



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260700022102

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Human Exposure Report

Application No.: FYCR2607000221AT
Applicant: Guangdong Stellar Craft Technology Co., LTD
Address of Applicant: Renqian Road 19, Wushi, Sanxiang, Zhongshan China
Equipment Under Test (EUT):
EUT Name: WIRELESS CHARGER
Model No.: W123L, W123E, W121, W121E ♣
♣ Please refer to section 3.1 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: 2BNU3-W121-W123
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091
KDB 680106 D01 Wireless Power Transfer v04
Date of Receipt: 2026-07-02
Date of Test: 2026-07-09 to 2026-09-04
Date of Issue: 2026-09-07

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-09-07		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		



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3 General Information

3.1 Details of E.U.T.

Power Supply:	Input: 5V/3A; 9V/3A; 12V/3A; 15V/3A Output: 25W/15W/10W/7.5W/5W
Cable(s):	DC cable: 116cm unshielded
Operation frequency:	110.4kHz to 186.4kHz & 360.705KHz to 372.105KHz
Modulation type:	Load modulation
Antenna Type:	Loop antenna
Coil Turns(Phone):	11
Coil Overall Dimensions(Phone):	40mm*21.5mm
Duty cyclo:	100%

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Declaration of EUT Family Grouping:

Model No.: W123L, W123E, W121, W121E

Only the model W123L was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model No..



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3.1.1 The Distance From The Antenna To Each Surface Of the Product Casing.

The Distance from the Antenna to Each Surface of the Product Casing

Coil to Left: 9.83mm

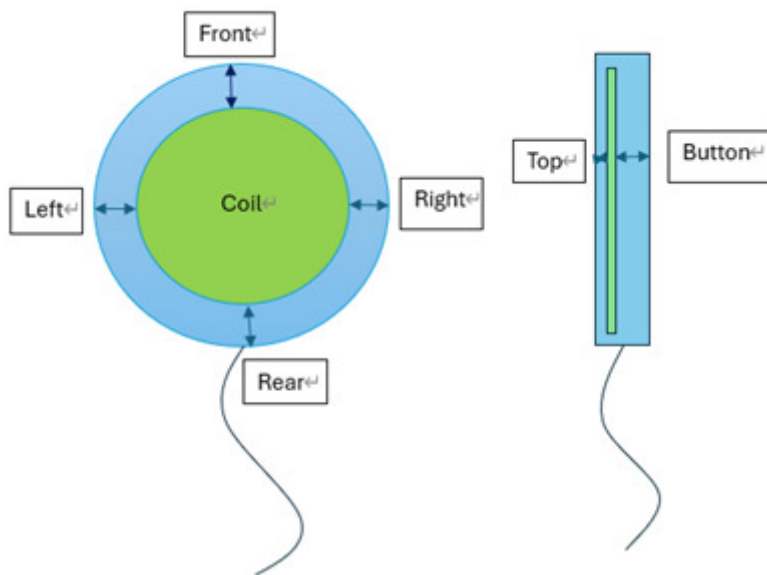
Coil to Right: 9.83mm

Coil to Front: 9.83mm

Coil to Rear: 9.83mm

Coil to Top: 0.75mm

Coil to Bottom: 4.55mm



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3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter(5V3A/9V3A/12V3A/15V3A/20V5A 100W Max)	UGREEN	X766	F34012030783
Earphone(5W)	Apple	A2566	REF. No.SEA02AA01
iPhone 16 pro(For 15W)	Apple	MYLU3CH/A	REF. No.SEA70AA01
iPhone 8(For 7.5W)	Apple	A1863	REF. No.SEA46AA01
Mobile Phone (For 5W)	Nexus	MRA58K	REF. No.SEA40AB01
Mobile Phone	SAMSUNG	SM-G9500	REF. No.SEA40AC05
E-loading(25W)	Leaper	YBZ	Client supply



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3.3 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

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

• **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



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4 Equipments Used during Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi- Anechoic Chamber	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
Electric and Magnetic Field Probe - Analyzer(9kHz-30MHz)	Narda	EHP-200A	SEM022-18	2026-03-23	2027-03-23
MAGPy-8H3D+E3D	SPEAG	MAGPy-8H3D+E3D	SEM060-31	2026-03-16	2027-03-15
Spectrum Analyzer	KEYSIGHT	N9010A	SEM004-12	2026/04/28	2027/04/27



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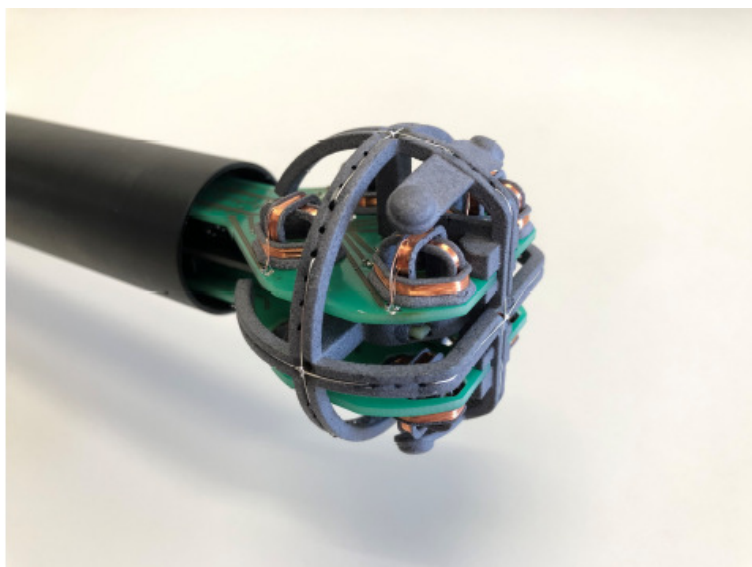
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Probe parameter:

Parameter	Specs
PROBE DESIGN	
Diameter	60 mm
8 isotropic <i>H</i> -field sensors	concentric loops of 1 cm ² arranged at the corner of a cube of 22 mm side length
1 isotropic <i>E</i> -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)
<i>H</i>-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
<i>E</i>-FIELD SPECIFICATION	
Frequency range	3 kHz–10 MHz
Measurement range	0.08–2000 V/m



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5 Measurement Data

Test Mode:

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)
Final test	04	Charge mode_Keep the EUT charging(25W)
Pre-scan	05	Charge mode_Keep the EUT charging(5W for AirPods)
Pre-scan	06	Idle mode_Keep the EUT standby.

Note:

Testing procedures for device charging mode and idle mode are identical, with only the test load power adjusted accordingly. The measured data represents the worst-case operating condition of the EUT paired with a mobile phone, where the mobile phone battery level is below 10%.



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6 Test Results

6.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1091

Limit:

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).

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1020 mbar



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6.1.2 Test Procedure

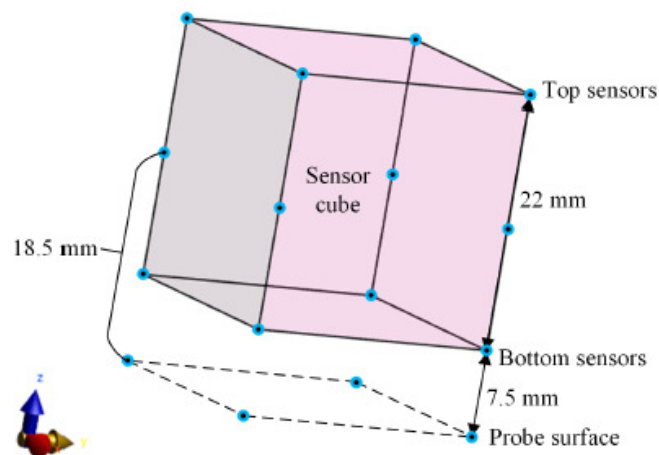
During the test, the probe scanning a parallel plane at the measurement distance on each side of the device to find the peak level.

The measured data represents the worst-case operating condition of the EUT paired with a mobile phone, where the mobile phone battery level is below 10%.

It has been proved by many tests, when the WPT client is removed from the wireless charger, the magnetic field emissions will increase immediately, the electric field emissions will decrease immediately, and the operation frequency will change. The test data also include the magnetic field emissions in this case.

When testing H-Field and E-Field at 60cm, the compliance location in MAGPy shall be set to probe center. Compared to $d_{\text{meas}} \geq 1.7D_p$, referring to the probe information in Section 3 of the report, this test distance meets the requirements.

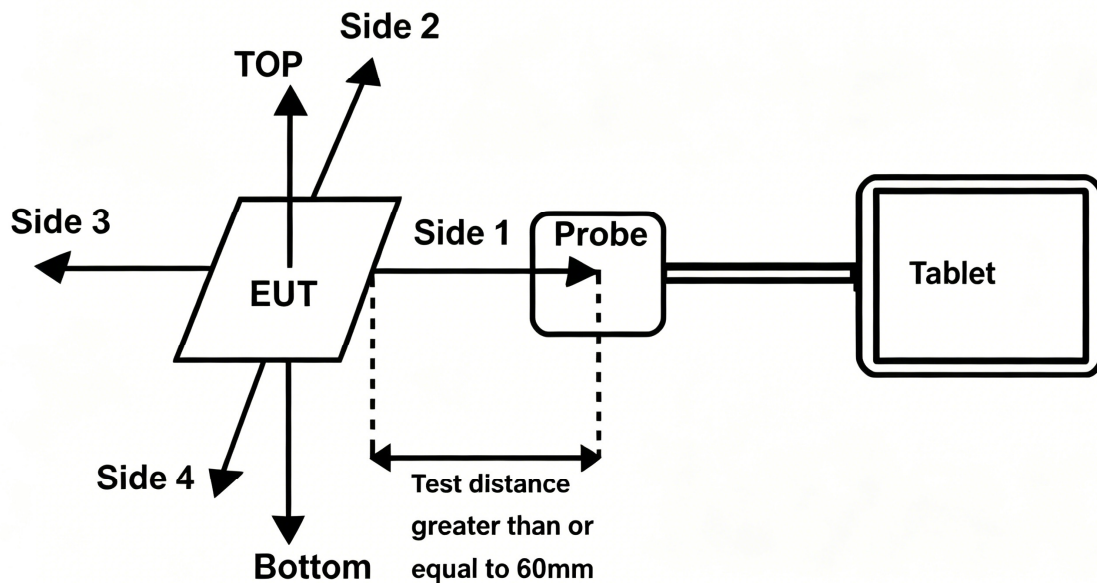
Compliance Location: Center vs Tip-Surface of the Probe:



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6.1.3 Test Block Diagram



1. These initial measurements are made at Z = 60 mm from the surface of the XY plane.



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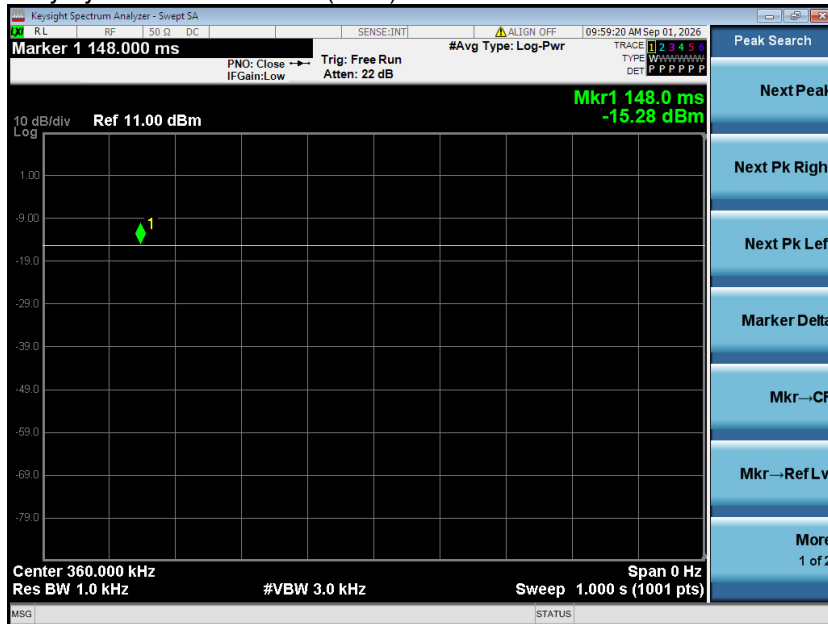
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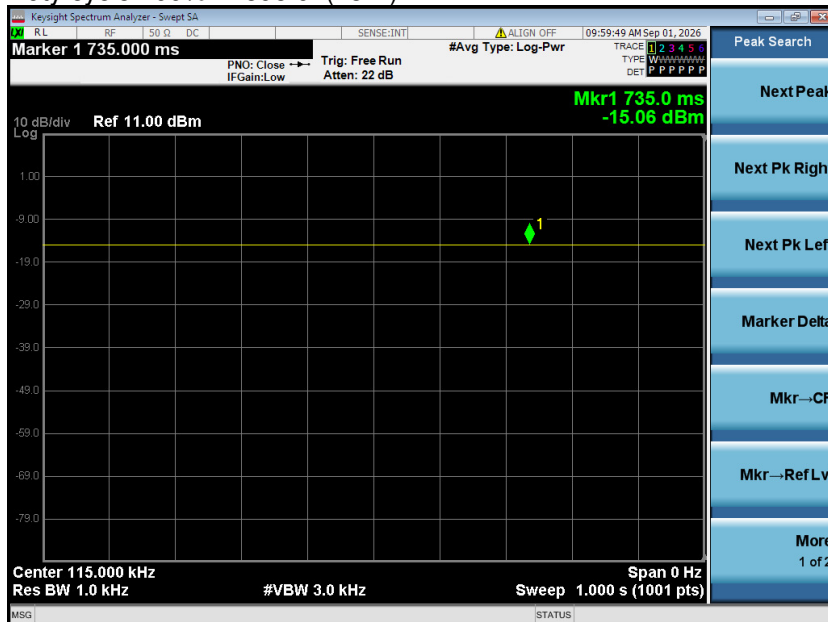
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Measurement Data

Duty cycle 100%: Mode 03(15W)



Duty cycle 100%: Mode 04(25W)



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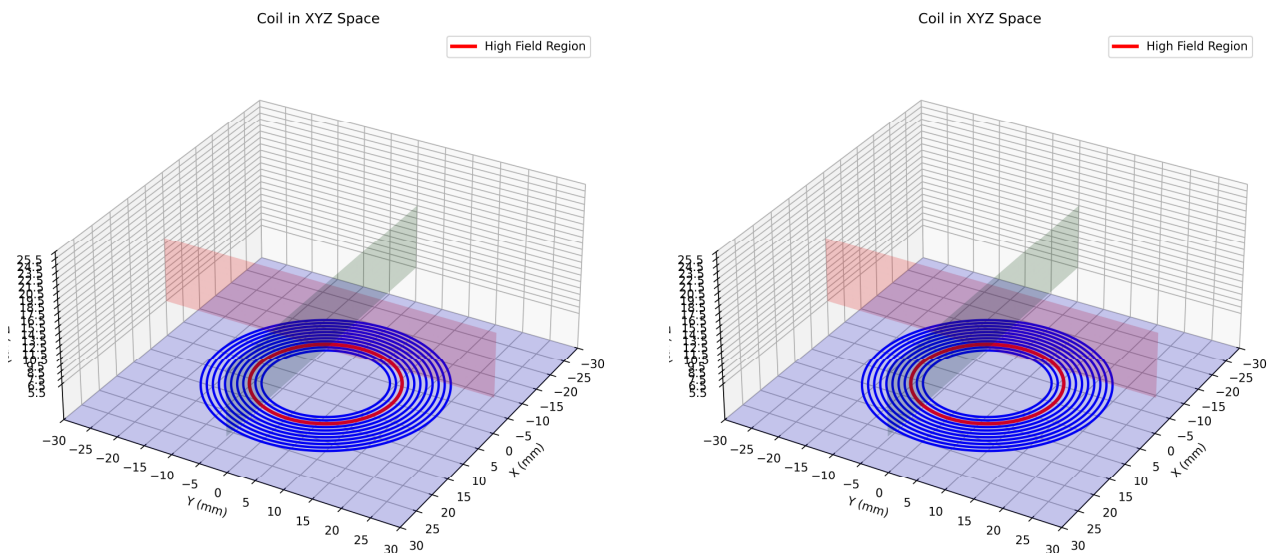
7 Curve fitting

7.1 Identify the MFS

The surface of the coil is defined as the X and Y surfaces, Vertical to the surface of the coil is defined as the Z plane, and a measurement grid of 5mm * 5mm is established. Use the MAGPy probe to test the E-field and H-field on the XY, XZ, and YZ surfaces, respectively. Finally, it was found that the E/H-field value of the third coil for phone on the XY surface was the highest.

The 3D simulation diagram is as follows:

E-field & H-field



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7.2 Use charging mode test to confirm the surface with the worst test results

6.2.1 At a distance of 60 mm from the probe to the EUT, scanning is performed on five surfaces of the EUT. After testing, It was observed that the smartphone's battery level stood at 10% upon detection, the electric field value measured on top is the highest. Therefore, curve fitting test is conducted on the worst top.

7.3 Fitting analysis

The purpose of this part is to compare the fitting performance of different mathematical models on the given data. We will attempt to fit a set of experimental data using eighth degree polynomial, seventh degree polynomial, Sixth degree polynomial, Fifth degree polynomial, Fourth degree polynomial, Cubic polynomial, and determine the model that best describes the data by comparing the goodness of fit of each model and the fitting function parameters.

7.4 Model Selection and Fitting

The calculation formula of the polynomial model is as follows:

- 1) Quadratic polynomial model: $y = ax^2 + bx^1 + c$
- 2) Cubic polynomial model: $y = ax^3 + bx^2 + cx^1 + d$
- 3) Quartic polynomial model: $y = ax^4 + bx^3 + cx^2 + dx + e$
- 4) Quintic polynomial model: $y = ax^5 + bx^4 + cx^3 + dx^2 + ex + f$
- 5) Sextic polynomial model: $y = ax^6 + bx^5 + cx^4 + dx^3 + ex^2 + fx + g$
- 6) Septic polynomial model: $y = ax^7 + bx^6 + cx^5 + dx^4 + ex^3 + fx^2 + gx + h$
- 7) Octic polynomial model: $y = ax^8 + bx^7 + cx^6 + dx^5 + ex^4 + fx^3 + gx^2 + hx + i$

Fitting Results and Analysis

Based on the computational results, we obtained the fitting functions and associated parameters for each model. Additionally, we generated comparison plots showing the fitting curves of all models alongside the original data, as well as separate comparison plots for each model showing the fitting curves and data, which can be seen from figure 1 to figure 3.



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115KHz, Mode 04 (25W)

Test Distance (mm)	E-field(V/m) EUT +mobile phone (battery status: <10%)	H-field(A/m) EUT +mobile phone (battery status: <10%)
60	7.01	0.33
70	5.20	0.29
80	4.13	0.26
90	3.35	0.22
100	2.26	0.2
110	2.13	0.17
120	1.71	0.13
130	1.50	0.11
140	1.25	0.09
150	0.83	0.07
160	0.74	0.05
170	0.35	0.04
180	0.15	0.03
190	0.09	0.02
200	0.03	0.02

Model Selection

We use Three regression techniques to validate their model errors.



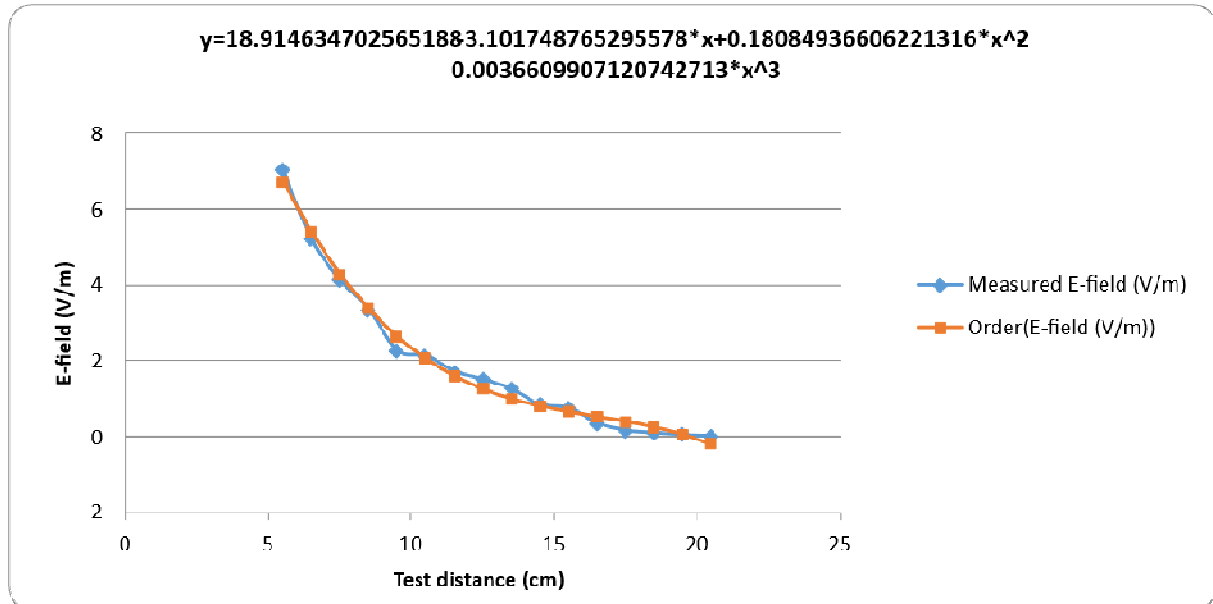
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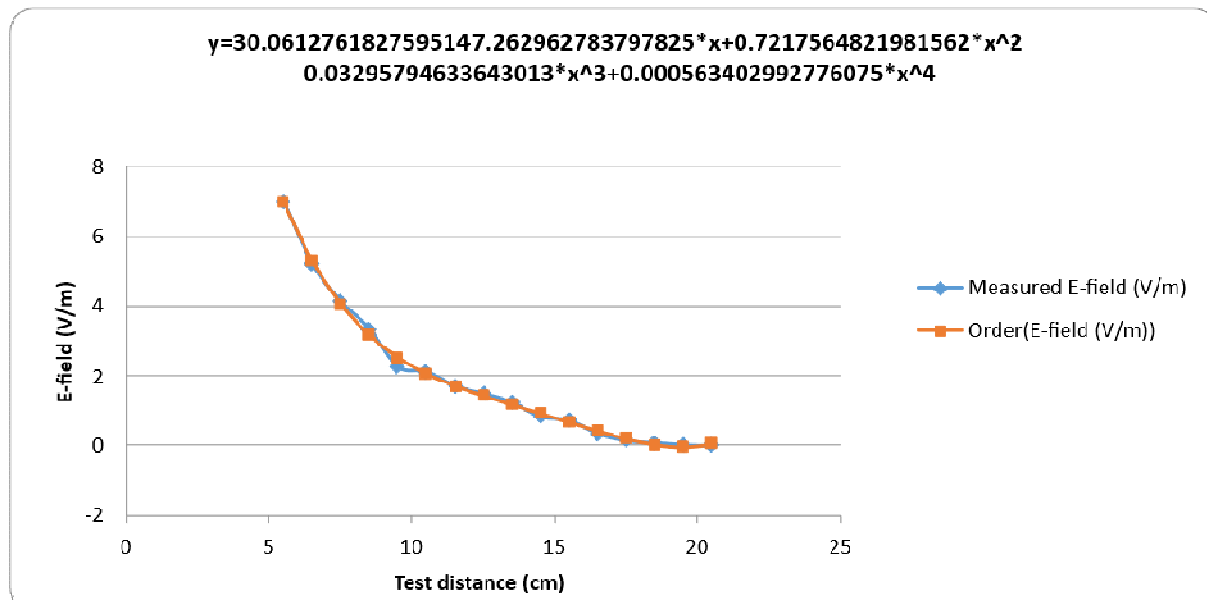
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E-field

Model 1: Cubic Regression



Model 2: Quartic Regression



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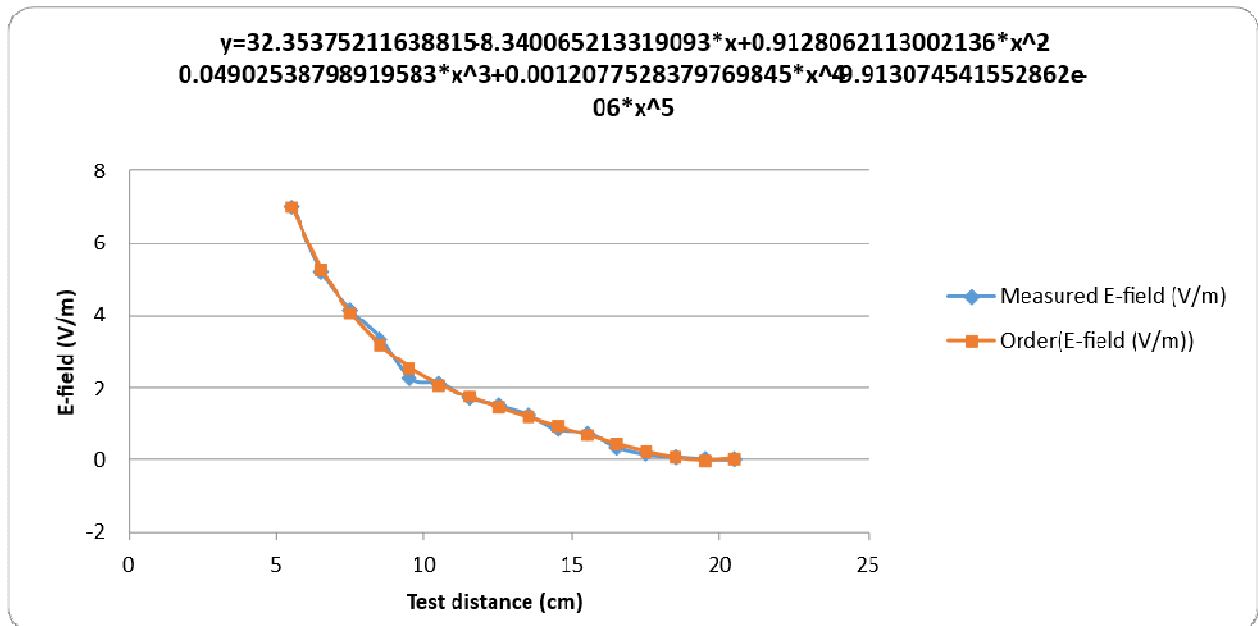
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Model 3: Quintic Regression



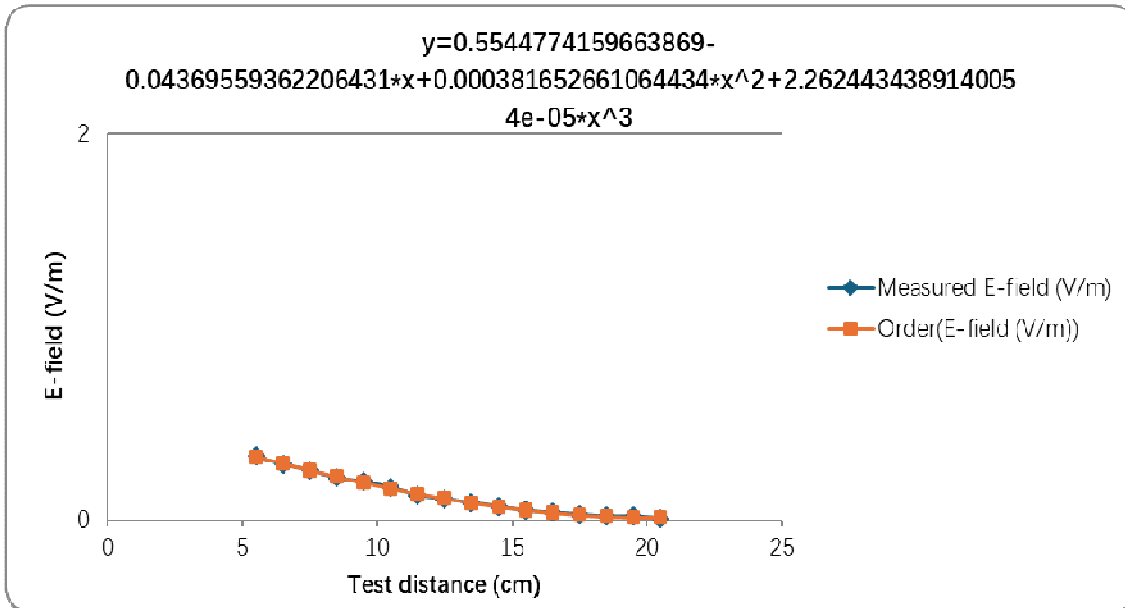
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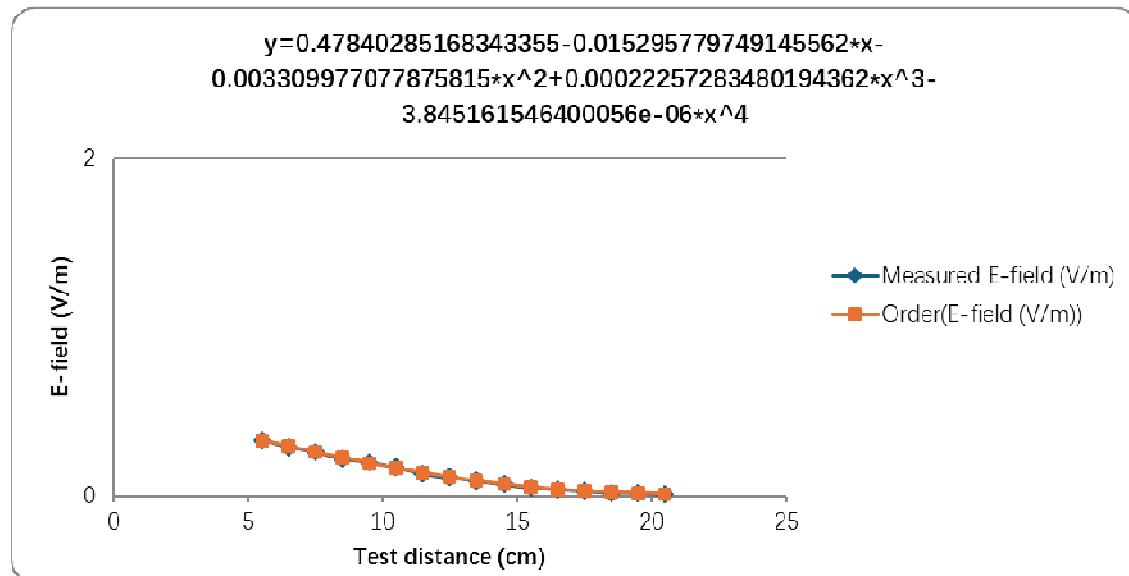
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H-field

Model 1: Cubic Regression



Model 2: Quartic Regression



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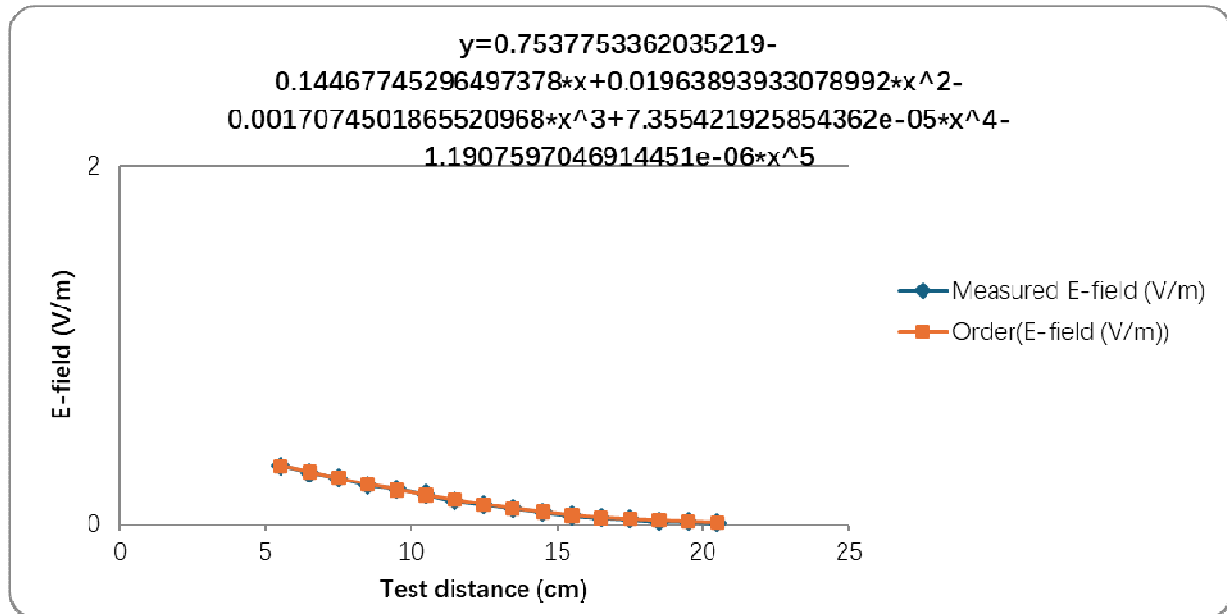
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Model 3: Quintic Regression



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Analyzing Results

After completing the 3 regression models, we compared the output of each model, as is shown in table below:

Comparison of the data from the 3 regression models

E-feild			
Parameter	Polynomial Model		
	Cubic	Quartic	Quintic
Multiple R	0.995198	0.998681	0.998696
R Square	0.990418	0.997363	0.997394
Adjusted R Square	0.988023	0.996404	0.996091
Standard Error (S)	0.224591	0.123064	0.128302
Number of data points used	15	15	15
Estimated electric field strength at touch position (V/m)	18.91463	30.06128	32.35375
Limit(V/m)	614	614	614



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H-field			
Parameter	Polynomial Model		
	Cubic	Quartic	Quintic
Multiple R	0.999332	0.999394	0.99948
R Square	0.998665	0.998788	0.99896
Adjusted R Square	0.998331	0.998347	0.998441
Standard Error (S)	0.004294	0.004273	0.00415
Number of data points used	15	15	15
Estimated magnetic field strength at touch position (A/m)	0.554477	0.478403	0.753775
Limit(A/m)	1.63	1.63	1.63

Note: The regression analysis was performed at a 95% confidence level - the minimum threshold applicants are required to adopt - with curve-fitting techniques applied for model construction and relevant computations.



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360KHz, Mode 03 (15W)

Test Distance (mm)	E-field(V/m) EUT +mobile phone (battery status: <10%)	H-field(A/m) EUT +mobile phone (battery status: <10%)
60	4.95	0.32
70	3.27	0.26
80	2.73	0.23
90	2.07	0.2
100	1.41	0.17
110	1.12	0.13
120	0.85	0.11
130	0.74	0.09
140	0.68	0.07
150	0.47	0.05
160	0.35	0.04
170	0.23	0.03
180	0.16	0.02
190	0.09	0.01
200	0.06	0.01

Model Selection

We use three regression techniques to validate their mod



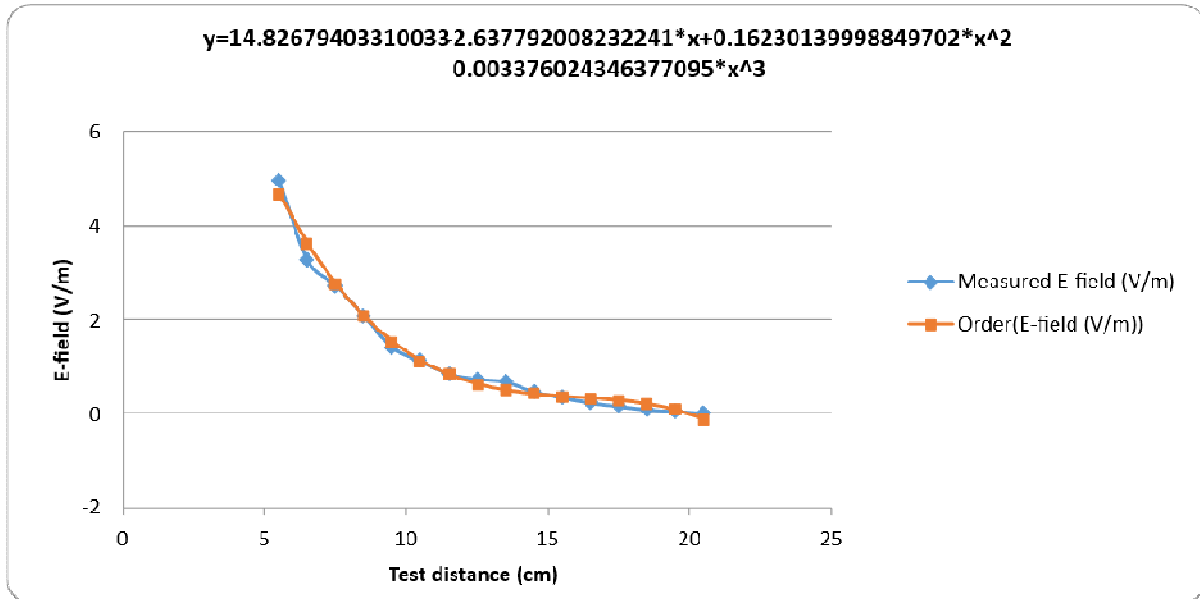
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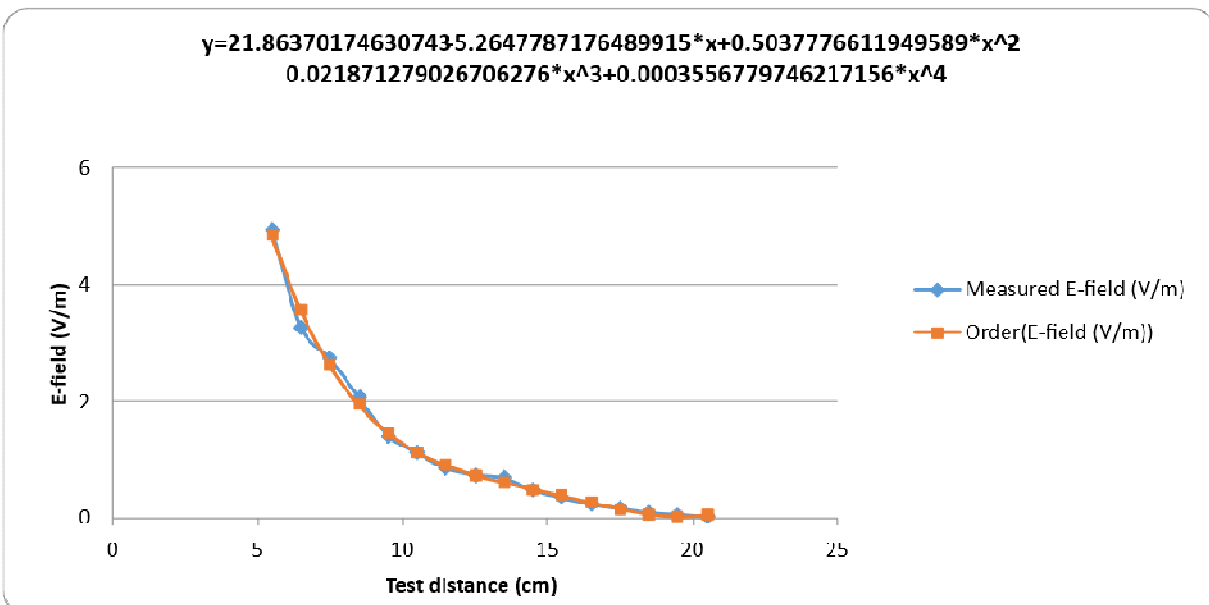
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E-field

Model 1: Cubic Regression



Model 2: Quartic Regression



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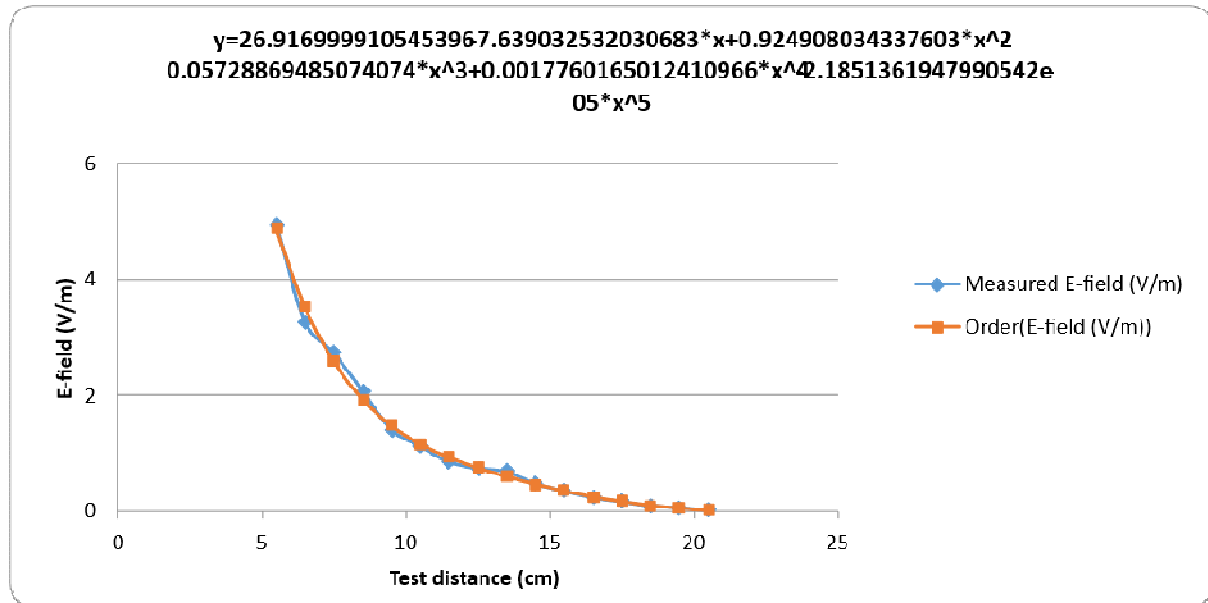
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Model 3: Quintic Regression



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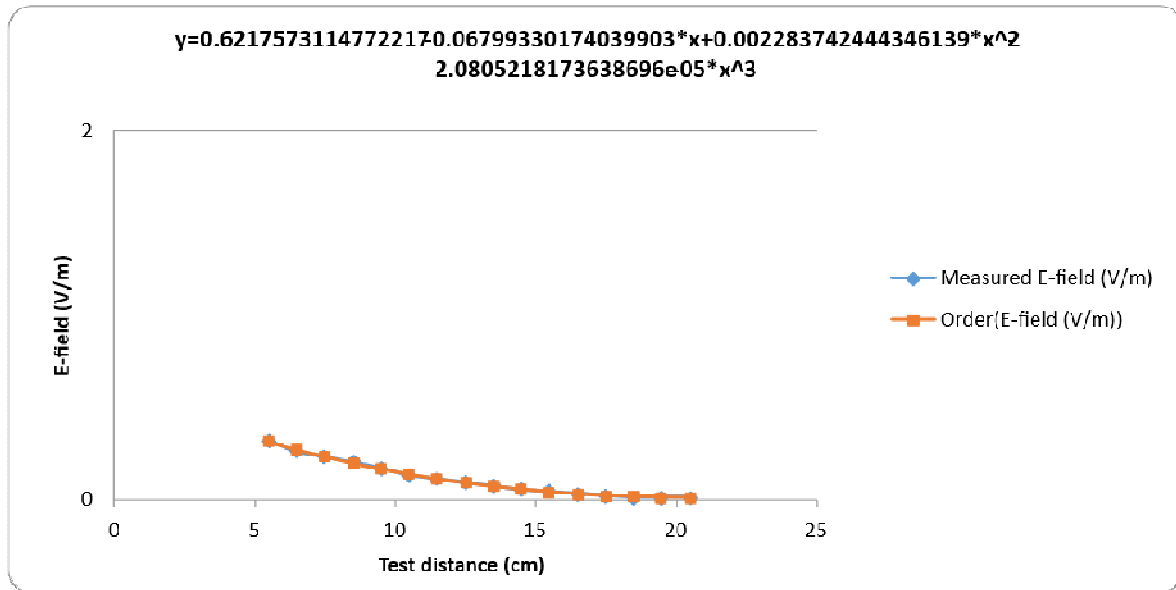
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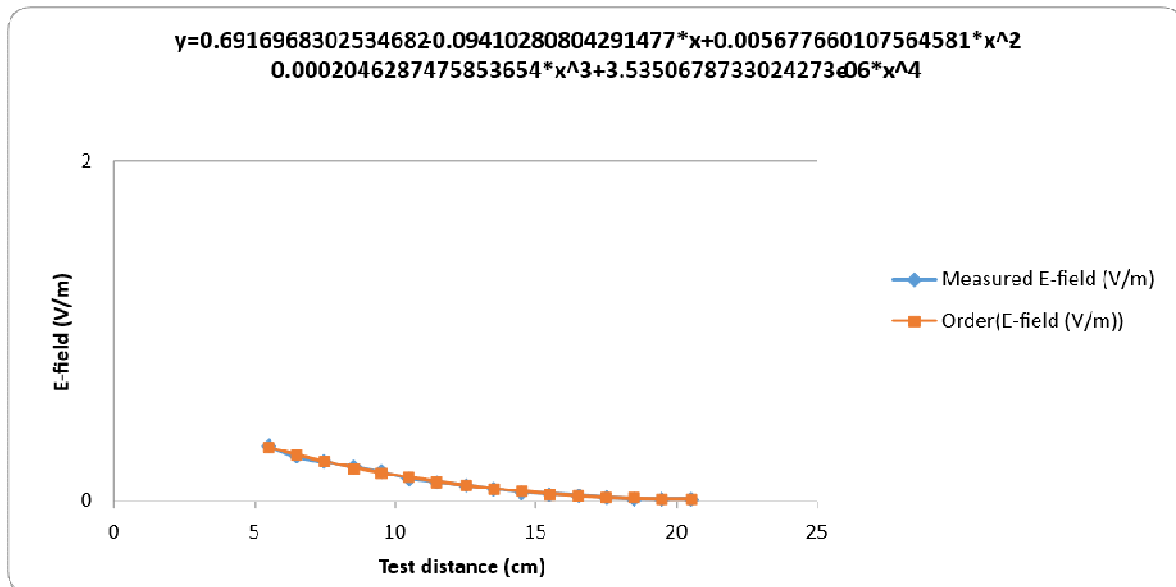
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H-field

Model 1: Cubic Regression



Model 2: Quartic Regression



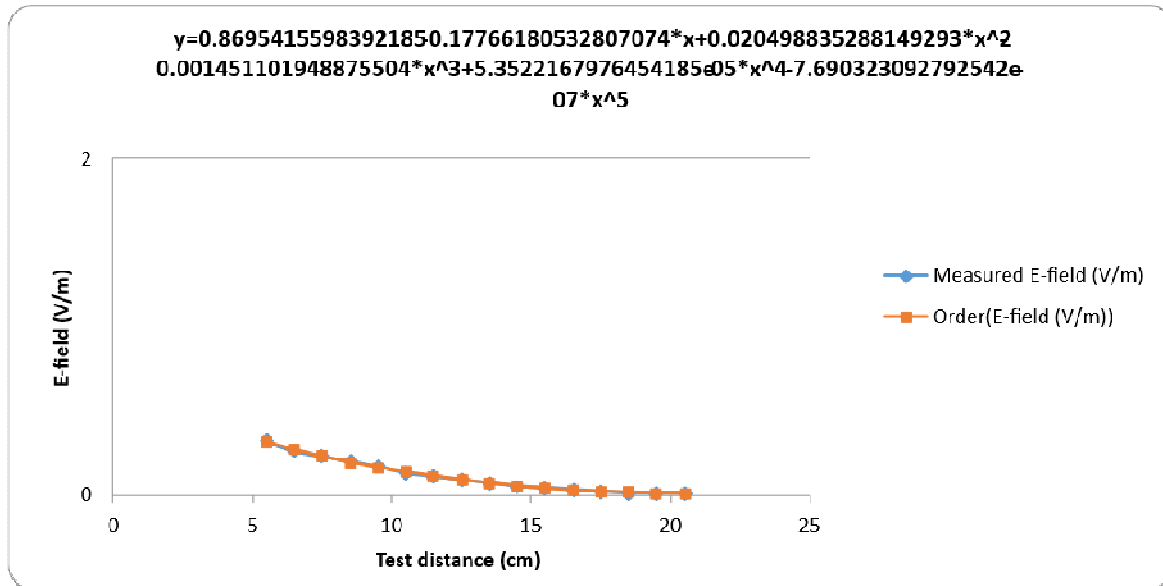
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Model 3: Quintic Regression



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Analyzing Results

After completing the 3 regression models, we compared the output of each model, as is shown in table below:

Comparison of the data from the 3 regression models

E-feild			
Parameter	Polynomial Model		
	Cubic	Quartic	Quintic
Multiple R	0.994572	0.997561	0.997726
R Square	0.989173	0.995129	0.995457
Adjuste R Square	0.986466	0.993358	0.993185
Standard Error (S)	0.162745	0.114013	0.115484
Number of data points used	15	15	15
Estimated electric field strength at touch position (V/m)	14.82679	21.8637	26.917
Limit(V/m)	614	614	614



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H-field			
Parameter	Polynomial Model		
	Cubic	Quartic	Quintic
Multiple R	0.999083	0.999141	0.999945457
R Square	0.998167	0.998284	0.999890917
Adjusted R Square	0.997709	0.997659	0.999781834
Standard Error (S)	0.004756	0.004807	0.035388691
Number of data points used	15	15	15
Estimated magnetic field strength at touch position (A/m)	0.621757	0.691697	0.869542
Limit(A/m)	1.63	1.63	1.63

Note: The regression analysis was performed at a 95% confidence level - the minimum threshold applicants are required to adopt with curve-fitting techniques applied for model construction and relevant computations.

Max. E-field and H-field of Test Result

Test Mode	Max. E-field (V/m)	Limit E-field(V/m)	Max. H-field(A/m)	Limit H-field(A/m)
04 (25W) 115kHz	30.06	614	0.754	1.63
03 (15W) 360kHz	21.86	614	0.870	1.63



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8 Test Setup Photos

Refer to Appendix - Test Setup Photo for FYCR2607000221AT

- End of the Report -



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