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Accreditation No.: **SCS 0108**

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

Certificate No. **MAGPy-8H3D-3071_Aug25**

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 **August 12, 2025**

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
Oscilloscope	SN: 110918	03-Sep-24 (No. 4030A315008835)	Sep-25
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-25 (No. 217-04284)	Mar-26
Type-N mismatch	SN: L1119	26-Mar-25 (No. 217-04292)	Mar-26

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Network Analyzer E5061B	SN: MY49810822	In house check: Nov-24	In house check: Nov-25
TEM Cell	SN: S6029i	In house check: Nov-24	In house check: Nov-25
Plate Capacitor	SN: 6028i	In house check: Nov-24	In house check: Nov-25
Resonator (160kHz)	SN: 6030i	In house check: Nov-24	In house check: Nov-25

	Name	Function
Calibrated by	Krešimir Franjić	Laboratory Technician
Approved by	Sven Kühn	Technical Manager

Signature

Issued: August 13, 2025

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



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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 $\phi = 0^\circ \dots 360^\circ$; $\vartheta = 90^\circ$, and $\phi = 0^\circ \dots 360^\circ$; 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 $\phi = 0^\circ \dots 360^\circ$; $\vartheta = 90^\circ$, and $\phi = 0^\circ \dots 360^\circ$; 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 AE)	2050
	MAGPy FPGA Board	WP000107
Adjustment Date	Last MAGPy Adjustment	August 12, 2025
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)			Tolerance/(dB)
x	y	z	x	y	z	x	y	z	
0.390	0.370	0.360	0.400	0.380	0.400	0.22	0.23	0.92	±1.00
0.530	0.500	0.490	0.540	0.520	0.520	0.16	0.34	0.52	±1.00
0.720	0.690	0.680	0.700	0.710	0.690	-0.24	0.25	0.13	±1.00
0.940	0.910	0.890	0.920	0.900	0.900	-0.19	-0.10	0.10	±1.00
1.28	1.23	1.20	1.26	1.21	1.23	-0.14	-0.14	0.21	±1.00
1.76	1.69	1.64	1.76	1.68	1.66	0.00	-0.05	0.11	±1.00
2.33	2.25	2.19	2.33	2.25	2.21	0.00	0.00	0.08	±0.20
3.11	3.00	2.91	3.12	2.99	2.91	0.03	-0.03	0.00	±0.20
4.22	4.07	3.95	4.23	4.07	3.95	0.02	0.00	0.00	±0.20
5.71	5.52	5.34	5.69	5.53	5.35	-0.03	0.02	0.02	±0.20
7.67	7.41	7.18	7.68	7.46	7.18	0.01	0.06	0.00	±0.20
10.2	9.90	9.57	10.2	10.0	9.58	0.00	0.09	0.01	±0.20
13.8	13.4	12.9	13.8	13.5	12.9	0.00	0.06	0.00	±0.20
18.6	18.1	17.4	18.7	18.2	17.4	0.05	0.05	0.00	±0.20
25.1	24.4	23.5	25.2	24.5	23.6	0.03	0.04	0.04	±0.20
33.5	32.6	31.4	33.7	32.8	31.6	0.05	0.05	0.06	±0.20
45.2	44.1	42.4	45.4	44.3	42.7	0.04	0.04	0.06	±0.20
61.3	59.9	57.6	61.6	60.1	58.0	0.04	0.03	0.06	±0.20
84.2	82.2	79.2	83.8	81.9	78.9	-0.04	-0.03	-0.03	±0.20
110	108	104	110	107	103	0.00	-0.08	-0.08	±0.20
151	148	143	151	148	142	0.00	0.00	-0.06	±0.20
209	205	198	209	205	198	0.00	0.00	0.00	±0.20
290	285	275	292	280	276	0.06	-0.15	0.03	±0.20
428	421	407	421	415	399	-0.14	-0.12	-0.17	±0.20
591	581	562	585	577	556	-0.09	-0.06	-0.09	±0.20
885	868	842	884	872	841	-0.01	0.04	-0.01	±0.20
1340	1320	1280	1360	1340	1290	0.13	0.13	0.07	±0.30
1830	1800	1740	1880	1850	1790	0.23	0.24	0.25	±0.30
2990	2930	2840	3090	3040	2940	0.29	0.32	0.30	±0.40
3550	3460	3370	3690	3610	3500	0.34	0.37	0.33	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±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

¹Calibration 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	
0.390	0.380	0.370	0.410	0.390	0.390	0.43	0.23	0.46	±1.00
0.530	0.510	0.510	0.550	0.540	0.520	0.32	0.50	0.17	±1.00
0.730	0.710	0.700	0.730	0.710	0.690	0.00	0.00	-0.12	±1.00
0.960	0.920	0.910	0.950	0.910	0.910	-0.09	-0.09	0.00	±1.00
1.30	1.25	1.23	1.30	1.24	1.25	0.00	-0.07	0.14	±1.00
1.78	1.71	1.68	1.77	1.71	1.70	-0.05	0.00	0.10	±1.00
2.37	2.28	2.25	2.38	2.28	2.26	0.04	0.00	0.04	±0.20
3.16	3.05	2.99	3.17	3.06	3.00	0.03	0.03	0.03	±0.20
4.28	4.14	4.05	4.30	4.15	4.06	0.04	0.02	0.02	±0.20
5.79	5.60	5.48	5.80	5.63	5.49	0.01	0.05	0.02	±0.20
7.78	7.53	7.36	7.79	7.58	7.40	0.01	0.06	0.05	±0.20
10.4	10.1	9.82	10.4	10.1	9.88	0.00	0.00	0.05	±0.20
14.0	13.6	13.3	14.0	13.7	13.3	0.00	0.06	0.00	±0.20
18.9	18.3	17.9	18.9	18.4	17.9	0.00	0.05	0.00	±0.20
25.5	24.8	24.1	25.5	24.9	24.2	0.00	0.03	0.04	±0.20
34.0	33.1	32.2	34.2	33.3	32.4	0.05	0.05	0.05	±0.20
45.8	44.8	43.5	46.0	45.0	43.8	0.04	0.04	0.06	±0.20
62.1	60.8	59.1	62.5	61.1	59.4	0.06	0.04	0.04	±0.20
85.4	83.5	81.3	85.0	83.2	81.0	-0.04	-0.03	-0.03	±0.20
112	109	106	111	109	106	-0.08	0.00	0.00	±0.20
153	150	146	153	150	146	0.00	0.00	0.00	±0.20
212	209	203	212	208	203	0.00	-0.04	0.00	±0.20
294	289	282	296	284	283	0.06	-0.15	0.03	±0.20
434	427	417	427	422	410	-0.14	-0.10	-0.15	±0.20
600	590	577	593	586	570	-0.10	-0.06	-0.11	±0.20
897	882	864	896	886	863	-0.01	0.04	-0.01	±0.20
1360	1340	1310	1380	1360	1330	0.13	0.13	0.13	±0.30
1860	1820	1790	1900	1880	1830	0.18	0.28	0.19	±0.30
3030	2970	2920	3130	3090	3020	0.28	0.34	0.29	±0.50
3590	3520	3460	3730	3670	3590	0.33	0.36	0.32	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0 A/m
- ±0.2dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5dB for applied H-fields ≥ 3000 A/m

¹Calibration 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	
0.380	0.380	0.380	0.410	0.400	0.400	0.66	0.45	0.45	±1.00
0.520	0.510	0.520	0.540	0.540	0.540	0.33	0.50	0.33	±1.00
0.720	0.710	0.710	0.710	0.690	0.730	-0.12	-0.25	0.24	±1.00
0.940	0.930	0.920	0.930	0.910	0.920	-0.09	-0.19	0.00	±1.00
1.27	1.25	1.25	1.29	1.26	1.24	0.14	0.07	-0.07	±1.00
1.75	1.72	1.71	1.75	1.70	1.71	0.00	-0.10	0.00	±1.00
2.32	2.30	2.28	2.36	2.29	2.28	0.15	-0.04	0.00	±0.20
3.10	3.07	3.04	3.13	3.06	3.04	0.08	-0.03	0.00	±0.20
4.20	4.16	4.12	4.24	4.15	4.11	0.08	-0.02	-0.02	±0.20
5.68	5.63	5.57	5.71	5.63	5.56	0.05	0.00	-0.02	±0.20
7.63	7.57	7.49	7.66	7.61	7.49	0.03	0.05	0.00	±0.20
10.2	10.1	9.99	10.2	10.2	10.0	0.00	0.09	0.01	±0.20
13.7	13.7	13.5	13.8	13.8	13.6	0.06	0.06	0.06	±0.20
18.5	18.4	18.2	18.6	18.5	18.3	0.05	0.05	0.05	±0.20
25.0	24.9	24.6	25.0	25.0	24.6	0.00	0.03	0.00	±0.20
33.3	33.3	32.8	33.5	33.5	33.0	0.05	0.05	0.05	±0.20
44.9	45.0	44.3	45.2	45.3	44.6	0.06	0.06	0.06	±0.20
60.9	61.1	60.1	61.3	61.4	60.5	0.06	0.04	0.06	±0.20
83.8	84.0	82.7	83.4	83.6	82.3	-0.04	-0.04	-0.04	±0.20
109	110	108	109	110	108	0.00	0.00	0.00	±0.20
150	151	149	150	151	148	0.00	0.00	-0.06	±0.20
208	210	207	208	209	206	0.00	-0.04	-0.04	±0.20
289	291	287	290	285	288	0.03	-0.18	0.03	±0.20
426	430	424	419	424	417	-0.14	-0.12	-0.14	±0.20
588	593	586	582	589	580	-0.09	-0.06	-0.09	±0.20
880	887	878	879	890	877	-0.01	0.03	-0.01	±0.20
1330	1340	1330	1350	1370	1350	0.13	0.19	0.13	±0.30
1820	1830	1820	1860	1890	1860	0.19	0.28	0.19	±0.30
2980	2990	2970	3070	3100	3070	0.26	0.31	0.29	±0.40
3530	3540	3520	3660	3690	3650	0.31	0.36	0.32	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0 A/m
- ±0.2dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5dB for applied H-fields ≥ 3000 A/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	
0.380	0.370	0.370	0.400	0.390	0.380	0.45	0.46	0.23	±1.00
0.520	0.510	0.500	0.520	0.530	0.510	0.00	0.33	0.17	±1.00
0.720	0.700	0.690	0.700	0.720	0.690	-0.24	0.24	0.00	±1.00
0.940	0.910	0.900	0.920	0.910	0.900	-0.19	0.00	0.00	±1.00
1.27	1.23	1.22	1.27	1.23	1.24	0.00	0.00	0.14	±1.00
1.74	1.69	1.68	1.73	1.70	1.68	-0.05	0.05	0.00	±1.00
2.31	2.26	2.24	2.32	2.27	2.23	0.04	0.04	-0.04	±0.20
3.09	3.01	2.98	3.09	3.01	2.97	0.00	0.00	-0.03	±0.20
4.19	4.09	4.04	4.20	4.10	4.03	0.02	0.02	-0.02	±0.20
5.66	5.53	5.46	5.66	5.53	5.44	0.00	0.00	-0.03	±0.20
7.61	7.44	7.33	7.60	7.46	7.31	-0.01	0.02	-0.02	±0.20
10.2	9.93	9.78	10.2	9.97	9.77	0.00	0.03	-0.01	±0.20
13.7	13.4	13.2	13.8	13.5	13.2	0.06	0.06	0.00	±0.20
18.5	18.1	17.8	18.5	18.2	17.8	0.00	0.05	0.00	±0.20
24.9	24.5	24.0	25.0	24.5	24.1	0.03	0.00	0.04	±0.20
33.2	32.7	32.1	33.4	32.9	32.3	0.05	0.05	0.05	±0.20
44.8	44.2	43.4	45.0	44.5	43.6	0.04	0.06	0.04	±0.20
60.7	60.0	58.9	61.1	60.4	59.2	0.06	0.06	0.04	±0.20
83.5	82.5	80.9	83.1	82.1	80.6	-0.04	-0.04	-0.03	±0.20
109	108	106	109	108	106	0.00	0.00	0.00	±0.20
150	149	146	149	148	145	-0.06	-0.06	-0.06	±0.20
208	206	202	207	206	202	-0.04	0.00	0.00	±0.20
288	286	281	289	281	282	0.03	-0.15	0.03	±0.20
424	422	415	417	416	408	-0.14	-0.12	-0.15	±0.20
586	583	574	580	578	567	-0.09	-0.07	-0.11	±0.20
877	871	860	876	874	859	-0.01	0.03	-0.01	±0.20
1330	1320	1310	1350	1340	1320	0.13	0.13	0.07	±0.30
1820	1800	1780	1860	1850	1820	0.19	0.24	0.19	±0.30
2970	2930	2910	3070	3020	3000	0.29	0.26	0.26	±0.40
3520	3470	3440	3660	3590	3570	0.34	0.30	0.32	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0A/m
- ±0.2dB for applied H-fields ≥ 2.0A/m and < 1000 A/m
- ±0.3dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5dB 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	
0.380	0.380	0.380	0.400	0.380	0.390	0.45	0.00	0.23	±1.00
0.520	0.520	0.510	0.540	0.510	0.520	0.33	-0.17	0.17	±1.00
0.720	0.710	0.700	0.720	0.700	0.700	0.00	-0.12	0.00	±1.00
0.940	0.930	0.920	0.930	0.920	0.920	-0.09	-0.09	0.00	±1.00
1.27	1.26	1.24	1.28	1.27	1.24	0.07	0.07	0.00	±1.00
1.74	1.73	1.70	1.74	1.73	1.69	0.00	0.00	-0.05	±1.00
2.32	2.31	2.26	2.32	2.30	2.27	0.00	-0.04	0.04	±0.20
3.10	3.08	3.01	3.10	3.07	3.03	0.00	-0.03	0.06	±0.20
4.20	4.18	4.08	4.21	4.17	4.10	0.02	-0.02	0.04	±0.20
5.68	5.66	5.52	5.68	5.67	5.53	0.00	0.02	0.02	±0.20
7.63	7.61	7.42	7.65	7.63	7.44	0.02	0.02	0.02	±0.20
10.2	10.2	9.89	10.2	10.2	9.92	0.00	0.00	0.03	±0.20
13.7	13.8	13.4	13.8	13.8	13.4	0.06	0.00	0.00	±0.20
18.5	18.5	18.0	18.6	18.6	18.0	0.05	0.05	0.00	±0.20
25.0	25.1	24.3	25.1	25.1	24.4	0.03	0.00	0.04	±0.20
33.3	33.5	32.5	33.5	33.7	32.7	0.05	0.05	0.05	±0.20
44.9	45.3	43.9	45.2	45.5	44.1	0.06	0.04	0.04	±0.20
60.9	61.5	59.6	61.3	61.7	59.9	0.06	0.03	0.04	±0.20
83.7	84.4	81.9	83.3	84.1	81.5	-0.04	-0.03	-0.04	±0.20
109	111	107	109	110	107	0.00	-0.08	0.00	±0.20
150	152	148	150	152	147	0.00	0.00	-0.06	±0.20
208	211	205	208	210	204	0.00	-0.04	-0.04	±0.20
289	292	284	290	287	285	0.03	-0.15	0.03	±0.20
426	432	420	418	426	413	-0.16	-0.12	-0.15	±0.20
588	597	581	582	593	574	-0.09	-0.06	-0.11	±0.20
880	892	870	879	897	869	-0.01	0.05	-0.01	±0.20
1330	1350	1320	1350	1380	1340	0.13	0.19	0.13	±0.30
1820	1840	1800	1860	1900	1840	0.19	0.28	0.19	±0.30
2970	3000	2940	3070	3120	3030	0.29	0.34	0.26	±0.50
3530	3560	3480	3660	3710	3620	0.31	0.36	0.34	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±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	
0.390	0.380	0.390	0.380	0.400	0.390	-0.23	0.45	0.00	±1.00
0.530	0.520	0.530	0.520	0.530	0.530	-0.17	0.17	0.00	±1.00
0.730	0.720	0.730	0.710	0.710	0.730	-0.24	-0.12	0.00	±1.00
0.950	0.940	0.950	0.940	0.930	0.950	-0.09	-0.09	0.00	±1.00
1.28	1.27	1.28	1.28	1.27	1.29	0.00	0.00	0.07	±1.00
1.76	1.75	1.76	1.75	1.76	1.75	-0.05	0.05	-0.05	±1.00
2.34	2.33	2.34	2.33	2.35	2.33	-0.04	0.07	-0.04	±0.20
3.12	3.11	3.12	3.13	3.13	3.11	0.03	0.06	-0.03	±0.20
4.24	4.22	4.23	4.25	4.25	4.22	0.02	0.06	-0.02	±0.20
5.73	5.71	5.71	5.74	5.74	5.73	0.02	0.05	0.03	±0.20
7.70	7.68	7.68	7.72	7.71	7.74	0.02	0.03	0.07	±0.20
10.3	10.2	10.2	10.3	10.3	10.3	0.00	0.08	0.08	±0.20
13.9	13.9	13.8	13.9	13.9	13.9	0.00	0.00	0.06	±0.20
18.7	18.7	18.6	18.7	18.8	18.7	0.00	0.05	0.05	±0.20
25.2	25.3	25.2	25.2	25.3	25.3	0.00	0.00	0.03	±0.20
33.6	33.8	33.6	33.8	34.0	33.8	0.05	0.05	0.05	±0.20
45.3	45.6	45.4	45.5	45.9	45.7	0.04	0.06	0.06	±0.20
61.5	62.0	61.6	61.8	62.3	62.0	0.04	0.04	0.06	±0.20
84.5	85.1	84.7	84.1	84.8	84.4	-0.04	-0.03	-0.03	±0.20
110	111	111	110	111	110	0.00	0.00	-0.08	±0.20
152	153	153	151	153	152	-0.06	0.00	-0.06	±0.20
210	213	212	210	212	211	0.00	-0.04	-0.04	±0.20
291	295	294	293	290	295	0.06	-0.15	0.03	±0.20
429	436	435	422	430	427	-0.14	-0.12	-0.16	±0.20
593	601	601	587	597	594	-0.09	-0.06	-0.10	±0.20
887	899	900	887	903	900	0.00	0.04	0.00	±0.20
1350	1360	1370	1360	1390	1380	0.06	0.19	0.06	±0.30
1840	1860	1870	1880	1910	1910	0.19	0.23	0.18	±0.30
3000	3030	3040	3100	3140	3140	0.28	0.31	0.28	±0.50
3560	3590	3610	3700	3740	3750	0.34	0.36	0.33	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±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

¹Calibration 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	
0.390	0.380	0.380	0.400	0.400	0.400	0.22	0.45	0.45	±1.00
0.530	0.520	0.520	0.540	0.520	0.530	0.16	0.00	0.17	±1.00
0.740	0.720	0.710	0.730	0.710	0.720	-0.12	-0.12	0.12	±1.00
0.960	0.940	0.930	0.940	0.940	0.940	-0.18	0.00	0.09	±1.00
1.30	1.27	1.26	1.28	1.29	1.26	-0.13	0.14	0.00	±1.00
1.78	1.74	1.72	1.78	1.77	1.72	0.00	0.15	0.00	±1.00
2.37	2.32	2.30	2.35	2.34	2.30	-0.07	0.07	0.00	±0.20
3.17	3.10	3.06	3.16	3.11	3.06	-0.03	0.03	0.00	±0.20
4.30	4.21	4.15	4.28	4.23	4.15	-0.04	0.04	0.00	±0.20
5.81	5.69	5.60	5.79	5.72	5.63	-0.03	0.05	0.05	±0.20
7.80	7.65	7.53	7.78	7.68	7.55	-0.02	0.03	0.02	±0.20
10.4	10.2	10.0	10.4	10.3	10.1	0.00	0.08	0.09	±0.20
14.1	13.8	13.6	14.1	13.9	13.6	0.00	0.06	0.00	±0.20
18.9	18.6	18.3	18.9	18.7	18.3	0.00	0.05	0.00	±0.20
25.5	25.2	24.7	25.6	25.3	24.8	0.03	0.03	0.04	±0.20
34.1	33.7	33.0	34.3	33.9	33.2	0.05	0.05	0.05	±0.20
46.0	45.5	44.5	46.2	45.8	44.8	0.04	0.06	0.06	±0.20
62.3	61.8	60.5	62.7	62.1	60.8	0.06	0.04	0.04	±0.20
85.6	84.9	83.1	85.3	84.5	82.8	-0.03	-0.04	-0.03	±0.20
112	111	109	112	111	108	0.00	0.00	-0.08	±0.20
154	153	150	153	152	149	-0.06	-0.06	-0.06	±0.20
213	212	208	213	212	207	0.00	0.00	-0.04	±0.20
295	294	288	297	289	290	0.06	-0.15	0.06	±0.20
435	434	427	428	428	419	-0.14	-0.12	-0.16	±0.20
601	600	590	595	596	583	-0.09	-0.06	-0.10	±0.20
900	896	883	899	900	882	-0.01	0.04	-0.01	±0.20
1360	1360	1340	1380	1380	1360	0.13	0.13	0.13	±0.30
1860	1850	1830	1910	1910	1870	0.23	0.28	0.19	±0.30
3040	3020	2980	3140	3130	3080	0.28	0.31	0.29	±0.50
3610	3570	3540	3750	3730	3670	0.33	0.38	0.31	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0 A/m
- ±0.2dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5dB for applied H-fields ≥ 3000 A/m

¹Calibration 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	
0.390	0.380	0.370	0.400	0.400	0.390	0.22	0.45	0.46	±1.00
0.530	0.510	0.500	0.540	0.530	0.520	0.16	0.33	0.34	±1.00
0.730	0.710	0.690	0.740	0.690	0.700	0.12	-0.25	0.12	±1.00
0.950	0.930	0.900	0.950	0.920	0.890	0.00	-0.09	-0.10	±1.00
1.28	1.25	1.21	1.26	1.26	1.20	-0.14	0.07	-0.07	±1.00
1.76	1.72	1.66	1.74	1.72	1.66	-0.10	0.00	0.00	±1.00
2.34	2.30	2.22	2.34	2.30	2.22	0.00	0.00	0.00	±0.20
3.12	3.07	2.95	3.12	3.07	2.94	0.00	0.00	-0.03	±0.20
4.23	4.16	4.00	4.25	4.17	4.00	0.04	0.02	0.00	±0.20
5.73	5.63	5.41	5.73	5.64	5.42	0.00	0.02	0.02	±0.20
7.69	7.57	7.27	7.70	7.59	7.27	0.01	0.02	0.00	±0.20
10.3	10.1	9.69	10.2	10.1	9.71	-0.08	0.00	0.02	±0.20
13.8	13.7	13.1	13.9	13.7	13.1	0.06	0.00	0.00	±0.20
18.7	18.4	17.6	18.7	18.5	17.6	0.00	0.05	0.00	±0.20
25.2	24.9	23.8	25.2	24.9	23.8	0.00	0.00	0.00	±0.20
33.6	33.3	31.8	33.8	33.5	32.0	0.05	0.05	0.05	±0.20
45.3	45.0	43.0	45.5	45.2	43.2	0.04	0.04	0.04	±0.20
61.4	61.1	58.4	61.8	61.4	58.7	0.06	0.04	0.04	±0.20
84.4	84.0	80.2	84.0	83.7	79.9	-0.04	-0.03	-0.03	±0.20
110	110	105	110	110	105	0.00	0.00	0.00	±0.20
151	151	145	151	151	144	0.00	0.00	-0.06	±0.20
210	210	201	210	210	200	0.00	0.00	-0.04	±0.20
291	291	278	292	286	279	0.03	-0.15	0.03	±0.20
429	430	412	422	424	404	-0.14	-0.12	-0.17	±0.20
593	593	569	586	590	563	-0.10	-0.04	-0.09	±0.20
887	887	852	885	892	851	-0.02	0.05	-0.01	±0.20
1340	1350	1290	1360	1370	1310	0.13	0.13	0.13	±0.30
1840	1830	1770	1880	1890	1810	0.19	0.28	0.19	±0.30
3000	2990	2880	3100	3110	2980	0.28	0.34	0.30	±0.40
3550	3540	3410	3690	3700	3550	0.34	0.38	0.35	±0.50

SPEAG H-field linearity tolerance criteria¹:

- ±1.0dB for applied H-fields < 2.0 A/m
- ±0.2dB for applied H-fields ≥ 2.0 A/m and < 1000 A/m
- ±0.3dB for applied H-fields ≥ 1000 A/m and < 2000 A/m
- ±0.4dB for applied H-fields ≥ 2000 A/m and < 3000 A/m
- ±0.5dB 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
0.350	0.210	0.070	0.360	0.210	0.080	0.24	0.00	1.16	±5.00	±5.00	±5.00
0.470	0.290	0.100	0.470	0.280	0.120	0.00	-0.30	1.58	±5.00	±5.00	±5.00
0.650	0.400	0.140	0.650	0.390	0.130	0.00	-0.22	-0.64	±5.00	±5.00	±5.00
0.840	0.520	0.180	0.840	0.530	0.200	0.00	0.17	0.92	±5.00	±5.00	±5.00
1.14	0.700	0.240	1.16	0.710	0.220	0.15	0.12	-0.76	±5.00	±5.00	±5.00
1.57	0.970	0.340	1.59	0.960	0.350	0.11	-0.09	0.25	±5.00	±5.00	±5.00
2.09	1.29	0.450	2.11	1.28	0.400	0.08	-0.07	-1.02	±1.00	±5.00	±5.00
2.80	1.72	0.600	2.81	1.72	0.560	0.03	0.00	-0.60	±1.00	±5.00	±5.00
3.79	2.34	0.810	3.82	2.32	0.770	0.07	-0.07	-0.44	±1.00	±1.00	±5.00
5.13	3.16	1.09	5.16	3.14	1.06	0.05	-0.06	-0.24	±1.00	±1.00	±5.00
6.90	4.25	1.47	6.96	4.25	1.41	0.08	0.00	-0.36	±1.00	±1.00	±5.00
9.22	5.67	1.96	9.29	5.66	1.88	0.07	-0.02	-0.36	±1.00	±1.00	±5.00
12.5	7.67	2.64	12.6	7.67	2.54	0.07	0.00	-0.34	±1.00	±1.00	±1.00
16.8	10.3	3.56	16.9	10.3	3.47	0.05	0.00	-0.22	±1.00	±1.00	±1.00
22.7	14.0	4.80	22.9	13.9	4.66	0.08	-0.06	-0.26	±1.00	±1.00	±1.00
30.4	18.7	6.41	30.6	18.7	6.26	0.06	0.00	-0.21	±1.00	±1.00	±1.00
41.0	25.3	8.64	41.3	25.2	8.44	0.06	-0.03	-0.20	±1.00	±1.00	±1.00
55.7	34.3	11.7	56.1	34.2	11.4	0.06	-0.03	-0.23	±1.00	±1.00	±1.00
76.5	47.1	16.1	76.5	46.7	15.6	0.00	-0.07	-0.27	±1.00	±1.00	±1.00
100	61.7	21.1	100	61.2	20.4	0.00	-0.07	-0.29	±1.00	±1.00	±1.00
138	84.9	28.9	138	84.2	28.0	0.00	-0.07	-0.27	±1.00	±1.00	±1.00
191	118	40.0	191	117	38.9	0.00	-0.07	-0.24	±1.00	±1.00	±1.00
265	163	55.5	267	163	54.2	0.07	0.00	-0.21	±1.00	±1.00	±1.00
392	241	81.9	377	231	80.5	-0.34	-0.37	-0.15	±1.00	±1.00	±1.00
541	333	113	525	321	112	-0.26	-0.32	-0.08	±1.00	±1.00	±1.00
808	498	169	794	485	169	-0.15	-0.23	0.00	±1.00	±1.00	±1.00
1230	755	257	1220	746	260	-0.07	-0.10	0.10	±1.00	±1.00	±1.00
1670	1030	350	1680	1030	360	0.05	0.00	0.24	±1.00	±1.00	±1.00
2720	1680	572	2770	1690	565	0.16	0.05	-0.11	±1.00	±1.00	±1.00
3220	1980	678	3300	2010	674	0.21	0.13	-0.05	±1.00	±1.00	±1.00

SPEAG E-field linearity tolerance criteria¹:

±5.0dB for applied E-field < 2V/m

±1.0dB for applied E-field ≥ 2V/m

¹Calibration 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	1.53	1.52	1.53	1.51	1.52	1.52	-0.11	0.00	-0.06	±0.3
3200	1.52	1.52	1.52	1.53	1.52	1.51	0.06	0.00	-0.06	±0.3
4000	1.52	1.52	1.52	1.52	1.52	1.52	0.00	0.00	0.00	±0.3
5200	1.51	1.51	1.51	1.51	1.51	1.53	0.00	0.00	0.11	±0.3
6600	1.51	1.51	1.51	1.51	1.50	1.51	0.00	-0.06	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	1.49	1.49	1.49	1.49	1.50	1.49	0.00	0.06	0.00	±0.3
10600	4.33	4.26	4.26	4.28	4.28	4.28	-0.10	0.04	0.04	±0.3
13400	4.37	4.29	4.29	4.35	4.28	4.30	-0.04	-0.02	0.02	±0.3
17000	4.37	4.32	4.32	4.35	4.32	4.33	-0.04	0.00	0.02	±0.3
21400	4.40	4.33	4.33	4.41	4.34	4.33	0.02	0.02	0.00	±0.3
27200	4.39	4.35	4.34	4.38	4.35	4.36	-0.02	0.00	0.04	±0.3
34400	4.40	4.36	4.36	4.39	4.37	4.37	-0.02	0.02	0.02	±0.3
40000	4.39	4.36	4.36	4.38	4.35	4.36	-0.02	-0.02	0.00	±0.3
43600	4.38	4.35	4.36	4.38	4.35	4.36	0.00	0.00	0.00	±0.3
55400	4.37	4.34	4.34	4.37	4.34	4.34	0.00	0.00	0.00	±0.3
70000	4.36	4.33	4.33	4.36	4.32	4.34	0.00	-0.02	0.02	±0.3
88800	4.35	4.32	4.32	4.35	4.31	4.32	0.00	-0.02	0.00	±0.3
112400	4.33	4.31	4.31	4.33	4.30	4.31	0.00	-0.02	0.00	±0.3
142400	4.32	4.29	4.29	4.31	4.30	4.29	-0.02	0.02	0.00	±0.3
161750	4.30	4.27	4.27	4.29	4.26	4.27	-0.02	-0.02	0.00	±0.3
180400	4.28	4.26	4.26	4.28	4.27	4.26	0.00	0.02	0.00	±0.3
228400	4.25	4.22	4.22	4.25	4.22	4.23	0.00	0.00	0.02	±0.3
289400	4.21	4.19	4.19	4.21	4.20	4.19	0.00	0.02	0.00	±0.3
366400	4.16	4.14	4.14	4.16	4.15	4.14	0.00	0.02	0.00	±0.3
400000	4.14	4.13	4.13	4.14	4.13	4.13	0.00	0.00	0.00	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.11	0.00	0.00	0.02	±0.3
587800	4.06	4.05	4.05	4.07	4.05	4.05	0.02	0.00	0.00	±0.3
744200	4.01	4.00	4.00	4.02	4.00	4.01	0.02	0.00	0.02	±0.3
942600	4.00	3.99	3.99	4.00	4.00	3.99	0.00	0.02	0.00	±0.3
1193600	3.97	3.96	3.96	3.97	3.96	3.96	0.00	0.00	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.96	3.95	0.00	0.00	0.00	±0.3
1914400	3.94	3.94	3.93	3.95	3.94	3.94	0.02	0.00	0.02	±0.3
2424400	3.92	3.92	3.91	3.93	3.92	3.92	0.02	0.00	0.02	±0.3
3070200	3.89	3.89	3.88	3.89	3.89	3.88	0.00	0.00	0.00	±0.3
3888000	3.83	3.83	3.82	3.83	3.83	3.82	0.00	0.00	0.00	±0.3
4000000	3.82	3.82	3.81	3.83	3.82	3.81	0.02	0.00	0.00	±0.3
4923800	3.75	3.75	3.74	3.75	3.75	3.74	0.00	0.00	0.00	±0.3
6235400	3.64	3.64	3.63	3.64	3.64	3.63	0.00	0.00	0.00	±0.3
7896400	3.50	3.51	3.49	3.51	3.50	3.49	0.02	-0.02	0.00	±0.3
10000000	3.34	3.34	3.33	3.35	3.34	3.33	0.03	0.00	0.00	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

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

Frequency Response, H-field, Channel 1

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	1.53	1.52	1.53	1.52	1.52	1.53	-0.06	0.00	0.00	±0.3
3200	1.52	1.52	1.52	1.54	1.52	1.51	0.11	0.00	-0.06	±0.3
4000	1.52	1.52	1.52	1.52	1.52	1.52	0.00	0.00	0.00	±0.3
5200	1.51	1.51	1.51	1.52	1.51	1.52	0.06	0.00	0.06	±0.3
6600	1.51	1.51	1.51	1.51	1.50	1.51	0.00	-0.06	0.00	±0.3
8200	1.50	1.50	1.50	1.50	1.50	1.51	0.00	0.00	0.06	±0.3
9000	1.49	1.49	1.49	1.49	1.49	1.50	0.00	0.00	0.06	±0.3
10600	4.33	4.26	4.26	4.34	4.25	4.26	0.02	-0.02	0.00	±0.3
13400	4.37	4.29	4.29	4.37	4.29	4.30	0.00	0.00	0.02	±0.3
17000	4.37	4.32	4.32	4.37	4.32	4.32	0.00	0.00	0.00	±0.3
21400	4.40	4.33	4.33	4.41	4.32	4.35	0.02	-0.02	0.04	±0.3
27200	4.39	4.35	4.34	4.38	4.36	4.36	-0.02	0.02	0.04	±0.3
34400	4.40	4.36	4.36	4.38	4.36	4.37	-0.04	0.00	0.02	±0.3
40000	4.39	4.36	4.36	4.38	4.37	4.36	-0.02	0.02	0.00	±0.3
43600	4.38	4.35	4.36	4.37	4.37	4.35	-0.02	0.04	-0.02	±0.3
55400	4.37	4.34	4.34	4.37	4.34	4.35	0.00	0.00	0.02	±0.3
70000	4.36	4.33	4.33	4.36	4.33	4.34	0.00	0.00	0.02	±0.3
88800	4.35	4.32	4.32	4.35	4.32	4.32	0.00	0.00	0.00	±0.3
112400	4.33	4.31	4.31	4.33	4.31	4.31	0.00	0.00	0.00	±0.3
142400	4.32	4.29	4.29	4.31	4.29	4.29	-0.02	0.00	0.00	±0.3
161750	4.30	4.27	4.27	4.29	4.30	4.28	-0.02	0.06	0.02	±0.3
180400	4.28	4.26	4.26	4.28	4.26	4.26	0.00	0.00	0.00	±0.3
228400	4.25	4.22	4.22	4.25	4.22	4.23	0.00	0.00	0.02	±0.3
289400	4.21	4.19	4.19	4.21	4.19	4.19	0.00	0.00	0.00	±0.3
366400	4.16	4.14	4.14	4.16	4.14	4.14	0.00	0.00	0.00	±0.3
400000	4.14	4.13	4.13	4.15	4.13	4.13	0.02	0.00	0.00	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.11	0.00	0.00	0.02	±0.3
587800	4.06	4.05	4.05	4.06	4.05	4.05	0.00	0.00	0.00	±0.3
744200	4.01	4.00	4.00	4.02	4.01	4.01	0.02	0.02	0.02	±0.3
942600	4.00	3.99	3.99	4.00	3.99	4.00	0.00	0.00	0.02	±0.3
1193600	3.97	3.96	3.96	3.97	3.96	3.96	0.00	0.00	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.95	3.95	0.00	-0.02	0.00	±0.3
1914400	3.94	3.94	3.93	3.95	3.95	3.94	0.02	0.02	0.02	±0.3
2424400	3.92	3.92	3.91	3.93	3.92	3.92	0.02	0.00	0.02	±0.3
3070200	3.89	3.89	3.88	3.90	3.88	3.88	0.02	-0.02	0.00	±0.3
3888000	3.83	3.83	3.82	3.83	3.83	3.83	0.00	0.00	0.02	±0.3
4000000	3.82	3.82	3.81	3.82	3.82	3.81	0.00	0.00	0.00	±0.3
4923800	3.75	3.75	3.74	3.75	3.75	3.74	0.00	0.00	0.00	±0.3
6235400	3.64	3.64	3.63	3.64	3.64	3.63	0.00	0.00	0.00	±0.3
7896400	3.50	3.51	3.49	3.50	3.50	3.49	0.00	-0.02	0.00	±0.3
10000000	3.34	3.34	3.33	3.34	3.33	3.33	0.00	-0.03	0.00	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹Calibration 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	1.53	1.52	1.53	1.52	1.52	1.53	-0.06	0.00	0.00	±0.3
3200	1.52	1.52	1.52	1.54	1.52	1.51	0.11	0.00	-0.06	±0.3
4000	1.52	1.52	1.52	1.51	1.52	1.51	-0.06	0.00	-0.06	±0.3
5200	1.51	1.51	1.51	1.52	1.50	1.53	0.06	-0.06	0.11	±0.3
6600	1.51	1.51	1.51	1.51	1.50	1.50	0.00	-0.06	-0.06	±0.3
8200	1.50	1.50	1.50	1.50	1.51	1.51	0.00	0.06	0.06	±0.3
9000	1.49	1.49	1.49	1.49	1.49	1.49	0.00	0.00	0.00	±0.3
10600	4.33	4.26	4.26	4.32	4.28	4.25	-0.02	0.04	-0.02	±0.3
13400	4.37	4.29	4.29	4.37	4.28	4.29	0.00	-0.02	0.00	±0.3
17000	4.37	4.32	4.32	4.36	4.32	4.32	-0.02	0.00	0.00	±0.3
21400	4.40	4.33	4.33	4.41	4.35	4.33	0.02	0.04	0.00	±0.3
27200	4.39	4.35	4.34	4.37	4.36	4.36	-0.04	0.02	0.04	±0.3
34400	4.40	4.36	4.36	4.39	4.37	4.37	-0.02	0.02	0.02	±0.3
40000	4.39	4.36	4.36	4.37	4.37	4.36	-0.04	0.02	0.00	±0.3
43600	4.38	4.35	4.36	4.38	4.36	4.35	0.00	0.02	-0.02	±0.3
55400	4.37	4.34	4.34	4.37	4.34	4.34	0.00	0.00	0.00	±0.3
70000	4.36	4.33	4.33	4.36	4.34	4.33	0.00	0.02	0.00	±0.3
88800	4.35	4.32	4.32	4.35	4.32	4.33	0.00	0.00	0.02	±0.3
112400	4.33	4.31	4.31	4.33	4.32	4.31	0.00	0.02	0.00	±0.3
142400	4.32	4.29	4.29	4.32	4.29	4.29	0.00	0.00	0.00	±0.3
161750	4.30	4.27	4.27	4.29	4.30	4.27	-0.02	0.06	0.00	±0.3
180400	4.28	4.26	4.26	4.28	4.26	4.27	0.00	0.00	0.02	±0.3
228400	4.25	4.22	4.22	4.25	4.22	4.22	0.00	0.00	0.00	±0.3
289400	4.21	4.19	4.19	4.21	4.20	4.19	0.00	0.02	0.00	±0.3
366400	4.16	4.14	4.14	4.16	4.15	4.14	0.00	0.02	0.00	±0.3
400000	4.14	4.13	4.13	4.14	4.13	4.13	0.00	0.00	0.00	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.11	0.00	0.00	0.02	±0.3
587800	4.06	4.05	4.05	4.07	4.05	4.05	0.02	0.00	0.00	±0.3
744200	4.01	4.00	4.00	4.02	4.01	4.01	0.02	0.02	0.02	±0.3
942600	4.00	3.99	3.99	4.00	4.00	4.00	0.00	0.02	0.02	±0.3
1193600	3.97	3.96	3.96	3.97	3.96	3.96	0.00	0.00	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.95	3.95	0.00	-0.02	0.00	±0.3
1914400	3.94	3.94	3.93	3.95	3.94	3.94	0.02	0.00	0.02	±0.3
2424400	3.92	3.92	3.91	3.93	3.92	3.92	0.02	0.00	0.02	±0.3
3070200	3.89	3.89	3.88	3.89	3.89	3.87	0.00	0.00	-0.02	±0.3
3888000	3.83	3.83	3.82	3.83	3.83	3.82	0.00	0.00	0.00	±0.3
4000000	3.82	3.82	3.81	3.82	3.82	3.81	0.00	0.00	0.00	±0.3
4923800	3.75	3.75	3.74	3.75	3.75	3.74	0.00	0.00	0.00	±0.3
6235400	3.64	3.64	3.63	3.64	3.64	3.62	0.00	0.00	-0.02	±0.3
7896400	3.50	3.51	3.49	3.50	3.50	3.49	0.00	-0.02	0.00	±0.3
10000000	3.34	3.34	3.33	3.34	3.33	3.33	0.00	-0.03	0.00	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹Calibration 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	1.53	1.52	1.53	1.50	1.52	1.53	-0.17	0.00	0.00	±0.3
3200	1.52	1.52	1.52	1.54	1.51	1.51	0.11	-0.06	-0.06	±0.3
4000	1.52	1.52	1.52	1.52	1.51	1.52	0.00	-0.06	0.00	±0.3
5200	1.51	1.51	1.51	1.51	1.50	1.53	0.00	-0.06	0.11	±0.3
6600	1.51	1.51	1.51	1.51	1.50	1.50	0.00	-0.06	-0.06	±0.3
8200	1.50	1.50	1.50	1.50	1.50	1.51	0.00	0.00	0.06	±0.3
9000	1.49	1.49	1.49	1.49	1.49	1.50	0.00	0.00	0.06	±0.3
10600	4.33	4.26	4.26	4.31	4.25	4.26	-0.04	-0.02	0.00	±0.3
13400	4.37	4.29	4.29	4.37	4.27	4.29	0.00	-0.04	0.00	±0.3
17000	4.37	4.32	4.32	4.36	4.31	4.32	-0.02	-0.02	0.00	±0.3
21400	4.40	4.33	4.33	4.40	4.33	4.33	0.00	0.00	0.00	±0.3
27200	4.39	4.35	4.34	4.38	4.34	4.36	-0.02	-0.02	0.04	±0.3
34400	4.40	4.36	4.36	4.39	4.37	4.37	-0.02	0.02	0.02	±0.3
40000	4.39	4.36	4.36	4.38	4.35	4.37	-0.02	-0.02	0.02	±0.3
43600	4.38	4.35	4.36	4.36	4.35	4.35	-0.04	0.00	-0.02	±0.3
55400	4.37	4.34	4.34	4.36	4.34	4.34	-0.02	0.00	0.00	±0.3
70000	4.36	4.33	4.33	4.36	4.35	4.33	0.00	0.04	0.00	±0.3
88800	4.35	4.32	4.32	4.34	4.32	4.32	-0.02	0.00	0.00	±0.3
112400	4.33	4.31	4.31	4.33	4.32	4.31	0.00	0.02	0.00	±0.3
142400	4.32	4.29	4.29	4.31	4.28	4.29	-0.02	-0.02	0.00	±0.3
161750	4.30	4.27	4.27	4.29	4.27	4.27	-0.02	0.00	0.00	±0.3
180400	4.28	4.26	4.26	4.28	4.26	4.26	0.00	0.00	0.00	±0.3
228400	4.25	4.22	4.22	4.25	4.22	4.23	0.00	0.00	0.02	±0.3
289400	4.21	4.19	4.19	4.21	4.19	4.19	0.00	0.00	0.00	±0.3
366400	4.16	4.14	4.14	4.16	4.15	4.14	0.00	0.02	0.00	±0.3
400000	4.14	4.13	4.13	4.15	4.13	4.13	0.02	0.00	0.00	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.11	0.00	0.00	0.02	±0.3
587800	4.06	4.05	4.05	4.06	4.05	4.05	0.00	0.00	0.00	±0.3
744200	4.01	4.00	4.00	4.02	4.00	4.00	0.02	0.00	0.00	±0.3
942600	4.00	3.99	3.99	4.01	3.99	4.00	0.02	0.00	0.02	±0.3
1193600	3.97	3.96	3.96	3.98	3.96	3.96	0.02	0.00	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.95	3.95	0.00	-0.02	0.00	±0.3
1914400	3.94	3.94	3.93	3.94	3.94	3.94	0.00	0.00	0.02	±0.3
2424400	3.92	3.92	3.91	3.93	3.92	3.92	0.02	0.00	0.02	±0.3
3070200	3.89	3.89	3.88	3.90	3.88	3.88	0.02	-0.02	0.00	±0.3
3888000	3.83	3.83	3.82	3.83	3.83	3.82	0.00	0.00	0.00	±0.3
4000000	3.82	3.82	3.81	3.82	3.82	3.81	0.00	0.00	0.00	±0.3
4923800	3.75	3.75	3.74	3.75	3.75	3.74	0.00	0.00	0.00	±0.3
6235400	3.64	3.64	3.63	3.64	3.64	3.63	0.00	0.00	0.00	±0.3
7896400	3.50	3.51	3.49	3.51	3.51	3.50	0.02	0.00	0.02	±0.3
10000000	3.34	3.34	3.33	3.34	3.34	3.32	0.00	0.00	-0.03	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹Calibration 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	1.53	1.52	1.53	1.55	1.53	1.53	0.11	0.06	0.00	±0.3
3200	1.52	1.52	1.52	1.53	1.52	1.51	0.06	0.00	-0.06	±0.3
4000	1.52	1.52	1.52	1.52	1.52	1.52	0.00	0.00	0.00	±0.3
5200	1.51	1.51	1.51	1.51	1.51	1.52	0.00	0.00	0.06	±0.3
6600	1.51	1.51	1.51	1.51	1.51	1.50	0.00	0.00	-0.06	±0.3
8200	1.50	1.50	1.50	1.50	1.50	1.51	0.00	0.00	0.06	±0.3
9000	1.49	1.49	1.49	1.49	1.49	1.49	0.00	0.00	0.00	±0.3
10600	4.33	4.26	4.26	4.29	4.26	4.27	-0.08	0.00	0.02	±0.3
13400	4.37	4.29	4.29	4.34	4.30	4.29	-0.06	0.02	0.00	±0.3
17000	4.37	4.32	4.32	4.37	4.31	4.32	0.00	-0.02	0.00	±0.3
21400	4.40	4.33	4.33	4.41	4.33	4.35	0.02	0.00	0.04	±0.3
27200	4.39	4.35	4.34	4.38	4.37	4.36	-0.02	0.04	0.04	±0.3
34400	4.40	4.36	4.36	4.39	4.34	4.37	-0.02	-0.04	0.02	±0.3
40000	4.39	4.36	4.36	4.39	4.35	4.35	0.00	-0.02	-0.02	±0.3
43600	4.38	4.35	4.36	4.41	4.33	4.35	0.06	-0.04	-0.02	±0.3
55400	4.37	4.34	4.34	4.37	4.34	4.34	0.00	0.00	0.00	±0.3
70000	4.36	4.33	4.33	4.37	4.34	4.33	0.02	0.02	0.00	±0.3
88800	4.35	4.32	4.32	4.35	4.32	4.32	0.00	0.00	0.00	±0.3
112400	4.33	4.31	4.31	4.34	4.29	4.31	0.02	-0.04	0.00	±0.3
142400	4.32	4.29	4.29	4.32	4.32	4.29	0.00	0.06	0.00	±0.3
161750	4.30	4.27	4.27	4.30	4.27	4.28	0.00	0.00	0.02	±0.3
180400	4.28	4.26	4.26	4.29	4.26	4.26	0.02	0.00	0.00	±0.3
228400	4.25	4.22	4.22	4.25	4.23	4.22	0.00	0.02	0.00	±0.3
289400	4.21	4.19	4.19	4.21	4.19	4.19	0.00	0.00	0.00	±0.3
366400	4.16	4.14	4.14	4.16	4.15	4.14	0.00	0.02	0.00	±0.3
400000	4.14	4.13	4.13	4.14	4.13	4.13	0.00	0.00	0.00	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.10	0.00	0.00	0.00	±0.3
587800	4.06	4.05	4.05	4.06	4.05	4.05	0.00	0.00	0.00	±0.3
744200	4.01	4.00	4.00	4.01	4.00	4.00	0.00	0.00	0.00	±0.3
942600	4.00	3.99	3.99	4.00	4.00	4.00	0.00	0.02	0.02	±0.3
1193600	3.97	3.96	3.96	3.97	3.96	3.96	0.00	0.00	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.96	3.95	0.00	0.00	0.00	±0.3
1914400	3.94	3.94	3.93	3.95	3.94	3.94	0.02	0.00	0.02	±0.3
2424400	3.92	3.92	3.91	3.93	3.92	3.92	0.02	0.00	0.02	±0.3
3070200	3.89	3.89	3.88	3.90	3.89	3.87	0.02	0.00	-0.02	±0.3
3888000	3.83	3.83	3.82	3.84	3.83	3.82	0.02	0.00	0.00	±0.3
4000000	3.82	3.82	3.81	3.83	3.82	3.81	0.02	0.00	0.00	±0.3
4923800	3.75	3.75	3.74	3.75	3.75	3.74	0.00	0.00	0.00	±0.3
6235400	3.64	3.64	3.63	3.64	3.64	3.63	0.00	0.00	0.00	±0.3
7896400	3.50	3.51	3.49	3.50	3.50	3.50	0.00	-0.02	0.02	±0.3
10000000	3.34	3.34	3.33	3.33	3.34	3.32	-0.03	0.00	-0.03	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹Calibration 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	1.53	1.52	1.53	1.51	1.53	1.52	-0.11	0.06	-0.06	±0.3
3200	1.52	1.52	1.52	1.54	1.52	1.51	0.11	0.00	-0.06	±0.3
4000	1.52	1.52	1.52	1.52	1.51	1.52	0.00	-0.06	0.00	±0.3
5200	1.51	1.51	1.51	1.51	1.51	1.52	0.00	0.00	0.06	±0.3
6600	1.51	1.51	1.51	1.51	1.51	1.50	0.00	0.00	-0.06	±0.3
8200	1.50	1.50	1.50	1.49	1.50	1.51	-0.06	0.00	0.06	±0.3
9000	1.49	1.49	1.49	1.49	1.50	1.49	0.00	0.06	0.00	±0.3
10600	4.33	4.26	4.26	4.31	4.26	4.26	-0.04	0.00	0.00	±0.3
13400	4.37	4.29	4.29	4.34	4.29	4.29	-0.06	0.00	0.00	±0.3
17000	4.37	4.32	4.32	4.37	4.32	4.32	0.00	0.00	0.00	±0.3
21400	4.40	4.33	4.33	4.39	4.34	4.33	-0.02	0.02	0.00	±0.3
27200	4.39	4.35	4.34	4.40	4.35	4.35	0.02	0.00	0.02	±0.3
34400	4.40	4.36	4.36	4.39	4.35	4.36	-0.02	-0.02	0.00	±0.3
40000	4.39	4.36	4.36	4.37	4.35	4.35	-0.04	-0.02	-0.02	±0.3
43600	4.38	4.35	4.36	4.39	4.34	4.35	0.02	-0.02	-0.02	±0.3
55400	4.37	4.34	4.34	4.37	4.35	4.34	0.00	0.02	0.00	±0.3
70000	4.36	4.33	4.33	4.36	4.32	4.33	0.00	-0.02	0.00	±0.3
88800	4.35	4.32	4.32	4.34	4.32	4.32	-0.02	0.00	0.00	±0.3
112400	4.33	4.31	4.31	4.33	4.30	4.31	0.00	-0.02	0.00	±0.3
142400	4.32	4.29	4.29	4.32	4.31	4.29	0.00	0.04	0.00	±0.3
161750	4.30	4.27	4.27	4.29	4.26	4.27	-0.02	-0.02	0.00	±0.3
180400	4.28	4.26	4.26	4.29	4.27	4.26	0.02	0.02	0.00	±0.3
228400	4.25	4.22	4.22	4.25	4.23	4.22	0.00	0.02	0.00	±0.3
289400	4.21	4.19	4.19	4.21	4.20	4.19	0.00	0.02	0.00	±0.3
366400	4.16	4.14	4.14	4.16	4.15	4.14	0.00	0.02	0.00	±0.3
400000	4.14	4.13	4.13	4.14	4.13	4.13	0.00	0.00	0.00	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.10	0.00	0.00	0.00	±0.3
587800	4.06	4.05	4.05	4.06	4.05	4.05	0.00	0.00	0.00	±0.3
744200	4.01	4.00	4.00	4.02	4.01	4.00	0.02	0.02	0.00	±0.3
942600	4.00	3.99	3.99	4.00	4.00	4.00	0.00	0.02	0.02	±0.3
1193600	3.97	3.96	3.96	3.97	3.97	3.96	0.00	0.02	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.96	3.96	0.00	0.00	0.02	±0.3
1914400	3.94	3.94	3.93	3.95	3.94	3.94	0.02	0.00	0.02	±0.3
2424400	3.92	3.92	3.91	3.93	3.92	3.92	0.02	0.00	0.02	±0.3
3070200	3.89	3.89	3.88	3.90	3.89	3.88	0.02	0.00	0.00	±0.3
3888000	3.83	3.83	3.82	3.83	3.83	3.82	0.00	0.00	0.00	±0.3
4000000	3.82	3.82	3.81	3.82	3.82	3.81	0.00	0.00	0.00	±0.3
4923800	3.75	3.75	3.74	3.75	3.75	3.74	0.00	0.00	0.00	±0.3
6235400	3.64	3.64	3.63	3.64	3.65	3.63	0.00	0.02	0.00	±0.3
7896400	3.50	3.51	3.49	3.50	3.50	3.50	0.00	-0.02	0.02	±0.3
10000000	3.34	3.34	3.33	3.35	3.34	3.32	0.03	0.00	-0.03	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹Calibration 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	1.53	1.52	1.53	1.49	1.52	1.53	-0.23	0.00	0.00	±0.3
3200	1.52	1.52	1.52	1.53	1.52	1.51	0.06	0.00	-0.06	±0.3
4000	1.52	1.52	1.52	1.52	1.51	1.52	0.00	-0.06	0.00	±0.3
5200	1.51	1.51	1.51	1.51	1.51	1.53	0.00	0.00	0.11	±0.3
6600	1.51	1.51	1.51	1.50	1.51	1.49	-0.06	0.00	-0.12	±0.3
8200	1.50	1.50	1.50	1.50	1.50	1.51	0.00	0.00	0.06	±0.3
9000	1.49	1.49	1.49	1.49	1.49	1.49	0.00	0.00	0.00	±0.3
10600	4.33	4.26	4.26	4.32	4.25	4.24	-0.02	-0.02	-0.04	±0.3
13400	4.37	4.29	4.29	4.36	4.27	4.31	-0.02	-0.04	0.04	±0.3
17000	4.37	4.32	4.32	4.36	4.31	4.32	-0.02	-0.02	0.00	±0.3
21400	4.40	4.33	4.33	4.38	4.33	4.34	-0.04	0.00	0.02	±0.3
27200	4.39	4.35	4.34	4.40	4.35	4.36	0.02	0.00	0.04	±0.3
34400	4.40	4.36	4.36	4.38	4.37	4.37	-0.04	0.02	0.02	±0.3
40000	4.39	4.36	4.36	4.36	4.39	4.36	-0.06	0.06	0.00	±0.3
43600	4.38	4.35	4.36	4.37	4.38	4.36	-0.02	0.06	0.00	±0.3
55400	4.37	4.34	4.34	4.36	4.32	4.34	-0.02	-0.04	0.00	±0.3
70000	4.36	4.33	4.33	4.34	4.33	4.34	-0.04	0.00	0.02	±0.3
88800	4.35	4.32	4.32	4.35	4.33	4.32	0.00	0.02	0.00	±0.3
112400	4.33	4.31	4.31	4.33	4.32	4.31	0.00	0.02	0.00	±0.3
142400	4.32	4.29	4.29	4.31	4.26	4.29	-0.02	-0.06	0.00	±0.3
161750	4.30	4.27	4.27	4.29	4.36	4.28	-0.02	0.18	0.02	±0.3
180400	4.28	4.26	4.26	4.28	4.27	4.27	0.00	0.02	0.02	±0.3
228400	4.25	4.22	4.22	4.25	4.23	4.22	0.00	0.02	0.00	±0.3
289400	4.21	4.19	4.19	4.21	4.18	4.19	0.00	-0.02	0.00	±0.3
366400	4.16	4.14	4.14	4.16	4.14	4.14	0.00	0.00	0.00	±0.3
400000	4.14	4.13	4.13	4.14	4.12	4.12	0.00	-0.02	-0.02	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.10	0.00	0.00	0.00	±0.3
587800	4.06	4.05	4.05	4.06	4.05	4.05	0.00	0.00	0.00	±0.3
744200	4.01	4.00	4.00	4.01	4.01	4.00	0.00	0.02	0.00	±0.3
942600	4.00	3.99	3.99	4.00	3.99	3.99	0.00	0.00	0.00	±0.3
1193600	3.97	3.96	3.96	3.97	3.96	3.97	0.00	0.00	0.02	±0.3
1511600	3.96	3.96	3.95	3.96	3.95	3.95	0.00	-0.02	0.00	±0.3
1914400	3.94	3.94	3.93	3.95	3.94	3.93	0.02	0.00	0.00	±0.3
2424400	3.92	3.92	3.91	3.93	3.92	3.92	0.02	0.00	0.02	±0.3
3070200	3.89	3.89	3.88	3.89	3.88	3.88	0.00	-0.02	0.00	±0.3
3888000	3.83	3.83	3.82	3.83	3.83	3.82	0.00	0.00	0.00	±0.3
4000000	3.82	3.82	3.81	3.82	3.82	3.81	0.00	0.00	0.00	±0.3
4923800	3.75	3.75	3.74	3.75	3.75	3.74	0.00	0.00	0.00	±0.3
6235400	3.64	3.64	3.63	3.64	3.64	3.63	0.00	0.00	0.00	±0.3
7896400	3.50	3.51	3.49	3.50	3.50	3.49	0.00	-0.02	0.00	±0.3
10000000	3.34	3.34	3.33	3.33	3.33	3.32	-0.03	-0.03	-0.03	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±0.3dB for applied H-fields at calibration points from 3kHz to 10MHz

¹Calibration 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	1.53	1.52	1.53	1.51	1.52	1.53	-0.11	0.00	0.00	±0.3
3200	1.52	1.52	1.52	1.54	1.52	1.52	0.11	0.00	0.00	±0.3
4000	1.52	1.52	1.52	1.52	1.51	1.52	0.00	-0.06	0.00	±0.3
5200	1.51	1.51	1.51	1.52	1.50	1.53	0.06	-0.06	0.11	±0.3
6600	1.51	1.51	1.51	1.51	1.50	1.51	0.00	-0.06	0.00	±0.3
8200	1.50	1.50	1.50	1.49	1.50	1.51	-0.06	0.00	0.06	±0.3
9000	1.49	1.49	1.49	1.49	1.49	1.49	0.00	0.00	0.00	±0.3
10600	4.33	4.26	4.26	4.33	4.26	4.24	0.00	0.00	-0.04	±0.3
13400	4.37	4.29	4.29	4.36	4.30	4.29	-0.02	0.02	0.00	±0.3
17000	4.37	4.32	4.32	4.36	4.32	4.33	-0.02	0.00	0.02	±0.3
21400	4.40	4.33	4.33	4.39	4.35	4.31	-0.02	0.04	-0.04	±0.3
27200	4.39	4.35	4.34	4.40	4.35	4.36	0.02	0.00	0.04	±0.3
34400	4.40	4.36	4.36	4.38	4.37	4.37	-0.04	0.02	0.02	±0.3
40000	4.39	4.36	4.36	4.37	4.36	4.36	-0.04	0.00	0.00	±0.3
43600	4.38	4.35	4.36	4.38	4.37	4.35	0.00	0.04	-0.02	±0.3
55400	4.37	4.34	4.34	4.36	4.34	4.34	-0.02	0.00	0.00	±0.3
70000	4.36	4.33	4.33	4.36	4.33	4.33	0.00	0.00	0.00	±0.3
88800	4.35	4.32	4.32	4.34	4.32	4.33	-0.02	0.00	0.02	±0.3
112400	4.33	4.31	4.31	4.33	4.32	4.32	0.00	0.02	0.02	±0.3
142400	4.32	4.29	4.29	4.31	4.29	4.29	-0.02	0.00	0.00	±0.3
161750	4.30	4.27	4.27	4.29	4.29	4.28	-0.02	0.04	0.02	±0.3
180400	4.28	4.26	4.26	4.28	4.26	4.26	0.00	0.00	0.00	±0.3
228400	4.25	4.22	4.22	4.25	4.23	4.23	0.00	0.02	0.02	±0.3
289400	4.21	4.19	4.19	4.21	4.20	4.19	0.00	0.02	0.00	±0.3
366400	4.16	4.14	4.14	4.17	4.15	4.14	0.02	0.02	0.00	±0.3
400000	4.14	4.13	4.13	4.14	4.13	4.12	0.00	0.00	-0.02	±0.3
464000	4.12	4.11	4.10	4.12	4.11	4.11	0.00	0.00	0.02	±0.3
587800	4.06	4.05	4.05	4.06	4.05	4.06	0.00	0.00	0.02	±0.3
744200	4.01	4.00	4.00	4.02	4.01	4.00	0.02	0.02	0.00	±0.3
942600	4.00	3.99	3.99	4.00	4.00	4.00	0.00	0.02	0.02	±0.3
1193600	3.97	3.96	3.96	3.98	3.96	3.96	0.02	0.00	0.00	±0.3
1511600	3.96	3.96	3.95	3.96	3.96	3.95	0.00	0.00	0.00	±0.3
1914400	3.94	3.94	3.93	3.95	3.94	3.95	0.02	0.00	0.04	±0.3
2424400	3.92	3.92	3.91	3.93	3.92	3.92	0.02	0.00	0.02	±0.3
3070200	3.89	3.89	3.88	3.89	3.88	3.87	0.00	-0.02	-0.02	±0.3
3888000	3.83	3.83	3.82	3.83	3.83	3.82	0.00	0.00	0.00	±0.3
4000000	3.82	3.82	3.81	3.82	3.82	3.81	0.00	0.00	0.00	±0.3
4923800	3.75	3.75	3.74	3.75	3.75	3.74	0.00	0.00	0.00	±0.3
6235400	3.64	3.64	3.63	3.64	3.64	3.64	0.00	0.00	0.02	±0.3
7896400	3.50	3.51	3.49	3.50	3.50	3.51	0.00	-0.02	0.05	±0.3
10000000	3.34	3.34	3.33	3.34	3.33	3.33	0.00	-0.03	0.00	±0.3

SPEAG H-field frequency response tolerance criteria¹:
±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

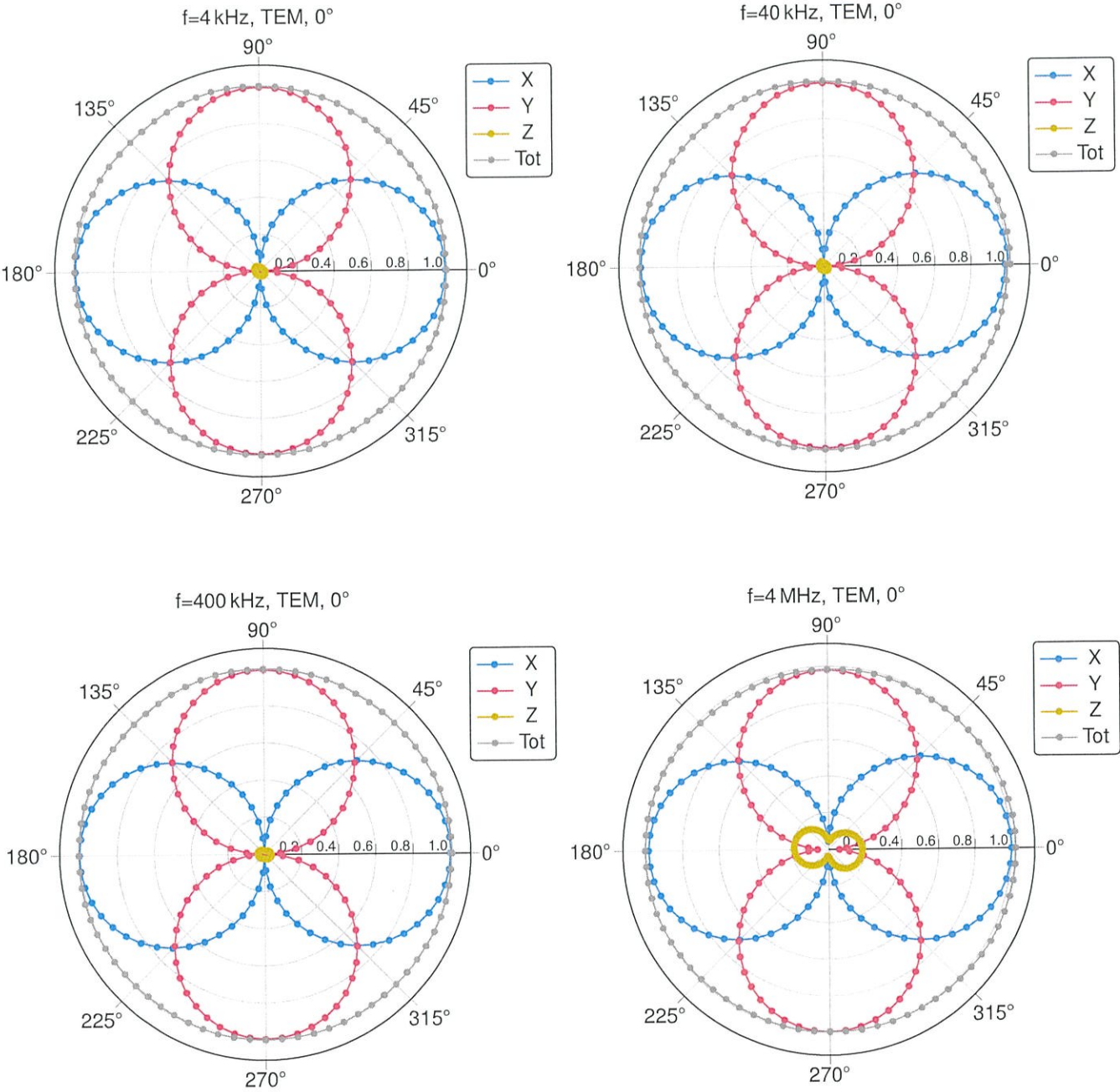
f/(Hz)	E-field/(V/m) Applied			E-field/(V/m) Reading			Difference/(dB)			Tolerance/(dB)
	x	y	z	x	y	z	x	y	z	
3000	84.6	84.6	88.0	84.6	84.6	88.0	0.00	0.00	0.00	±0.3
3200	86.2	86.2	80.3	85.8	87.1	80.5	-0.04	0.09	0.02	±0.3
4000	83.9	83.9	88.0	83.9	84.0	88.0	0.00	0.01	0.00	±0.3
5200	81.8	81.8	85.0	82.3	81.9	85.5	0.05	0.01	0.05	±0.3
6600	81.9	81.9	82.1	81.9	82.1	82.5	0.00	0.02	0.04	±0.3
8200	78.0	78.0	82.1	78.1	77.9	82.4	0.01	-0.01	0.03	±0.3
9000	83.4	83.4	83.5	83.5	83.5	83.6	0.01	0.01	0.01	±0.3
10600	82.6	82.6	81.7	82.9	82.5	81.6	0.03	-0.01	-0.01	±0.3
13400	85.7	85.7	79.6	85.7	85.7	79.7	0.00	0.00	0.01	±0.3
17000	84.9	84.9	78.2	84.9	84.9	78.3	0.00	0.00	0.01	±0.3
21400	83.1	83.1	82.6	83.2	83.1	82.6	0.01	0.00	0.00	±0.3
27200	83.9	83.9	80.4	84.1	84.0	80.4	0.02	0.01	0.00	±0.3
34400	82.5	82.5	79.4	82.6	82.6	79.4	0.01	0.01	0.00	±0.3
40000	83.2	83.2	82.1	83.2	83.3	82.2	0.00	0.01	0.01	±0.3
43600	82.5	82.5	81.3	82.6	82.6	81.3	0.01	0.01	0.00	±0.3
55400	82.3	82.3	81.3	82.4	82.4	81.3	0.01	0.01	0.00	±0.3
70000	83.1	83.1	81.4	83.2	83.2	81.4	0.01	0.01	0.00	±0.3
88800	82.2	82.2	82.1	82.2	82.3	82.2	0.00	0.01	0.01	±0.3
112400	82.6	82.6	81.7	82.7	82.7	81.7	0.01	0.01	0.00	±0.3
142400	82.6	82.6	82.1	82.7	82.7	82.1	0.01	0.01	0.00	±0.3
161750	82.7	82.7	82.1	82.7	82.7	82.1	0.00	0.00	0.00	±0.3
180400	83.0	83.0	82.1	83.1	83.1	82.1	0.01	0.01	0.00	±0.3
228400	83.1	83.1	82.2	83.2	83.2	82.2	0.01	0.01	0.00	±0.3
289400	83.3	83.3	82.6	83.4	83.4	82.7	0.01	0.01	0.01	±0.3
366400	83.5	83.5	82.7	83.6	83.6	82.8	0.01	0.01	0.01	±0.3
400000	83.8	83.8	82.7	83.9	83.8	82.8	0.01	0.00	0.01	±0.3
464000	84.0	84.0	83.0	84.1	84.1	83.0	0.01	0.01	0.00	±0.3
587800	84.0	84.0	83.0	84.1	84.1	83.1	0.01	0.01	0.01	±0.3
744200	84.1	84.1	83.0	84.2	84.2	83.0	0.01	0.01	0.00	±0.3
942600	84.1	84.1	83.1	84.2	84.2	83.2	0.01	0.01	0.01	±0.3
1193600	83.8	83.8	82.7	83.9	83.9	82.8	0.01	0.01	0.01	±0.3
1511600	83.3	83.3	82.3	83.4	83.4	82.3	0.01	0.01	0.00	±0.3
1914400	82.9	82.9	82.0	83.0	83.0	82.1	0.01	0.01	0.01	±0.3
2424400	82.6	82.6	81.8	82.7	82.7	81.8	0.01	0.01	0.00	±0.3
3070200	82.5	82.5	81.5	82.5	82.5	81.6	0.00	0.00	0.01	±0.3
3888000	82.6	82.6	81.8	82.7	82.7	81.9	0.01	0.01	0.01	±0.3
4000000	82.4	82.4	81.7	82.5	82.5	81.8	0.01	0.01	0.01	±0.3
4923800	83.0	83.0	82.5	83.1	83.1	82.5	0.01	0.01	0.00	±0.3
6235400	85.7	85.7	85.0	85.8	85.8	85.0	0.01	0.01	0.00	±0.3
7896400	88.5	88.5	88.0	88.5	88.6	87.9	0.00	0.01	-0.01	±0.3
10000000	96.8	96.8	96.2	96.8	96.8	96.3	0.00	0.00	0.01	±0.3

SPEAG E-field frequency response tolerance criteria¹:
±0.3dB for applied E-fields at calibration points from 3kHz to 10MHz

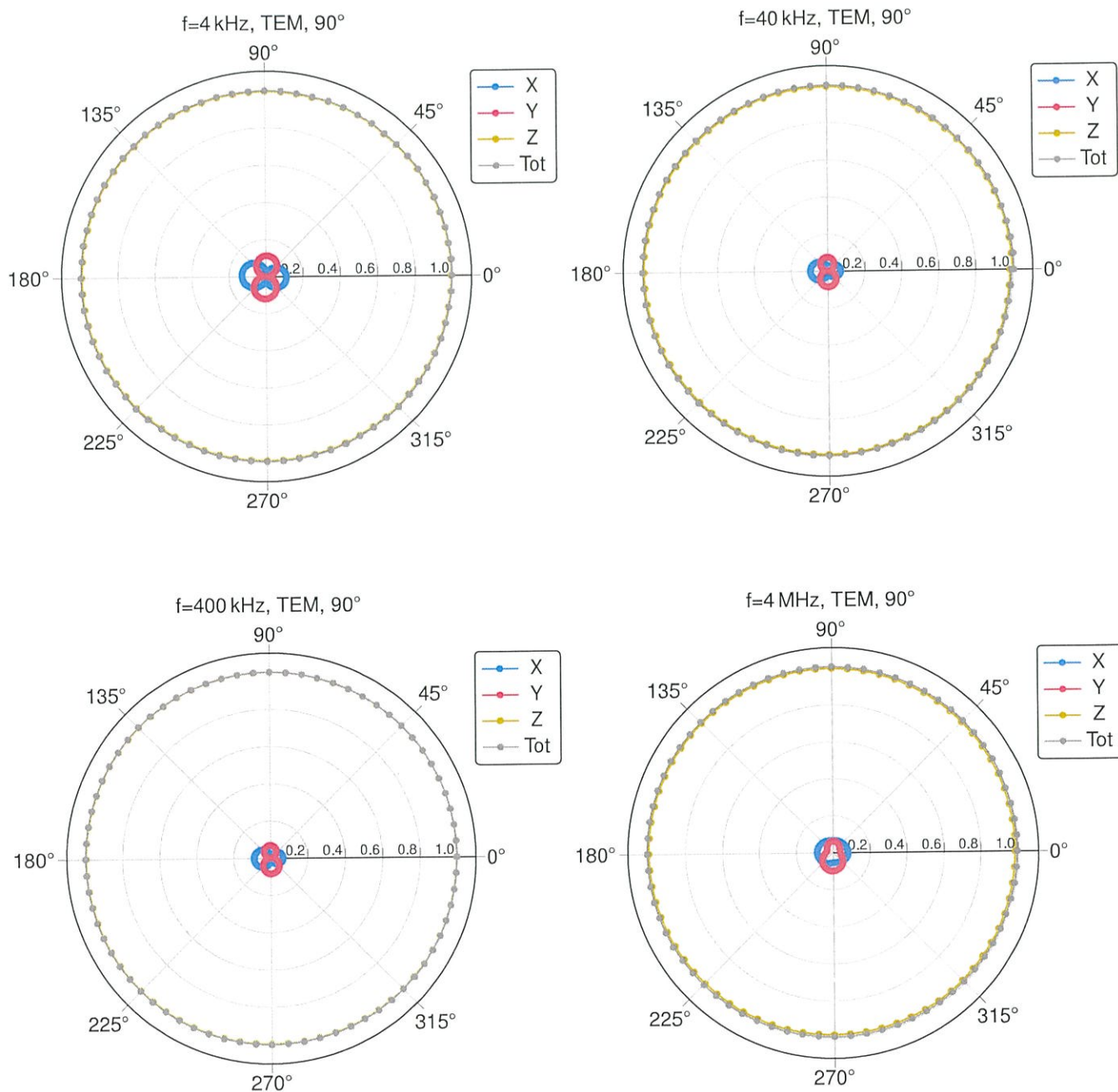
¹Calibration uncertainty not taken into account (shared risk 50%).

Isotropy H-Field

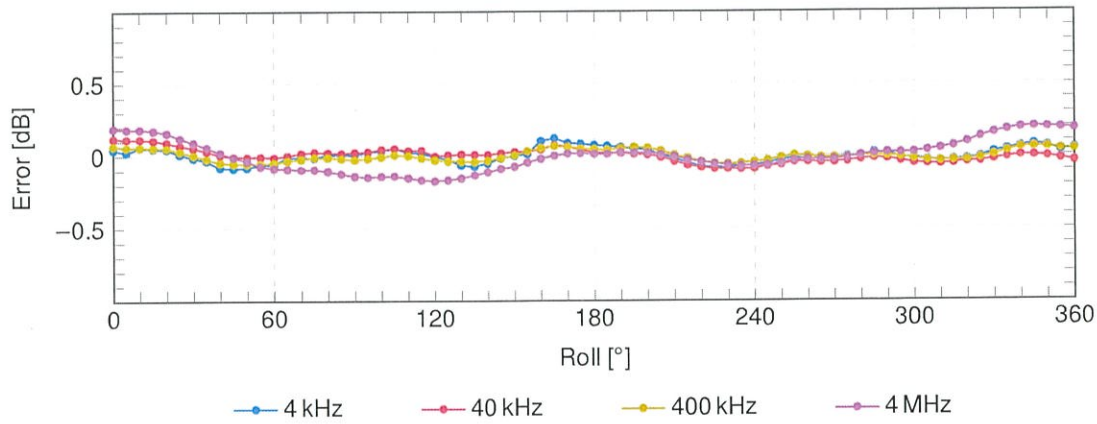
H-Field Receiving Pattern (ϕ), $\vartheta = 0^\circ$



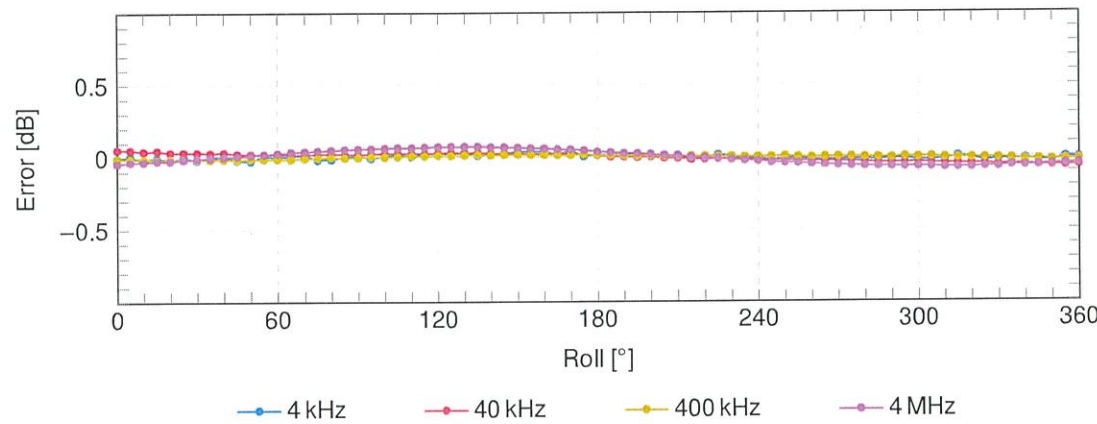
H-Field Receiving Pattern (ϕ), $\vartheta = 90^\circ$



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



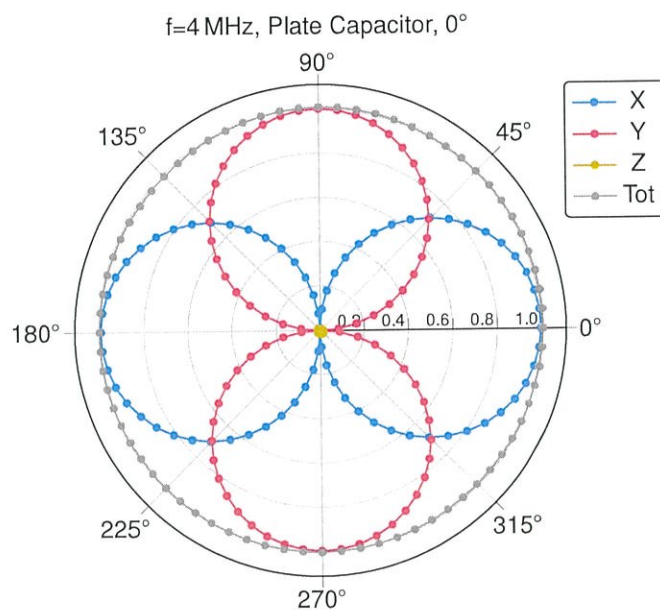
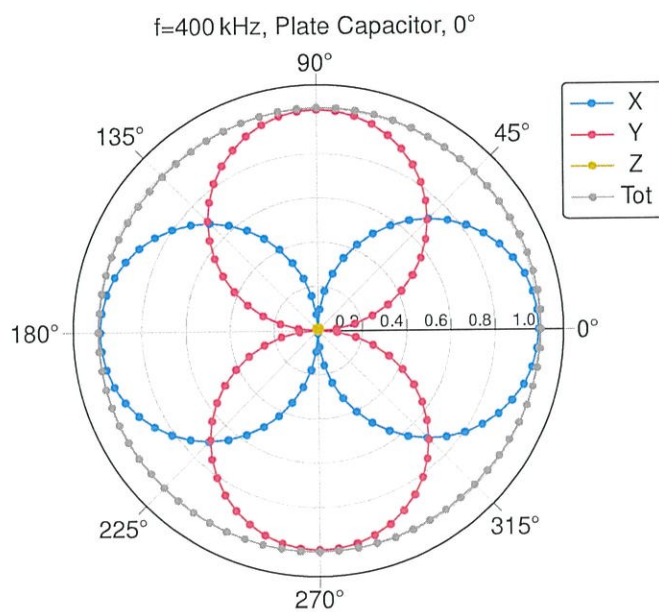
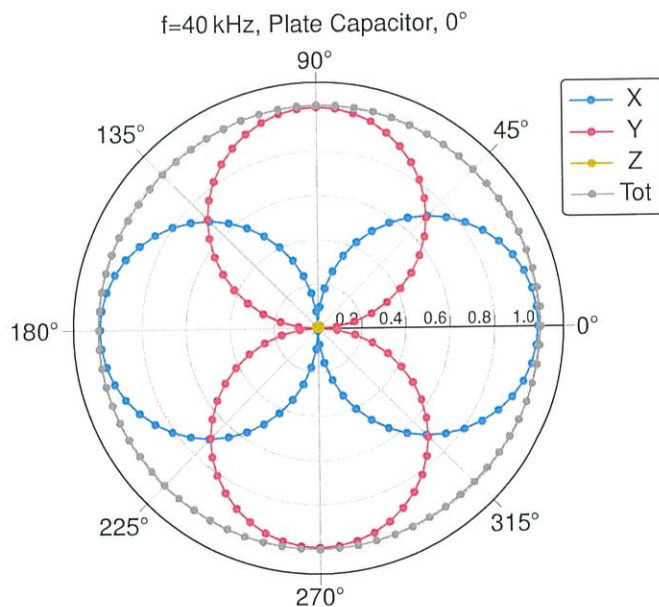
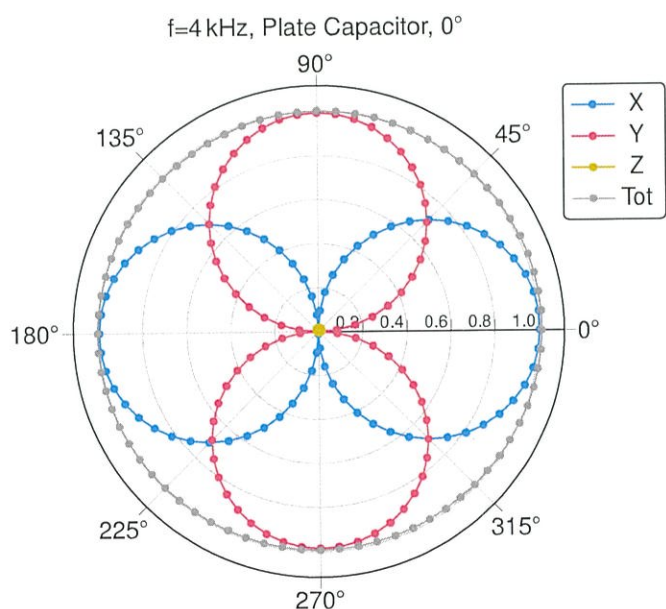
H-Field Receiving Pattern (ϕ), $\vartheta = 90^\circ$



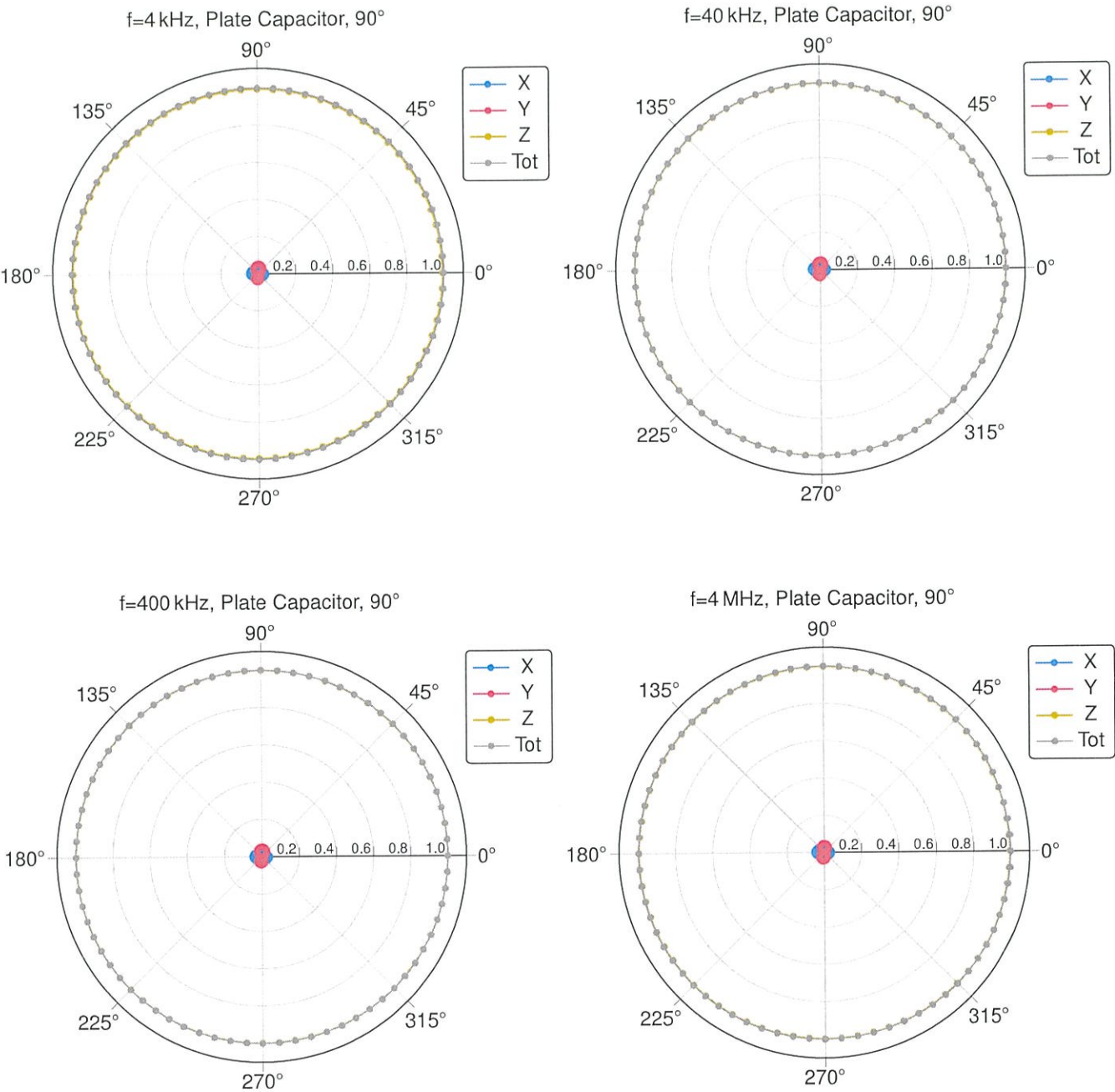
SPEAG axial deviation from the ideal response tolerance for H-field: $\pm 0.6\text{dB}$

Isotropy E-Field

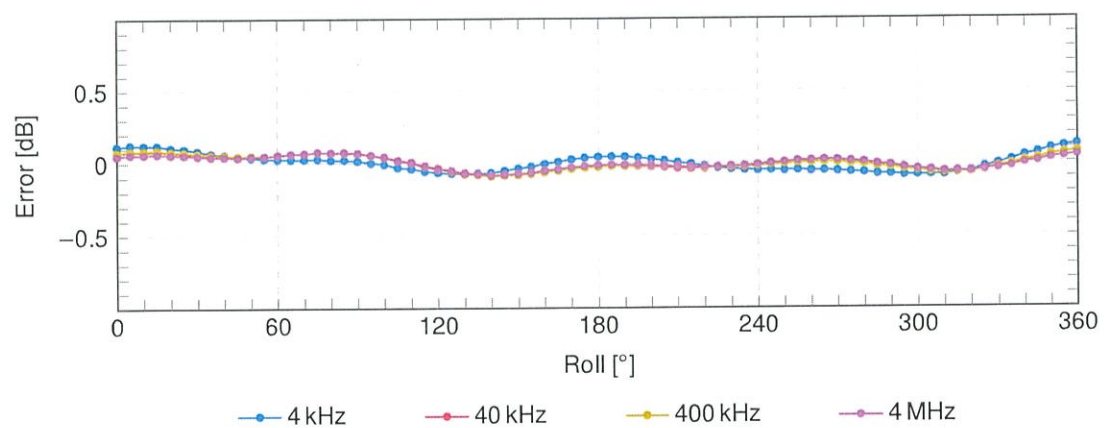
E-Field Receiving Pattern (ϕ), $\theta = 0^\circ$



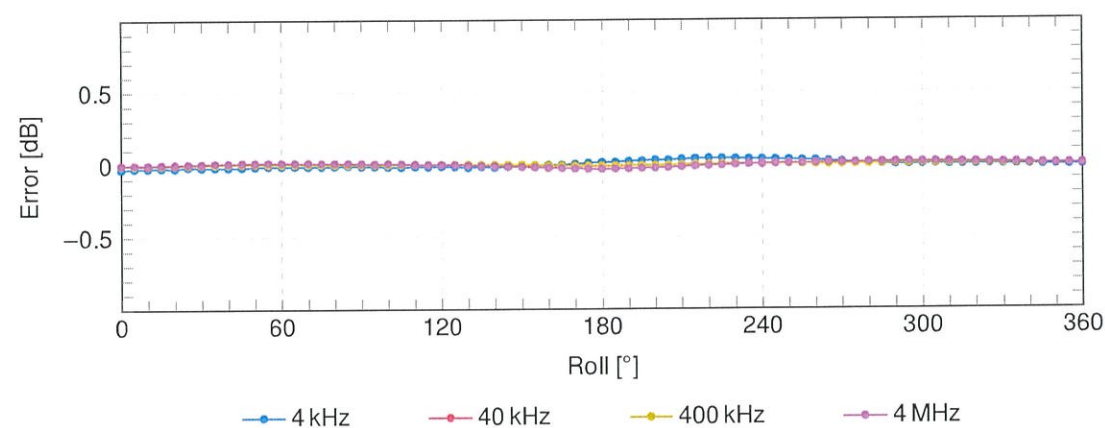
E-Field Receiving Pattern (ϕ), $\vartheta = 90^\circ$



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



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



SPEAG axial deviation from the ideal response tolerance for E-field: $\pm 0.8\text{dB}$