



**TEST REPORT
FOR
IEC 61643-1 (7.5.3)
(SURGE IMMUNITY TEST)**

Report No.: 10-09-MAS-042-04-R

Client: JD Auspice Co., Ltd.
Product: DC Surge Protective Device for PV
Model No.: PV40/500-MVCR
Comment Issues: N/A
Manufacturer/supplier: JD Auspice Co., Ltd.

Date test item received: 2010/04/19
Date test campaign completed: 2010/04/21
Date of first issue(10-04-MAS-142-03): 2010/04/23
Date of issue: 2010/09/09

The test result only corresponds to the tested sample. It is not permitted to copy this report, in part or in full, without the permission of the test laboratory.

Total number of pages of this test report: 10 pages

Test Engineer

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- ① ISO9001: TÜV Product Service
- ② ISO/IEC 17025: BSMI, CNLA, DGT, NVLAP, CCIBLAC, UL, Compliance
- ③ Filing: FCC, Industry Canada, VCCI
- ④ MRA: Australia, Hong Kong, New Zealand, Singapore, USA, Japan, Korea, China, APLAC through CNLA
- ⑤ FCC Registration Number: 90588, 91094, 91095

SURGE IMMUNITY TEST

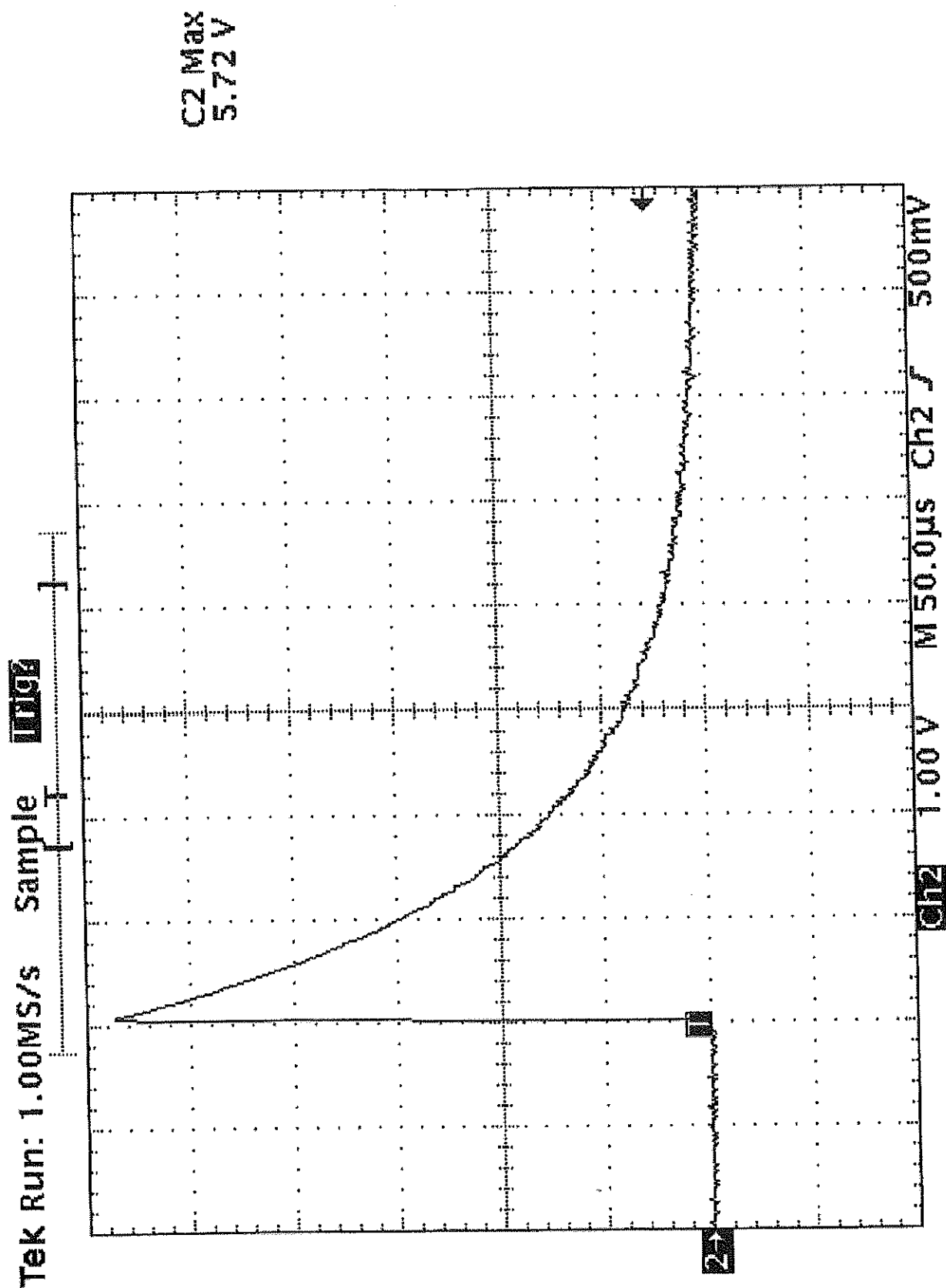
Test Date: Apr. 21, 2010

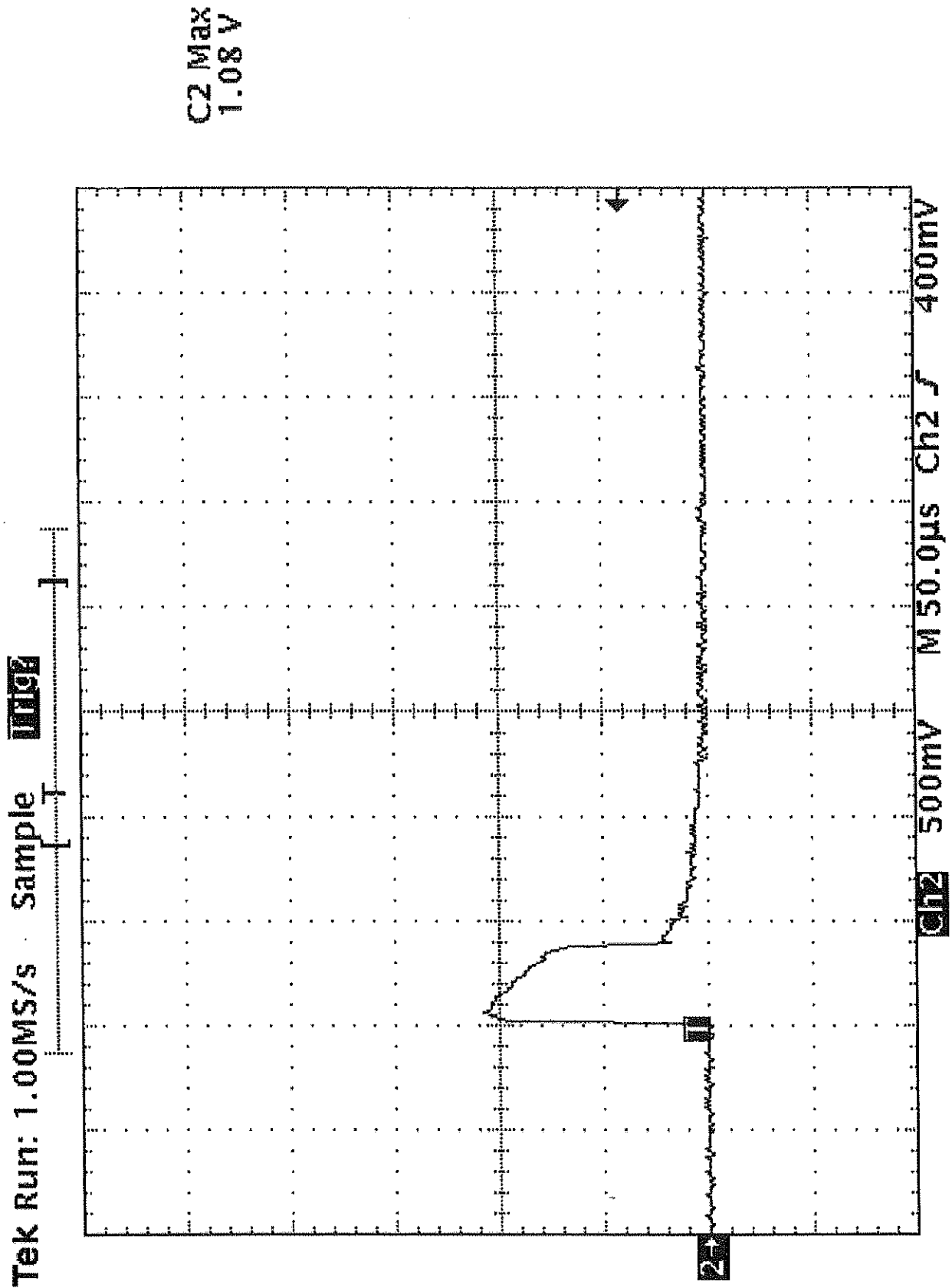
Test Specification	IEC61643-1 (7.5.3)	
Test Equipment		
Lightning Surge Simulator \ Noiseken \ LSS-15AX Voltage Probe \ Tektronix \ P6015A Oscilloscope \ Tektronix \ TDS784A		
Climatic Condition	Ambient Temperature: <u>23</u> °C Relative Humidity: <u>59</u> %RH	
	Atmospheric Pressure: <u>995</u> mbar	
Test Set-up	Table-top Equipment	
Operating Conditions of The Device		Static Mode

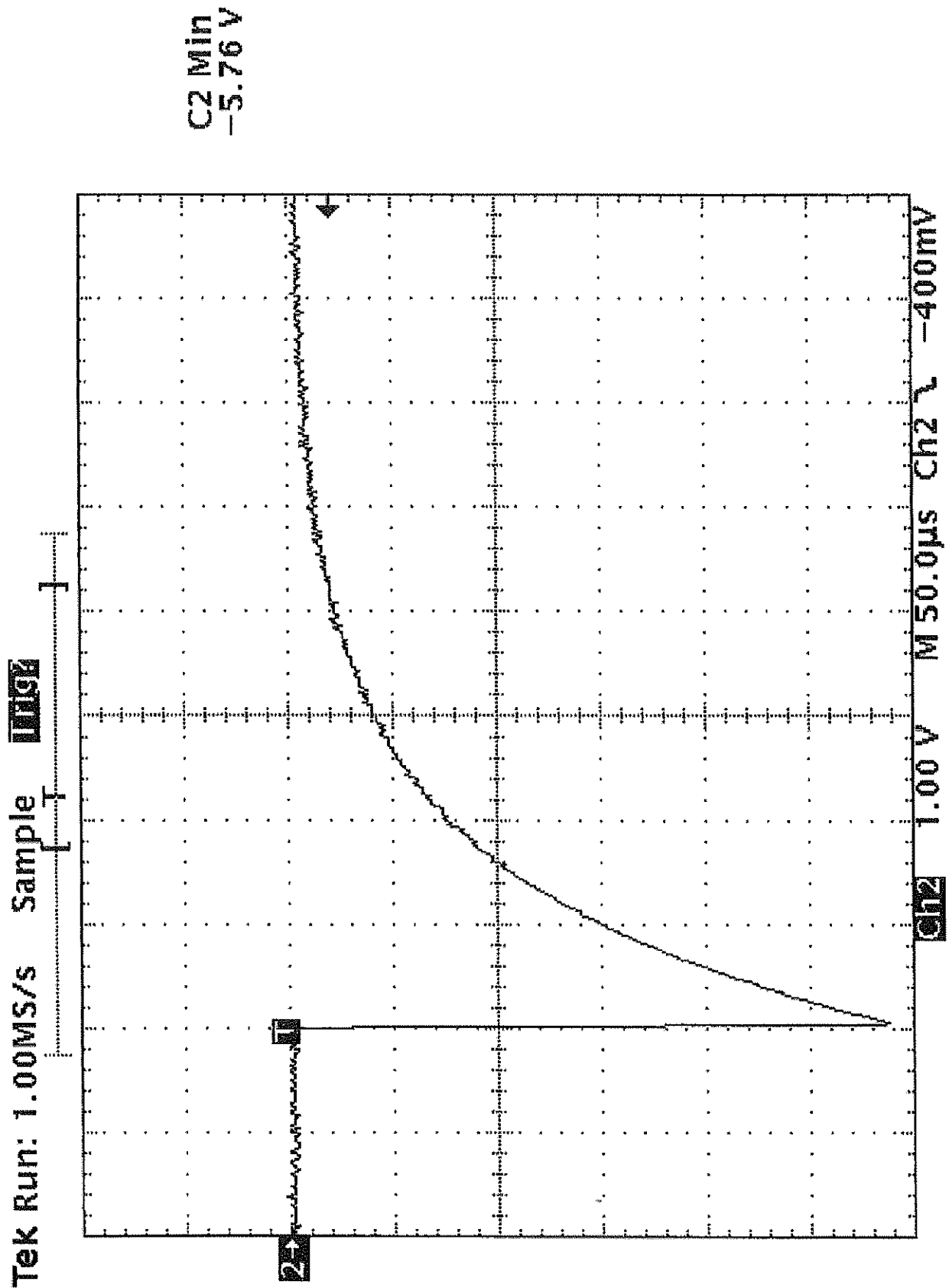
Waveform: 1.2/50 μ s(8/20 μ s)		Repetition rate: <u>60</u> sec	Times: <u>5</u> times/each condition
\Mode \Voltage \Polarity \Result		Surge HOT: Device Input	Surge COM: Device Output
6.0 kV	+	A	
	-	A	
0.9kV ~ 15.0 kV Step:10% increase	+	A	
	-	A	

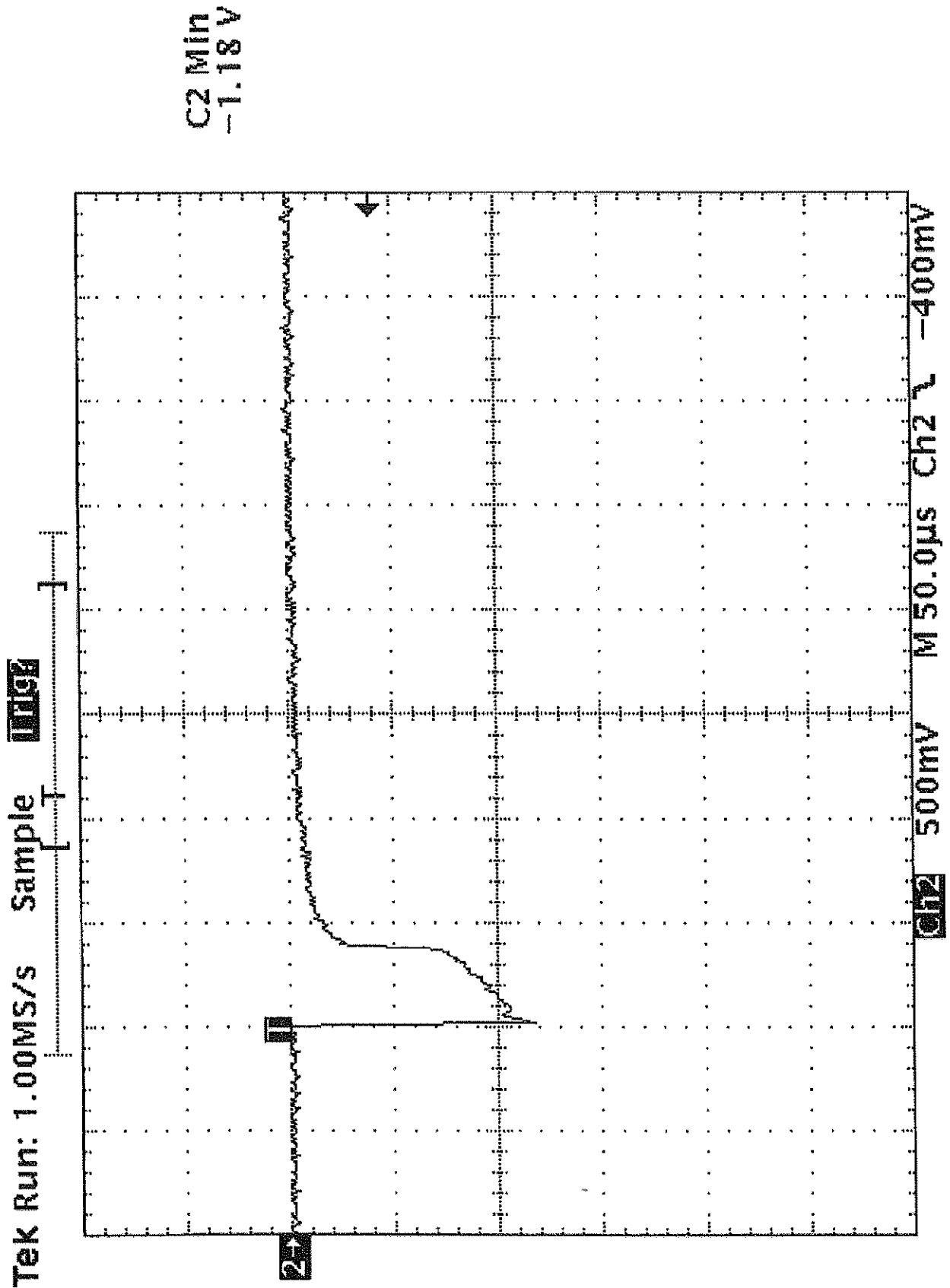
Note: "A" means the EUT function was correct during the test.

Test Voltage: +6kV Waveform (Normal)



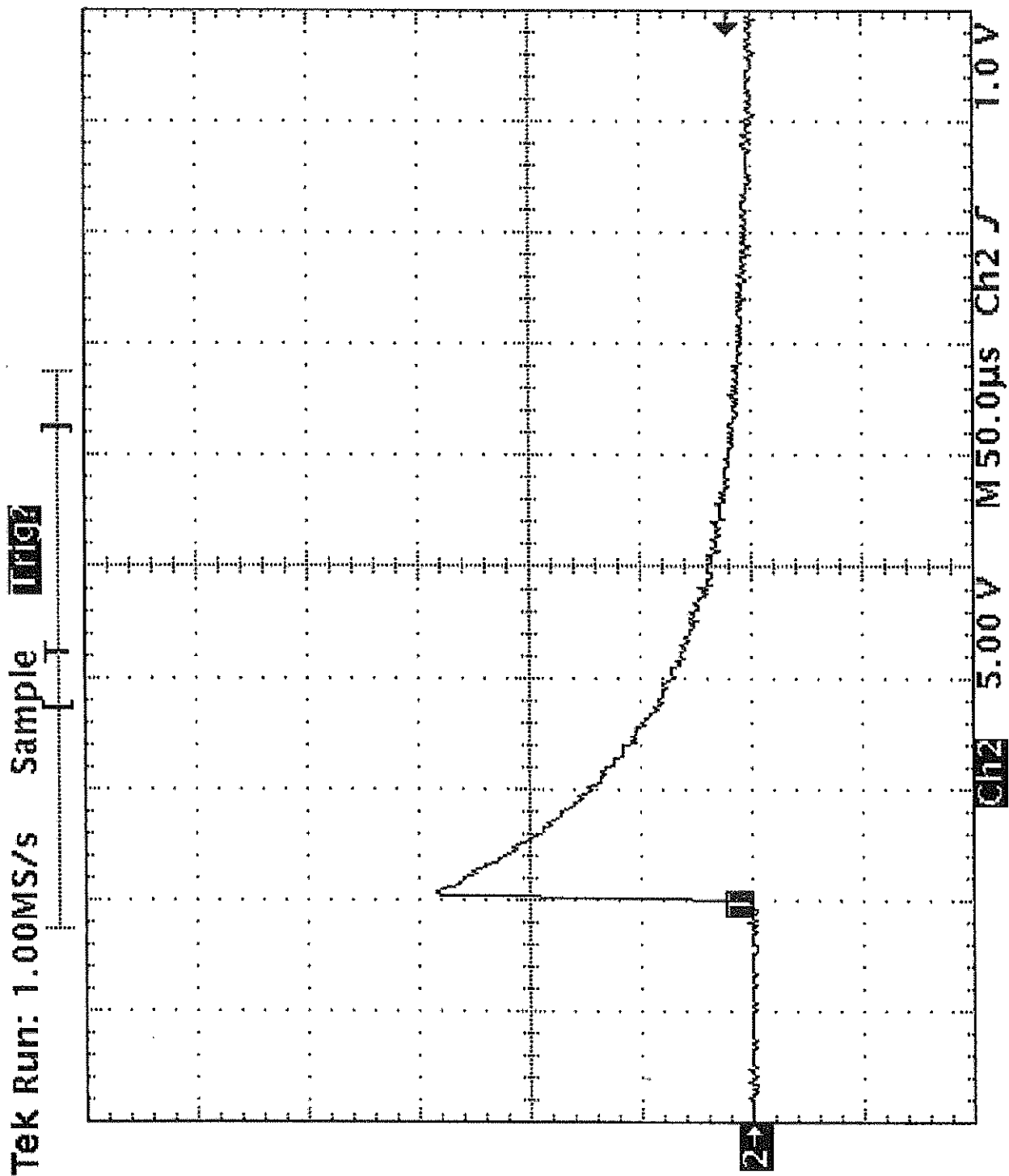
Test Voltage: +6kV (Device Parallel)

Test Voltage: -6kV Waveform (Normal)

Test Voltage: -6kV (Device Parallel)

Test Voltage: +15.0 kV Waveform (Normal)

C2 Max
14.2 V





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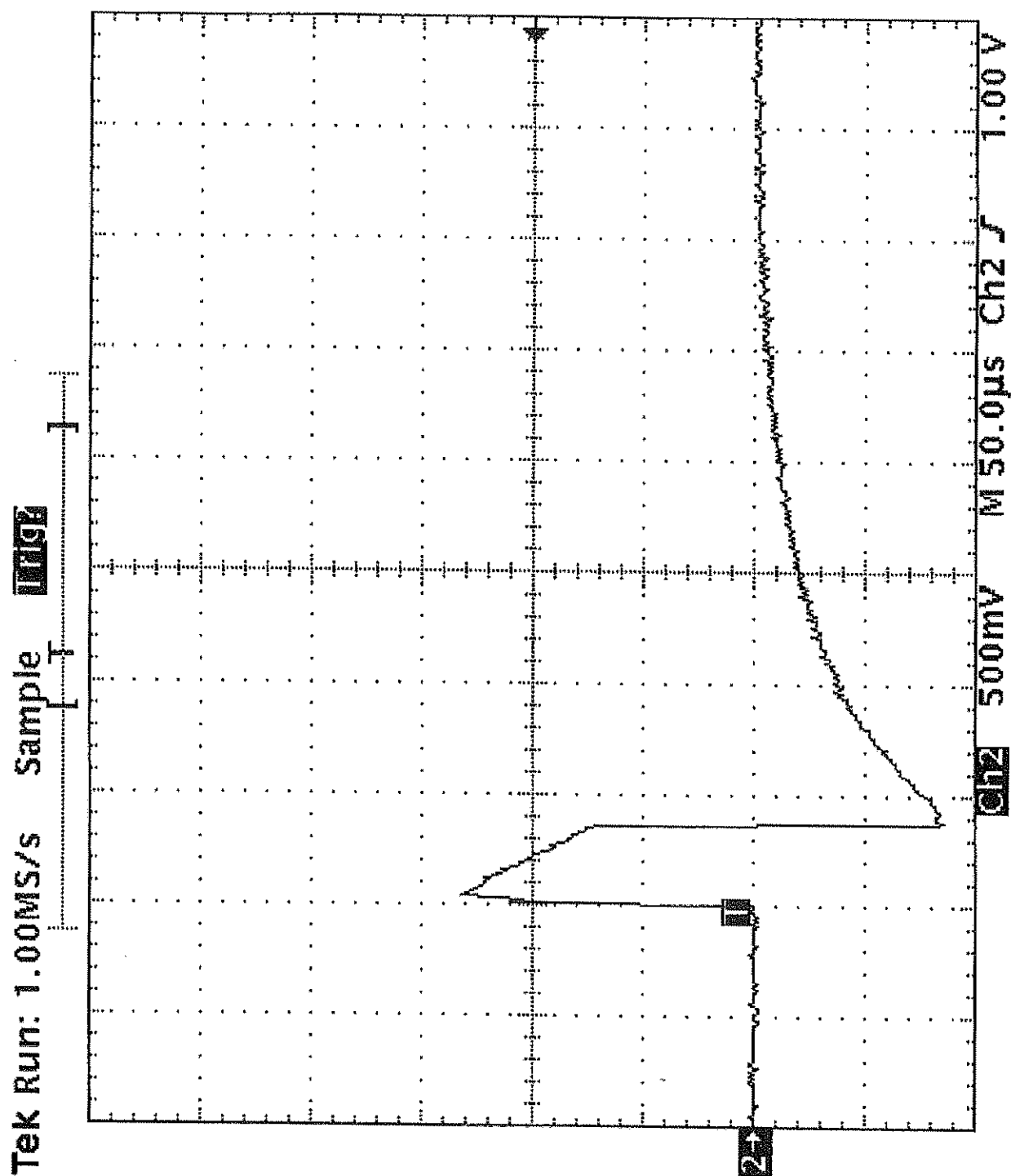
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EMC TESTING DEPARTMENT

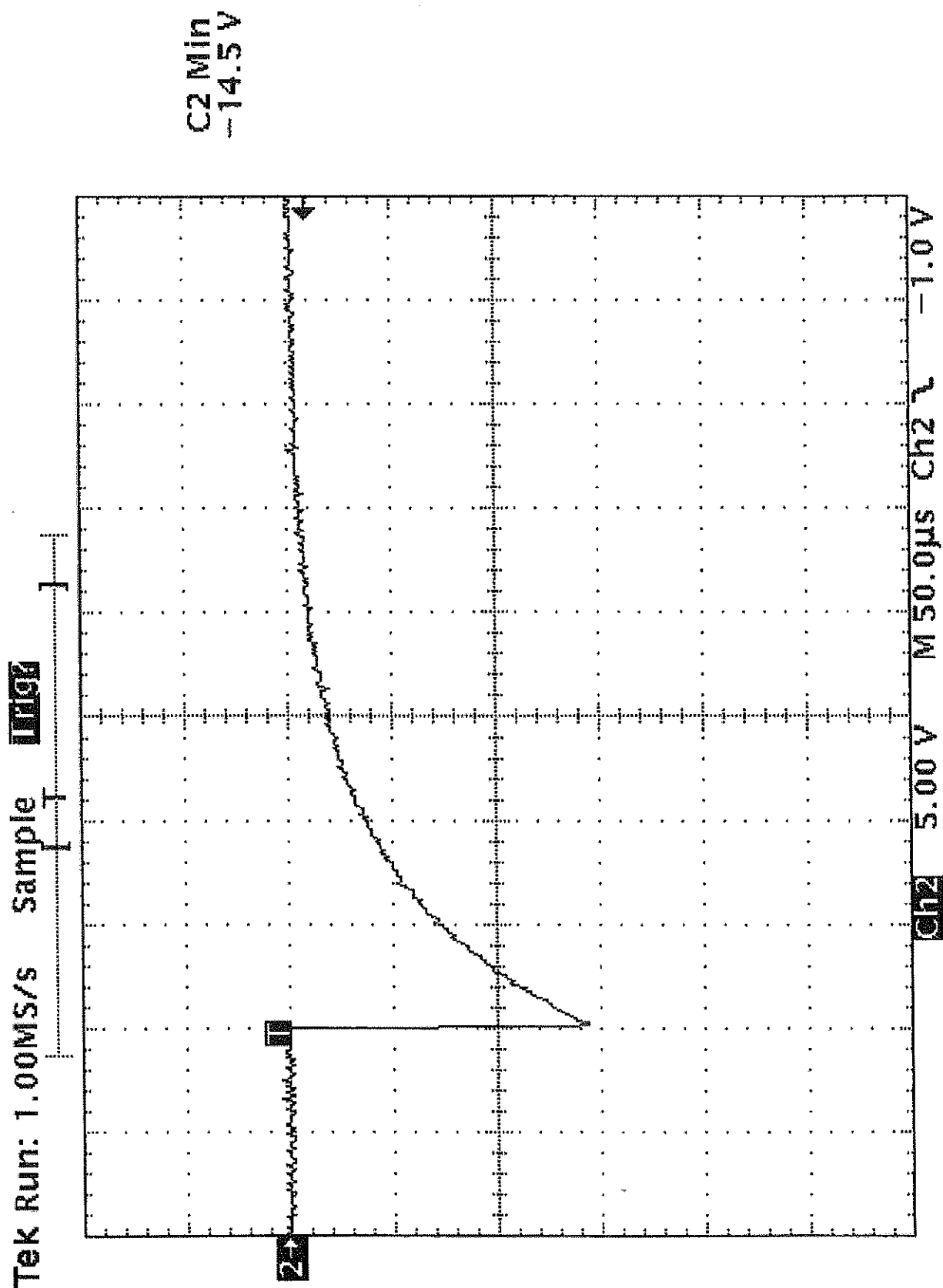
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Test Voltage: +15.0 kV (Device Parallel)

C2 Max
1.32 V



Test Voltage: -15.0 kV Waveform (Normal)



Test Voltage: -15.0 kV (Device Parallel)

