance criteria[1]:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

[1]Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 3

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.54	1.54	1.54	1.55	1.55	1.55	0.06	0.06	0.06	±0.3
3200	1.54	1.54	1.54	1.55	1.56	1.54	0.06	0.11	0.00	±0.3
4000	1.53	1.53	1.53	1.54	1.54	1.53	0.06	0.06	0.00	±0.3
5200	1.52	1.52	1.52	1.53	1.53	1.52	0.06	0.06	0.00	±0.3
6600	1.51	1.51	1.51	1.51	1.51	1.52	0.00	0.00	0.06	±0.3
8200	1.50	1.50	1.50	1.50	1.49	1.50	0.00	−0.06	0.00	±0.3
9000	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	±0.3
10600	4.34	4.32	4.31	4.36	4.30	4.31	0.04	−0.04	0.00	±0.3
13400	4.36	4.33	4.32	4.37	4.32	4.34	0.02	−0.02	0.04	±0.3
17000	4.36	4.32	4.31	4.36	4.33	4.33	0.00	0.02	0.04	±0.3
21400	4.38	4.34	4.33	4.40	4.35	4.34	0.04	0.02	0.02	±0.3
27200	4.38	4.34	4.33	4.38	4.34	4.33	0.00	0.00	0.00	±0.3
34400	4.38	4.35	4.34	4.39	4.35	4.34	0.02	0.00	0.00	±0.3
40000	4.37	4.34	4.33	4.38	4.35	4.34	0.02	0.02	0.02	±0.3
43600	4.36	4.33	4.33	4.37	4.35	4.32	0.02	0.04	−0.02	±0.3
55400	4.35	4.32	4.32	4.36	4.33	4.32	0.02	0.02	0.00	±0.3
70000	4.34	4.31	4.31	4.35	4.32	4.32	0.02	0.02	0.02	±0.3
88800	4.33	4.30	4.29	4.34	4.32	4.30	0.02	0.04	0.02	±0.3
112400	4.31	4.29	4.28	4.33	4.33	4.29	0.04	0.08	0.02	±0.3
142400	4.30	4.27	4.27	4.31	4.27	4.27	0.02	0.00	0.00	±0.3
161750	4.28	4.25	4.25	4.29	4.25	4.25	0.02	0.00	0.00	±0.3
180400	4.27	4.24	4.24	4.28	4.23	4.24	0.02	−0.02	0.00	±0.3
228400	4.24	4.21	4.20	4.25	4.22	4.21	0.02	0.02	0.02	±0.3
289400	4.20	4.17	4.17	4.20	4.18	4.17	0.00	0.02	0.00	±0.3
366400	4.16	4.14	4.13	4.17	4.15	4.14	0.02	0.02	0.02	±0.3
400000	4.14	4.12	4.12	4.15	4.13	4.12	0.02	0.02	0.00	±0.3
464000	4.11	4.09	4.09	4.13	4.10	4.09	0.04	0.02	0.00	±0.3
587800	4.07	4.05	4.04	4.08	4.06	4.06	0.02	0.02	0.04	±0.3
744200	4.02	4.00	4.00	4.03	4.01	4.01	0.02	0.02	0.02	±0.3
942600	4.00	3.99	3.99	4.01	4.00	3.99	0.02	0.02	0.00	±0.3
1193600	3.98	3.97	3.96	3.99	3.98	3.97	0.02	0.02	0.02	±0.3
1511600	3.98	3.96	3.96	3.98	3.97	3.96	0.00	0.02	0.00	±0.3
1914400	3.96	3.95	3.94	3.97	3.95	3.95	0.02	0.00	0.02	±0.3
2424400	3.95	3.93	3.93	3.96	3.94	3.94	0.02	0.02	0.02	±0.3
3070200	3.92	3.90	3.90	3.93	3.91	3.90	0.02	0.02	0.00	±0.3
3888000	3.86	3.85	3.84	3.87	3.85	3.84	0.02	0.00	0.00	±0.3
4000000	3.86	3.84	3.83	3.87	3.85	3.84	0.02	0.02	0.02	±0.3
4923800	3.79	3.78	3.77	3.80	3.78	3.78	0.02	0.00	0.02	±0.3
6235400	3.69	3.67	3.67	3.69	3.67	3.67	0.00	0.00	0.00	±0.3
7896400	3.54	3.53	3.52	3.55	3.53	3.53	0.02	0.00	0.02	±0.3
10000000	3.40	3.38	3.38	3.40	3.40	3.38	0.00	0.05	0.00	±0.3

SPEAG H-field frequency response tolerance criteria[1]:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

[1] Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 4

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.54	1.54	1.54	1.54	1.55	1.53	0.00	0.06	−0.06	±0.3
3200	1.54	1.54	1.54	1.56	1.55	1.53	0.11	0.06	−0.06	±0.3
4000	1.53	1.53	1.53	1.53	1.54	1.52	0.00	0.06	−0.06	±0.3
5200	1.52	1.52	1.52	1.53	1.53	1.53	0.06	0.06	0.06	±0.3
6600	1.51	1.51	1.51	1.51	1.52	1.50	0.00	0.06	−0.06	±0.3
8200	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	±0.3
9000	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	±0.3
10600	4.34	4.32	4.31	4.33	4.31	4.34	−0.02	−0.02	0.06	±0.3
13400	4.36	4.33	4.32	4.37	4.34	4.33	0.02	0.02	0.02	±0.3
17000	4.36	4.32	4.31	4.36	4.33	4.32	0.00	0.02	0.02	±0.3
21400	4.38	4.34	4.33	4.38	4.34	4.34	0.00	0.00	0.02	±0.3
27200	4.38	4.34	4.33	4.40	4.34	4.34	0.04	0.00	0.02	±0.3
34400	4.38	4.35	4.34	4.39	4.36	4.34	0.02	0.02	0.00	±0.3
40000	4.37	4.34	4.33	4.38	4.36	4.33	0.02	0.04	0.00	±0.3
43600	4.36	4.33	4.33	4.38	4.33	4.34	0.04	0.00	0.02	±0.3
55400	4.35	4.32	4.32	4.36	4.34	4.32	0.02	0.04	0.00	±0.3
70000	4.34	4.31	4.31	4.35	4.32	4.32	0.02	0.02	0.02	±0.3
88800	4.33	4.30	4.29	4.34	4.30	4.30	0.02	0.00	0.02	±0.3
112400	4.31	4.29	4.28	4.32	4.28	4.29	0.02	−0.02	0.02	±0.3
142400	4.30	4.27	4.27	4.31	4.28	4.28	0.02	0.02	0.02	±0.3
161750	4.28	4.25	4.25	4.29	4.26	4.25	0.02	0.02	0.00	±0.3
180400	4.27	4.24	4.24	4.28	4.29	4.24	0.02	0.10	0.00	±0.3
228400	4.24	4.21	4.20	4.25	4.21	4.21	0.02	0.00	0.02	±0.3
289400	4.20	4.17	4.17	4.21	4.18	4.17	0.02	0.02	0.00	±0.3
366400	4.16	4.14	4.13	4.17	4.15	4.13	0.02	0.02	0.00	±0.3
400000	4.14	4.12	4.12	4.15	4.13	4.12	0.02	0.02	0.00	±0.3
464000	4.11	4.09	4.09	4.12	4.10	4.09	0.02	0.02	0.00	±0.3
587800	4.07	4.05	4.04	4.09	4.06	4.05	0.04	0.02	0.02	±0.3
744200	4.02	4.00	4.00	4.03	4.01	4.00	0.02	0.02	0.00	±0.3
942600	4.00	3.99	3.99	4.02	4.00	3.99	0.04	0.02	0.00	±0.3
1193600	3.98	3.97	3.96	3.99	3.97	3.97	0.02	0.00	0.02	±0.3
1511600	3.98	3.96	3.96	3.98	3.96	3.96	0.00	0.00	0.00	±0.3
1914400	3.96	3.95	3.94	3.97	3.95	3.95	0.02	0.00	0.02	±0.3
2424400	3.95	3.93	3.93	3.96	3.94	3.93	0.02	0.02	0.00	±0.3
3070200	3.92	3.90	3.90	3.92	3.91	3.91	0.00	0.02	0.02	±0.3
3888000	3.86	3.85	3.84	3.87	3.85	3.84	0.02	0.00	0.00	±0.3
4000000	3.86	3.84	3.83	3.86	3.84	3.84	0.00	0.00	0.02	±0.3
4923800	3.79	3.78	3.77	3.79	3.78	3.77	0.00	0.00	0.00	±0.3
6235400	3.69	3.67	3.67	3.69	3.67	3.67	0.00	0.00	0.00	±0.3
7896400	3.54	3.53	3.52	3.55	3.53	3.52	0.02	0.00	0.00	±0.3
10000000	3.40	3.38	3.38	3.39	3.39	3.39	−0.03	0.03	0.03	±0.3

SPEAG H-field frequency response tolerance criteria[1]:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

[1] Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 5

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.54	1.54	1.54	1.54	1.54	1.55	0.00	0.00	0.06	±0.3
3200	1.54	1.54	1.54	1.55	1.56	1.54	0.06	0.11	0.00	±0.3
4000	1.53	1.53	1.53	1.54	1.53	1.53	0.06	0.00	0.00	±0.3
5200	1.52	1.52	1.52	1.53	1.52	1.52	0.06	0.00	0.00	±0.3
6600	1.51	1.51	1.51	1.51	1.51	1.51	0.00	0.00	0.00	±0.3
8200	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	±0.3
9000	1.50	1.50	1.50	1.50	1.49	1.50	0.00	−0.06	0.00	±0.3
10600	4.34	4.32	4.31	4.33	4.35	4.33	−0.02	0.06	0.04	±0.3
13400	4.36	4.33	4.32	4.39	4.34	4.31	0.06	0.02	−0.02	±0.3
17000	4.36	4.32	4.31	4.37	4.33	4.31	0.02	0.02	0.00	±0.3
21400	4.38	4.34	4.33	4.40	4.35	4.35	0.04	0.02	0.04	±0.3
27200	4.38	4.34	4.33	4.39	4.34	4.34	0.02	0.00	0.02	±0.3
34400	4.38	4.35	4.34	4.39	4.36	4.34	0.02	0.02	0.00	±0.3
40000	4.37	4.34	4.33	4.38	4.35	4.34	0.02	0.02	0.02	±0.3
43600	4.36	4.33	4.33	4.37	4.34	4.34	0.02	0.02	0.02	±0.3
55400	4.35	4.32	4.32	4.36	4.33	4.32	0.02	0.02	0.00	±0.3
70000	4.34	4.31	4.31	4.35	4.33	4.32	0.02	0.04	0.02	±0.3
88800	4.33	4.30	4.29	4.34	4.31	4.30	0.02	0.02	0.02	±0.3
112400	4.31	4.29	4.28	4.33	4.29	4.29	0.04	0.00	0.02	±0.3
142400	4.30	4.27	4.27	4.31	4.27	4.27	0.02	0.00	0.00	±0.3
161750	4.28	4.25	4.25	4.29	4.26	4.25	0.02	0.02	0.00	±0.3
180400	4.27	4.24	4.24	4.27	4.27	4.24	0.00	0.06	0.00	±0.3
228400	4.24	4.21	4.20	4.25	4.21	4.21	0.02	0.00	0.02	±0.3
289400	4.20	4.17	4.17	4.21	4.18	4.17	0.02	0.02	0.00	±0.3
366400	4.16	4.14	4.13	4.17	4.15	4.14	0.02	0.02	0.02	±0.3
400000	4.14	4.12	4.12	4.15	4.13	4.12	0.02	0.02	0.00	±0.3
464000	4.11	4.09	4.09	4.13	4.10	4.09	0.04	0.02	0.00	±0.3
587800	4.07	4.05	4.04	4.08	4.05	4.05	0.02	0.00	0.02	±0.3
744200	4.02	4.00	4.00	4.02	4.01	4.00	0.00	0.02	0.00	±0.3
942600	4.00	3.99	3.99	4.02	4.00	3.99	0.04	0.02	0.00	±0.3
1193600	3.98	3.97	3.96	3.99	3.98	3.97	0.02	0.02	0.02	±0.3
1511600	3.98	3.96	3.96	3.99	3.97	3.96	0.02	0.02	0.00	±0.3
1914400	3.96	3.95	3.94	3.97	3.95	3.94	0.02	0.00	0.00	±0.3
2424400	3.95	3.93	3.93	3.96	3.94	3.93	0.02	0.02	0.00	±0.3
3070200	3.92	3.90	3.90	3.92	3.91	3.90	0.00	0.02	0.00	±0.3
3888000	3.86	3.85	3.84	3.87	3.85	3.84	0.02	0.00	0.00	±0.3
4000000	3.86	3.84	3.83	3.87	3.84	3.84	0.02	0.00	0.02	±0.3
4923800	3.79	3.78	3.77	3.80	3.78	3.77	0.02	0.00	0.00	±0.3
6235400	3.69	3.67	3.67	3.69	3.67	3.66	0.00	0.00	−0.02	±0.3
7896400	3.54	3.53	3.52	3.54	3.53	3.53	0.00	0.00	0.02	±0.3
10000000	3.40	3.38	3.38	3.40	3.39	3.40	0.00	0.03	0.05	±0.3

SPEAG H-field frequency response tolerance criteria[1]:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

[1] Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 6

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.54	1.54	1.54	1.54	1.55	1.53	0.00	0.06	−0.06	±0.3
3200	1.54	1.54	1.54	1.56	1.55	1.55	0.11	0.06	0.06	±0.3
4000	1.53	1.53	1.53	1.54	1.53	1.53	0.06	0.00	0.00	±0.3
5200	1.52	1.52	1.52	1.53	1.53	1.51	0.06	0.06	−0.06	±0.3
6600	1.51	1.51	1.51	1.50	1.51	1.51	−0.06	0.00	0.00	±0.3
8200	1.50	1.50	1.50	1.49	1.50	1.50	−0.06	0.00	0.00	±0.3
9000	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	±0.3
10600	4.34	4.32	4.31	4.37	4.34	4.28	0.06	0.04	−0.06	±0.3
13400	4.36	4.33	4.32	4.35	4.33	4.31	−0.02	0.00	−0.02	±0.3
17000	4.36	4.32	4.31	4.36	4.33	4.31	0.00	0.02	0.00	±0.3
21400	4.38	4.34	4.33	4.39	4.34	4.33	0.02	0.00	0.00	±0.3
27200	4.38	4.34	4.33	4.39	4.33	4.34	0.02	−0.02	0.02	±0.3
34400	4.38	4.35	4.34	4.39	4.36	4.35	0.02	0.02	0.02	±0.3
40000	4.37	4.34	4.33	4.39	4.34	4.34	0.04	0.00	0.02	±0.3
43600	4.36	4.33	4.33	4.37	4.35	4.33	0.02	0.04	0.00	±0.3
55400	4.35	4.32	4.32	4.36	4.33	4.32	0.02	0.02	0.00	±0.3
70000	4.34	4.31	4.31	4.36	4.30	4.30	0.04	−0.02	−0.02	±0.3
88800	4.33	4.30	4.29	4.33	4.29	4.30	0.00	−0.02	0.02	±0.3
112400	4.31	4.29	4.28	4.33	4.30	4.29	0.04	0.02	0.02	±0.3
142400	4.30	4.27	4.27	4.31	4.30	4.28	0.02	0.06	0.02	±0.3
161750	4.28	4.25	4.25	4.29	4.29	4.25	0.02	0.08	0.00	±0.3
180400	4.27	4.24	4.24	4.27	4.21	4.24	0.00	−0.06	0.00	±0.3
228400	4.24	4.21	4.20	4.25	4.21	4.21	0.02	0.00	0.02	±0.3
289400	4.20	4.17	4.17	4.21	4.18	4.17	0.02	0.02	0.00	±0.3
366400	4.16	4.14	4.13	4.17	4.14	4.14	0.02	0.00	0.02	±0.3
400000	4.14	4.12	4.12	4.15	4.13	4.12	0.02	0.02	0.00	±0.3
464000	4.11	4.09	4.09	4.12	4.09	4.09	0.02	0.00	0.00	±0.3
587800	4.07	4.05	4.04	4.08	4.05	4.05	0.02	0.00	0.02	±0.3
744200	4.02	4.00	4.00	4.03	4.00	4.00	0.02	0.00	0.00	±0.3
942600	4.00	3.99	3.99	4.01	4.00	3.99	0.02	0.02	0.00	±0.3
1193600	3.98	3.97	3.96	3.99	3.98	3.97	0.02	0.02	0.02	±0.3
1511600	3.98	3.96	3.96	3.98	3.96	3.96	0.00	0.00	0.00	±0.3
1914400	3.96	3.95	3.94	3.97	3.95	3.94	0.02	0.00	0.00	±0.3
2424400	3.95	3.93	3.93	3.95	3.94	3.93	0.00	0.02	0.00	±0.3
3070200	3.92	3.90	3.90	3.92	3.91	3.91	0.00	0.02	0.02	±0.3
3888000	3.86	3.85	3.84	3.87	3.85	3.84	0.02	0.00	0.00	±0.3
4000000	3.86	3.84	3.83	3.86	3.84	3.84	0.00	0.00	0.02	±0.3
4923800	3.79	3.78	3.77	3.79	3.78	3.77	0.00	0.00	0.00	±0.3
6235400	3.69	3.67	3.67	3.69	3.68	3.67	0.00	0.02	0.00	±0.3
7896400	3.54	3.53	3.52	3.55	3.53	3.52	0.02	0.00	0.00	±0.3
10000000	3.40	3.38	3.38	3.39	3.38	3.38	−0.03	0.00	0.00	±0.3

SPEAG H-field frequency response tolerance criteria[1]:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

[1] Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, H-field, Channel 7

f/(Hz)	H-field/(A/m) Applied			H-field/(A/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	1.54	1.54	1.54	1.54	1.54	1.54	0.00	0.00	0.00	±0.3
3200	1.54	1.54	1.54	1.55	1.55	1.54	0.06	0.06	0.00	±0.3
4000	1.53	1.53	1.53	1.54	1.52	1.54	0.06	−0.06	0.06	±0.3
5200	1.52	1.52	1.52	1.52	1.53	1.51	0.00	0.06	−0.06	±0.3
6600	1.51	1.51	1.51	1.51	1.51	1.51	0.00	0.00	0.00	±0.3
8200	1.50	1.50	1.50	1.50	1.50	1.50	0.00	0.00	0.00	±0.3
9000	1.50	1.50	1.50	1.49	1.49	1.49	−0.06	−0.06	−0.06	±0.3
10600	4.34	4.32	4.31	4.32	4.32	4.32	−0.04	0.00	0.02	±0.3
13400	4.36	4.33	4.32	4.37	4.34	4.33	0.02	0.02	0.02	±0.3
17000	4.36	4.32	4.31	4.36	4.33	4.32	0.00	0.02	0.02	±0.3
21400	4.38	4.34	4.33	4.39	4.35	4.34	0.02	0.02	0.02	±0.3
27200	4.38	4.34	4.33	4.39	4.34	4.33	0.02	0.00	0.00	±0.3
34400	4.38	4.35	4.34	4.39	4.36	4.34	0.02	0.02	0.00	±0.3
40000	4.37	4.34	4.33	4.37	4.35	4.34	0.00	0.02	0.02	±0.3
43600	4.36	4.33	4.33	4.37	4.34	4.34	0.02	0.02	0.02	±0.3
55400	4.35	4.32	4.32	4.36	4.33	4.32	0.02	0.02	0.00	±0.3
70000	4.34	4.31	4.31	4.35	4.32	4.31	0.02	0.02	0.00	±0.3
88800	4.33	4.30	4.29	4.33	4.30	4.30	0.00	0.00	0.02	±0.3
112400	4.31	4.29	4.28	4.33	4.30	4.29	0.04	0.02	0.02	±0.3
142400	4.30	4.27	4.27	4.30	4.28	4.27	0.00	0.02	0.00	±0.3
161750	4.28	4.25	4.25	4.29	4.27	4.25	0.02	0.04	0.00	±0.3
180400	4.27	4.24	4.24	4.27	4.24	4.24	0.00	0.00	0.00	±0.3
228400	4.24	4.21	4.20	4.25	4.21	4.21	0.02	0.00	0.02	±0.3
289400	4.20	4.17	4.17	4.20	4.18	4.17	0.00	0.02	0.00	±0.3
366400	4.16	4.14	4.13	4.17	4.15	4.14	0.02	0.02	0.02	±0.3
400000	4.14	4.12	4.12	4.15	4.13	4.12	0.02	0.02	0.00	±0.3
464000	4.11	4.09	4.09	4.13	4.09	4.09	0.04	0.00	0.00	±0.3
587800	4.07	4.05	4.04	4.08	4.06	4.05	0.02	0.02	0.02	±0.3
744200	4.02	4.00	4.00	4.02	4.01	4.00	0.00	0.02	0.00	±0.3
942600	4.00	3.99	3.99	4.01	4.00	3.99	0.02	0.02	0.00	±0.3
1193600	3.98	3.97	3.96	3.99	3.98	3.97	0.02	0.02	0.02	±0.3
1511600	3.98	3.96	3.96	3.98	3.96	3.96	0.00	0.00	0.00	±0.3
1914400	3.96	3.95	3.94	3.97	3.95	3.94	0.02	0.00	0.00	±0.3
2424400	3.95	3.93	3.93	3.96	3.94	3.93	0.02	0.02	0.00	±0.3
3070200	3.92	3.90	3.90	3.93	3.91	3.91	0.02	0.02	0.02	±0.3
3888000	3.86	3.85	3.84	3.87	3.85	3.84	0.02	0.00	0.00	±0.3
4000000	3.86	3.84	3.83	3.87	3.85	3.83	0.02	0.02	0.00	±0.3
4923800	3.79	3.78	3.77	3.79	3.78	3.77	0.00	0.00	0.00	±0.3
6235400	3.69	3.67	3.67	3.69	3.67	3.66	0.00	0.00	−0.02	±0.3
7896400	3.54	3.53	3.52	3.54	3.53	3.53	0.00	0.00	0.02	±0.3
10000000	3.40	3.38	3.38	3.40	3.39	3.39	0.00	0.03	0.03	±0.3

SPEAG H-field frequency response tolerance criteria[1]:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

[1]Calibration uncertainty not taken into account (shared risk 50%).

Frequency Response, E-field, Channel 0

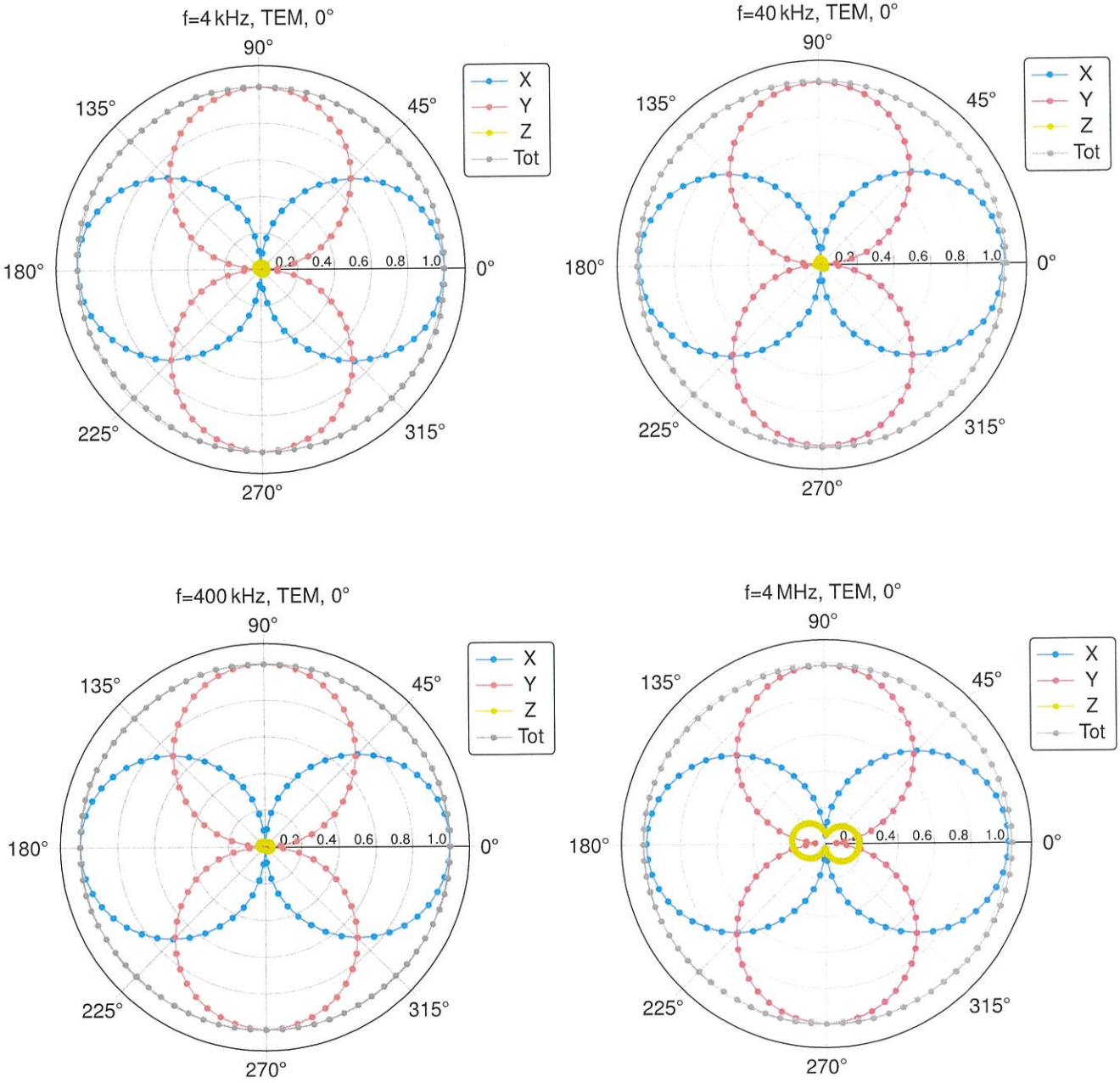
	E-field/(V/m) Applied			E-field/(V/m) Reading			Difference/(dB)			
f/(Hz)	x	y	z	x	y	z	x	y	z	Tolerance/(dB)
3000	169	169	172	169	169	172	0.00	0.00	0.00	±0.3
3200	167	167	162	169	170	161	0.10	0.15	−0.05	±0.3
4000	175	175	170	175	175	170	0.00	0.00	0.00	±0.3
5200	165	165	163	165	165	164	0.00	0.00	0.05	±0.3
6600	163	163	160	162	162	160	−0.05	−0.05	0.00	±0.3
8200	162	162	159	162	162	158	0.00	0.00	−0.05	±0.3
9000	163	163	164	163	163	163	0.00	0.00	−0.05	±0.3
10600	166	166	159	166	166	159	0.00	0.00	0.00	±0.3
13400	163	163	162	163	163	162	0.00	0.00	0.00	±0.3
17000	161	161	163	161	161	163	0.00	0.00	0.00	±0.3
21400	157	157	158	157	157	158	0.00	0.00	0.00	±0.3
27200	158	158	157	158	158	157	0.00	0.00	0.00	±0.3
34400	162	162	159	162	162	159	0.00	0.00	0.00	±0.3
40000	161	161	161	161	161	161	0.00	0.00	0.00	±0.3
43600	162	162	160	162	162	160	0.00	0.00	0.00	±0.3
55400	161	161	159	161	161	158	0.00	0.00	−0.05	±0.3
70000	162	162	160	162	162	160	0.00	0.00	0.00	±0.3
88800	161	161	160	161	161	160	0.00	0.00	0.00	±0.3
112400	161	161	160	161	161	160	0.00	0.00	0.00	±0.3
142400	162	162	160	162	162	160	0.00	0.00	0.00	±0.3
161750	163	163	162	163	163	162	0.00	0.00	0.00	±0.3
180400	164	164	162	164	164	162	0.00	0.00	0.00	±0.3
228400	165	165	163	165	165	163	0.00	0.00	0.00	±0.3
289400	166	166	164	166	166	164	0.00	0.00	0.00	±0.3
366400	166	166	165	166	166	164	0.00	0.00	−0.05	±0.3
400000	167	167	165	167	167	165	0.00	0.00	0.00	±0.3
464000	168	168	166	168	168	166	0.00	0.00	0.00	±0.3
587800	169	169	167	169	169	167	0.00	0.00	0.00	±0.3
744200	169	169	167	169	169	167	0.00	0.00	0.00	±0.3
942600	170	170	168	170	170	168	0.00	0.00	0.00	±0.3
1193600	171	171	169	171	171	169	0.00	0.00	0.00	±0.3
1511600	170	170	169	170	170	169	0.00	0.00	0.00	±0.3
1914400	170	170	168	170	170	168	0.00	0.00	0.00	±0.3
2424400	170	170	168	170	170	168	0.00	0.00	0.00	±0.3
3070200	171	171	169	171	170	169	0.00	−0.05	0.00	±0.3
3888000	171	171	169	171	171	169	0.00	0.00	0.00	±0.3
4000000	171	171	169	171	171	169	0.00	0.00	0.00	±0.3
4923800	172	172	170	172	172	170	0.00	0.00	0.00	±0.3
6235400	174	174	172	174	174	172	0.00	0.00	0.00	±0.3
7896400	180	180	179	180	180	178	0.00	0.00	−0.05	±0.3
10000000	201	201	199	201	201	199	0.00	0.00	0.00	±0.3

SPEAG E-field frequency response tolerance criteria[1]:
±0.3dB for applied E-fields at calibration points from 3kHz to 10MHz

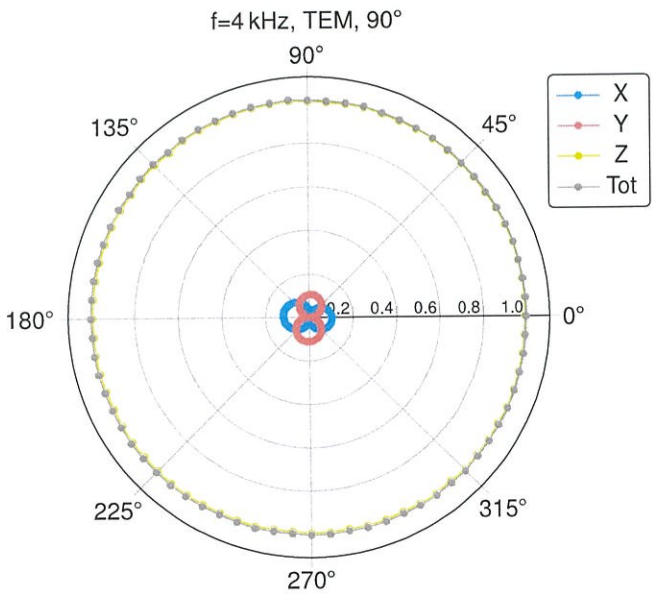
[1] Calibration uncertainty not taken into account (shared risk 50%).

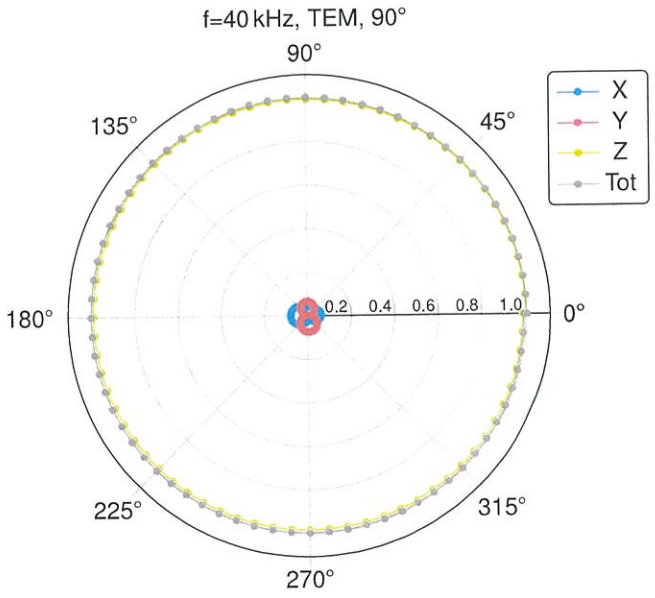
Isotropy H-Field

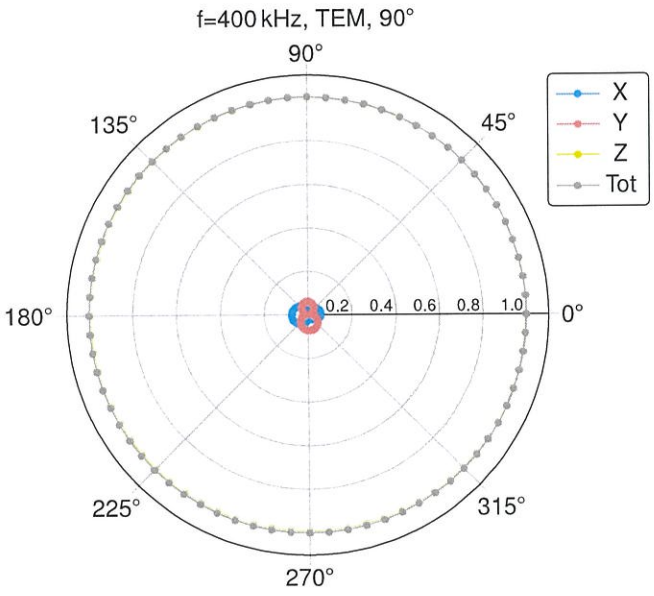
H-Field Receiving Pattern (ϕ), $\vartheta = 0°$

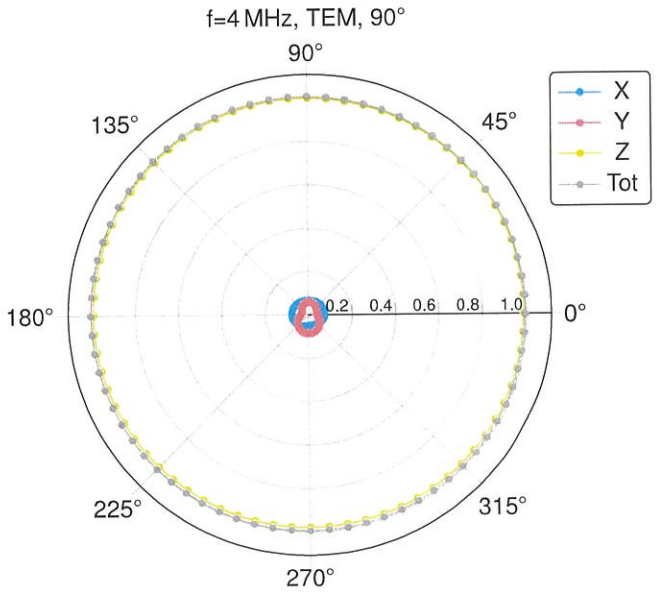


H-Field Receiving Pattern (ϕ), $\vartheta = 90°$

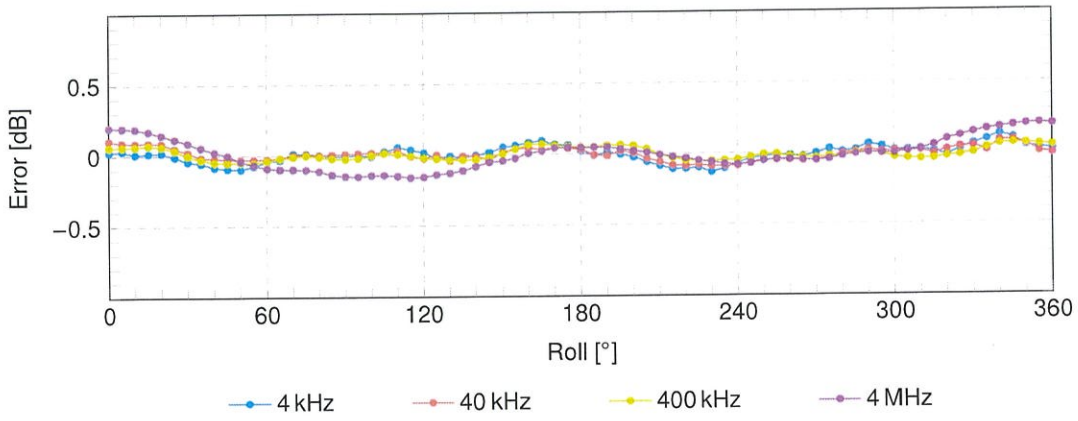




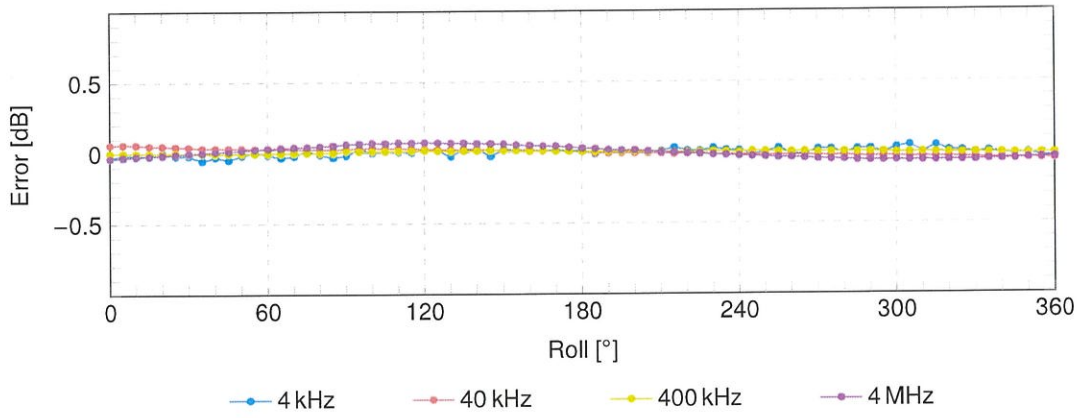




H-Field Receiving Pattern (ϕ), $\vartheta = 0°$



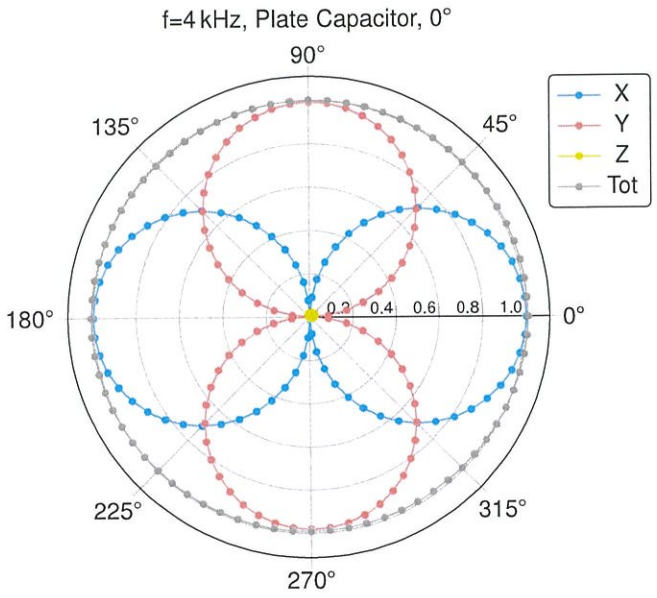
H-Field Receiving Pattern (ϕ), $\vartheta = 90°$

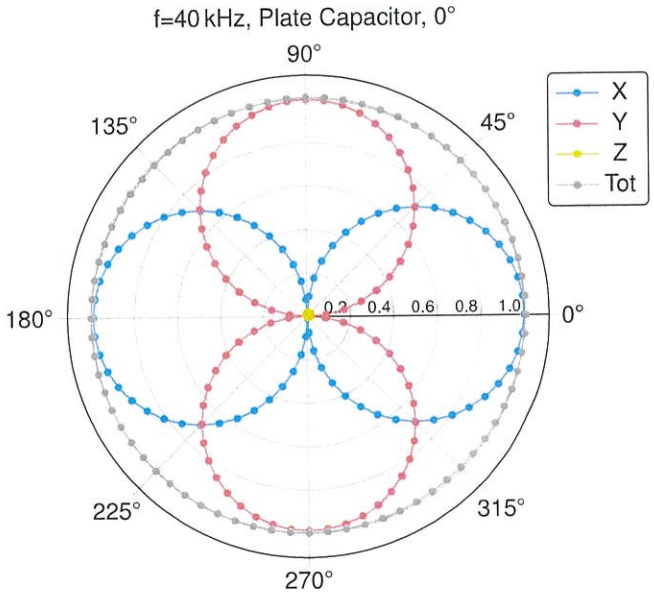


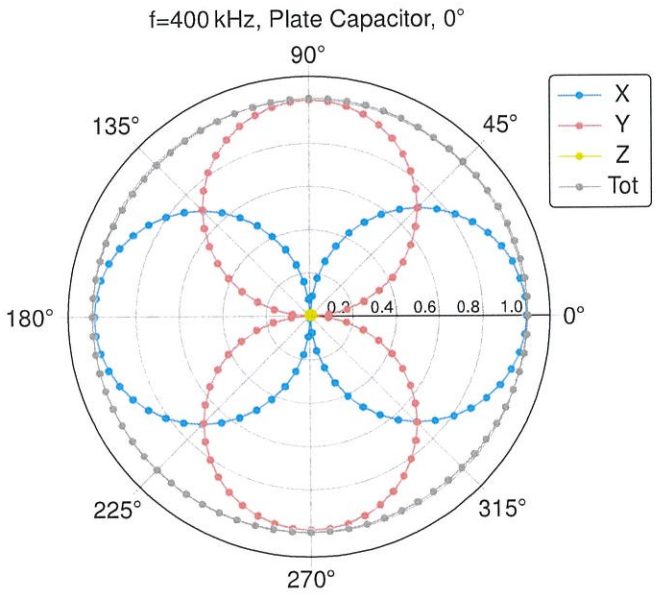
SPEAG axial deviation from the ideal response tolerance for H-field: ±0.6 dB

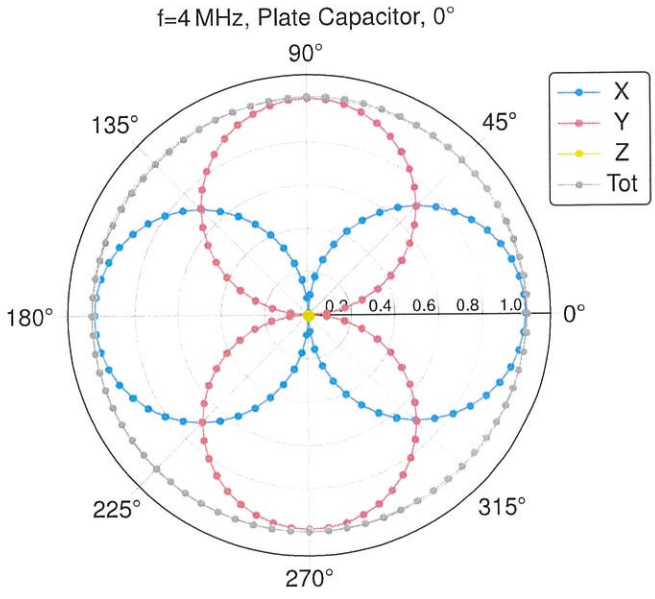
Isotropy E-Field

E-Field Receiving Pattern (ϕ), $\vartheta = 0°$

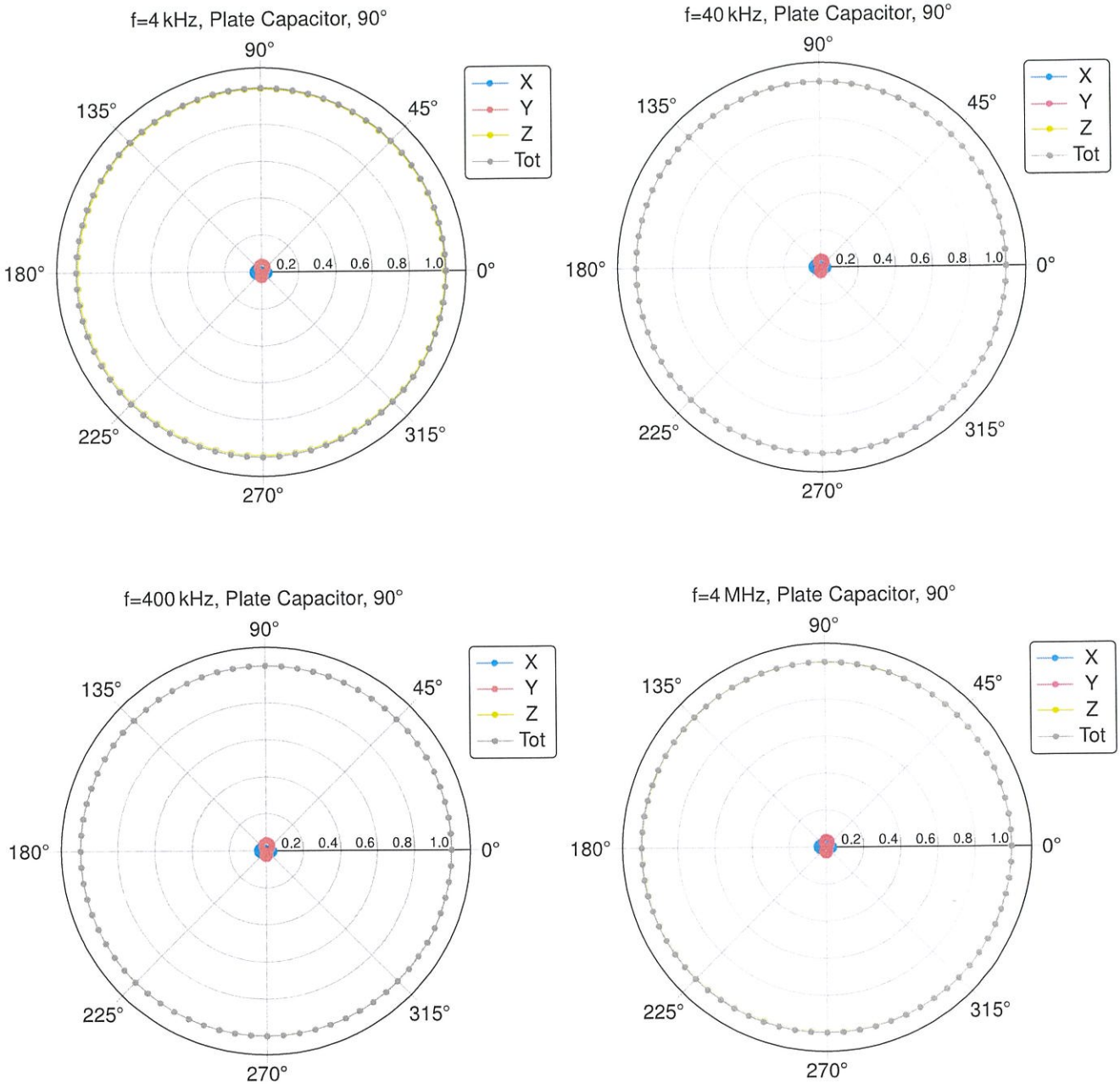




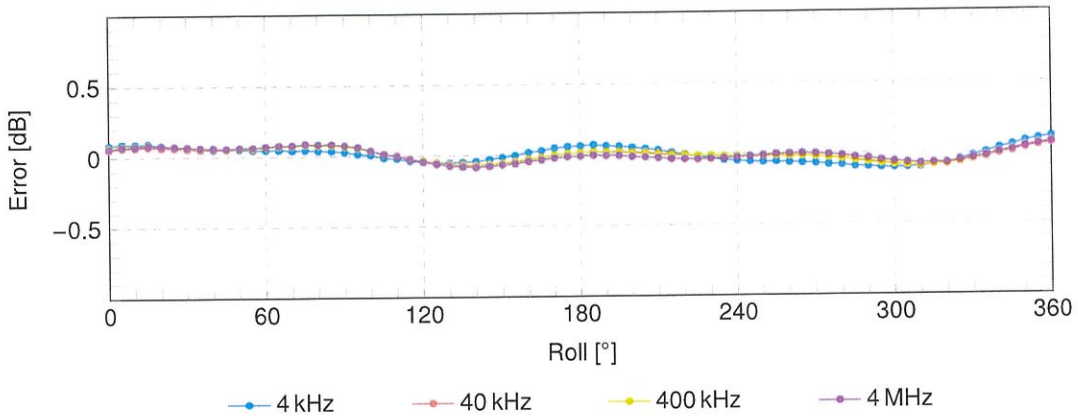




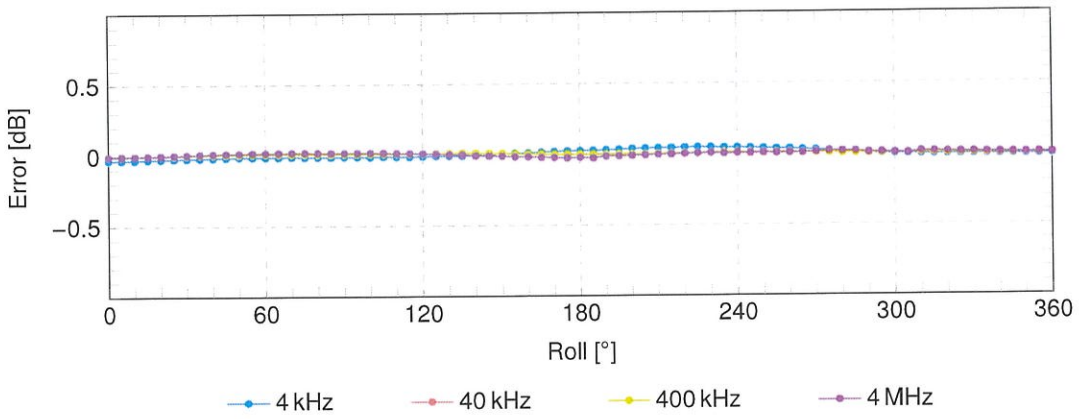
E-Field Receiving Pattern (ϕ), $\vartheta = 90°$



E-Field Receiving Pattern (ϕ), $\vartheta = 0°$



E-Field Receiving Pattern (ϕ), $\vartheta = 90°$



SPEAG axial deviation from the ideal response tolerance for E-field: ±0.8 dB