RF Exposure Evaluation

Client Information:

Applicant:	Superior Communications.
Applicant add.:	5027 Irwindale Ave.Suite Irwindale Ave California United States.
Manufacturer:	Shenzhen Powerqi Technology Co.,Ltd.
Manufacturer add.:	Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and Technology Park, No. 13 of Baonan Road, Longgang District, Shenzhen, China

Product Information:

Product Name:	3 in1 Qi2.0 New Gen. Power Drum
Model No.:	06722
Brand Name:	AT&T
FCC ID:	YJW-06722
Applicable standards:	FCC CFR 47 PART 1, § 1.1310 KDB 680106 D01 Wireless Power Transfer v04

Prepared By:

Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Tel.: +86 0755-230967639 Fax.: +86 0755-230967639

Date of Receipt: May 24, 2024 Date of Test: May 24, 2024 ~ Jun. 07, 2024

Date of Issue: Jun. 07, 2024 Test Result: Pass

This device described above has been tested by Guangdong Asia Hongke Test Technology Limited and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Reviewed by: Leon Yi Leon.yi **Approved by:** Sean She Sean She

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Revision History

Revision	Issue Date	Revisions	Revised By
00	Jun. 07, 2024	Initial Issue	Sean She

1 TEST FACILITY

The test facility is recognized, certified or accredited by the following organizations:

FCC-Registration No.: 251906 Designation Number: CN1376

Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165

The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01

Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.1 Deviation from standard

None

1.2 Abnormalities from standard conditions

None

1.3 Test Location

Guangdong Asia Hongke Test Technology Limited
Address: B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Tel.: +86 0755-230967639 Fax.: +86 0755-230967639

2 GENERAL INFORMATION

EUT Name:	3 in1 Qi2.0 New Gen. Power Drum
Model No:	06722
Serial Model:	4973S
Test sample(s) ID:	AITSZ24052405001
Sample(s) Status:	Engineer sample
Operation frequency:	Coil1: For Phone: 113kHz-205kHz Coil2: Watch: 300kHz-350kHz
Modulation Technology:	ASK
Antenna Type:	Coil1/Coil2: Loop coil Antenna
Antenna gain:	Coil1/Coil2: 0dBi
Hardware version.:	N/A
Software version.:	N/A
Power supply:	Capacity:5000mAh(TYP)/3.7V 18.5Wh(TYP) Input:5V3A,9V3A12V2.5A Output(Phone):15W Max Output(Apple Watch):5W Max Output(USB-C):20W Max Total Output:20W Max
Model different:	PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Note:	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Coil Specifications:

phone

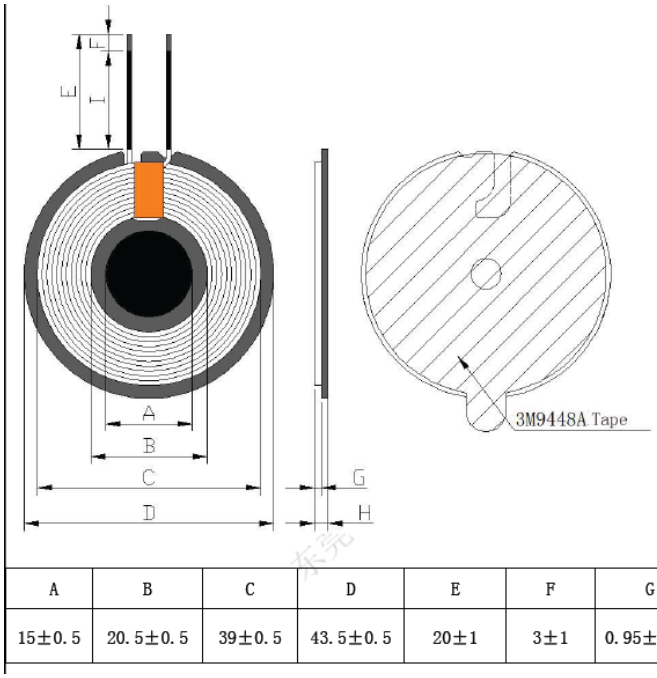
Item	Parameter
Input inductance:	L: 7.7uH±10%
Material of enclosure(s):	Hot Air stranded Wire
Number of turns:	Transmitter 1: 11 turns

Wristwatch

Item	Parameter
Input inductance:	L: 4.9uH±10% L1: 8.1uH±10%
Material of enclosure(s):	Hot Air stranded Wire
Number of turns:	Transmitter 1: 14 turns

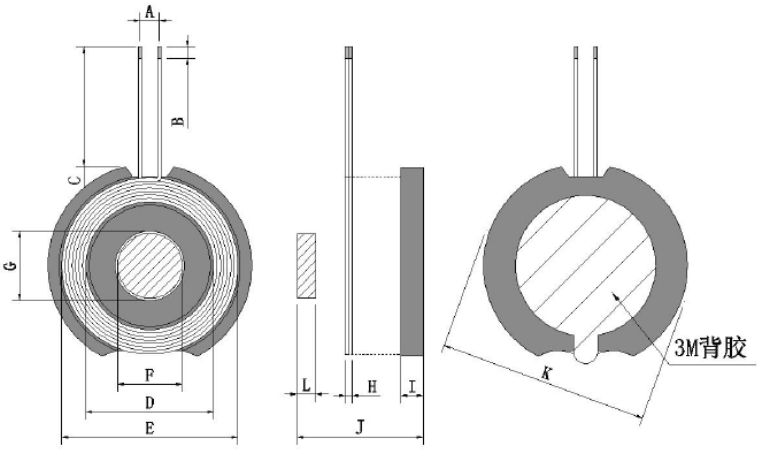
Coil Size:

phone



A	B	C	D	E	F	G	H	I
15±0.5	20.5±0.5	39±0.5	43.5±0.5	20±1	3±1	0.95±0.05	2.3MAX	17±1

Wristwatch



单位(Unit):毫米(mm)

A	B	C	D	E	F	G
2±1	1-2	13+2/-0	14±0.5	21MAX	7.5MAX	7.8±0.5
H	I	J	K	L		
1.05±0.05	2.5±0.2	2.85MAX	25±1	2.2±0.1		

3 TEST METHODOLOGY

3.1 Measuring Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Cocmission's guidelines. According to §1.1310 and §2.1091 RF exposure is calculated. According KDB680106 D01: KDB 680106 D01 Wireless Power Transfer v04.

3.2 Requirements

According to the item 3 of KDB 680106 D01v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

(1) Mobile Device and Portable Device Configurations

(2) Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz

(3) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the top surface.

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

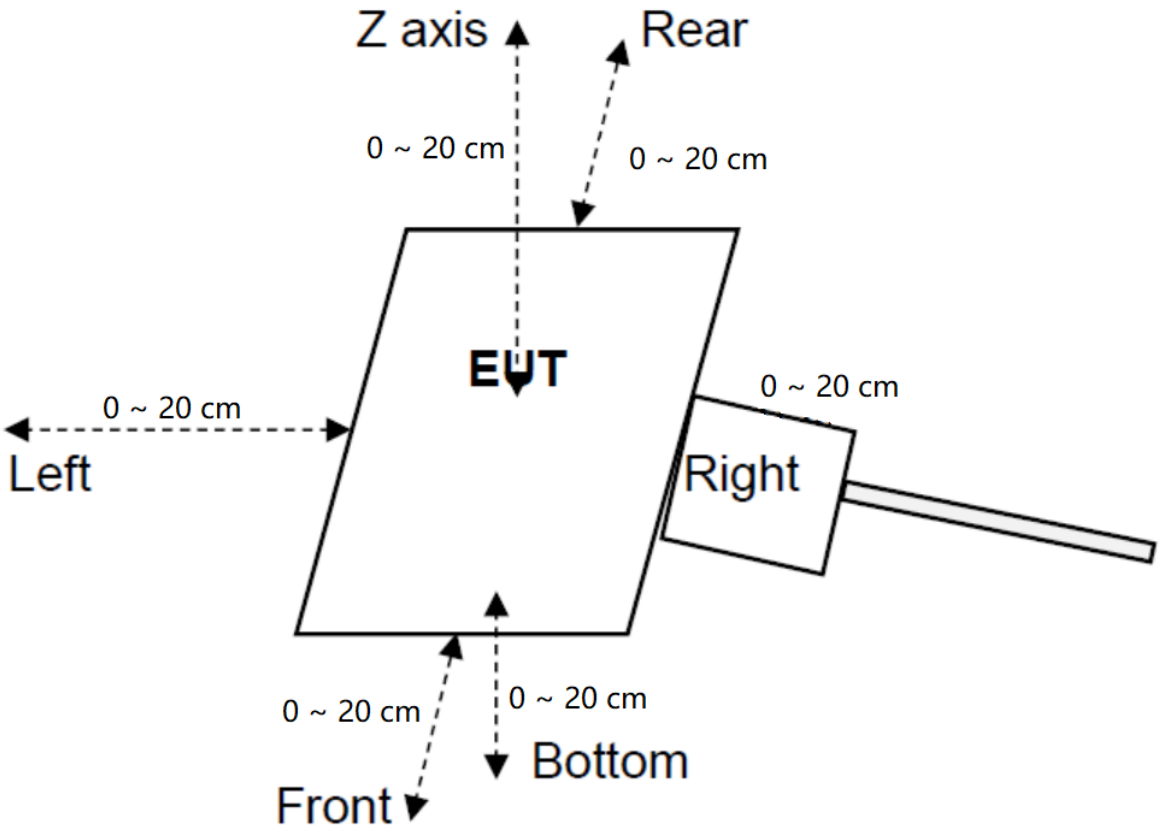
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*($900/f^2$)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

Note 1: f = frequency in MHz; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

3.3 Test Setup



3.4 Test Procedure

1) The RF exposure test was performed in anechoic chamber.
2) The measurement probe was placed at test distance (2cm increments from 0 ~ 20 cm for all sides) which is between the edge of the charger and the geometric edge of probe.
3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
4) The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.

Remark：The EUT's test position A, B, C, D, E and F is valid for the E and H field measurements.

4 Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

Requirements of section 5 of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operated in the frequency range113-205KHz and 300-350KHz(for watch).
Output power from each primary coil is less than or equal to 15 watts	Yse	The maximum output power of the primary coil is 15W.
The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time	Yes	The transfer system includes 1 primary coils.
Client device is placed directly in contact with the transmitter	Yes	Client device is placed directly in contact with the transmitter
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)	No	EUT is a portable power bank
The aggregate E-field and H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	No	H-field and E-field measurement taken every 2 cm (starting as close to 20 cm as possible) on each edge/top surface of the host/client pair were also evaluated for portable use conditions.

4.1 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

Test Mode	Description	
Mode 1	Adapter + EUT + Wireless charger receiver+ phone	Record
Mode 2	Test the EUT in idle mode.	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		

4.2 Peripheral List

No.	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable
1	Phone	Apple	iphone 14 Pro max	N/A	N/A	N/A
2	Watch	Apple	S6	N/A	N/A	N/A

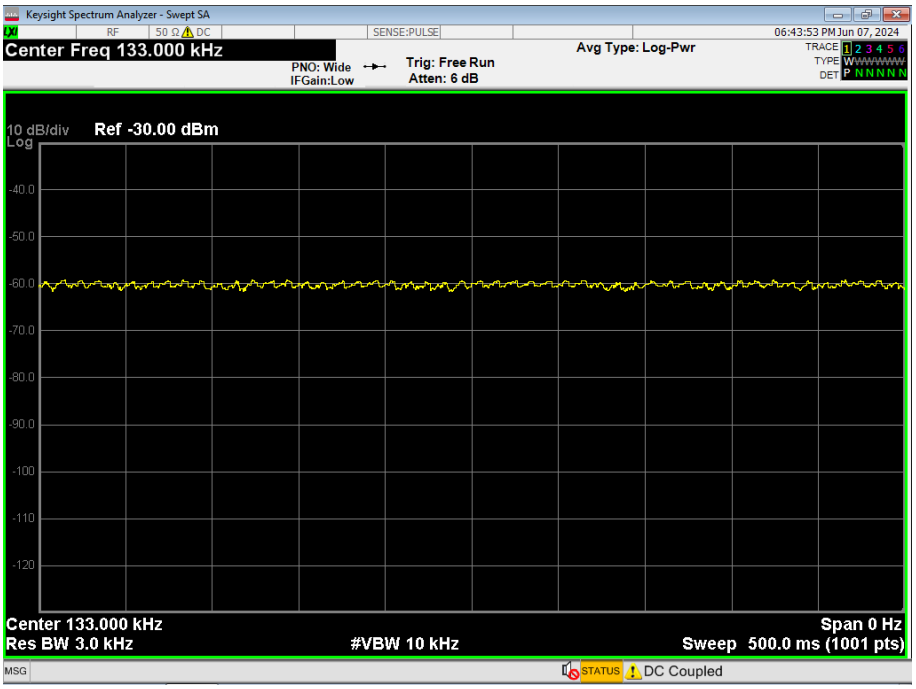
4.3 Test Instruments list

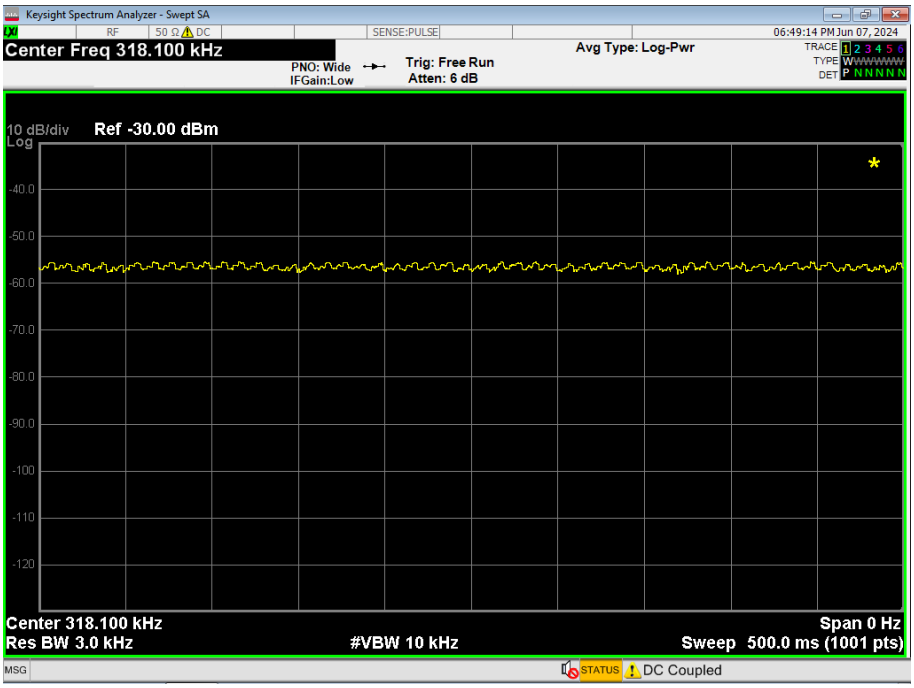
Test Equipment	Manufacturer	Model No.	SN.	Cal. Date (cm-dd-yy)	Cal. Due date (cm-dd-yy)
Magnetic Amplitude and Gradient Probe System	SPEAG	MAGPy-8H3D+E3D V2 & MAGPy-DAS V2	SZ186-06 & 3061	04.13.2024	04.12.2025

Parameter	Specs
PROBE DESIGN	
Diameter	60 mm
8 isotropic H-field sensors	concentric loops of 1 cm^2 arranged at the corner of a cube of 22 mm side length
1 isotropic E-field sensor	orthogonal dipole/monopole (arm length: 50 mm)
Measurement center	18.5 mm from the probe tip
Temperature range	0–40 °C
Dimensions	110 × 635 × 35 mm (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)
H-FIELD SPECIFICATION	
Frequency range	3 kHz–10 MHz
Measurement range	0.1–3200 A/m, 0.12 µT–4 mT
Gradient range	0–80 T/m/T
E-FIELD SPECIFICATION	
Frequency range	3 kHz–10 MHz
Measurement range	0.08–2000 V/m

4.4 Duty Cycle:

Mode	ON Time(ms)	Period(ms)	Duty Cycle(%)
Operating(113kHz-205kHz)	/	/	100
Operating(318.1kHz)	/	/	100




Keysight Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:PULSE
06:49:14 PM Jun 07, 2024
Center Freq 318.100 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
Atten: 6 dB
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE W W W W W W
DET P N N N N N
10 dB/div
Log
Ref -30.00 dBm
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100
-110
-120
Center 318.100 kHz
Res BW 3.0 kHz
#VBW 10 kHz
Span 0 Hz
Sweep 500.0 ms (1001 pts)
MSG
STATUS
DC Coupled

4.5 Compliance Location: Center vs Tip-Surface of the Probe

The following information is from the equipment manual:

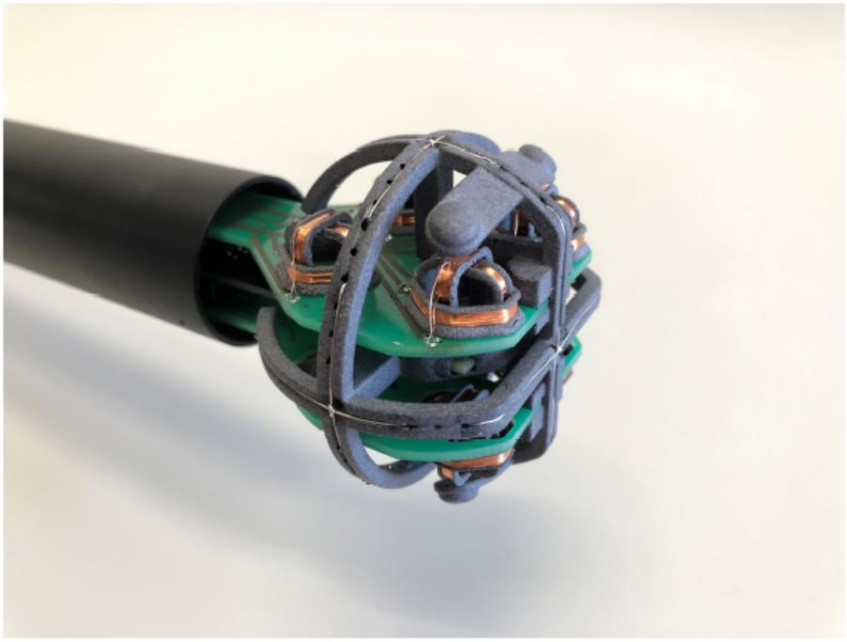


Figure 2.1: MAGPy-8H3D+E3D V2 probe, without the casing

In the MAGPy V2.0 implementation, the H-field is evaluated at the center of the probe (which is 18.5mm above the surface of its tip) and also at the surface of its tip.

In the MAGPy V2.0 implementation, the H-field is evaluated at the center of the probe (which is 18.5 mm above the surface of its tip) and also at the surface of its tip.

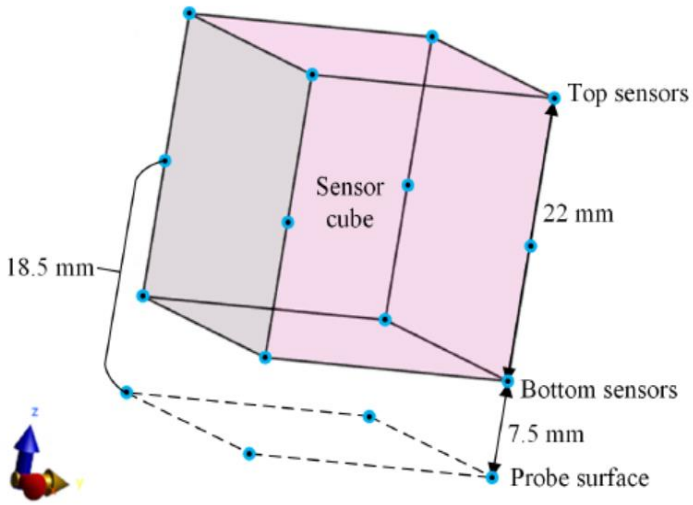


Figure 2.5: Extrapolation of the total H-field at the probe surface is made at each pair of sensors (i.e., bottom and top sensors) around the sensor cube

The total H-field at the tip-surface $H_{tip-surface}$ can be extrapolated using the total H-field measured at the top and bottom sensors (Figure 2.5), H_{top} and H_{bottom}, as well as the normalized H-field gradient G_n. The field extrapolation formula is a polynomial function of G_n ($\Delta d = 18.5$ mm) [7].

$$H_{tip-surface} = \frac{H_{bottom} + H_{top}}{2} \sum_{i=0}^{7} c_i \left(G_n \Delta d\right)^i \tag{1.6}$$

The polynomial coefficients c_i are given in Table 2.2. They have been determined from simulations of 70 coils covering normalized gradients up to 80 for the 97.5$^{\text{th}}$ percentile (Figure 2.6). This provides a conservative estimate of the total H-field at the tip-surface without large overestimation.

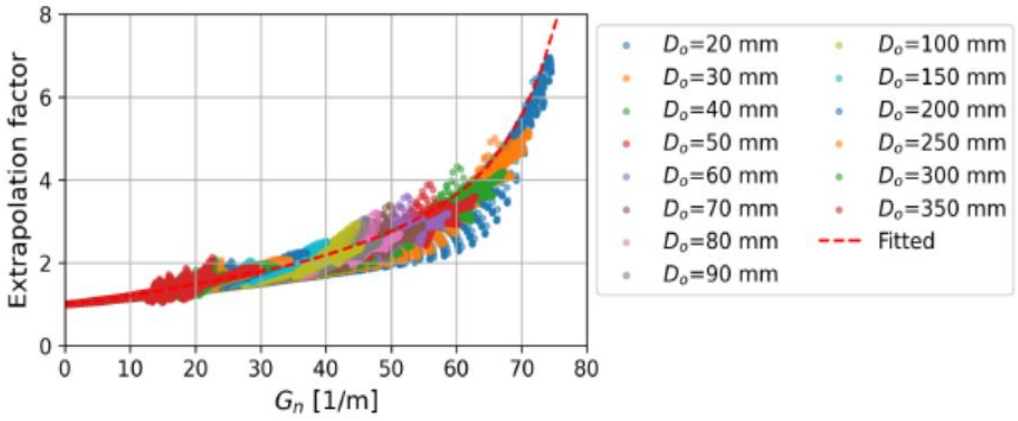


Figure 2.6: Extrapolation factors (i.e., ratios between the simulated results of $H_{tip-surface}$ and $\frac{H_{bottom}+H_{top}}{2}$) plotted as a function of the normalized H-field gradient. The data are from simulations of 70 coils with varying outer diameters D_o and filling ratios (0.1–0.9). The predication of the polynomial function $\sum_{i=0}^{7} c_i \left(G_n \Delta d\right)^i$ with coefficients fitted for 97.5th percentile (i.e., the red dashed line) is also shown.

Coefficient	Value
c_0	1.00
c_1	1.00
c_2	-1.01
c_3	15.9
c_4	-50.8
c_5	74.7
c_6	-51.4
c_7	13.7

Table 2.2: Coefficients of the polynomial function for the H-field extrapolation to the tip-surface of the probe, determined with 0.975 quantile regression (i.e., the 97.5$^{\text{th}}$ percentile)

4.6 Test Result

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
0cm	＜ 1%	Top	13.87	1.54
0cm	＜ 1%	Bottom	13.61	1.53
0cm	＜ 1%	Left	13.90	1.59
0cm	＜ 1%	Right	13.78	1.51
0cm	＜ 1%	Front	13.52	1.43
0cm	＜ 1%	Rear	13.66	1.61
Limit			614	1.63
Margin Limit (%)			2.22%	84.05%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
0cm	＜ 50%	Top	13.79	1.45
0cm	＜ 50%	Bottom	13.61	1.58
0cm	＜ 50%	Left	13.88	1.38
0cm	＜ 50%	Right	13.79	1.64
0cm	＜ 50%	Front	13.81	1.37
0cm	＜ 50%	Rear	13.61	1.57
Limit			614	1.63
Margin Limit (%)			2.23%	92.02%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
0cm	＜ 99%	Top	13.63	1.51
0cm	＜ 99%	Bottom	13.68	1.59
0cm	＜ 99%	Left	13.81	1.46
0cm	＜ 99%	Right	13.74	1.80
0cm	＜ 99%	Front	13.82	1.44
0cm	＜ 99%	Rear	13.54	1.73
Limit			614	1.63
Margin Limit (%)			2.24%	93.25%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
2cm	＜ 1%	Top	13.62	1.38
2cm	＜ 1%	Bottom	13.56	1.43
2cm	＜ 1%	Left	13.50	1.44
2cm	＜ 1%	Right	13.72	1.47
2cm	＜ 1%	Front	13.59	1.45
2cm	＜ 1%	Rear	13.77	1.27
Limit			614	1.63
Margin Limit (%)			2.21%	80.98%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
2cm	＜ 50%	Top	13.62	1.38
2cm	＜ 50%	Bottom	13.38	1.37
2cm	＜ 50%	Left	13.78	1.20
2cm	＜ 50%	Right	13.73	1.34
2cm	＜ 50%	Front	13.47	1.32
2cm	＜ 50%	Rear	13.79	1.46
Limit			614	1.63
Margin Limit (%)			2.21%	78.53%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
2cm	＜ 99%	Top	13.45	1.39
2cm	＜ 99%	Bottom	13.55	1.47
2cm	＜ 99%	Left	13.69	1.30
2cm	＜ 99%	Right	13.55	1.28
2cm	＜ 99%	Front	13.65	1.35
2cm	＜ 99%	Rear	13.76	1.68
Limit			614	1.63
Margin Limit (%)			2.21%	84.05%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
4cm	＜ 1%	Top	13.54	1.31
4cm	＜ 1%	Bottom	13.56	1.43
4cm	＜ 1%	Left	13.37	1.42
4cm	＜ 1%	Right	13.33	1.48
4cm	＜ 1%	Front	13.30	1.26
4cm	＜ 1%	Rear	13.28	1.40
Limit			614	1.63
Margin Limit (%)			2.17%	76.69%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
4cm	＜ 50%	Top	13.57	1.53
4cm	＜ 50%	Bottom	13.34	1.33
4cm	＜ 50%	Left	13.38	1.17
4cm	＜ 50%	Right	13.27	1.37
4cm	＜ 50%	Front	13.32	1.42
4cm	＜ 50%	Rear	13.06	1.33
Limit			614	1.63
Margin Limit (%)			2.17%	80.98%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
4cm	＜ 99%	Top	13.45	1.46
4cm	＜ 99%	Bottom	13.47	1.33
4cm	＜ 99%	Left	13.30	1.29
4cm	＜ 99%	Right	13.23	1.54
4cm	＜ 99%	Front	13.17	1.43
4cm	＜ 99%	Rear	13.11	1.35
Limit			614	1.63
Margin Limit (%)			2.17%	85.89%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
6cm	＜ 1%	Top	13.39	1.27
6cm	＜ 1%	Bottom	13.36	1.19
6cm	＜ 1%	Left	13.27	1.22
6cm	＜ 1%	Right	13.31	1.22
6cm	＜ 1%	Front	13.09	1.29
6cm	＜ 1%	Rear	13.11	1.18
Limit			614	1.63
Margin Limit (%)			2.16%	63.19%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
6cm	＜ 50%	Top	13.58	1.23
6cm	＜ 50%	Bottom	13.15	1.31
6cm	＜ 50%	Left	13.27	1.08
6cm	＜ 50%	Right	13.41	0.98
6cm	＜ 50%	Front	13.19	1.07
6cm	＜ 50%	Rear	13.09	1.15
Limit			614	1.63
Margin Limit (%)			2.19%	67.48%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
6cm	＜ 99%	Top	13.60	1.45
6cm	＜ 99%	Bottom	13.12	1.35
6cm	＜ 99%	Left	13.64	0.97
6cm	＜ 99%	Right	13.46	0.97
6cm	＜ 99%	Front	13.04	1.04
6cm	＜ 99%	Rear	13.01	0.85
Limit			614	1.63
Margin Limit (%)			2.20%	74.23%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
8cm	＜ 1%	Top	13.26	0.95
8cm	＜ 1%	Bottom	13.32	1.11
8cm	＜ 1%	Left	13.45	1.23
8cm	＜ 1%	Right	13.16	0.99
8cm	＜ 1%	Front	13.14	1.08
8cm	＜ 1%	Rear	13.22	1.03
Limit			614	1.63
Margin Limit (%)			2.14%	58.28%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
8cm	＜ 50%	Top	13.23	1.12
8cm	＜ 50%	Bottom	13.34	1.13
8cm	＜ 50%	Left	13.38	1.20
8cm	＜ 50%	Right	13.21	1.17
8cm	＜ 50%	Front	13.03	1.26
8cm	＜ 50%	Rear	12.97	1.12
Limit			614	1.63
Margin Limit (%)			2.16%	68.10%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
8cm	＜ 99%	Top	13.17	1.11
8cm	＜ 99%	Bottom	13.32	1.18
8cm	＜ 99%	Left	13.59	0.80
8cm	＜ 99%	Right	13.26	1.48
8cm	＜ 99%	Front	13.18	1.19
8cm	＜ 99%	Rear	13.03	1.27
Limit			614	1.63
Margin Limit (%)			2.16%	72.39%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
10cm	＜ 1%	Top	13.08	0.92
10cm	＜ 1%	Bottom	13.11	1.05
10cm	＜ 1%	Left	13.11	1.14
10cm	＜ 1%	Right	13.04	0.90
10cm	＜ 1%	Front	12.99	1.08
10cm	＜ 1%	Rear	13.16	1.03
Limit			614	1.63
Margin Limit (%)			2.12%	55.83%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
10cm	＜ 50%	Top	13.01	1.00
10cm	＜ 50%	Bottom	12.97	0.92
10cm	＜ 50%	Left	12.91	1.16
10cm	＜ 50%	Right	12.88	1.16
10cm	＜ 50%	Front	12.98	0.98
10cm	＜ 50%	Rear	13.05	0.96
Limit			614	1.63
Margin Limit (%)			2.11%	57.67%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
10cm	＜ 99%	Top	13.17	1.14
10cm	＜ 99%	Bottom	12.96	0.96
10cm	＜ 99%	Left	12.83	1.13
10cm	＜ 99%	Right	12.94	1.13
10cm	＜ 99%	Front	13.17	1.08
10cm	＜ 99%	Rear	13.06	1.24
Limit			614	1.63
Margin Limit (%)			2.12%	65.03%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
12cm	＜ 1%	Top	12.91	0.80
12cm	＜ 1%	Bottom	12.95	0.80
12cm	＜ 1%	Left	12.83	0.78
12cm	＜ 1%	Right	12.78	0.93
12cm	＜ 1%	Front	13.00	0.88
12cm	＜ 1%	Rear	12.87	0.84
Limit			614	1.63
Margin Limit (%)			2.08%	46.63%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
12cm	＜ 50%	Top	12.97	1.00
12cm	＜ 50%	Bottom	12.58	0.81
12cm	＜ 50%	Left	12.78	0.77
12cm	＜ 50%	Right	12.93	0.93
12cm	＜ 50%	Front	12.87	0.77
12cm	＜ 50%	Rear	12.90	0.78
Limit			614	1.63
Margin Limit (%)			2.08%	57.06%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
12cm	＜ 99%	Top	13.03	1.06
12cm	＜ 99%	Bottom	12.67	0.94
12cm	＜ 99%	Left	12.76	0.76
12cm	＜ 99%	Right	13.05	0.89
12cm	＜ 99%	Front	12.95	0.92
12cm	＜ 99%	Rear	12.77	0.66
Limit			614	1.63
Margin Limit (%)			2.08%	55.21%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
14cm	＜ 1%	Top	12.57	0.88
14cm	＜ 1%	Bottom	12.57	0.95
14cm	＜ 1%	Left	12.73	0.71
14cm	＜ 1%	Right	12.60	0.83
14cm	＜ 1%	Front	12.47	0.88
14cm	＜ 1%	Rear	12.72	0.87
Limit			614	1.63
Margin Limit (%)			2.05%	41.72%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
14cm	＜ 50%	Top	12.58	0.72
14cm	＜ 50%	Bottom	12.65	1.06
14cm	＜ 50%	Left	12.81	0.71
14cm	＜ 50%	Right	12.76	0.96
14cm	＜ 50%	Front	12.76	1.00
14cm	＜ 50%	Rear	12.59	1.05
Limit			614	1.63
Margin Limit (%)			2.06%	48.47%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
14cm	＜ 99%	Top	12.87	0.65
14cm	＜ 99%	Bottom	12.84	0.91
14cm	＜ 99%	Left	12.73	0.76
14cm	＜ 99%	Right	12.55	0.80
14cm	＜ 99%	Front	12.47	0.96
14cm	＜ 99%	Rear	12.62	1.02
Limit			614	1.63
Margin Limit (%)			2.06%	49.69%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
16cm	＜ 1%	Top	12.47	0.74
16cm	＜ 1%	Bottom	12.45	0.75
16cm	＜ 1%	Left	12.50	0.80
16cm	＜ 1%	Right	12.49	0.73
16cm	＜ 1%	Front	12.58	0.61
16cm	＜ 1%	Rear	12.69	0.92
Limit			614	1.63
Margin Limit (%)			2.05%	40.49%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
16cm	＜ 50%	Top	12.57	0.85
16cm	＜ 50%	Bottom	12.39	0.84
16cm	＜ 50%	Left	12.37	0.73
16cm	＜ 50%	Right	12.67	0.87
16cm	＜ 50%	Front	12.82	0.83
16cm	＜ 50%	Rear	12.66	0.55
Limit			614	1.63
Margin Limit (%)			2.05%	44.17%

614 1.63

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
16cm	＜ 99%	Top	12.62	0.78
16cm	＜ 99%	Bottom	12.48	1.01
16cm	＜ 99%	Left	12.35	0.82
16cm	＜ 99%	Right	12.97	0.88
16cm	＜ 99%	Front	12.81	0.82
16cm	＜ 99%	Rear	12.77	0.72
Limit			614	1.63
Margin Limit (%)			2.07%	44.79%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
18cm	＜ 1%	Top	12.32	0.67
18cm	＜ 1%	Bottom	12.29	0.63
18cm	＜ 1%	Left	12.14	0.77
18cm	＜ 1%	Right	12.10	0.72
18cm	＜ 1%	Front	12.19	0.55
18cm	＜ 1%	Rear	12.29	0.71
Limit			614	1.63
Margin Limit (%)			1.99%	34.97%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
18cm	＜ 50%	Top	12.53	0.79
18cm	＜ 50%	Bottom	12.25	0.76
18cm	＜ 50%	Left	12.24	0.81
18cm	＜ 50%	Right	12.11	0.72
18cm	＜ 50%	Front	11.87	0.81
18cm	＜ 50%	Rear	12.08	0.71
Limit			614	1.63
Margin Limit (%)			2.01%	40.49%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
18cm	＜ 99%	Top	12.39	0.70
18cm	＜ 99%	Bottom	12.23	0.78
18cm	＜ 99%	Left	12.35	0.83
18cm	＜ 99%	Right	12.24	0.73
18cm	＜ 99%	Front	12.00	0.72
18cm	＜ 99%	Rear	12.13	0.64
Limit			614	1.63
Margin Limit (%)			2.01%	46.01%

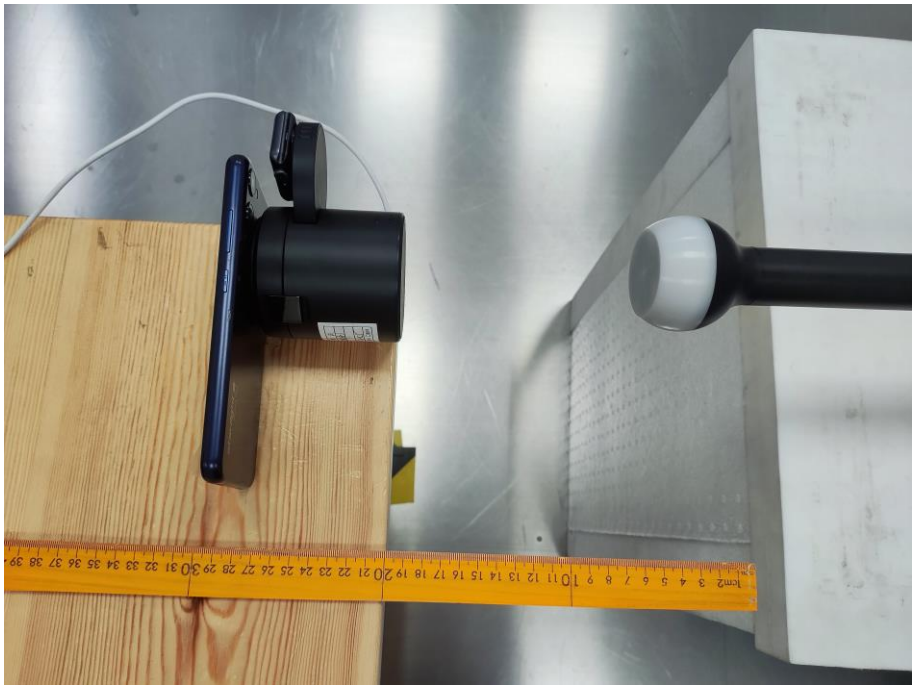
MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	＜ 1%	Top	12.00	0.53
20cm	＜ 1%	Bottom	12.00	0.66
20cm	＜ 1%	Left	12.08	0.62
20cm	＜ 1%	Right	11.86	0.53
20cm	＜ 1%	Front	11.90	0.70
20cm	＜ 1%	Rear	11.83	0.65
Limit			614	1.63
Margin Limit (%)			1.94%	29.45%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	＜ 50%	Top	12.03	0.64
20cm	＜ 50%	Bottom	12.03	0.67
20cm	＜ 50%	Left	11.90	0.64
20cm	＜ 50%	Right	11.80	0.56
20cm	＜ 50%	Front	11.96	0.62
20cm	＜ 50%	Rear	11.71	0.72
Limit			614	1.63
Margin Limit (%)			1.93%	28.83%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	＜ 99%	Top	12.11	0.44
20cm	＜ 99%	Bottom	12.15	0.50
20cm	＜ 99%	Left	11.78	0.50
20cm	＜ 99%	Right	11.76	0.51
20cm	＜ 99%	Front	11.86	0.57
20cm	＜ 99%	Rear	11.66	0.49
Limit			614	1.63
Margin Limit (%)			1.95%	25.77%

5 Test Setup photo

0cm-Botton



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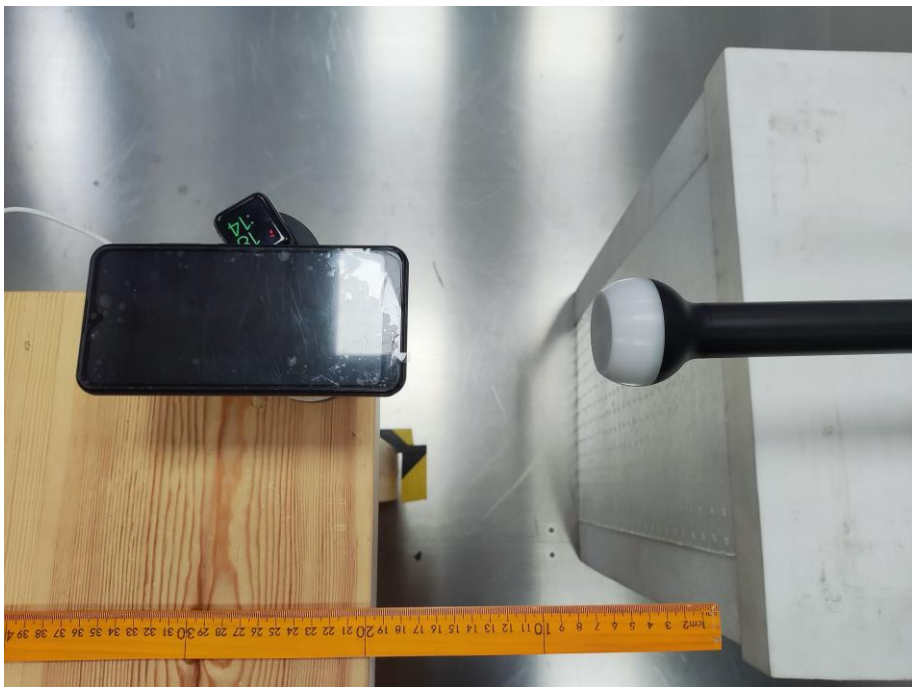
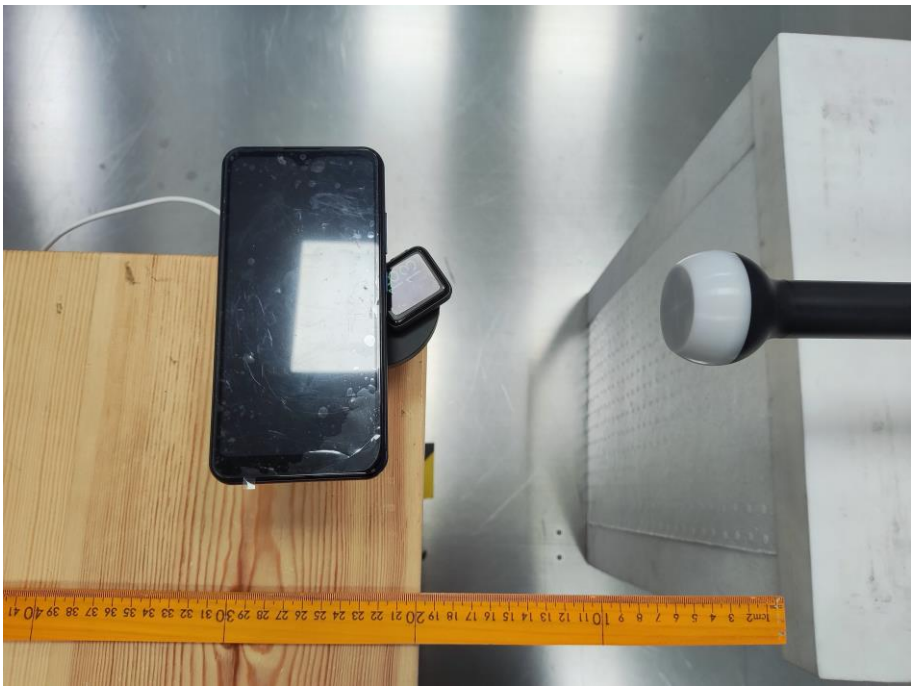
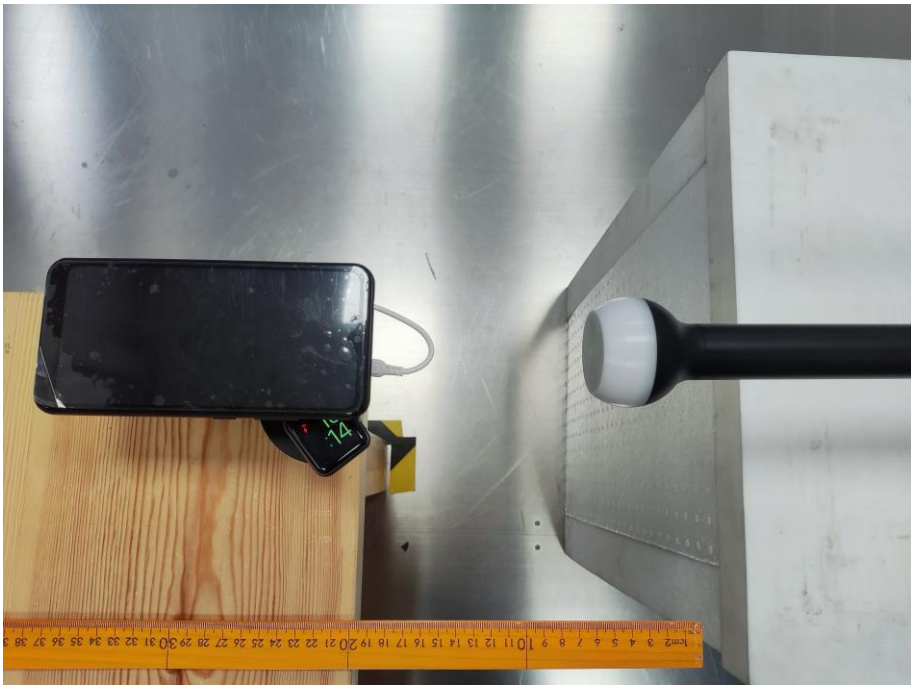


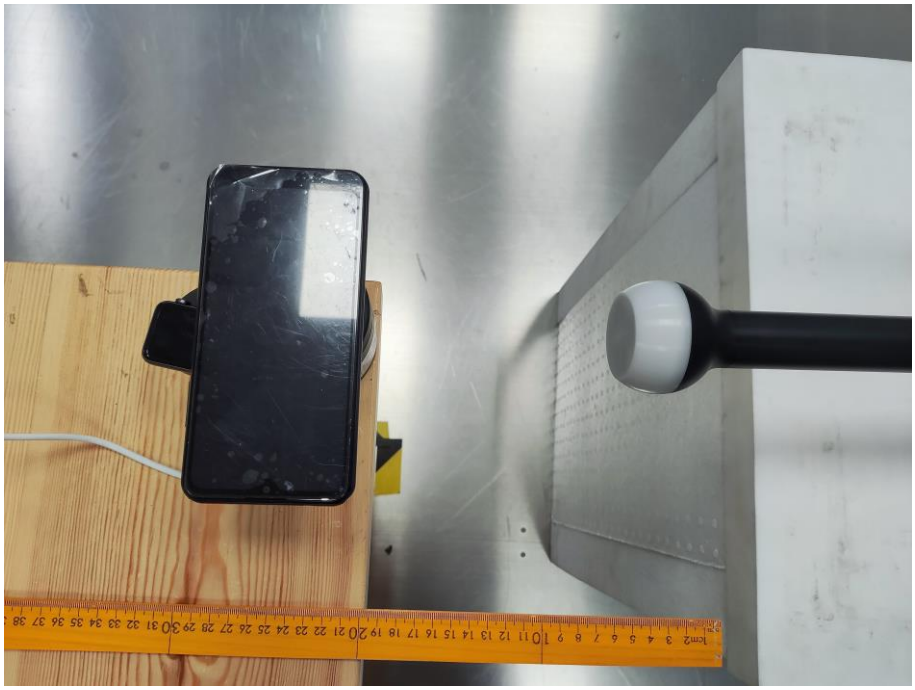
0cm-Left



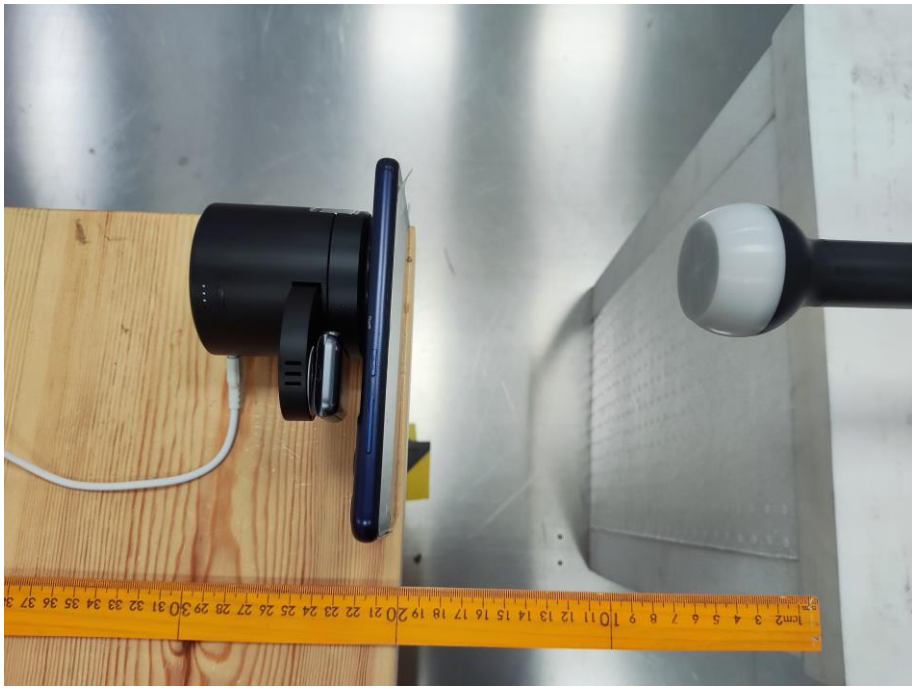
0cm-Rear



0cm-Right



0cm-Top



End of report