

Engineering Report 61179-1**AC Power Input Tests**

for

Lind Electronic Design Co., Inc.**Prepared by**

Jenelle S. Gullickson, Lead Technical Writer**Approved by**

Erik J. Borgstrom, EMI Department Manager

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Revision history

Revision	Total pages	Date	Description
--	353	October 29, 2020	Original

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1.0 Administrative data

Prepared for	Lind Electronic Design Co., Inc. 14850 Deveau Place Minnetonka, MN 55345
Attention	Jay Aigner
Test performed	AC Power Input Tests
Test facility	Element Materials Technology 9725 Girard Avenue South Minneapolis, MN 55431
Item(s) tested	ACMIL1950-ZZZZ
Part number(s)	ACMIL1950-5320
Serial number(s)	N/A
Primary specification(s)	MIL-HDBK-704-6, dated April 9, 2004
PO number	45531-1
Purchase date	9/18/2020
Element test report number	61179-1
Project start date	9/29/2020
Project completion date	10/9/2020
Test report completion date	10/29/2020
As received	This document describes procedures and results of testing performed to the specification(s) and/or requirement(s) detailed herein. The results described in this report relate only to the specific items as received and tested.
Decision rule	Based upon the type of testing being categorized as CAT I (Quantitative or Semi-Quantitative) as defined in A2LA's P103 Policy on Estimating Measurement Uncertainty for Testing Laboratories, decision rules are not required.

2.0 Instrumentation, procedure, and results

2.1 Instrumentation

All instrumentation is calibrated regularly by instruments directly traceable to the National Institute of Standards and Technology, and in accordance with *ANSI/NCSL Z540.1*, *ANSI/NCSL Z540.3-2006*, and *ISO/IEC 17025: 2017*.

Table 2-1: Instrumentation list

Equipment Number	Description	Manufacturer	Model Number	Last Calibration	Due Calibration	Range
210-059	Digital Multimeter	Fluke	189	2/12/2020	2/12/2021	50 Vdc; 500Ω; 400 mA
230-098	Current Probe	Pearson Electronics	411	8/23/2019	8/23/2021	1 Hz to 20 MHz
230-121	Current Probe	Yokogawa	701933	7/28/2020	7/28/2021	dc to 500 MHz; 0 to 30 A(rms)
290-015	Micro-ohmmeter	Keithley	580	3/4/2020	6/8/2021	10 μΩ to 200 kΩ
310-036	Arbitrary Waveform Generator	Tektronix	AWG2021	N/A	N/A	dc to 50 MHz
310-085	Waveform Generator	AE Techron	3110	N/A	N/A	dc to 300 kHz
310-094	Arbitrary Waveform Generator	Agilent	33220A	4/8/2020	4/8/2021	dc to 20 MHz
350-153	Audio Power Amplifier	AE Techron	7782	N/A	N/A	dc to 100 kHz
350-176	Audio Power Amplifier	AE Techron	7224	N/A	N/A	dc to 300 kHz
360-060	Power Analyzer	Yokogawa	PX8000	4/16/2020	5/14/2021	dc to 20 MHz
380-647	AC Power Source	Pacific Power Source	345ASX-UPC3/G	N/A	N/A	15 Hz to 1.2 kHz; 3Ø; 0 to 234 Vac; 4.5kVA
400-058	Stopwatch	Extech Instruments	365510	10/16/2018	10/16/2020	0 to 24 hrs
400-072	Stopwatch	Extech Instruments	365510	11/19/2018	11/19/2020	0 to 24 hrs
455-013	Audio Transformer	Solar Electronics	6220-1A	N/A	N/A	30 Hz to 250 kHz

2.2 Procedure

Support equipment was connected and proper operation was verified in accordance with *MIL-HDBK-704-6*, dated April 9, 2004 and customer instructions.

The test unit was operated and monitored by Element personnel during testing.

2.3 Results

Upon completion of testing, the test unit was found to be compliant with the requirements specified in *MIL-HDBK-704-6*, dated April 9, 2004. Refer to Table 2-2 for a summary of results. Refer to each appendix for data, figures, and photographs.

The test unit was returned to Lind Electronic Design Co., Inc.

Table 2-2: Summary of results

Appendix	Description	Result
Appendix A	SXF101 Load Measurements	Pass
Appendix B	SXF102 and SXF301 Steady State Limits for Voltage and Frequency	Pass
Appendix C	SXF104 Voltage Modulation	Pass
Appendix D	SXF105 Frequency Modulation	Pass
Appendix E	SXF106 Voltage Distortion Spectrum	Pass
Appendix F	SXF107 Total Voltage Distortion	Pass
Appendix G	SXF108 DC Voltage Component	Pass
Appendix H	SXF109 Normal Voltage Transients	Pass
Appendix I	SXF110 Normal Frequency Transients	Pass
Appendix J	SXF201 Power Interrupt	Pass
Appendix K	SXF302 Abnormal Voltage Transients	Pass
Appendix L	SXF303 Abnormal Frequency Transients	Pass
Appendix M	SXF601 Power Failure	Pass
Appendix N	SXF603 Phase Reversal (Single Phase)	Pass

Appendix A: SXF101 Load Measurements



Data sheet

Power Input AC, SXF101 Load Measurements

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF101				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
360-060	Power scope	N/A	380-647	Power supply	X	
210-059	Multimeter	X	230-098	Probe	X	
230-121	Probe	X	290-015	Micro-ohmmeter	X	

Power Input AC, SXF101 Load Measurements Test results					
Test	EUT mode	Nominal voltage	Measurement	Result	Notes
Voltage	Operating	115 Vac	115 Vac	Pass	Figure A-1
Frequency	Operating	115 Vac	60 Hz	Pass	Figure A-1
kVA	Operating	115 Vac	0.1884 kVA	Pass	Figure A-1
Power factor	Operating	115 Vac	0.1469	Pass	Figure A-1
Total current distortion	Operating	115 Vac	115.171%	Pass	Figure A-1
Current spectrum	Operating	115 Vac	N/A	Pass	Figure A-2

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet

Power Input AC, SXF101 Load Measurements

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF101				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

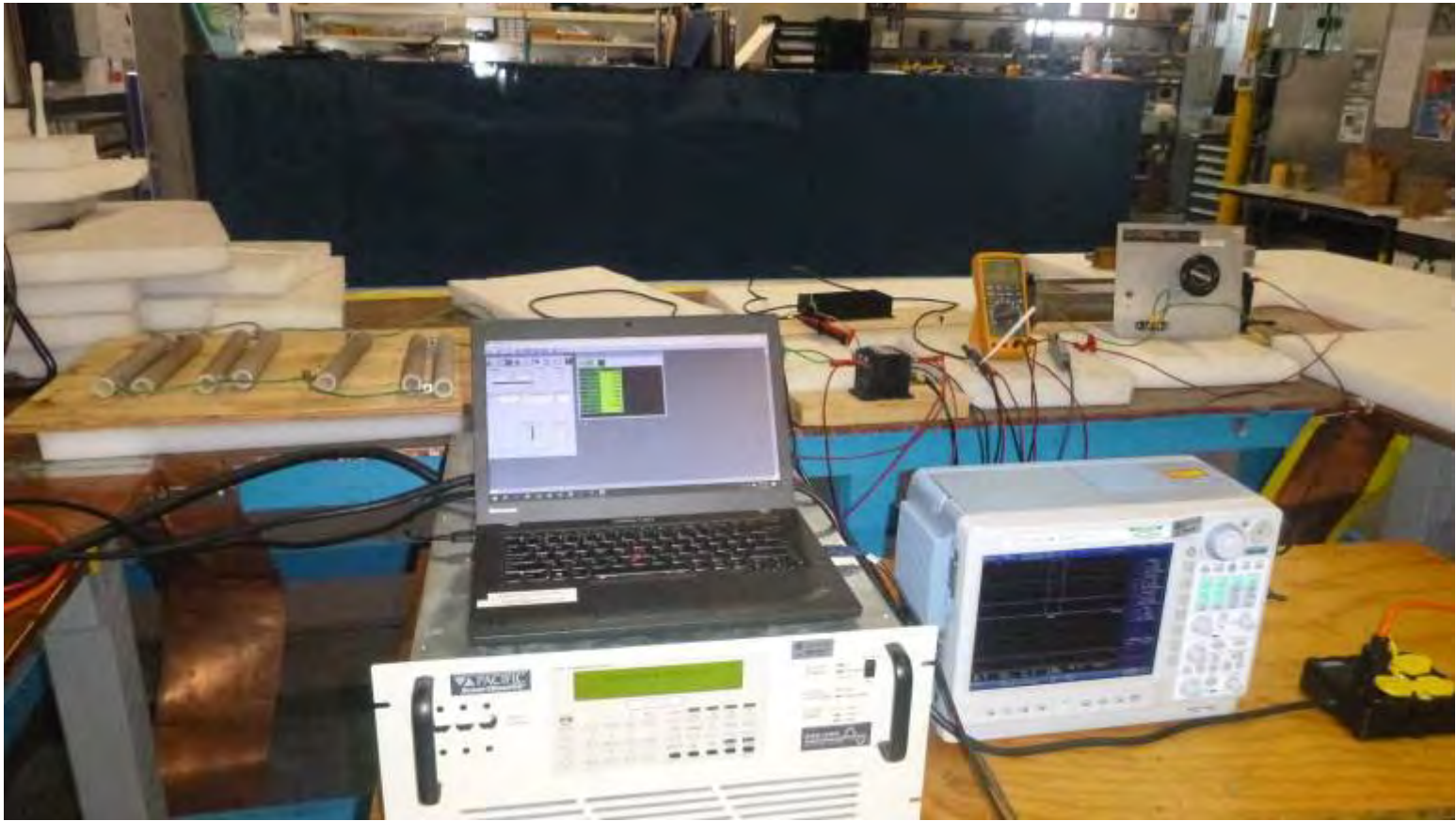


Photograph A-1: EUT identification



Data sheet
Power Input AC, SXF101 Load Measurements

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF101				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



Photograph A-2: Test setup



Data sheet Power Input AC, SXF101 Load Measurements

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF101				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

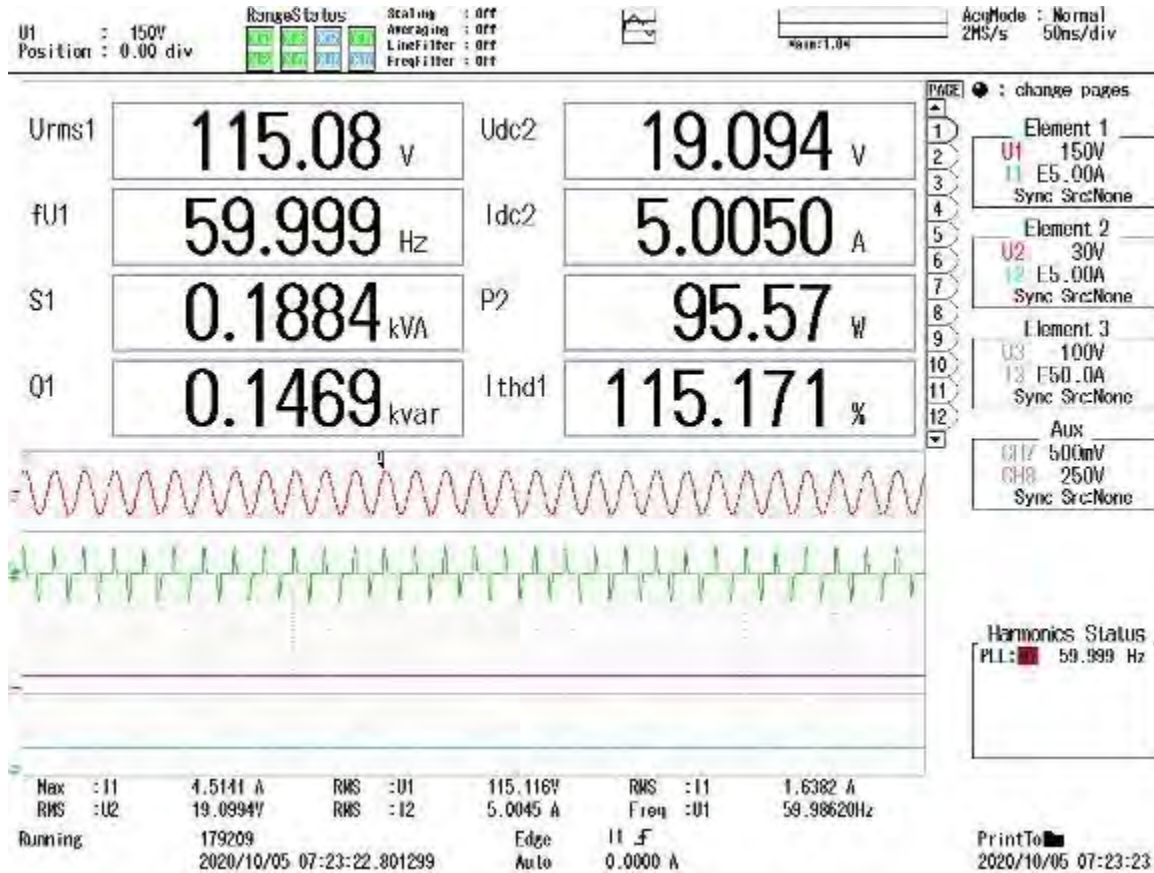


Figure A-1: Inrush current

Scope: Channel 1 = input voltage, Channel 2 = input current (1V = 1A)



Data sheet
Power Input AC, SXF101 Load Measurements

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF101				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

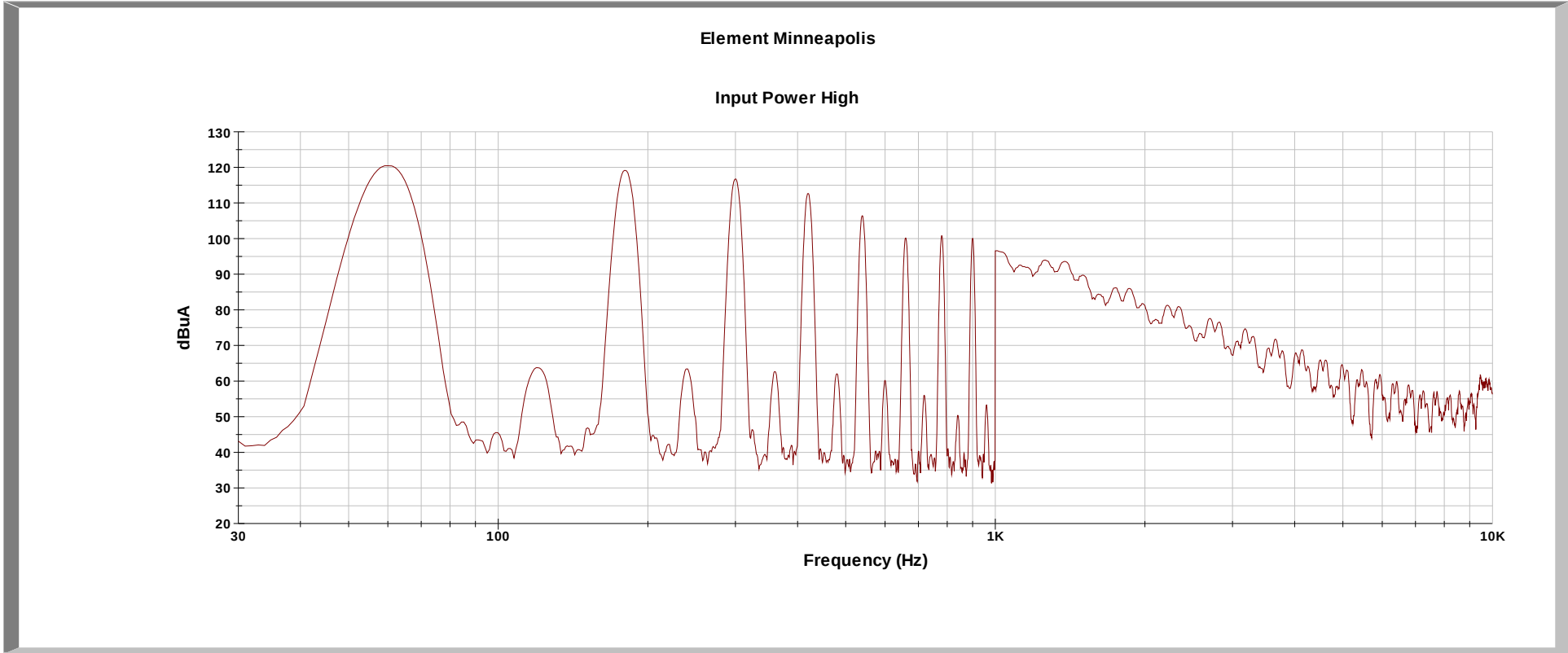


Figure A-2: Current distortion factor

Appendix B: SXF102 and SXF301 Steady State Limits for Voltage and Frequency



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	1 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
380-647	Programmable power source	N/A	360-060	Power analyzer	X	
230-098	Current probe	X	230-121	Current probe	X	
400-058	Stopwatch	X	290-015	Micro-ohmmeter	X	

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage Test results						
Test	EUT mode	Nominal voltage (Vac)	Frequency (Hz)	Interval	Result	Notes
SFX102, Condition A	5A load	115	60	30 min	Pass	Figure B-1
SFX102, Condition B	5A load	115	59.5	30 min	Pass	Figure B-2
SFX102, Condition C	5A load	115	60.5	30 min	Pass	Figure B-3
SFX102, Condition D	5A load	105	60	30 min	Pass	Figure B-4
SFX102, Condition E	5A load	105	59.5	30 min	Pass	Figure B-5
SFX102, Condition F	5A load	105	60.5	30 min	Pass	Figure B-6
SFX102, Condition I	5A load	125	60.5	30 min	Pass	Figure B-7
SFX102, Condition G	5A load	125	60	30 min	Pass	Figure B-8
SFX102, Condition H	5A load	125	59.5	30 min	Pass	Figure B-9
SFX301, Condition A	5A load	115	59.5	30 min	Pass	Figure B-10
SFX301, Condition B	5A load	115	60.5	30 min	Pass	Figure B-11
SFX301, Condition C	5A load	100	60	30 min	Pass	Figure B-12
SFX301, Condition D	5A load	100	59.5	30 min	Pass	Figure B-13
SFX301, Condition E	5A load	100	60.5	30 min	Pass	Figure B-14
SFX301, Condition F	5A load	128	60	30 min	Pass	Figure B-15
SFX301, Condition G	5A load	128	59.5	30 min	Pass	Figure B-16
SFX301, Condition H	5A load	128	60.5	30 min	Pass	Figure B-17

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet
Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	2 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		



Photograph B-1: EUT identification



Data sheet
Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	3 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		



Photograph B-2: EUT setup and cable layout



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	4 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		



Photograph B-3: Test equipment setup



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	5 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

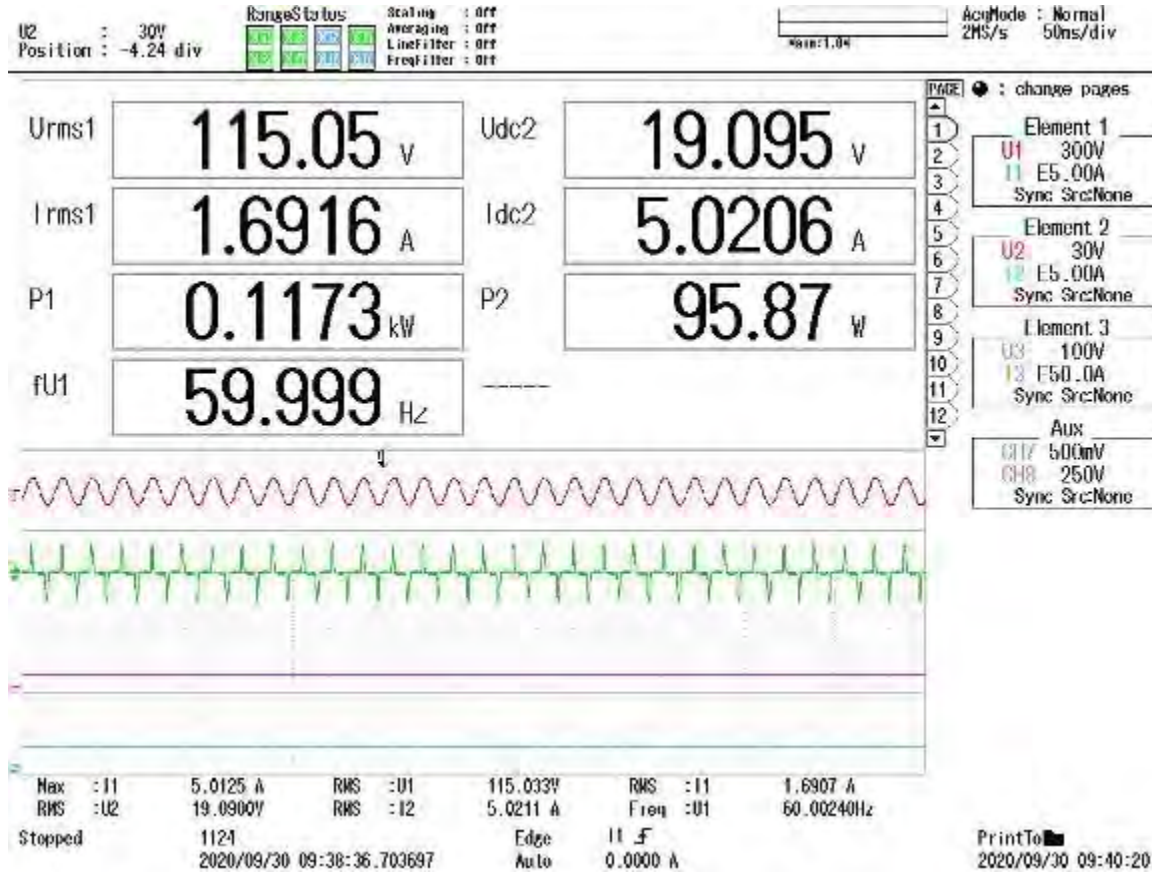


Figure B-1: SXF102, Condition A

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	6 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

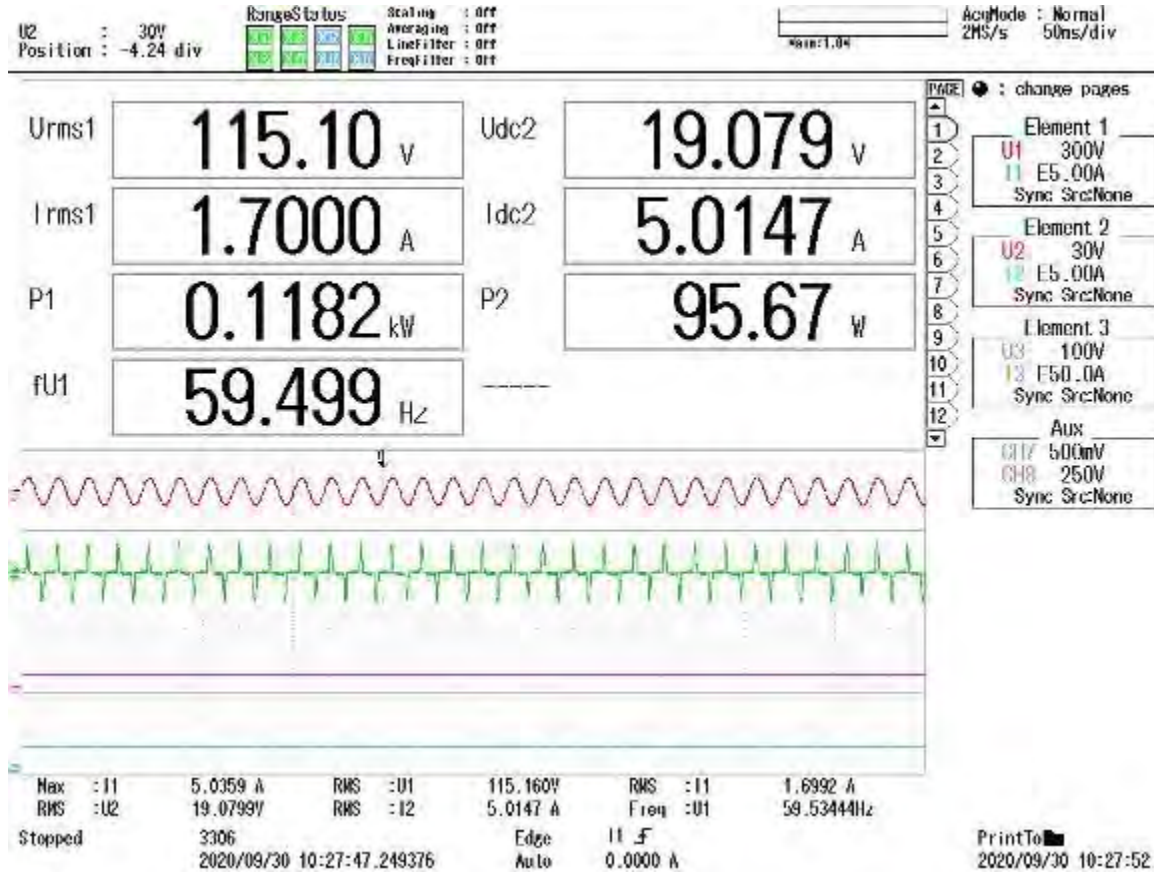


Figure B-2: SXF102, Condition B

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	7 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

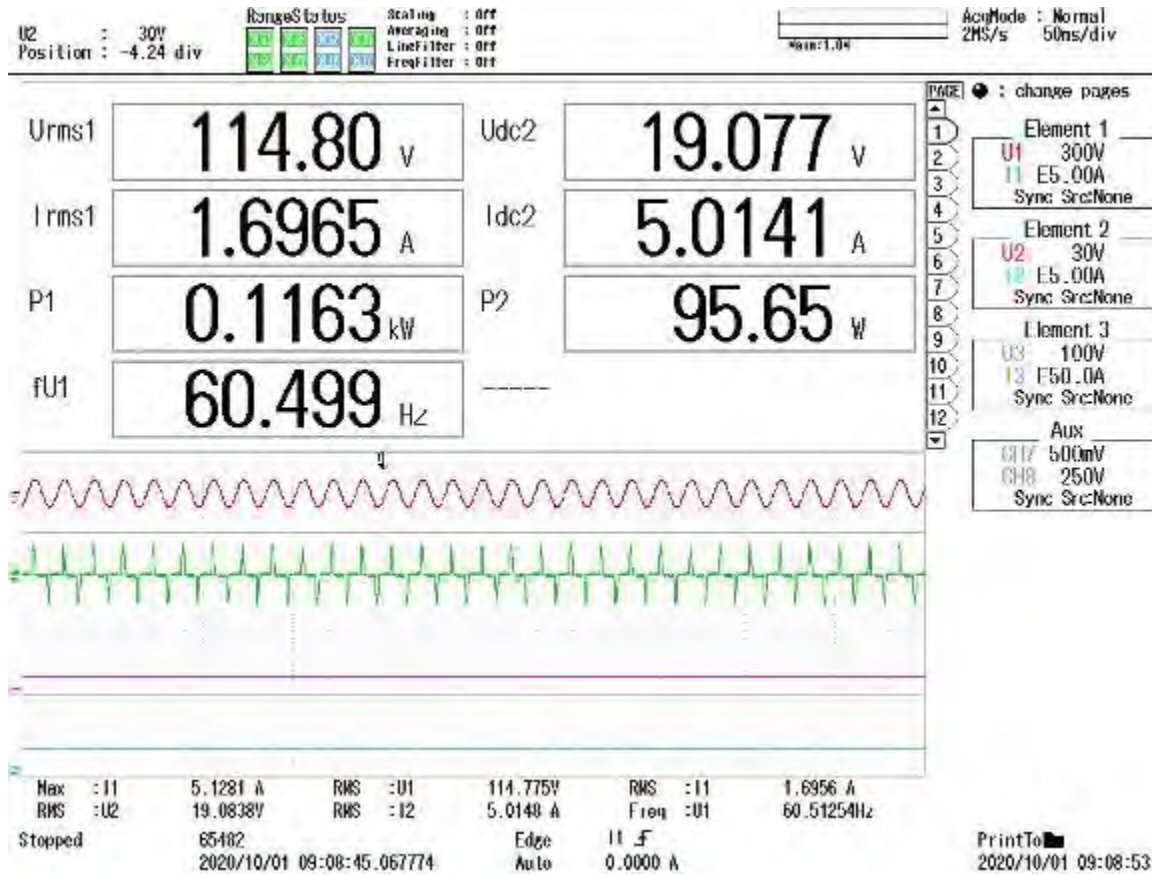


Figure B-3: SXF102, Condition C

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	8 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

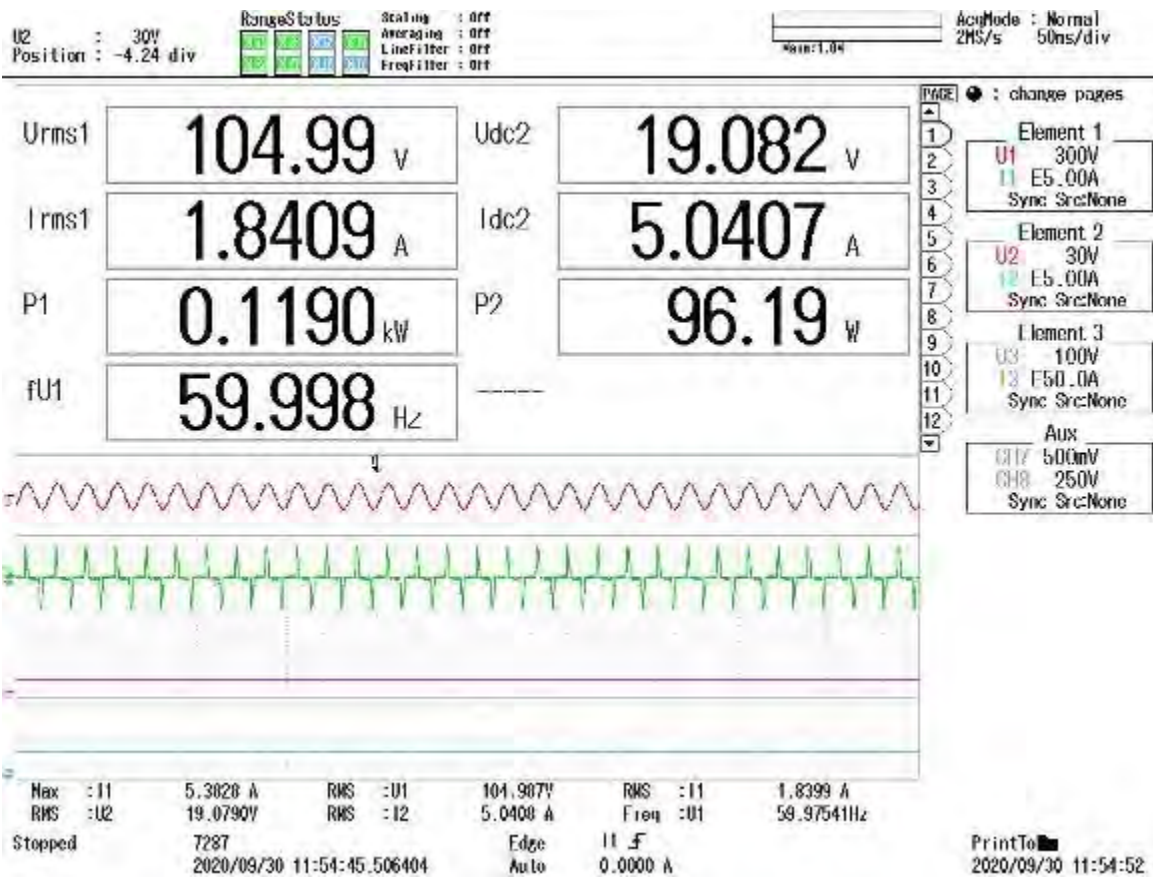
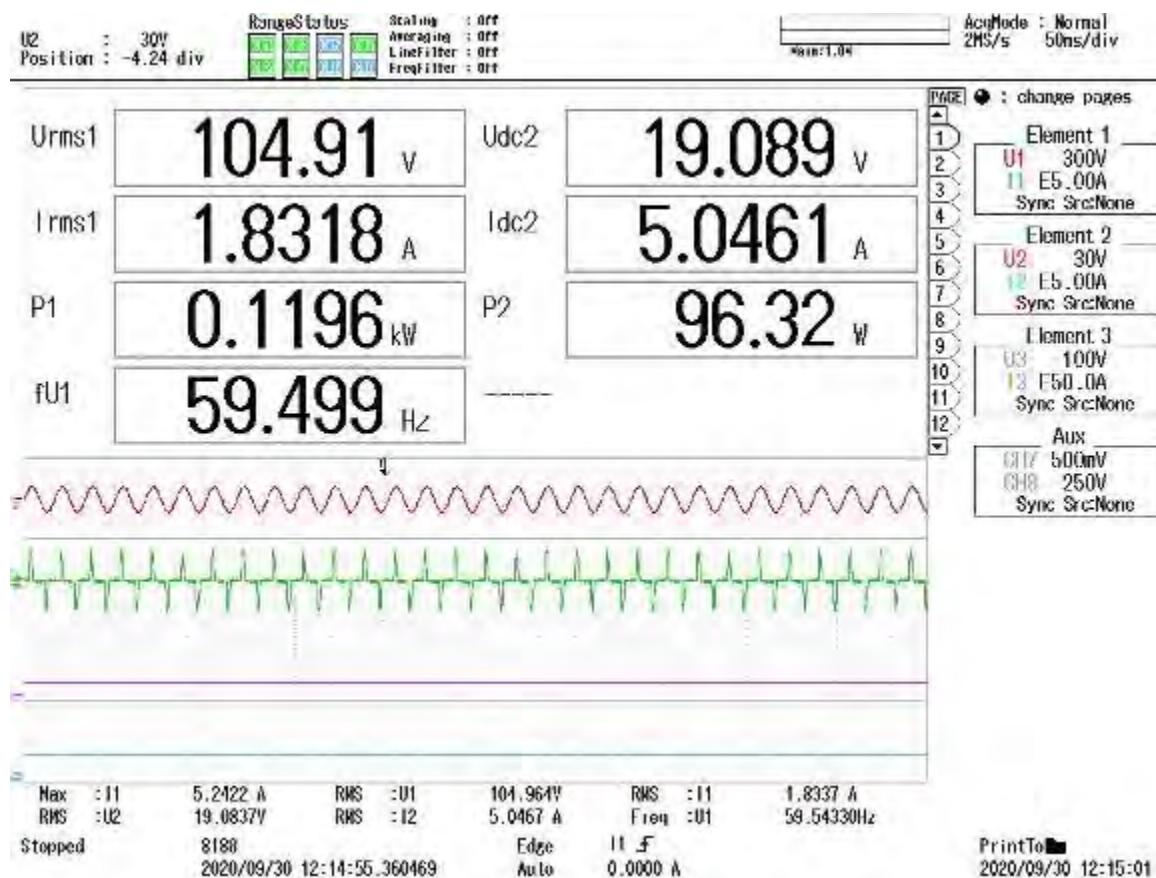


Figure B-4: SXF102, Condition D

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	9 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		



Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	10 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

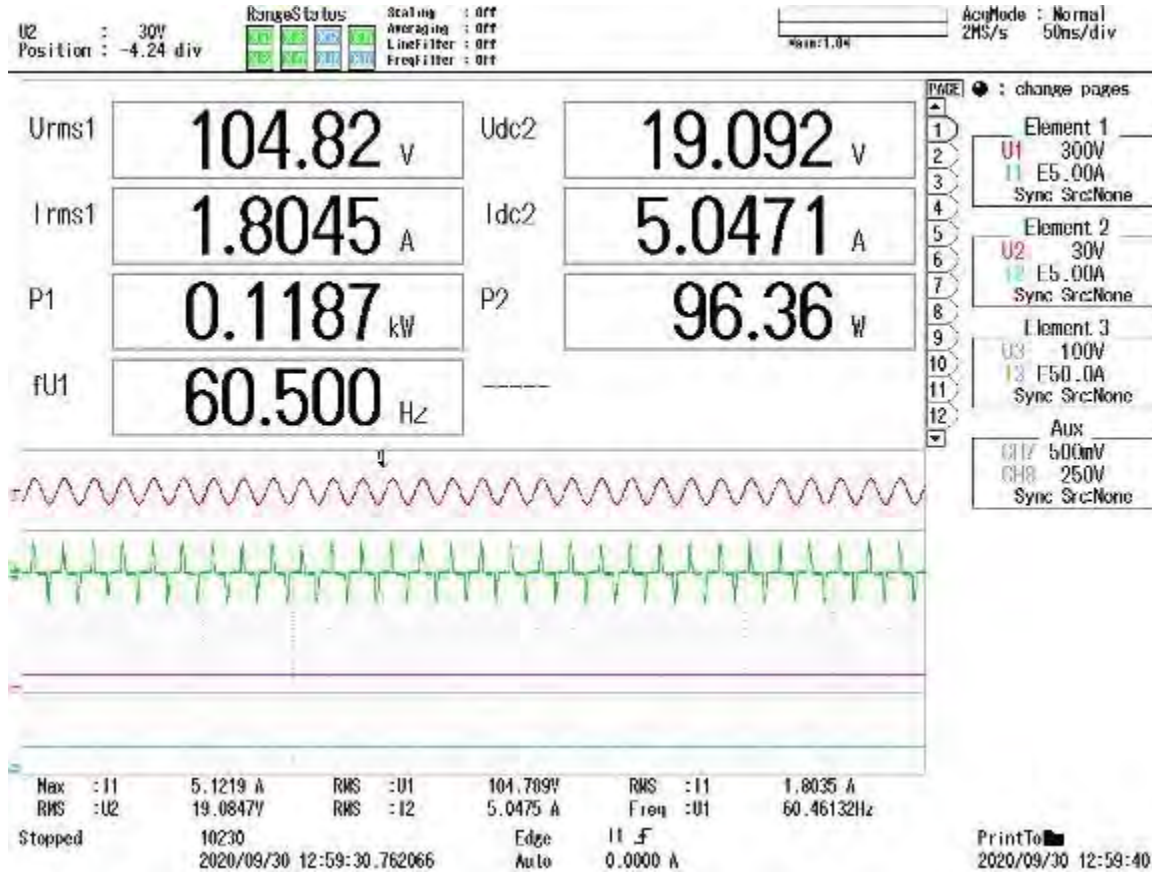


Figure B-6: SXF102, Condition F

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	11 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

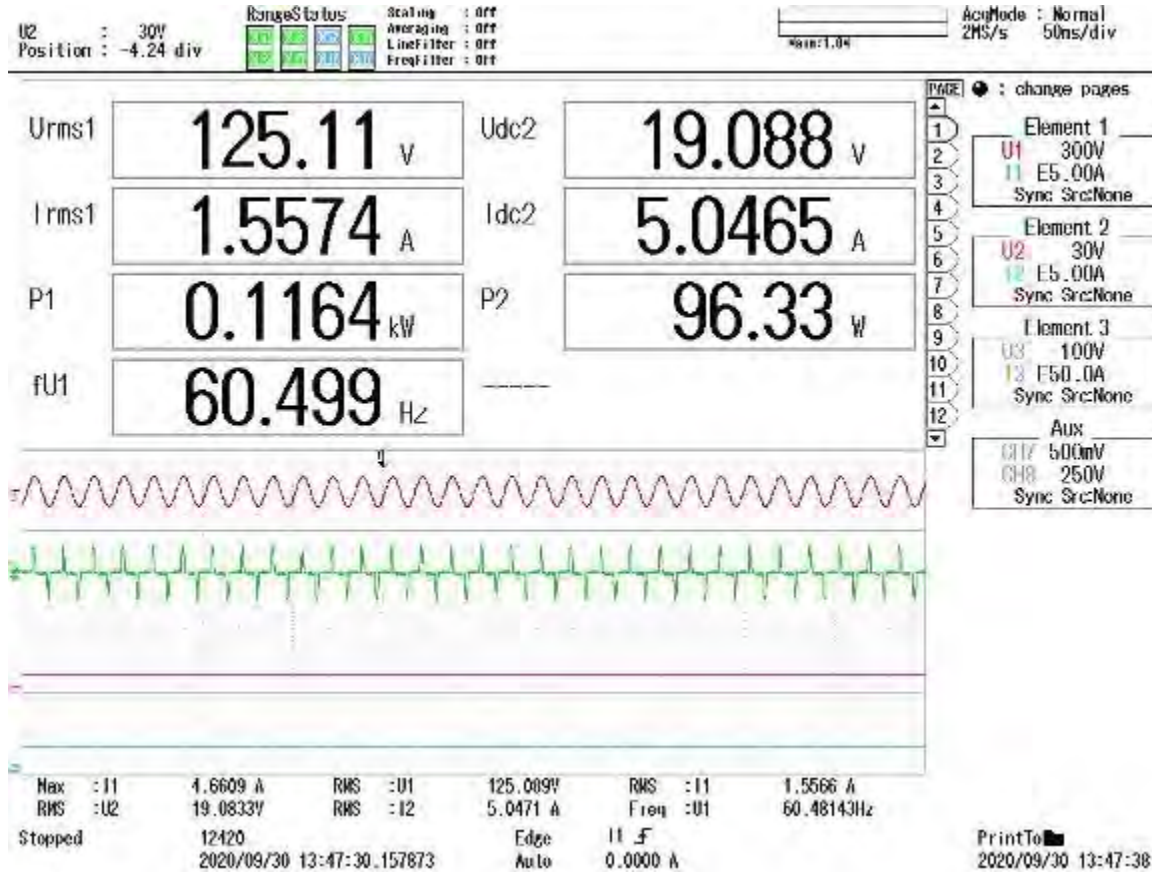


Figure B-7: SXF102, Condition I

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	12 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

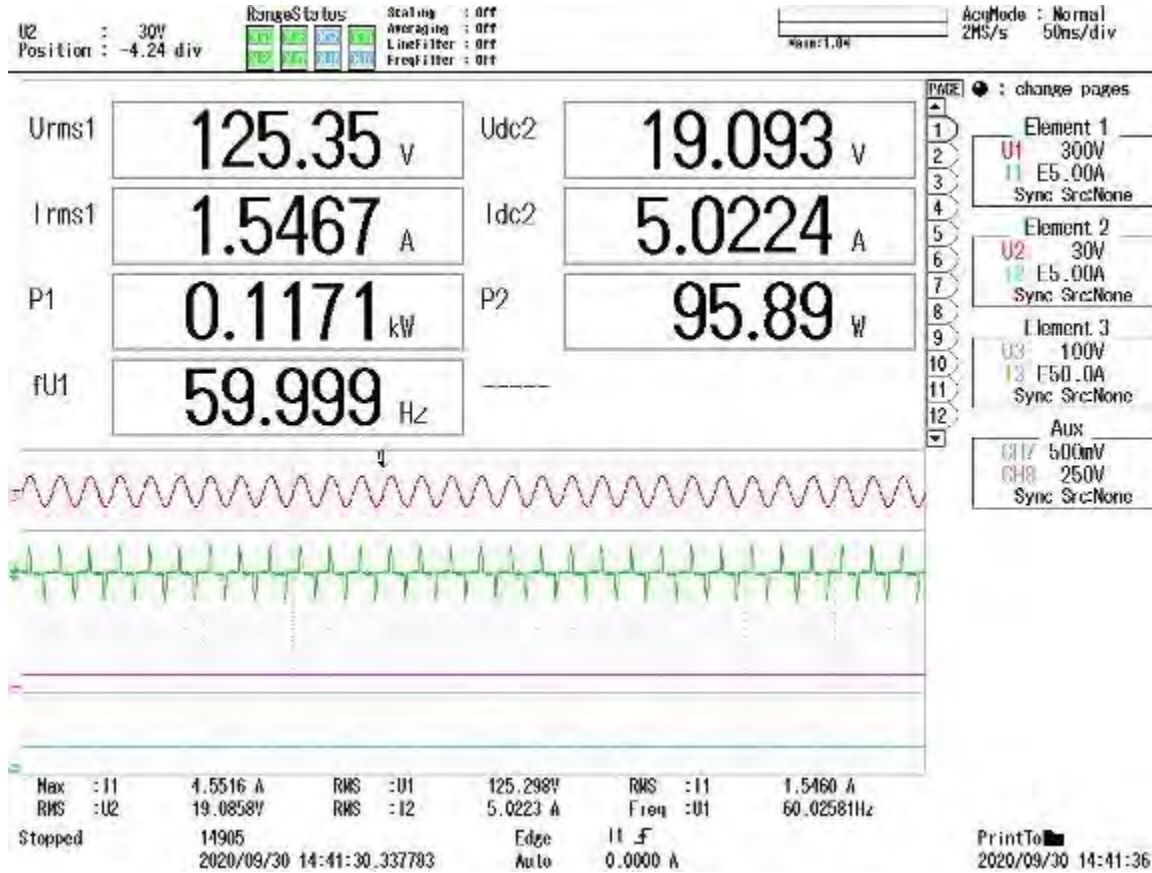


Figure B-8: SXF102, Condition G

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	13 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

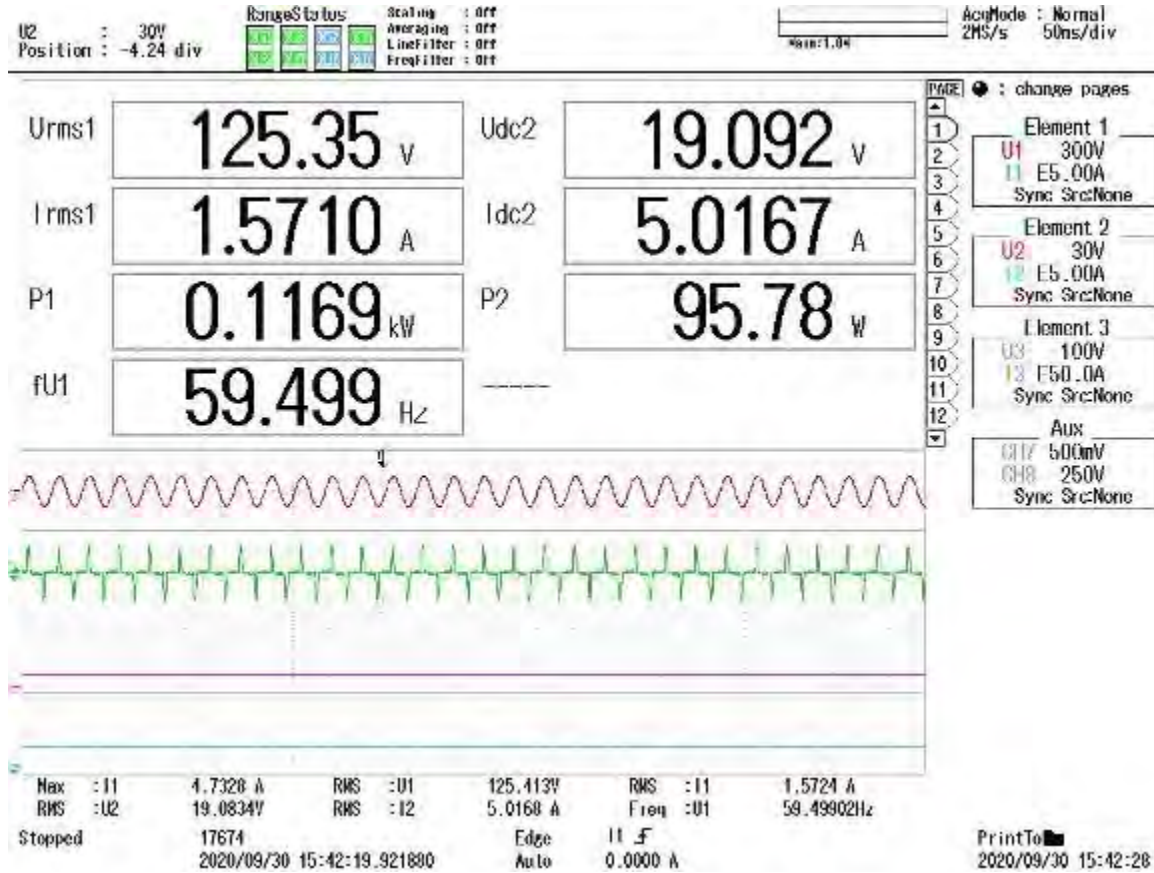


Figure B-9: SXF102, Condition H

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	14 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

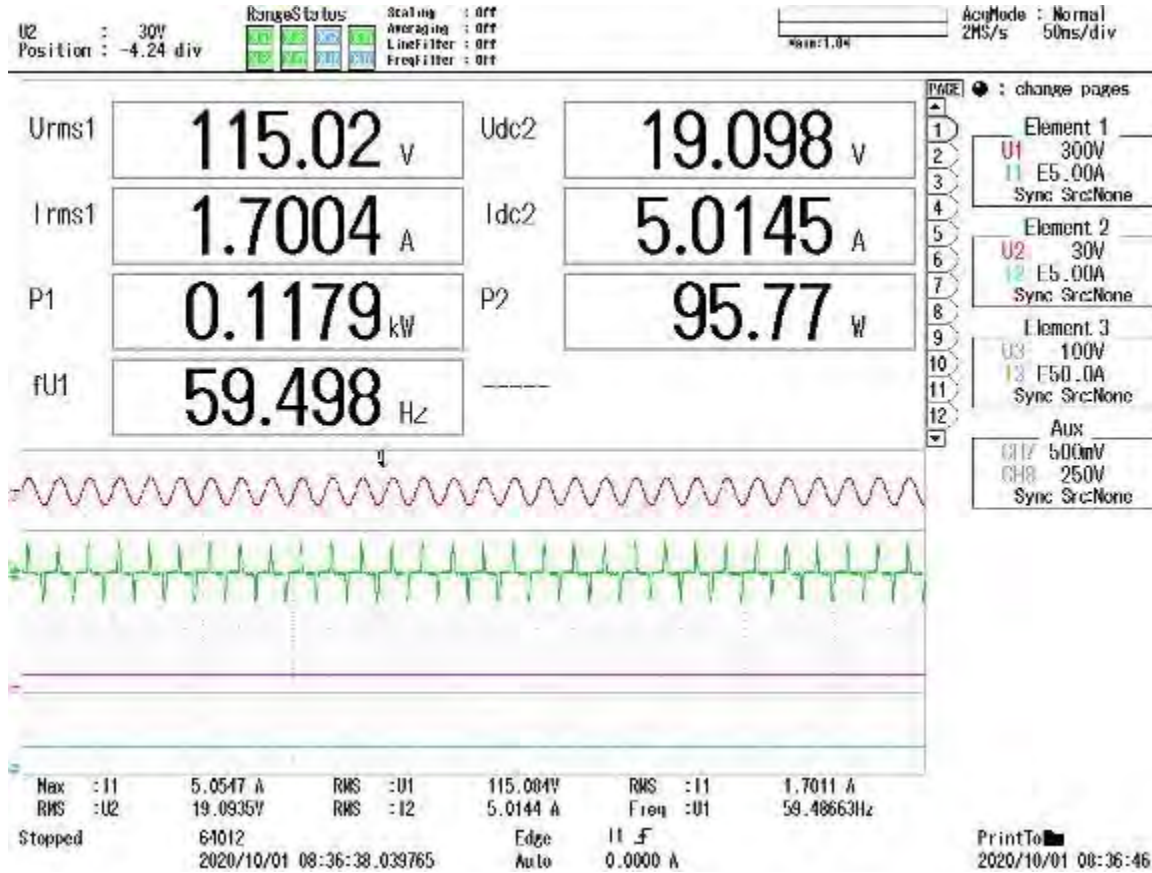


Figure B-10: SXF301, Condition A

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	15 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

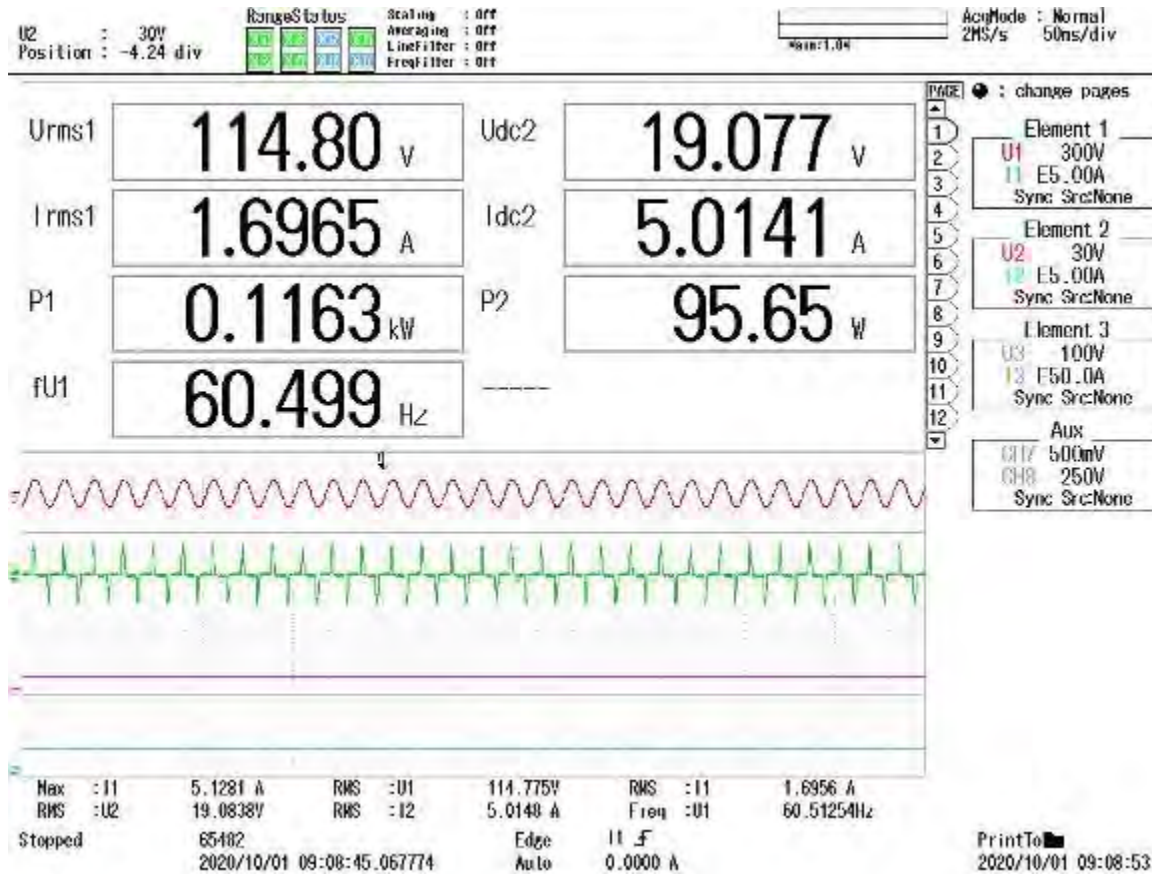


Figure B-11: SXF301, Condition B

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	16 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

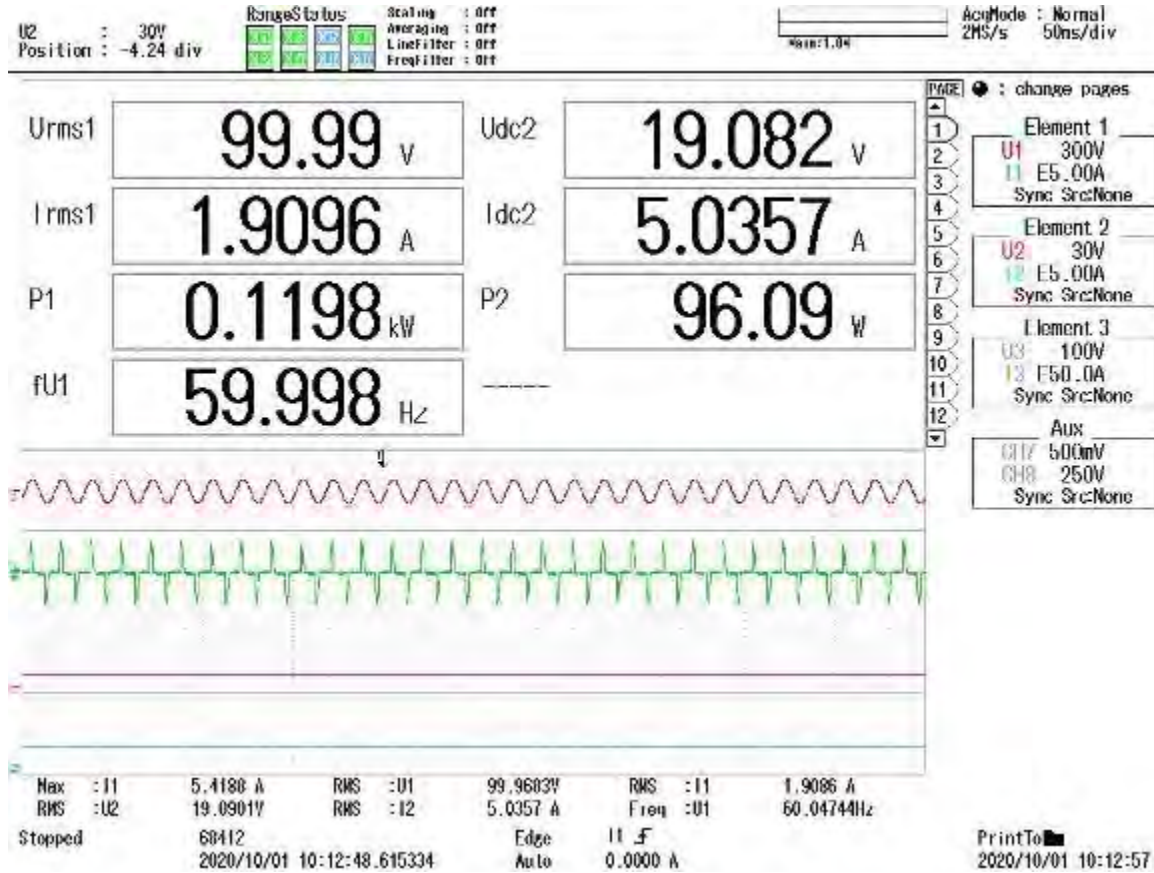


Figure B-12: SXF301, Condition C

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	17 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

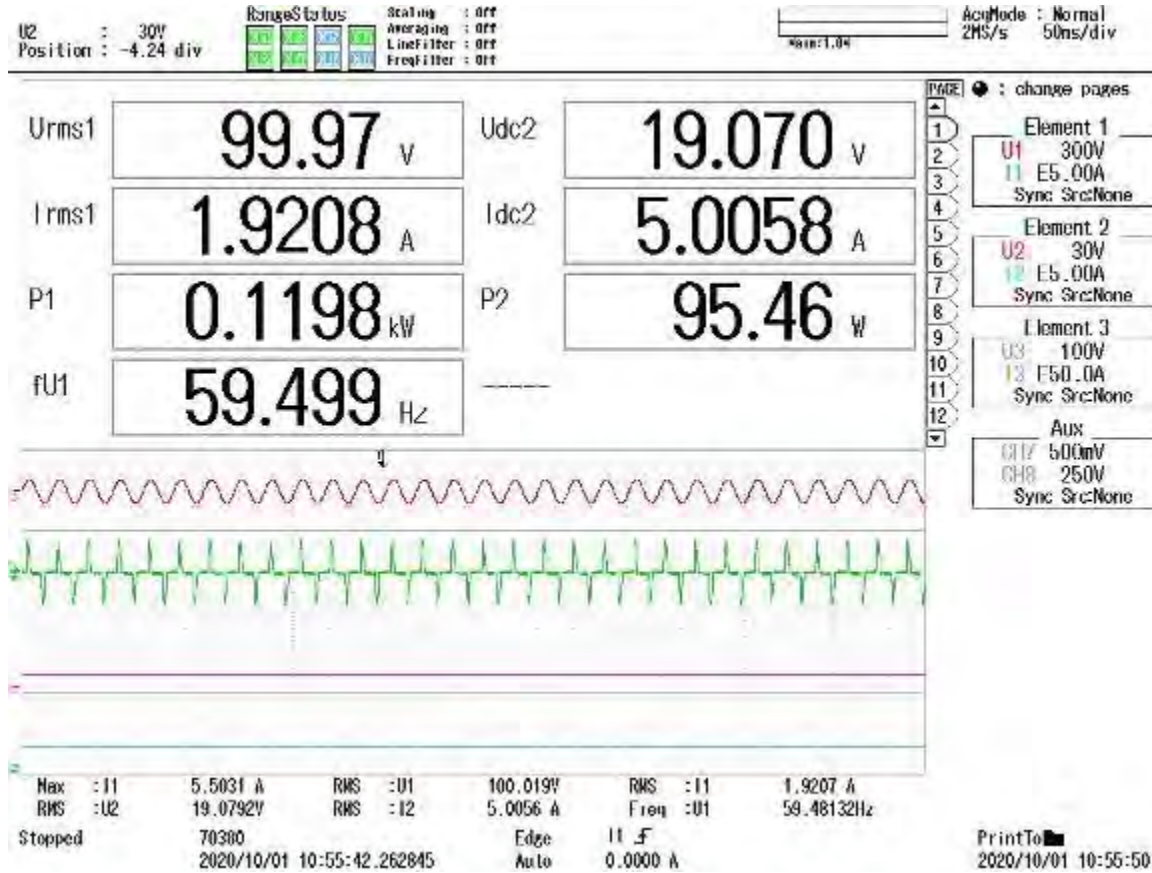
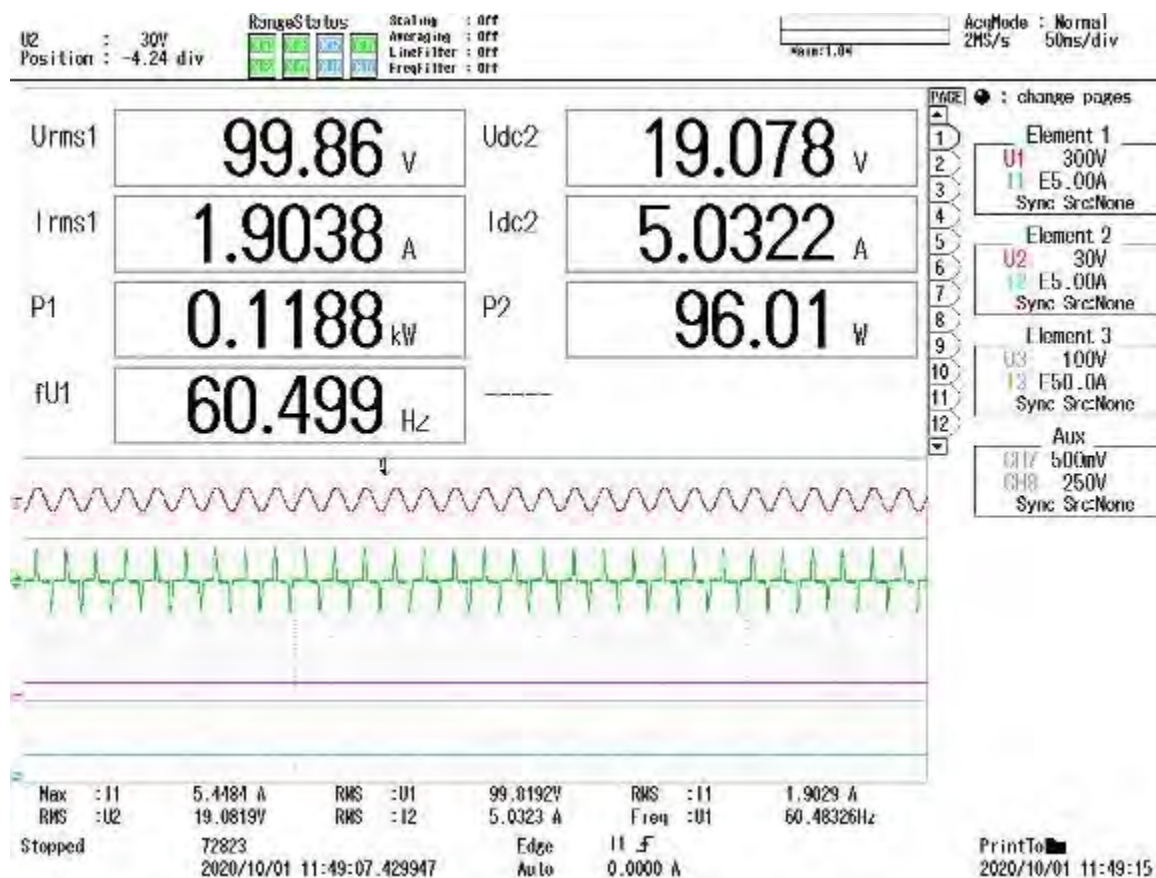


Figure B-13: SXF301, Condition D

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

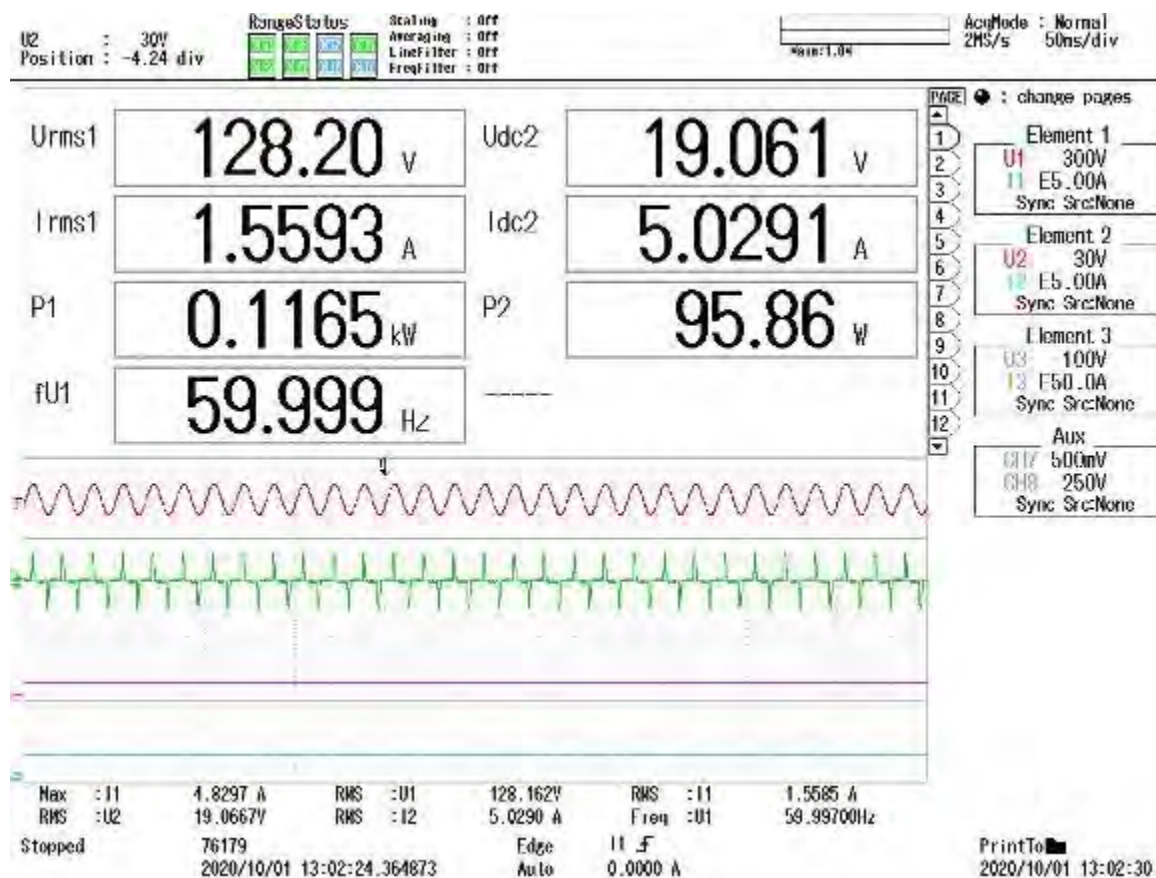
Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	18 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		



Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	19 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		



Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	20 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

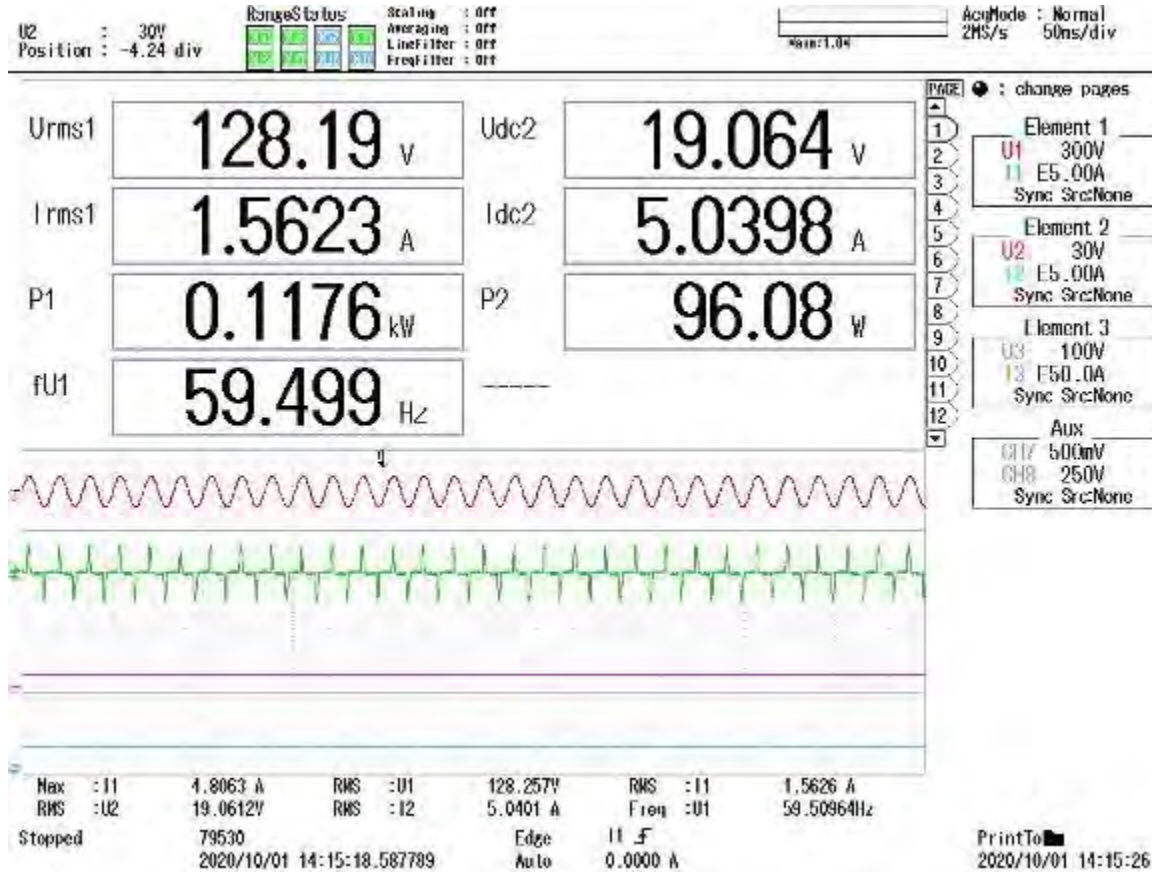


Figure B-16: SXF301, Condition G

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF102 and SXF301 Steady State Limits for Voltage and Frequency

Company name	Lind Electronic Design Co., Inc.	Performed by	EJB	Reviewed by		Pages	21 of 21
Project number	61179	Specification	MIL-HDBK-704-6, SXF102 and SXF301				
DUT description	ACMIL1950-ZZZZ	Test date(s)	9/29/2020 to 10/2/2020	Location	Groundplane G4		

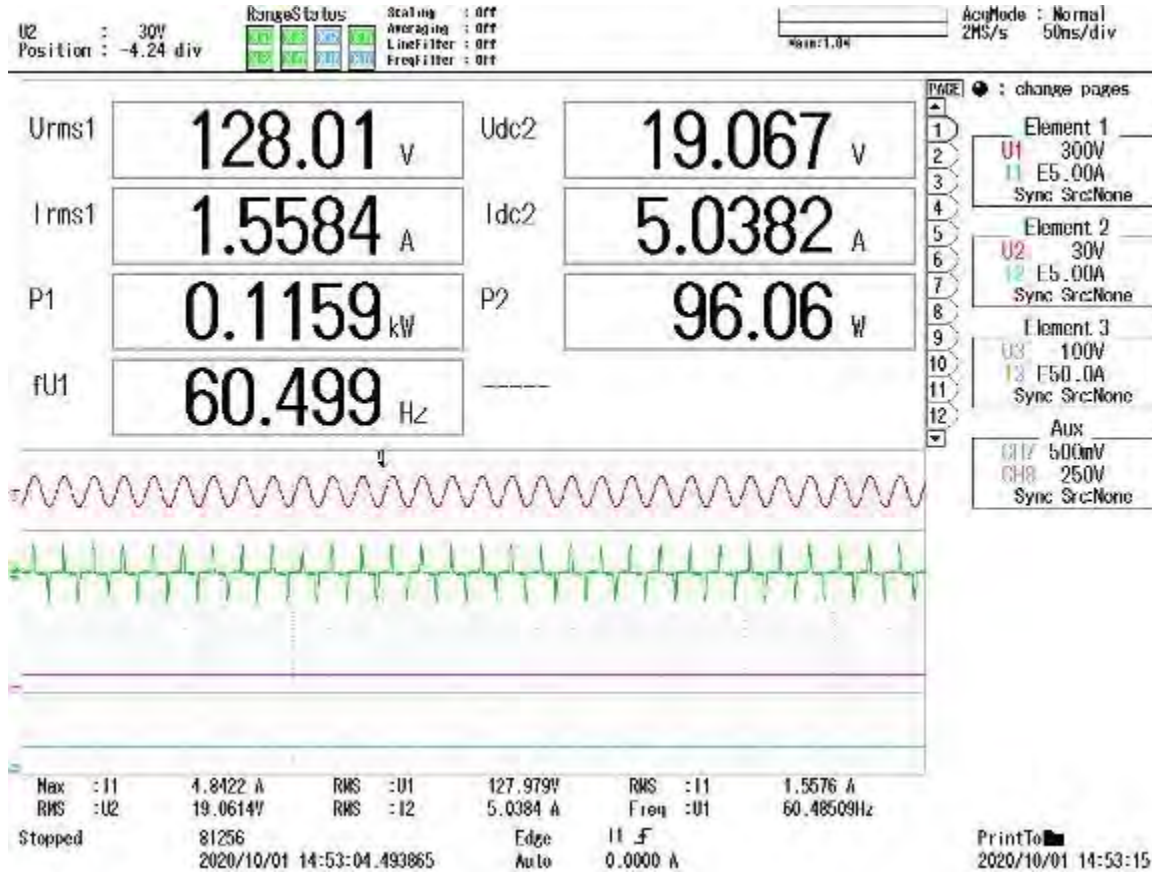


Figure B-17: SXF301, Condition H

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current

Appendix C: SXF104 Voltage Modulation



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	1 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary	
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?		
360-060	Power scope	X	310-094	Arbitrary waveform generator	X		
350-153	Amplifier	N/A	230-098	Probe	X		
230-121	Probe	X	210-059	Multimeter	X		
400-072	Stopwatch	X	290-015	Micro-ohmmeter	X		

Power Input AC, SXF104 Voltage Modulation Test results								
Test Condition	Input voltage	Input frequency	Modulation voltage	Modulation frequency	Dwell	EUT mode	Result	Notes
A	115 Vac	60 Hz	0.375 Vrms	1 Hz	10 min	Operating, 5A load	Pass	Figure C-1
B	115 Vac	60 Hz	2.5 Vrms	1.5 Hz	10 min	Operating, 5A load	Pass	Figure C-2
C	115 Vac	60 Hz	2.5 Vrms	4 Hz	10 min	Operating, 5A load	Pass	Figure C-3
D	115 Vac	60 Hz	0.375 Vrms	10 Hz	10 min	Operating, 5A load	Pass	Figure C-4
E	115 Vac	60 Hz	0.375 Vrms	15 Hz	10 min	Operating, 5A load	Pass	Figure C-5
F	115 Vac	60 Hz	0.375 Vrms	30 Hz	10 min	Operating, 5A load	Pass	Figure C-6
A	109 Vac	60 Hz	0.375 Vrms	1 Hz	10 min	Operating, 5A load	Pass	Figure C-7
B	109 Vac	60 Hz	2.5 Vrms	1.5 Hz	10 min	Operating, 5A load	Pass	Figure C-8
C	109 Vac	60 Hz	2.5 Vrms	4 Hz	10 min	Operating, 5A load	Pass	Figure C-9
D	109 Vac	60 Hz	0.375 Vrms	10 Hz	10 min	Operating, 5A load	Pass	Figure C-10
E	109 Vac	60 Hz	0.375 Vrms	15 Hz	10 min	Operating, 5A load	Pass	Figure C-11
F	109 Vac	60 Hz	0.375 Vrms	30 Hz	10 min	Operating, 5A load	Pass	Figure C-12
A	117 Vac	60 Hz	0.375 Vrms	1 Hz	10 min	Operating, 5A load	Pass	Figure C-13
B	117 Vac	60 Hz	2.5 Vrms	1.5 Hz	10 min	Operating, 5A load	Pass	Figure C-14
C	117 Vac	60 Hz	2.5 Vrms	4 Hz	10 min	Operating, 5A load	Pass	Figure C-15
D	117 Vac	60 Hz	0.375 Vrms	10 Hz	10 min	Operating, 5A load	Pass	Figure C-16
E	117 Vac	60 Hz	0.375 Vrms	15 Hz	10 min	Operating, 5A load	Pass	Figure C-17
F	117 Vac	60 Hz	0.375 Vrms	30 Hz	10 min	Operating, 5A load	Pass	Figure C-18



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	2 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet
Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	3 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



Photograph C-1: EUT identification



Data sheet
Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	4 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



Photograph C-2: Test setup



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	5 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



Figure C-1: Condition A, 115 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	6 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

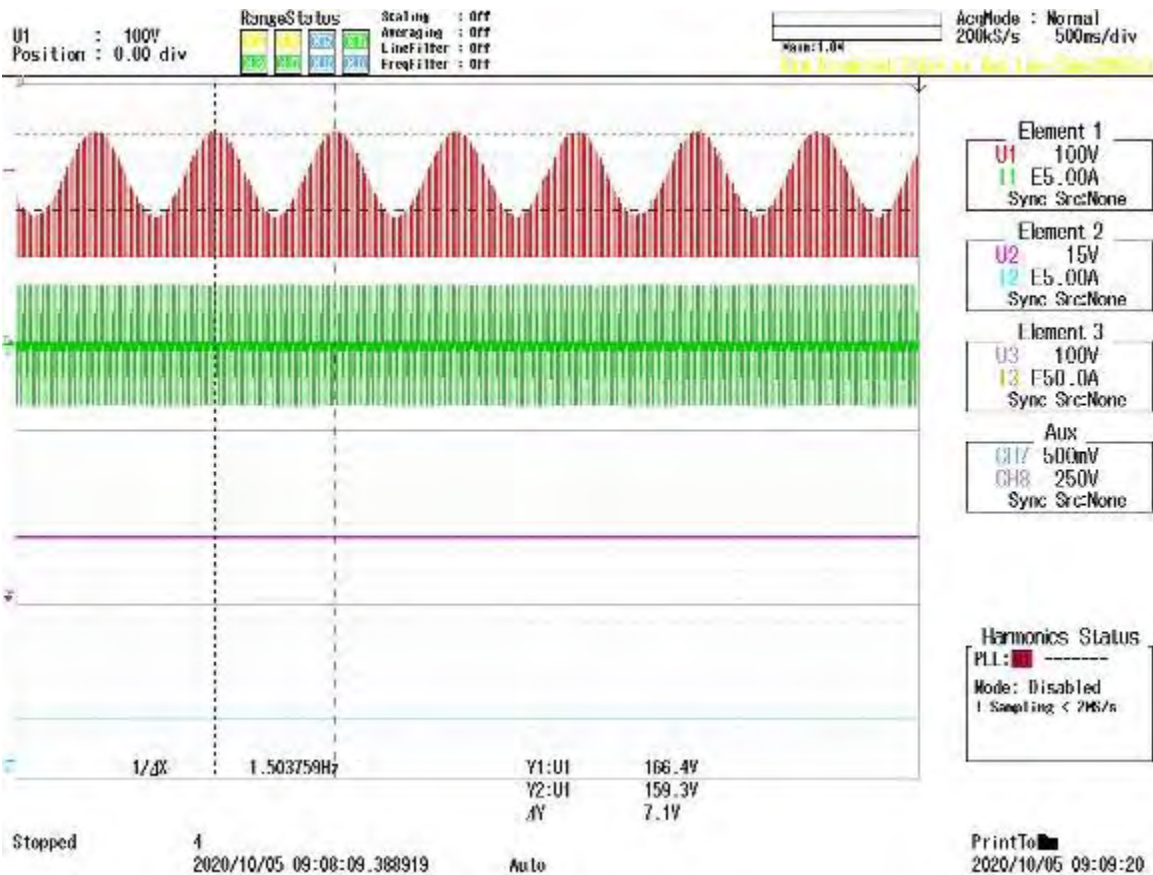


Figure C-2: Condition B, 115 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	7 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

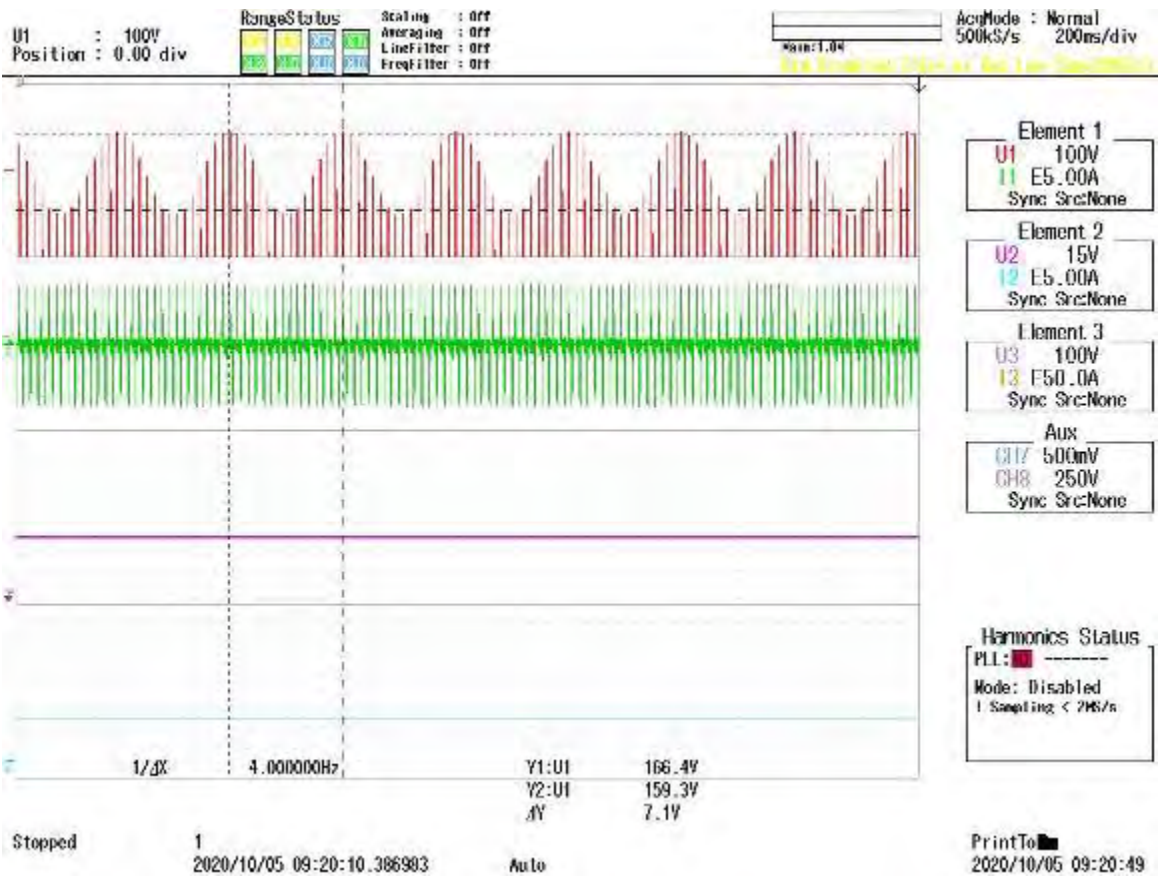


Figure C-3: Condition C, 115 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	8 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

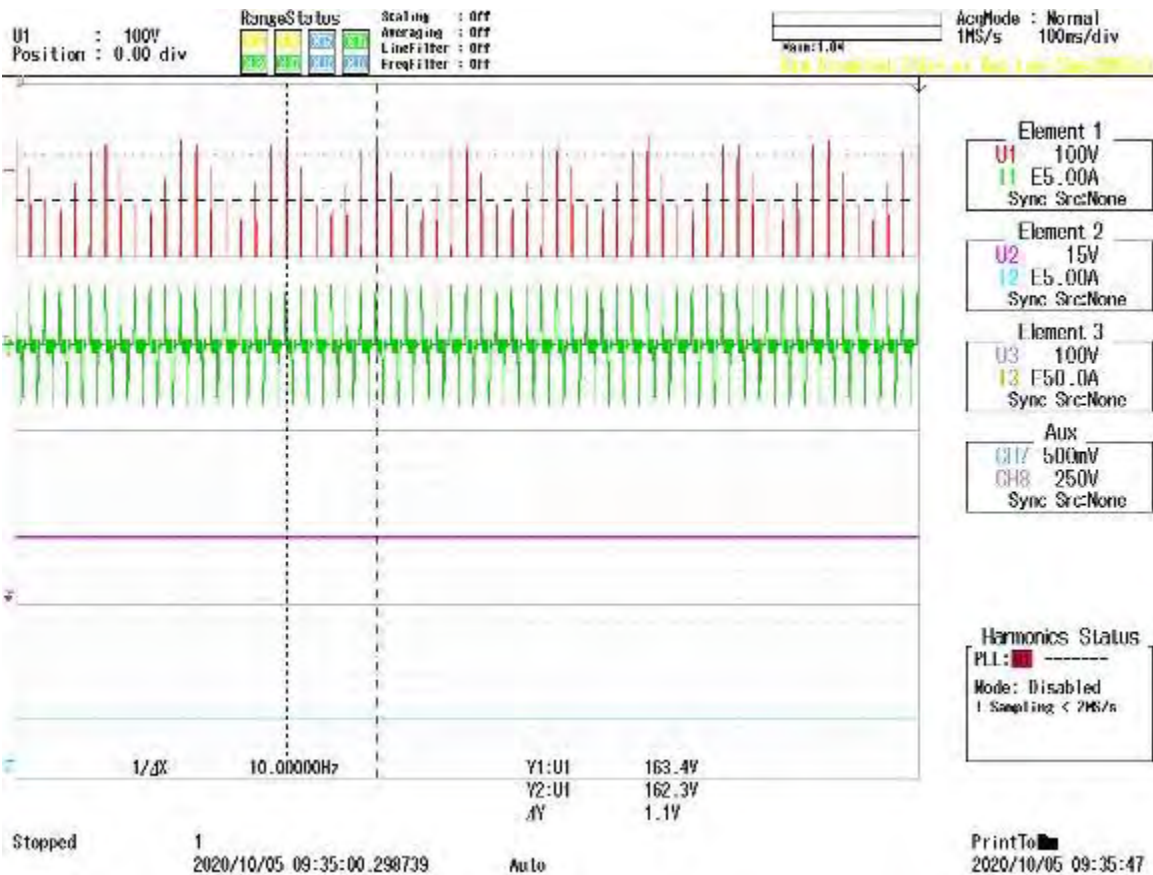


Figure C-4: Condition D, 115 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	9 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

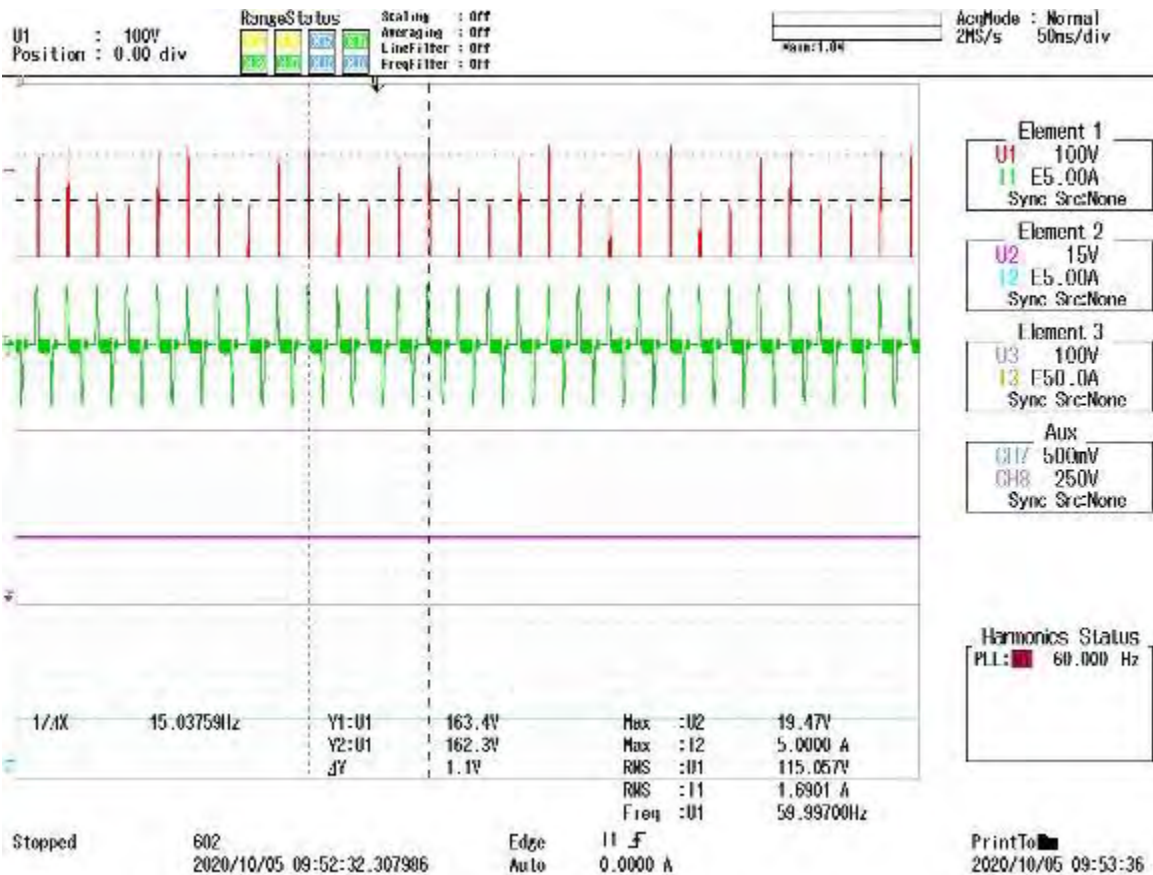


Figure C-5: Condition E, 115 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	10 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

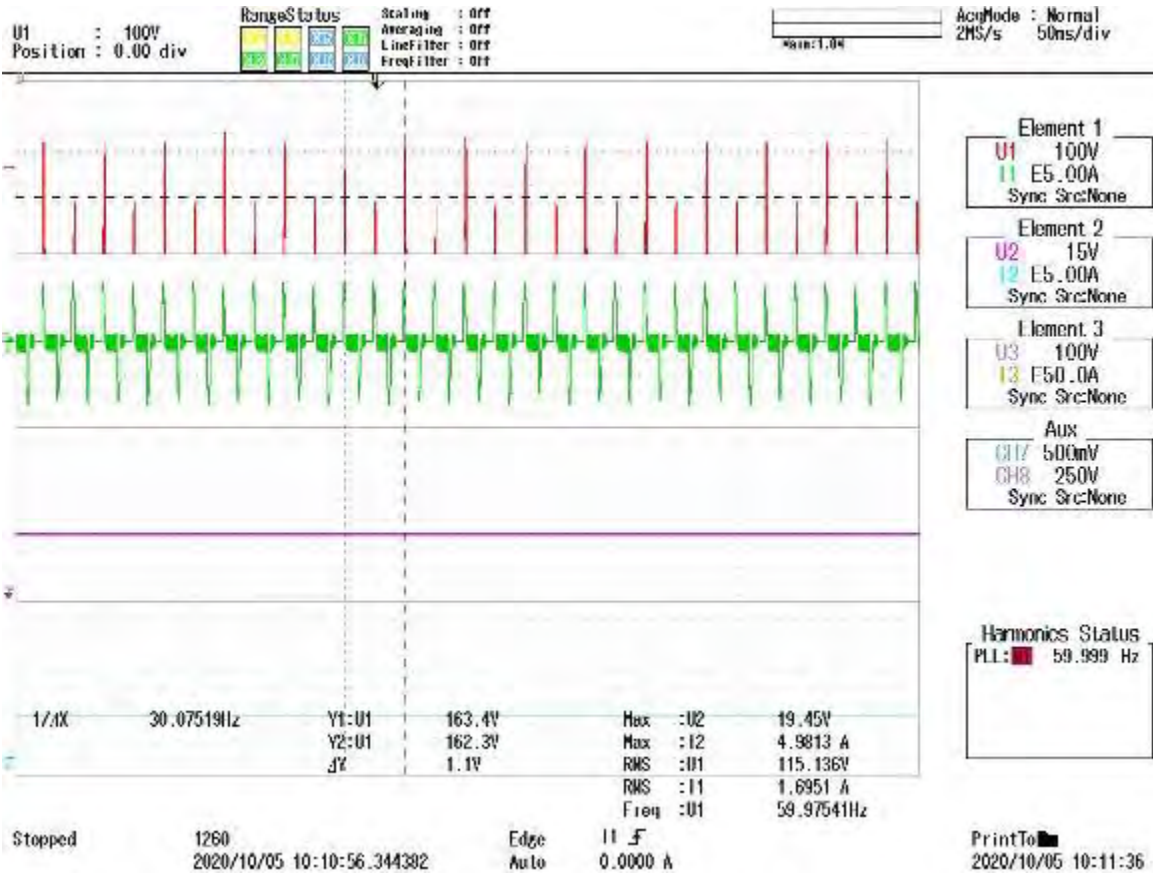


Figure C-6: Condition F, 115 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	11 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

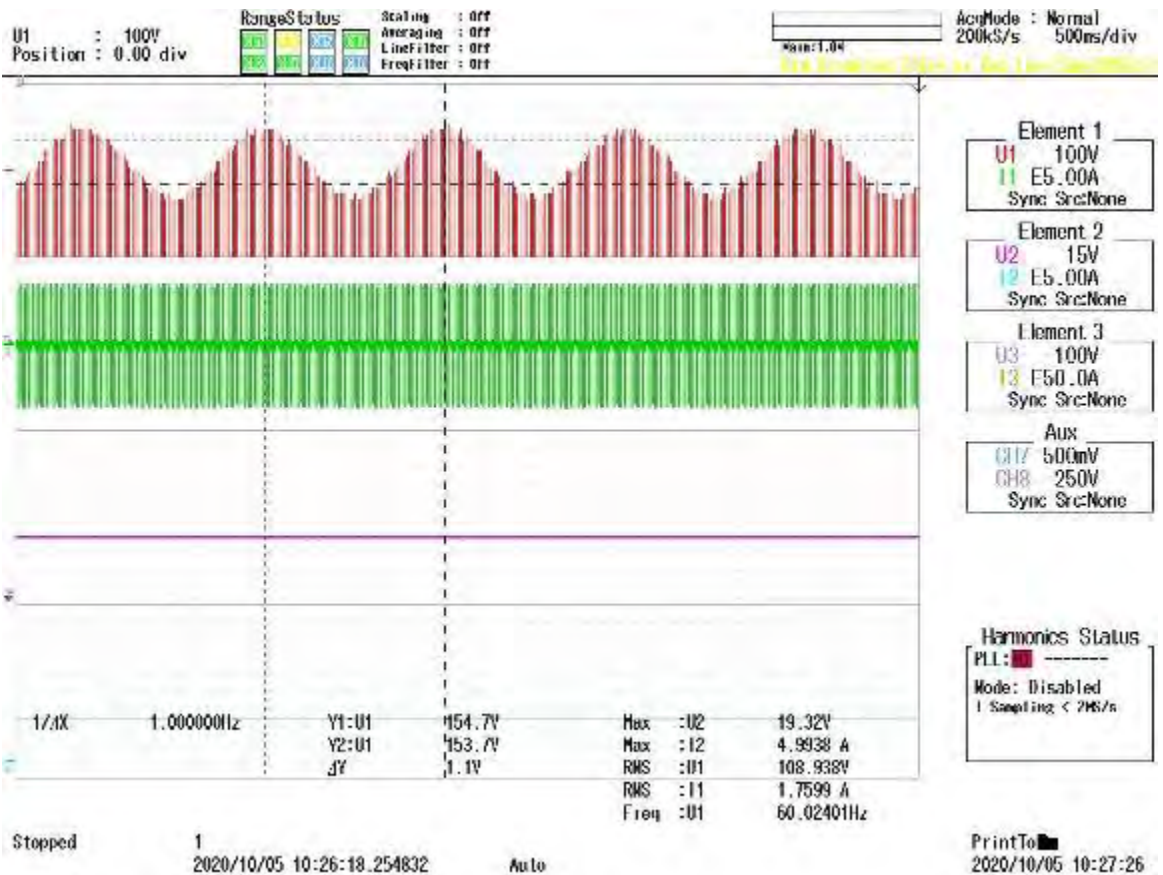


Figure C-7: Condition A, 109 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	12 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

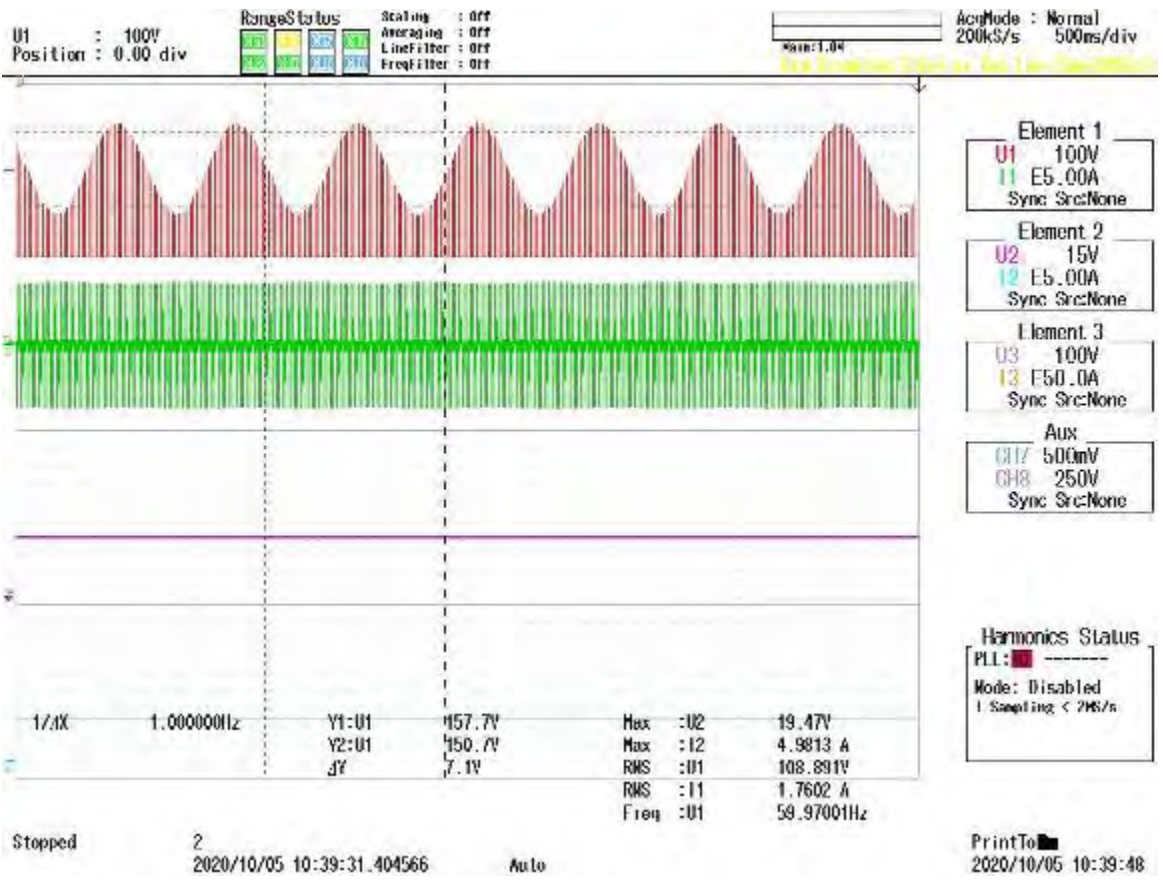


Figure C-8: Condition B, 109 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	13 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

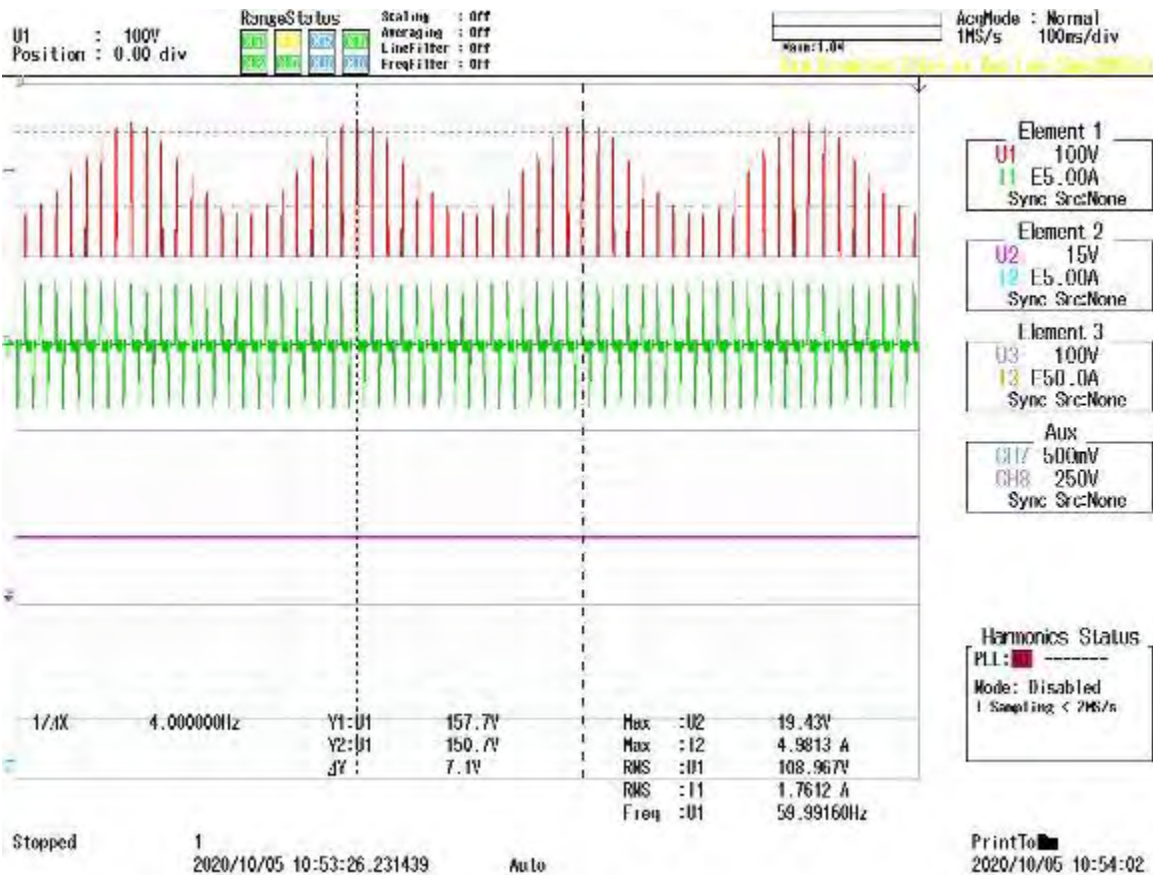


Figure C-9: Condition C, 109 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	14 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

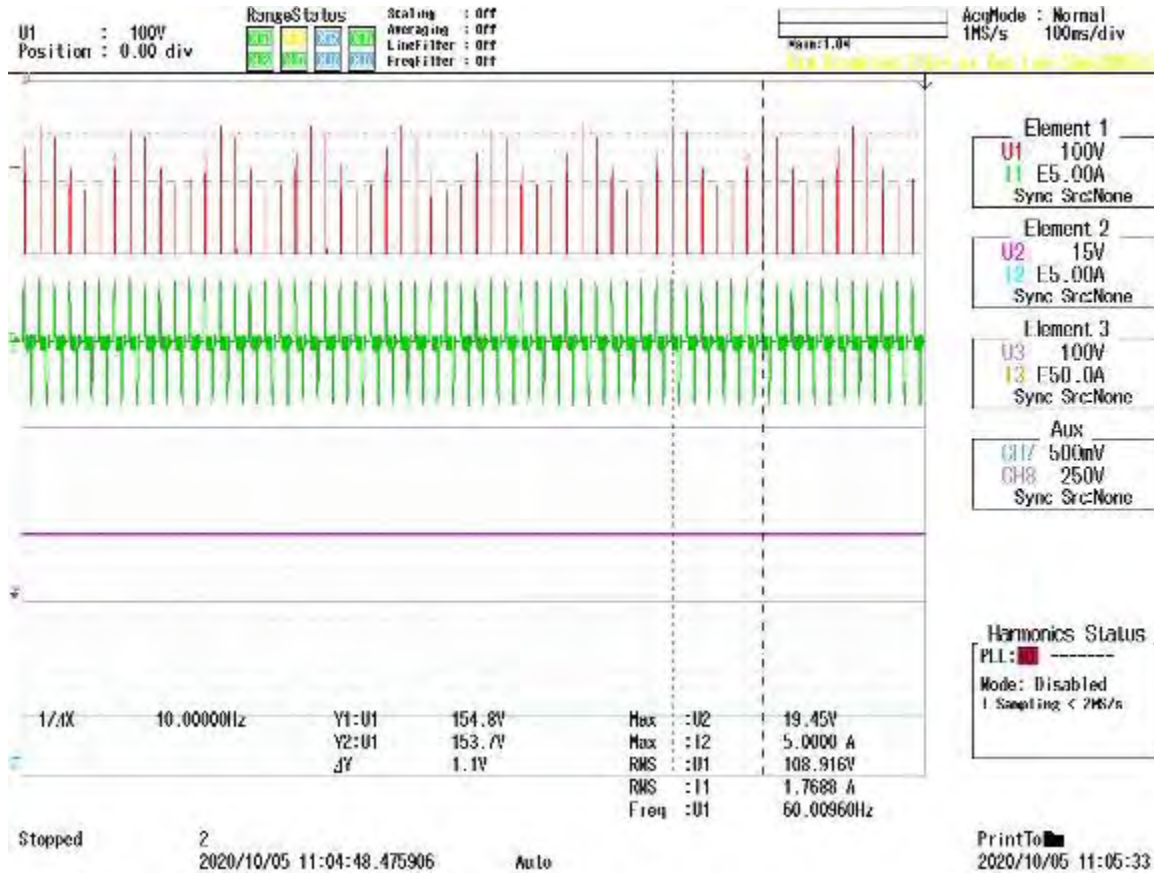


Figure C-10: Condition D, 109 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	15 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

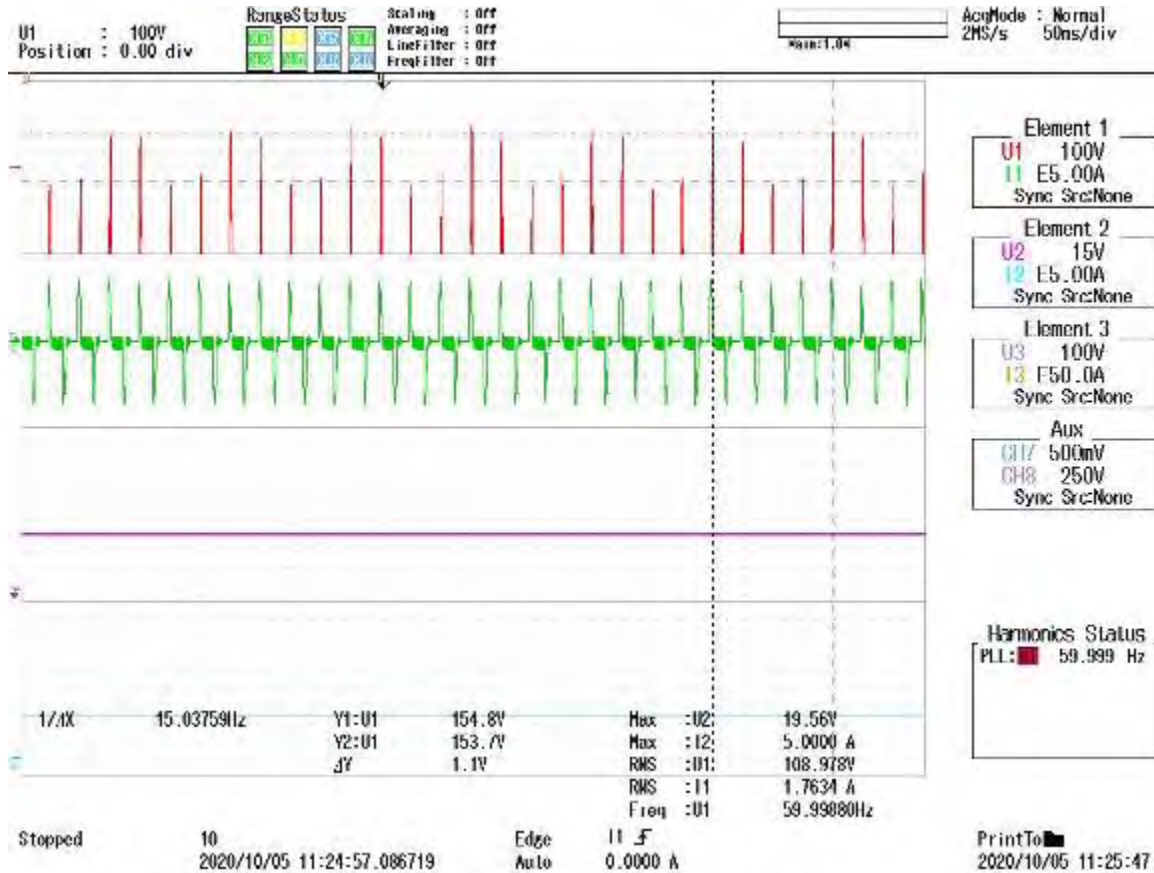


Figure C-11: Condition E, 109 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	16 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

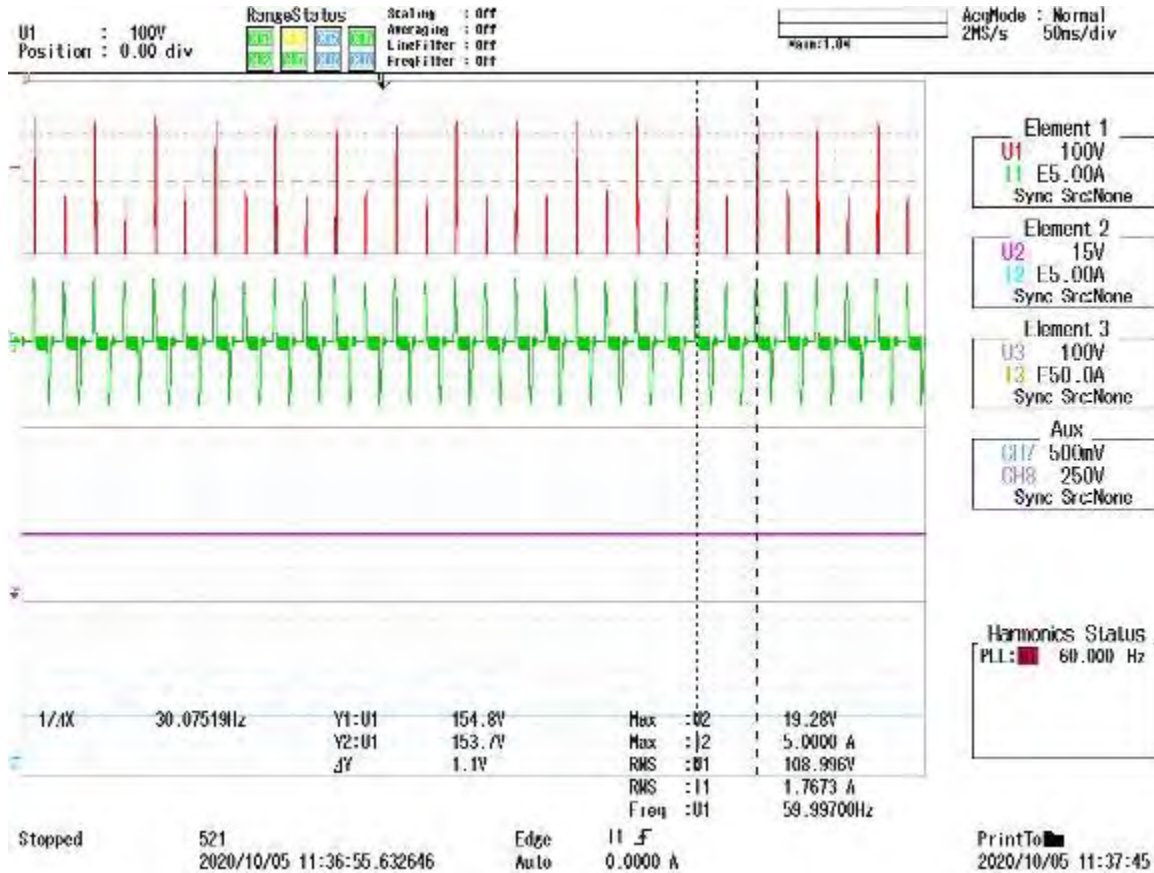


Figure C-12: Condition F, 109 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet **Power Input AC, SXF104 Voltage Modulation**

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	17 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



Figure C-13: Condition A, 117 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	18 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

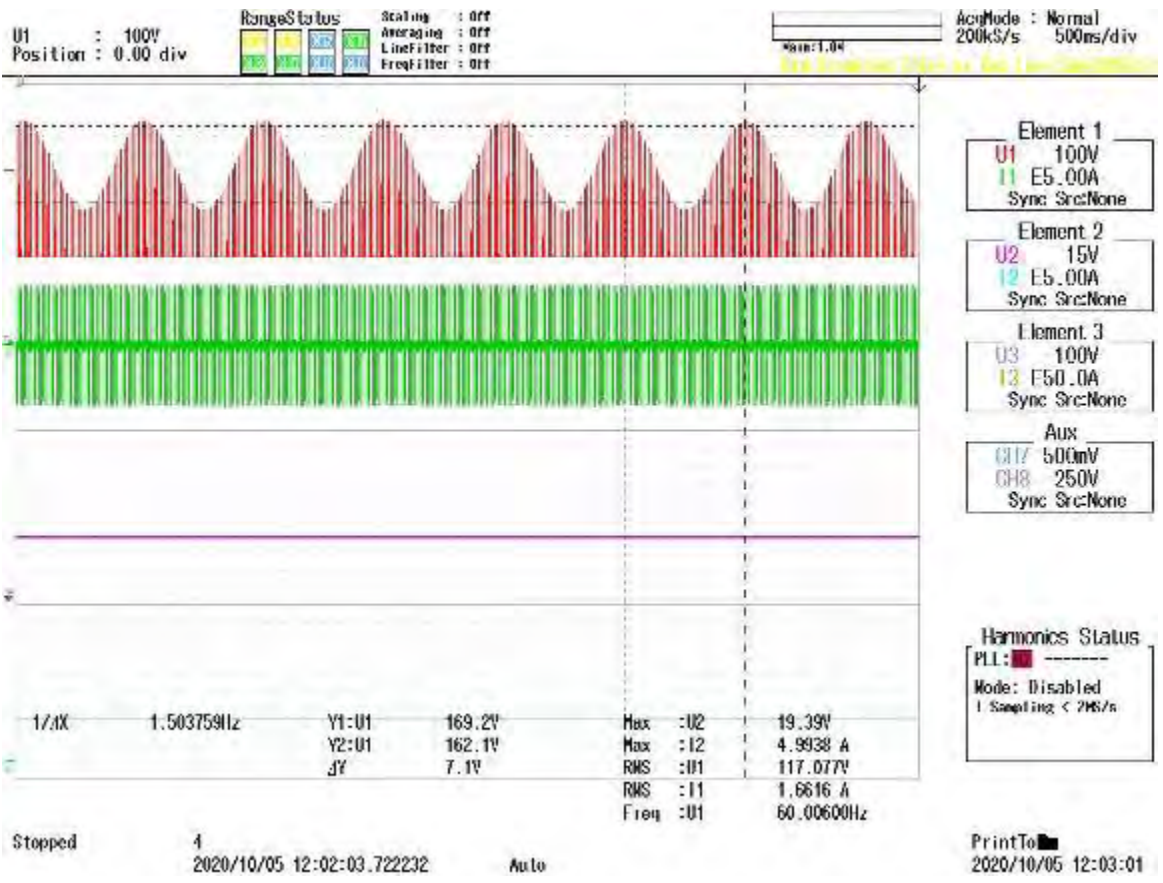


Figure C-14: Condition B, 117 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	19 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

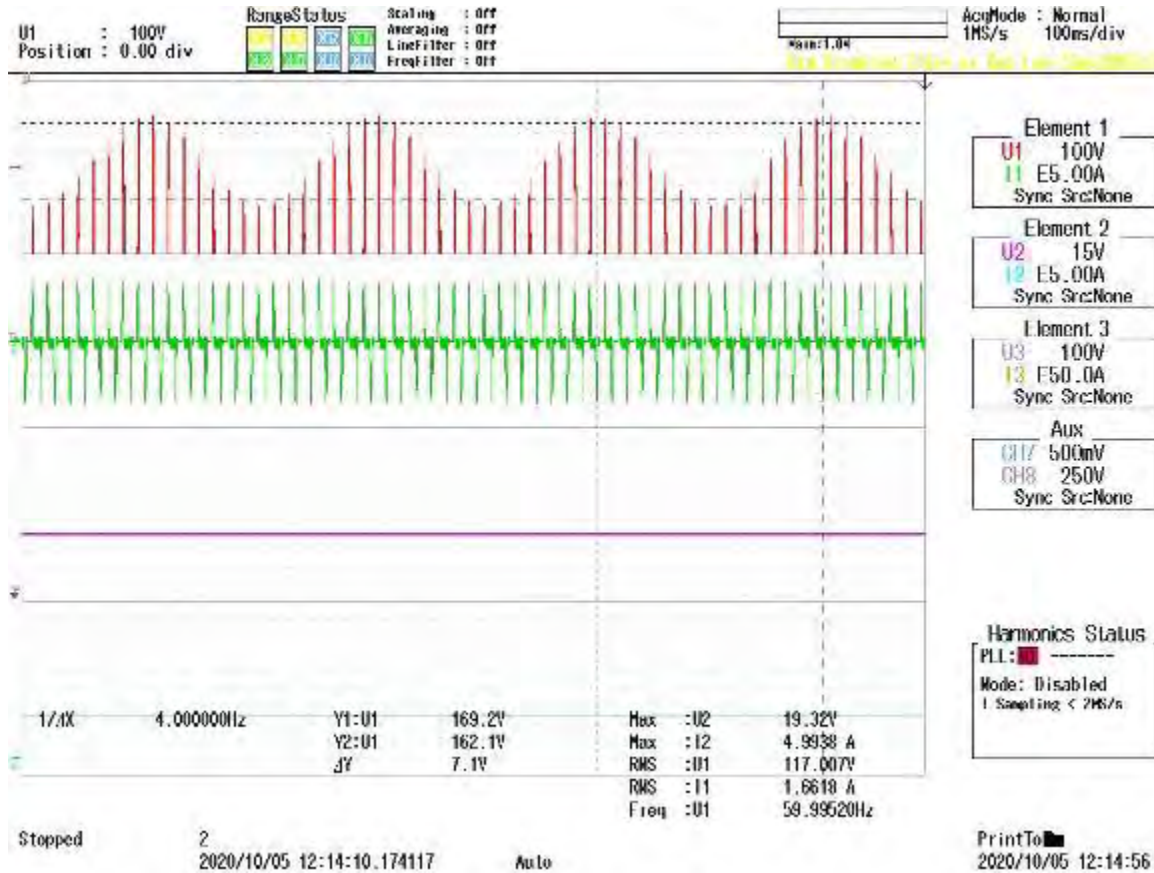


Figure C-15: Condition C, 117 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	20 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

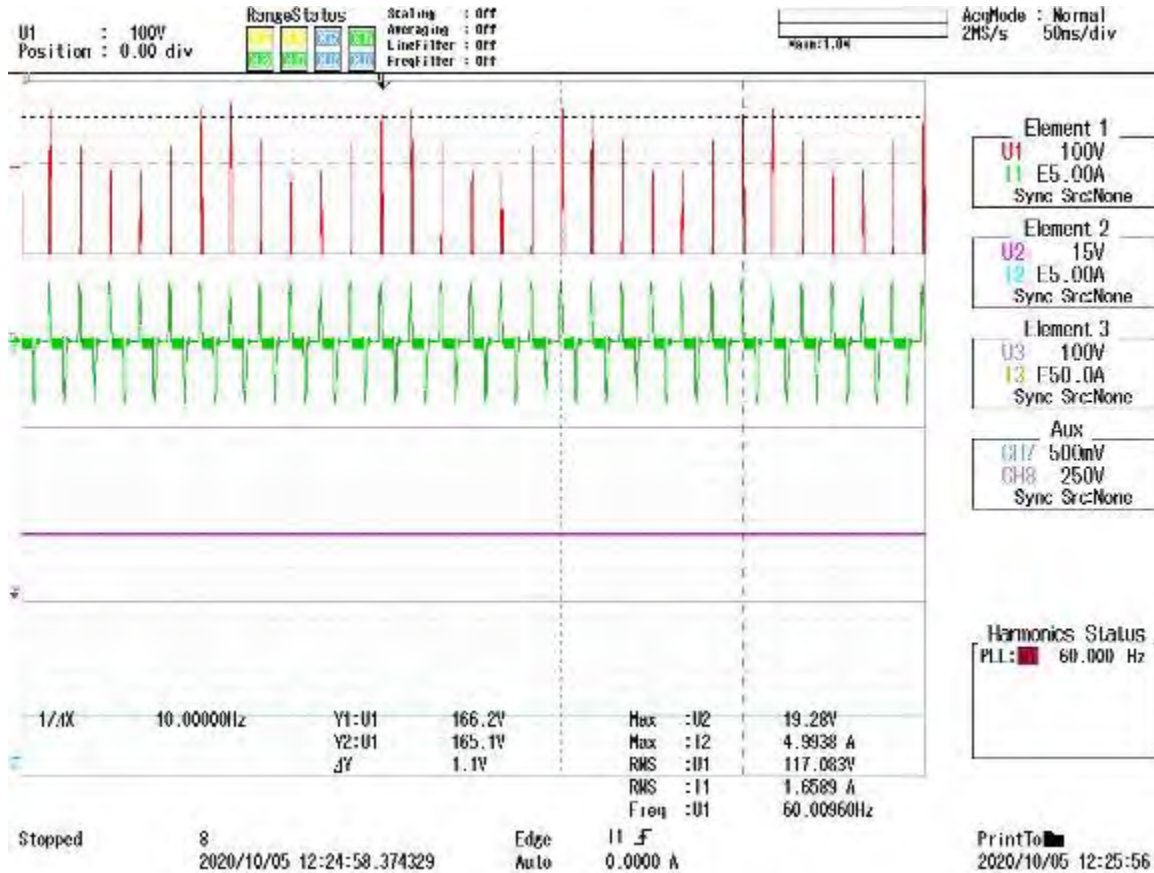


Figure C-16: Condition D, 117 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	21 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

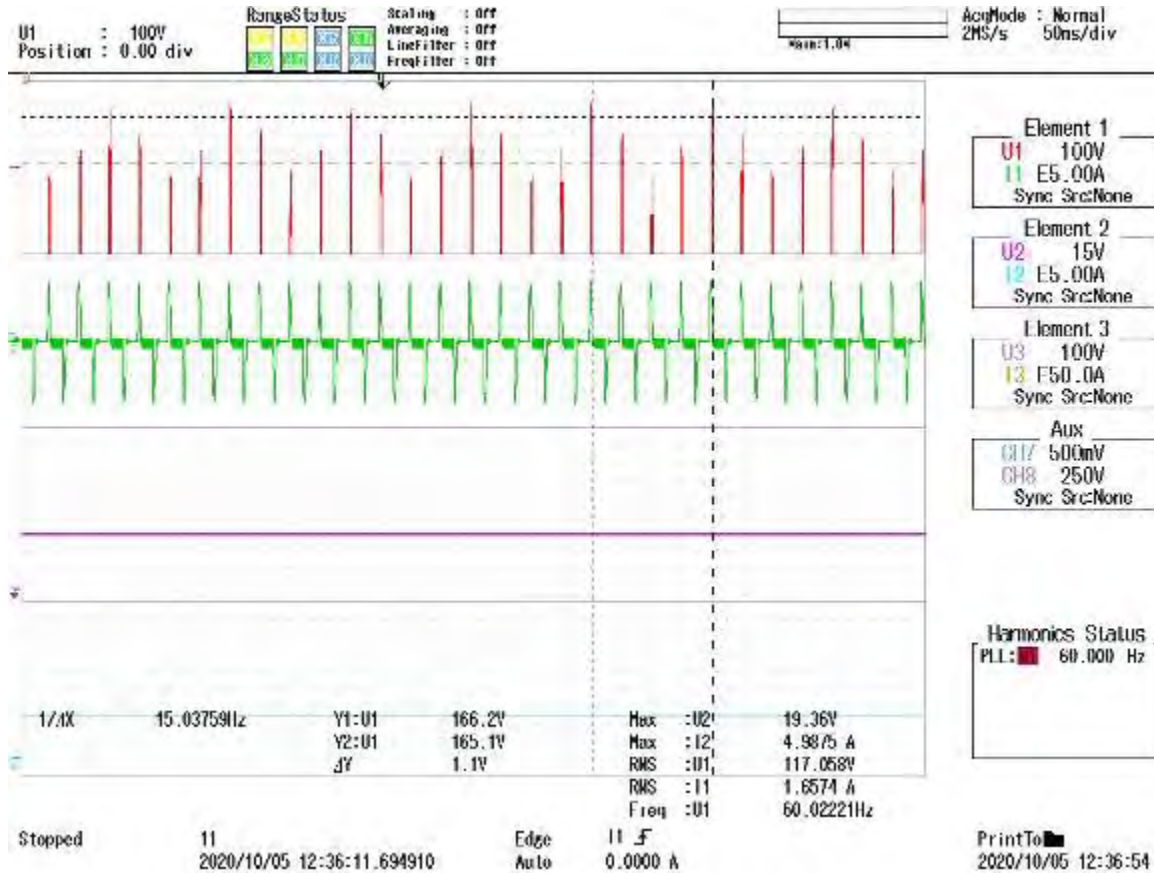


Figure C-17: Condition E, 117 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet Power Input AC, SXF104 Voltage Modulation

Company name	Lind Electronic Design Co., Inc	Performed by	JTS	Reviewed by		Pages	22 of 22
Project number	61179	Specification	MIL-HDBK-704-6, SXF104				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

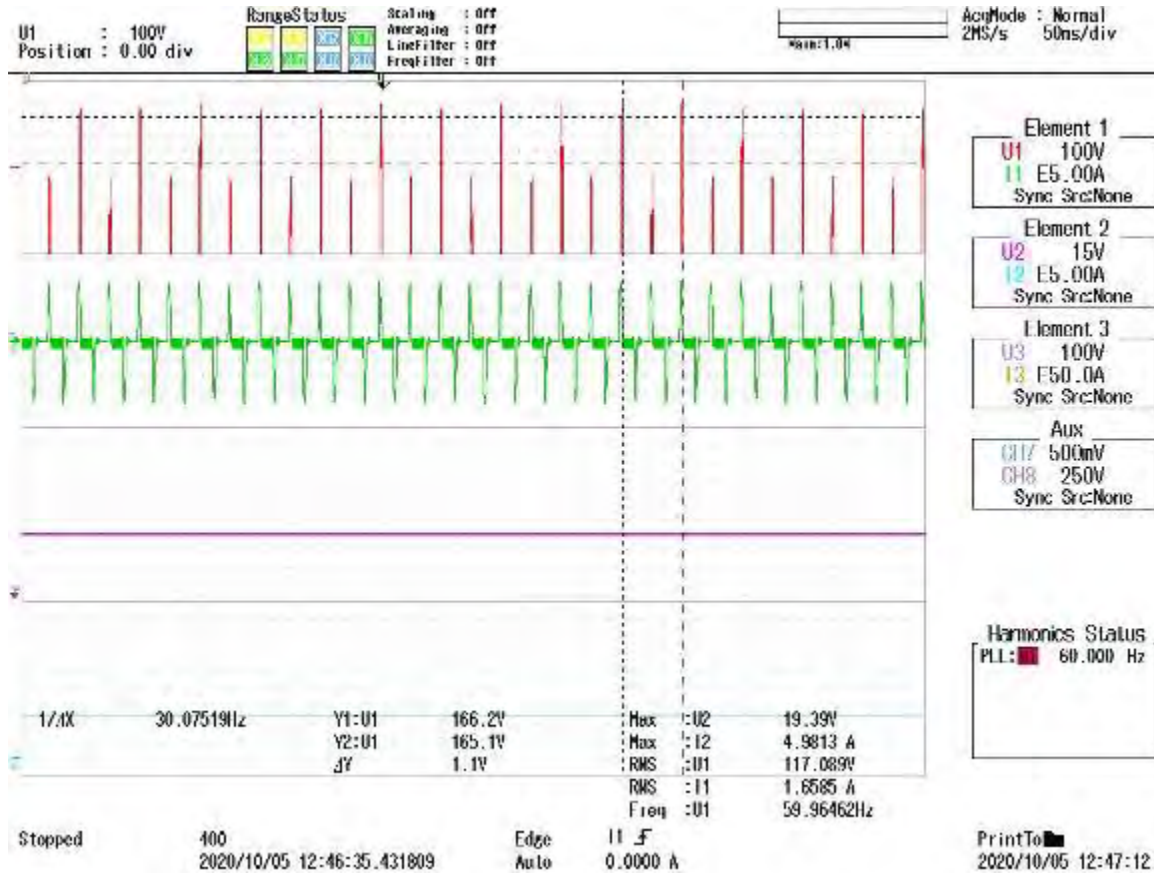


Figure C-18: Condition F, 117 Vac

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current

Appendix D: SXF105 Frequency Modulation



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary	
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?		
360-060	Power scope	X	210-059	Multimeter	X		
230-098	Probe	X	310-094	Arbitrary waveform generator	X		
350-153	Amplifier	N/A	230-121	Probe	X		
290-015	Micro-ohmmeter	X					

Power Input AC, SXF105 Frequency Modulation Test results							
EUT mode	Input voltage	Input frequency	Frequency repetition rate (±5%)	Frequency deviation	Dwell	Result	Notes
Operating, 5A load	115 Vac	60 Hz	0.1 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-4, and Figures D-1 and D-2
Operating, 5A load	115 Vac	60 Hz	0.5 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-5, and Figures D-1 and D-2
Operating, 5A load	115 Vac	60 Hz	4 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-6, and Figures D-1 and D-2
Operating, 5A load	115 Vac	60 Hz	25 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-7, and Figures D-1 and D-2
Operating, 5A load	115 Vac	60 Hz	15 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-8, and Figures D-1 and D-2
Operating, 5A load	115 Vac	59.75 Hz	0.1 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-4, and Figures D-3 and D-4
Operating, 5A load	115 Vac	59.75 Hz	0.5 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-5, and Figures D-3 and D-4
Operating, 5A load	115 Vac	59.75 Hz	4 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-6, and Figures D-3 and D-4
Operating, 5A load	115 Vac	59.75 Hz	25 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-7, and Figures D-3 and D-4
Operating, 5A load	115 Vac	59.75 Hz	15 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-8, and Figures D-3 and D-4
Operating, 5A load	115 Vac	60.75 Hz	0.1 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-4, and Figures D-5 and D-6
Operating, 5A load	115 Vac	60.75 Hz	0.5 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-5, and Figures D-5 and D-6
Operating, 5A load	115 Vac	60.75 Hz	4 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-6, and Figures D-5 and D-6
Operating, 5A load	115 Vac	60.75 Hz	25 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-7, and Figures D-5 and D-6
Operating, 5A load	115 Vac	60.75 Hz	15 Hz/sec	0.5 Hz	10 min	Pass	Photographs D-3 and D-8, and Figures D-5 and D-6

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



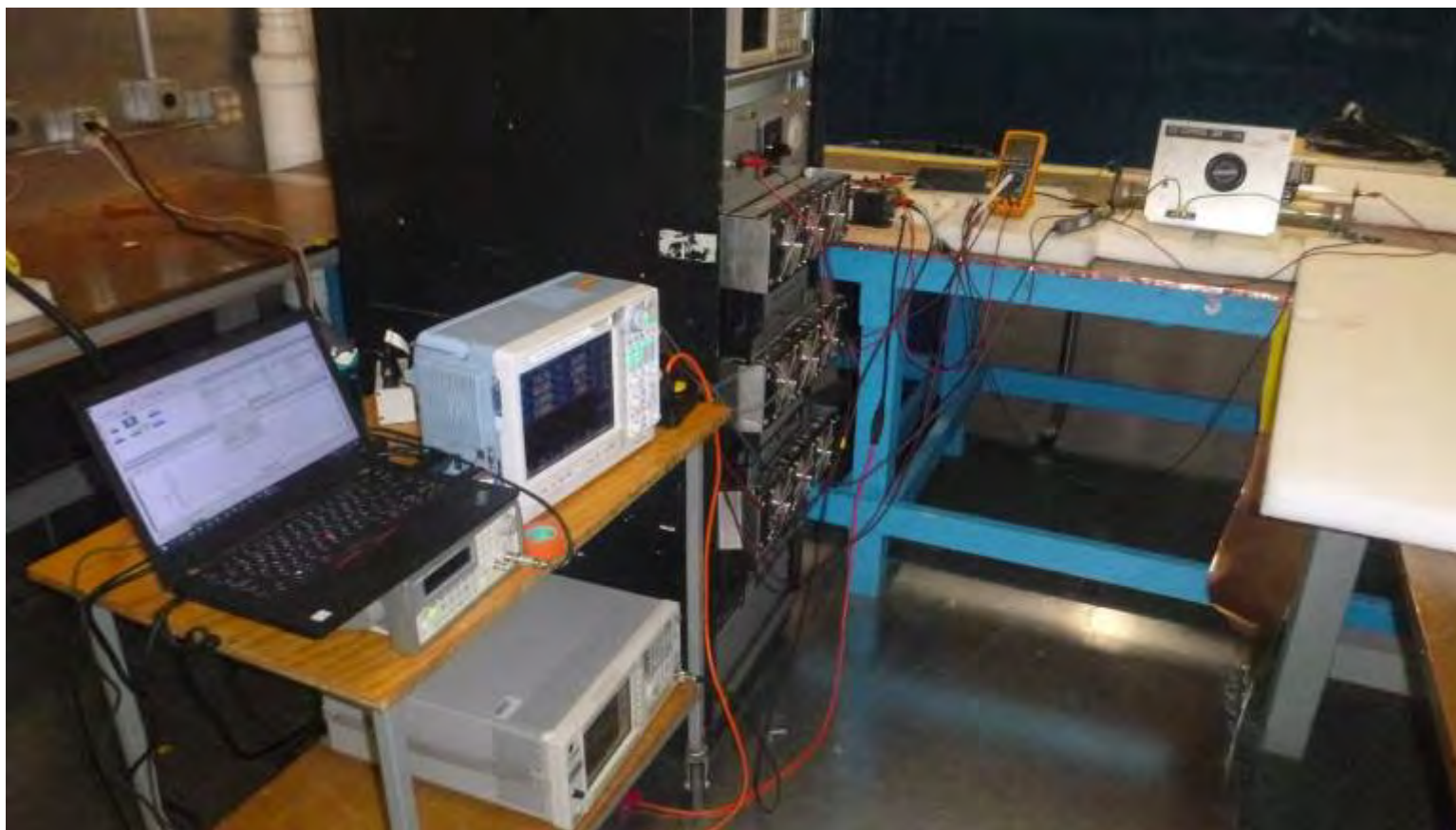
Photograph D-1: EUT identification



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



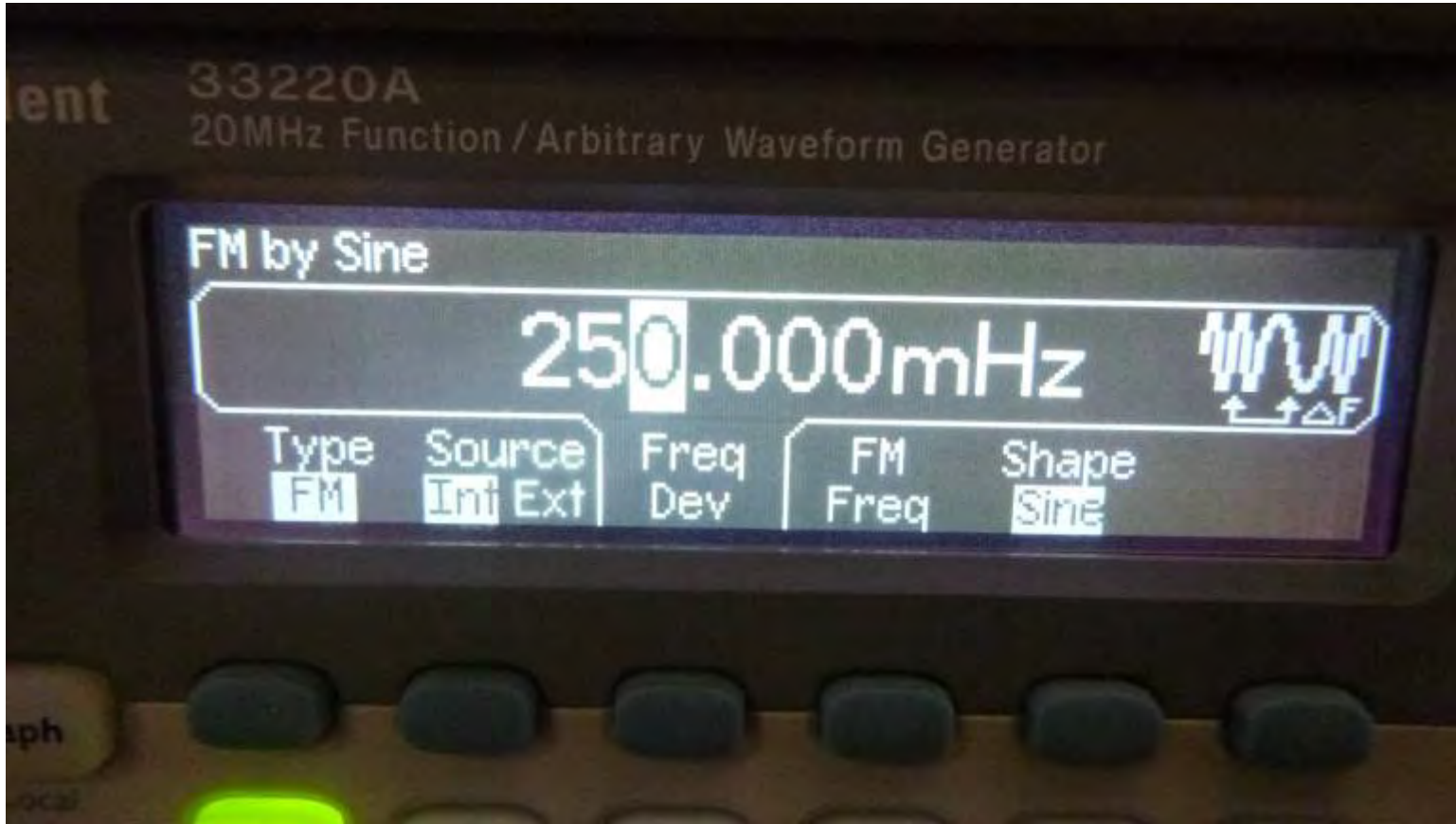
Photograph D-2: EUT setup



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



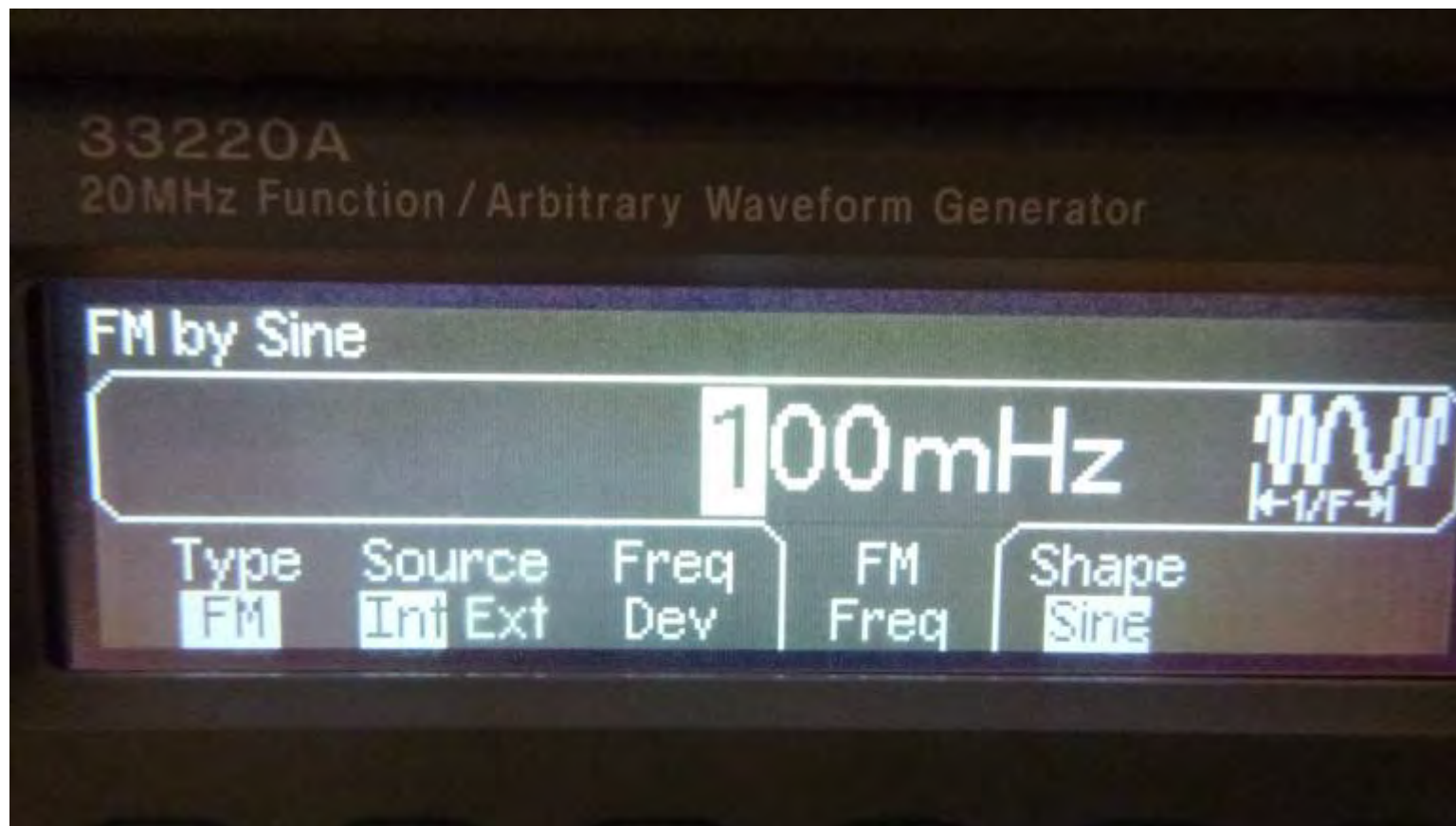
Photograph D-3: Frequency deviation



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



Photograph D-4: 0.1 Hz rate of change



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	6 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



Photograph D-5: 0.5 Hz rate of change



Data sheet
Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	7 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



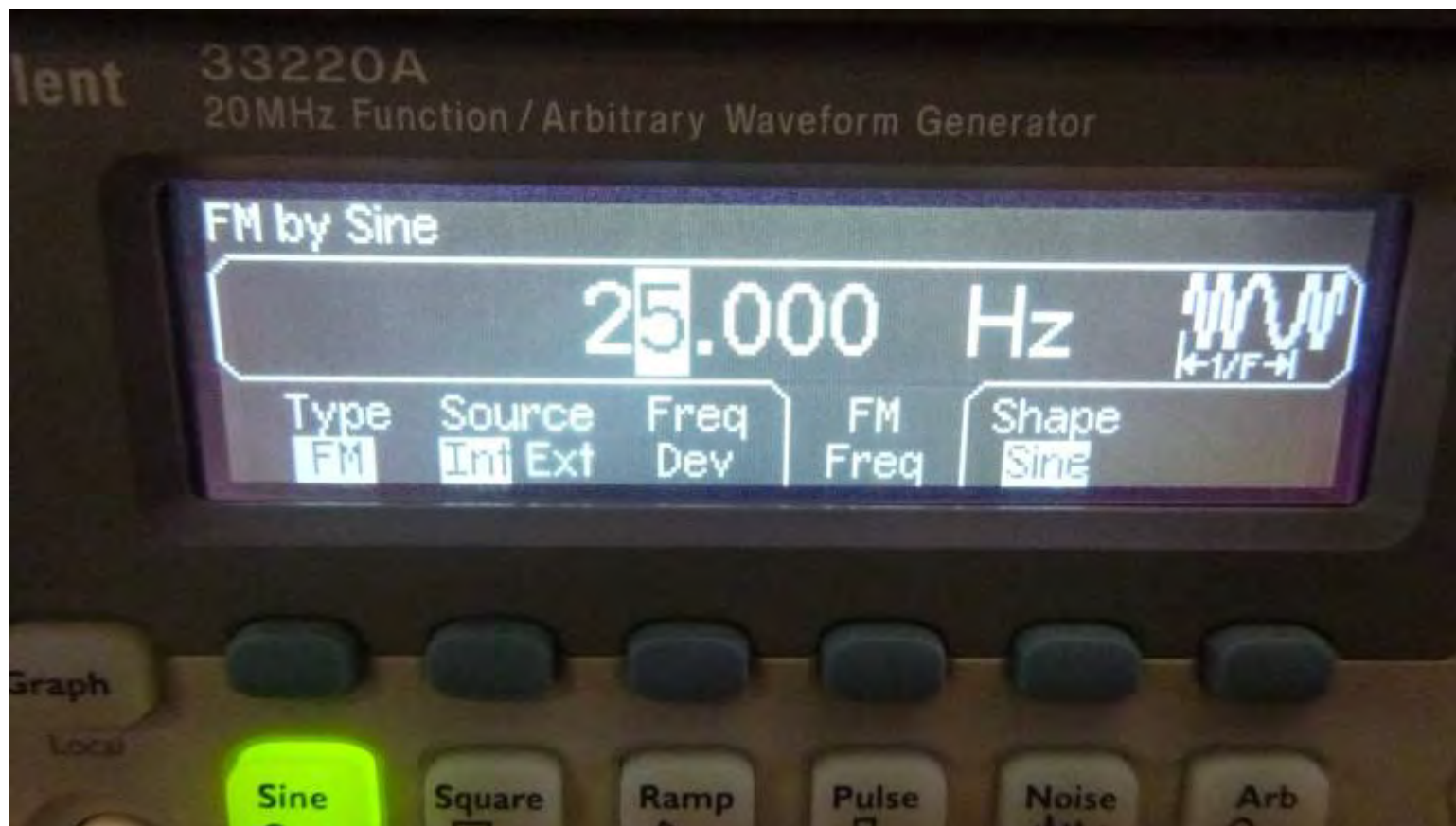
Photograph D-6: 4 Hz rate of change



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	8 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



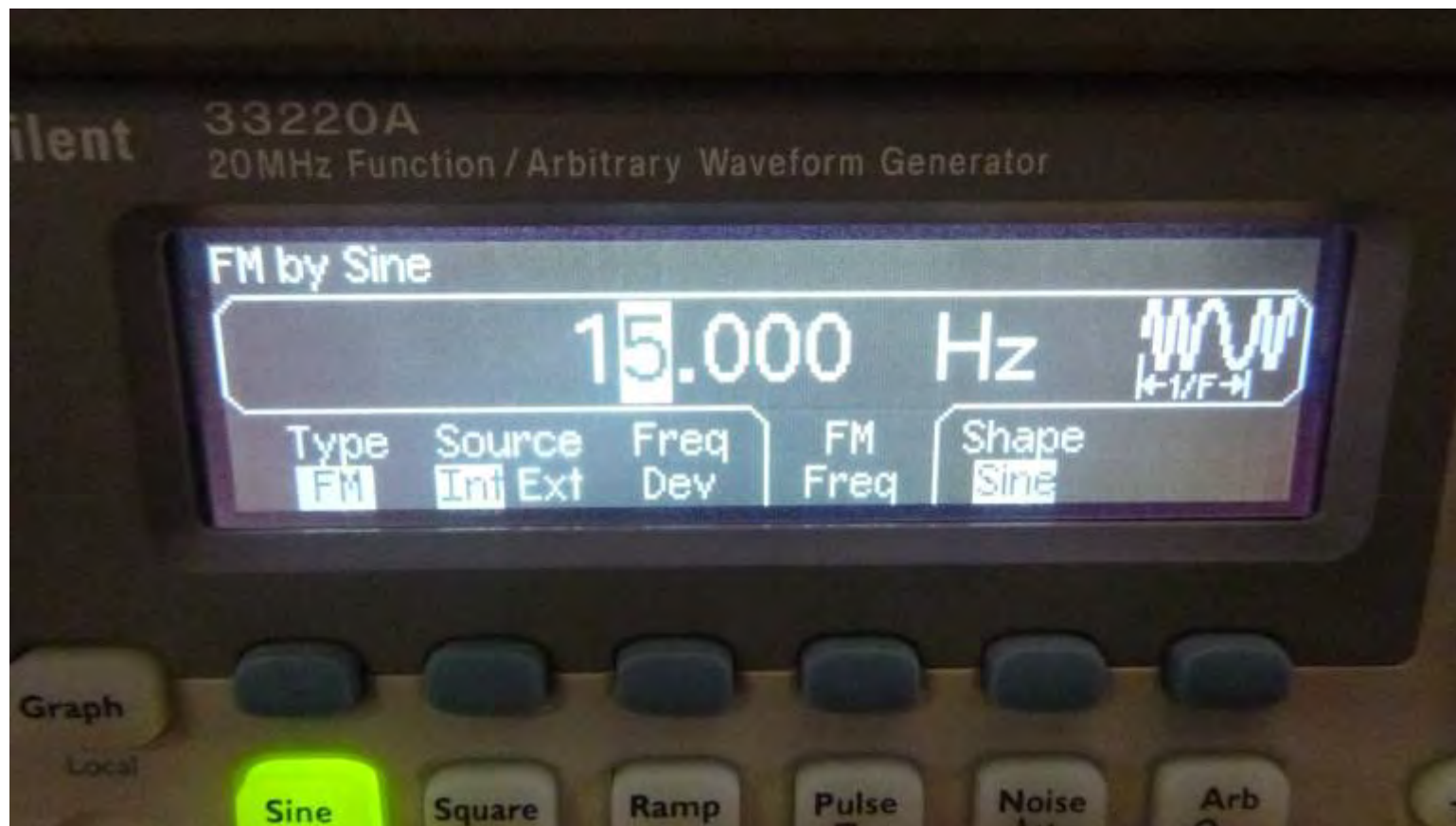
Photograph D-7: 25 Hz rate of change



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	9 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		



Photograph D-8: 15 Hz rate of change



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	10 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

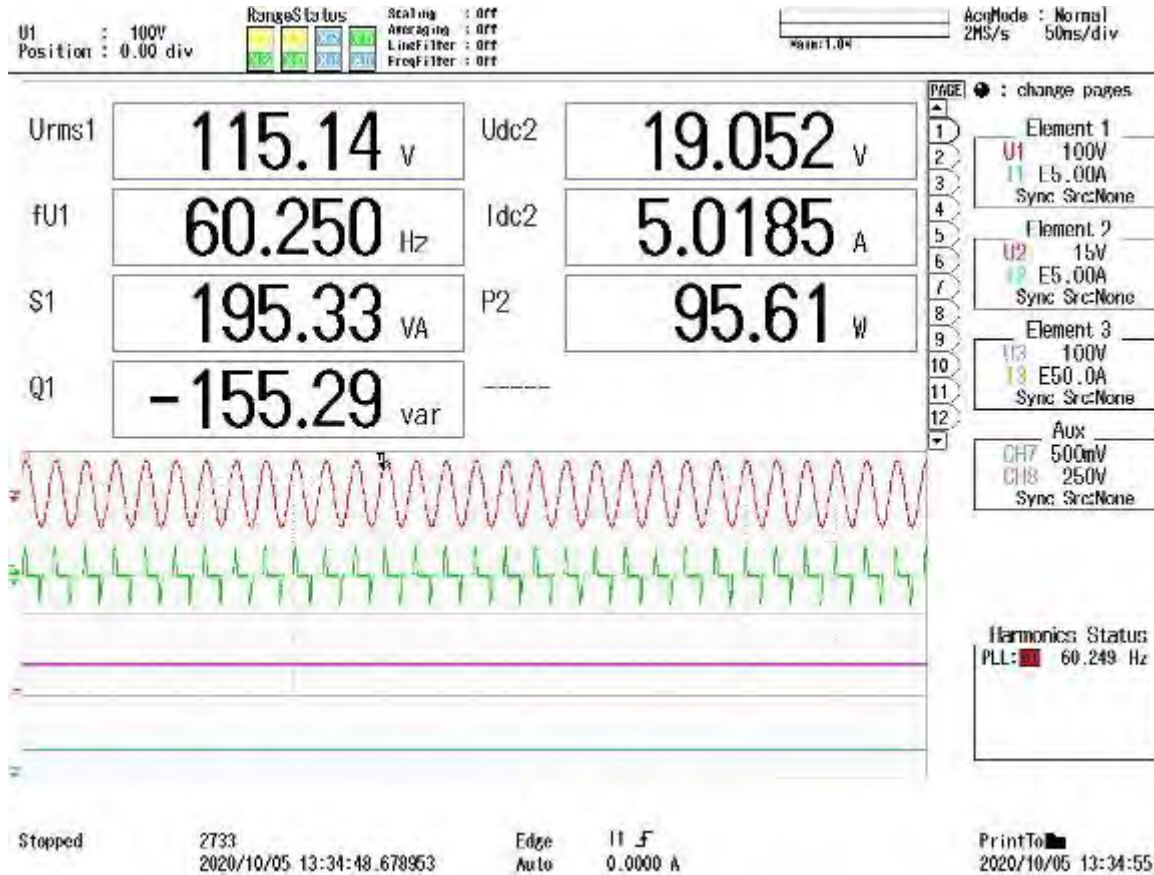


Figure D-1: 60 Hz input, maximum frequency

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	11 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

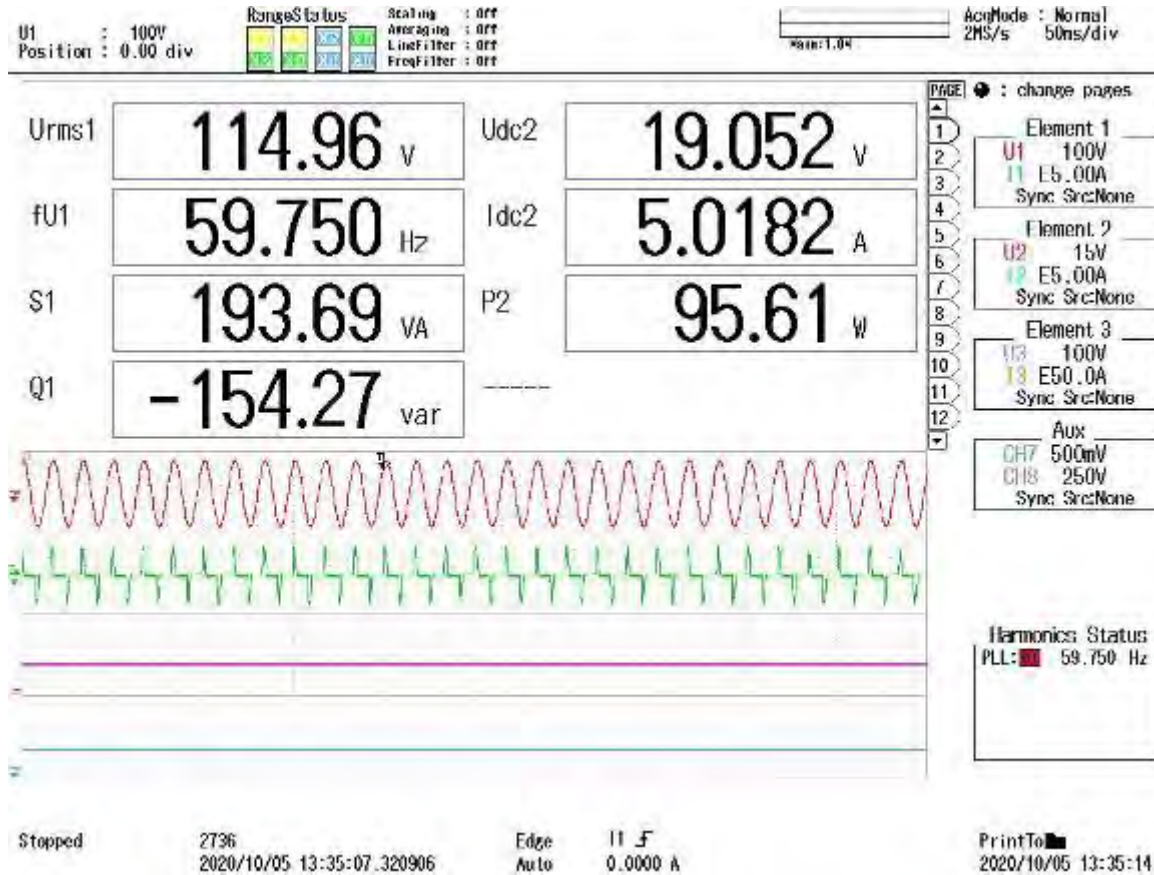


Figure D-2: 60 Hz input, minimum frequency

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	12 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

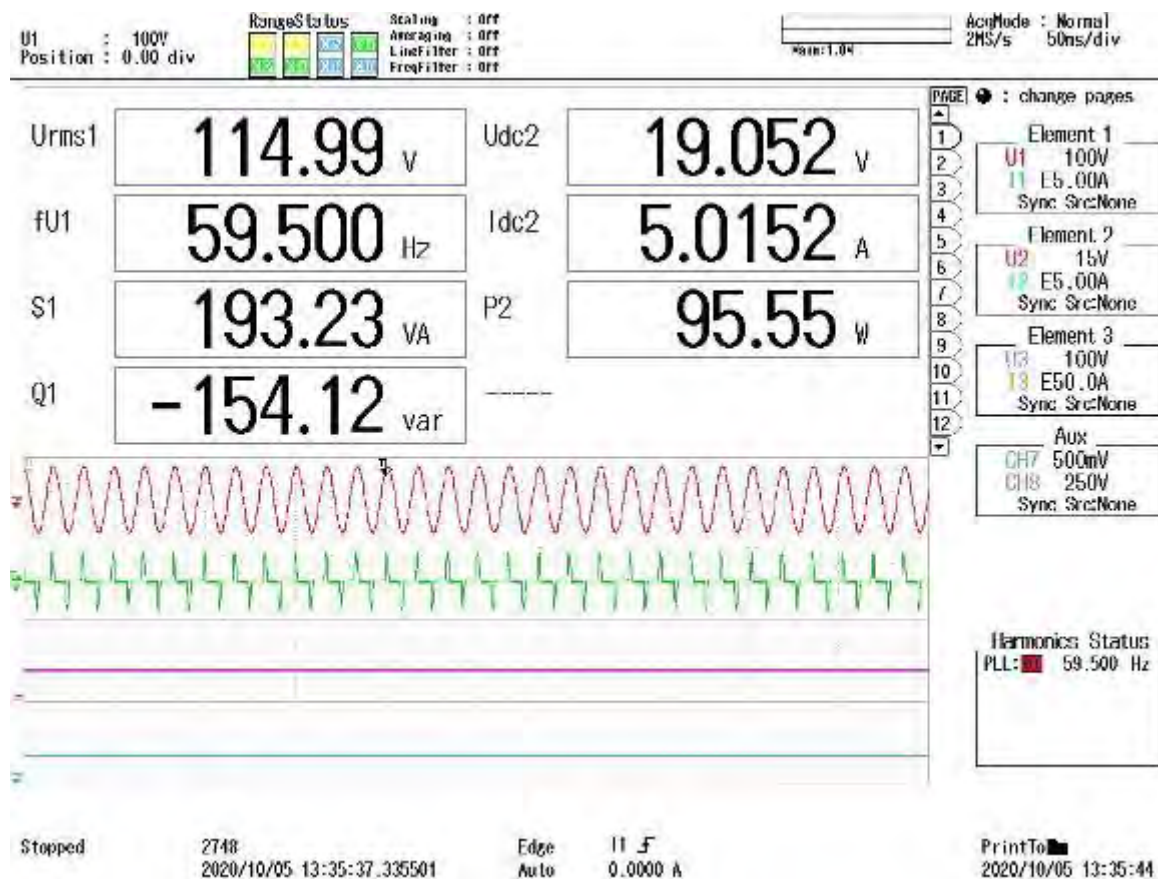


Figure D-3: 59.75 Hz input, minimum frequency

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	13 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

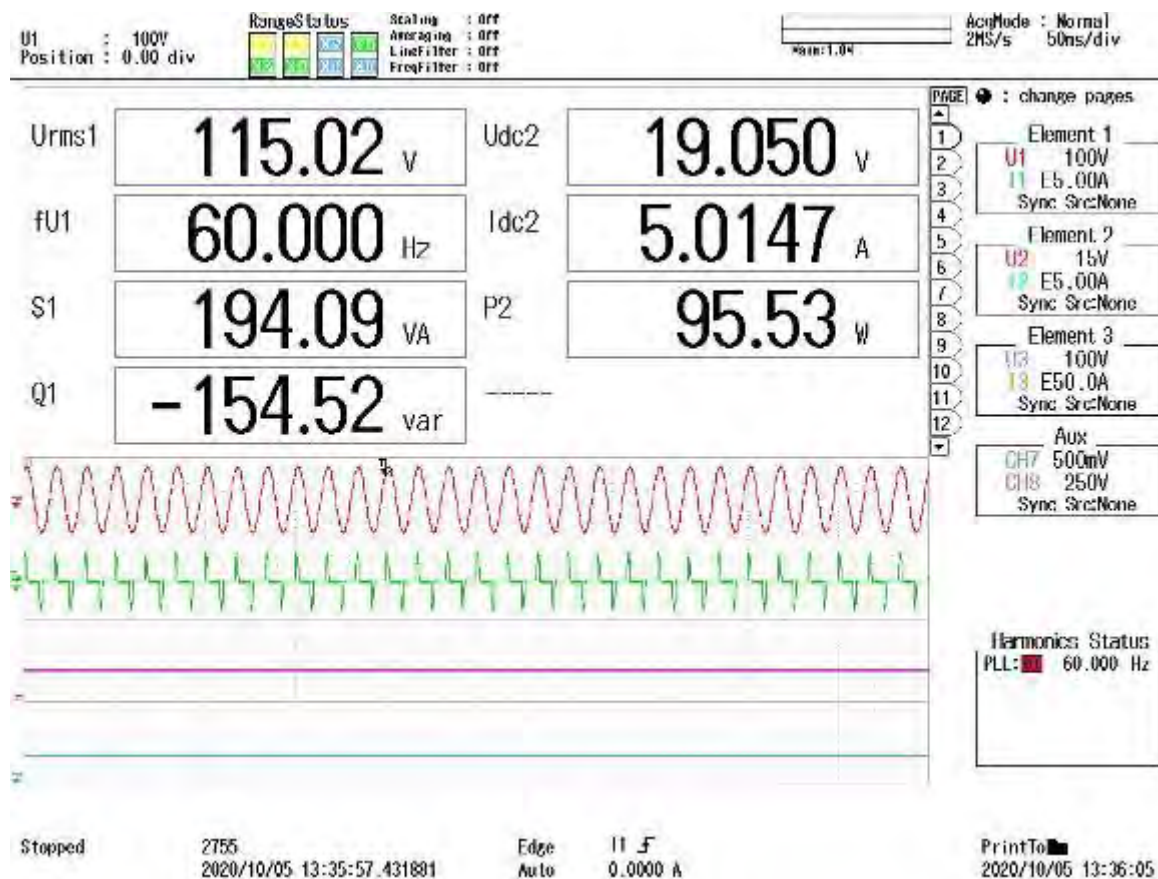


Figure D-4: 59.75 Hz input, maximum frequency

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	14 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

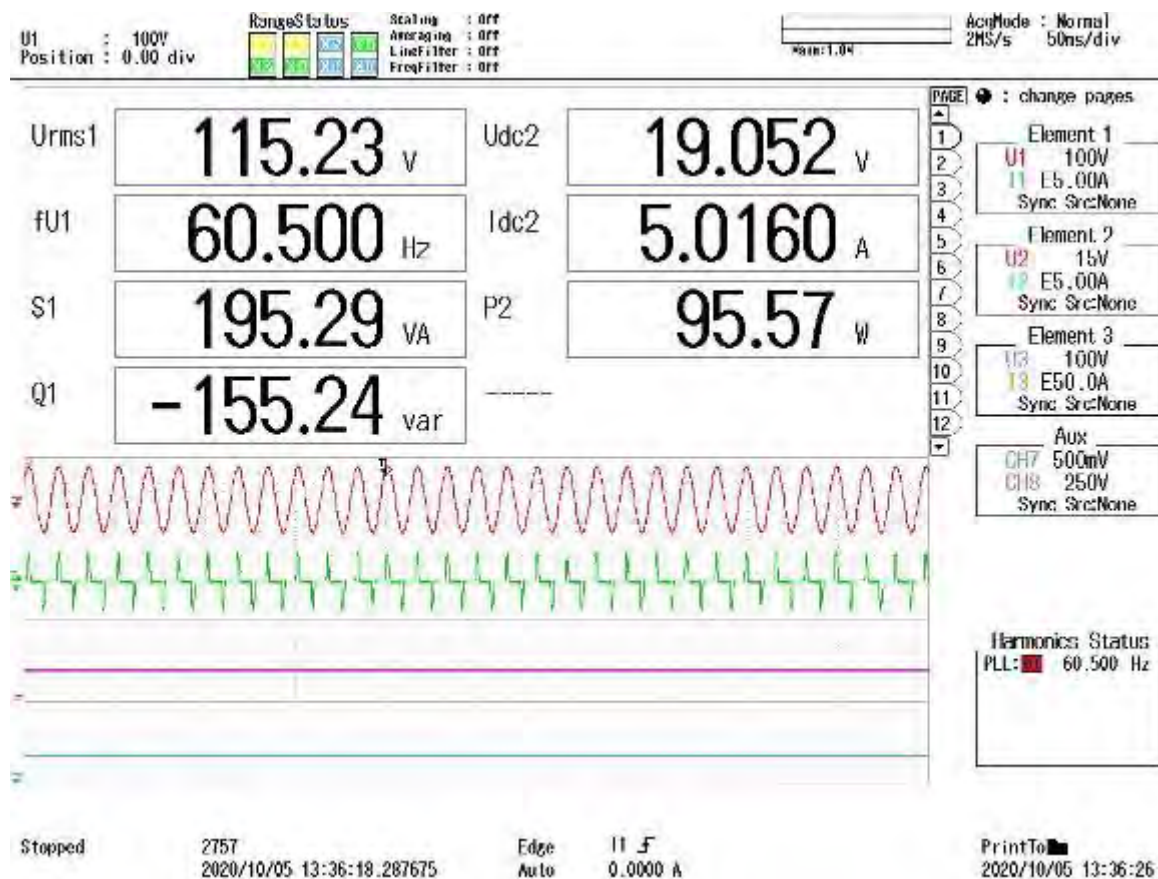


Figure D-5: 60.75 Hz input, minimum frequency

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet Power Input AC, SXF105 Frequency Modulation

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	15 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF105				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/5/2020 to 10/5/2020	Location	Groundplane G4		

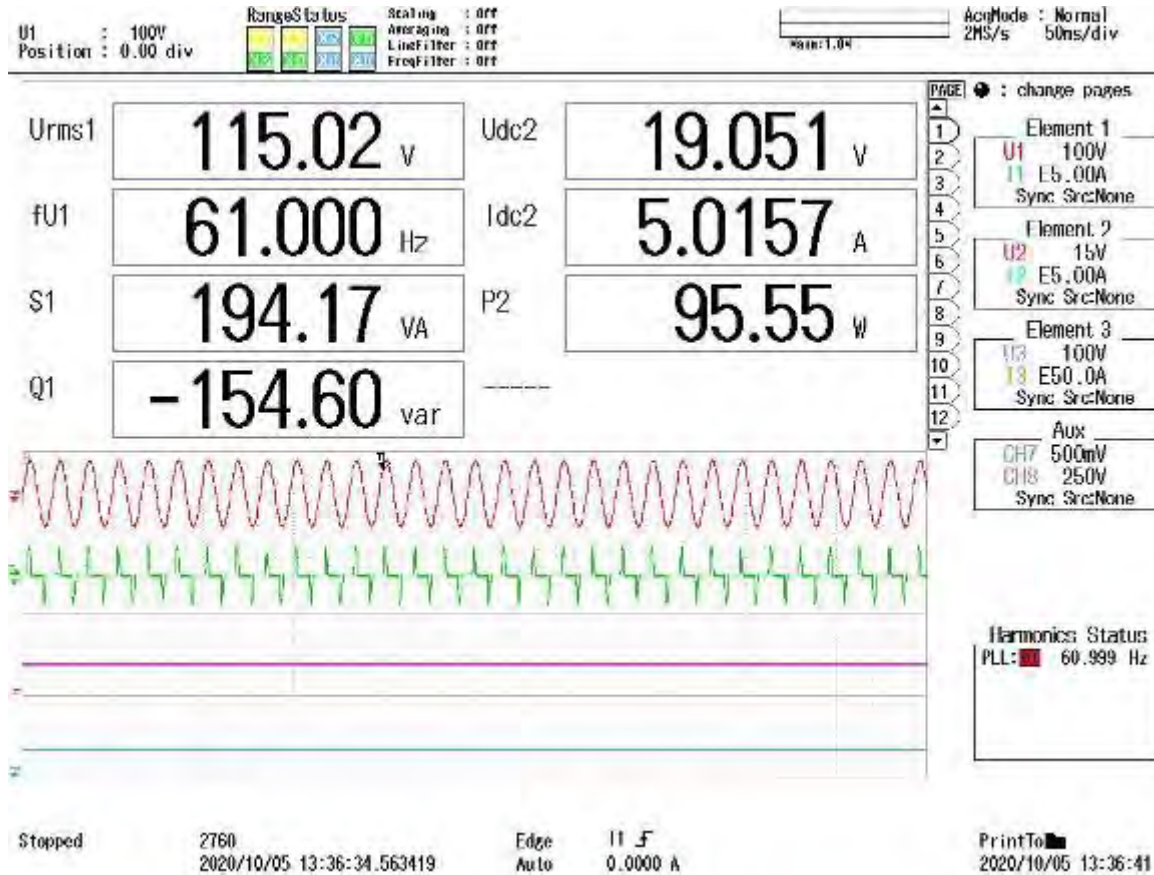


Figure D-6: 60.75 Hz input, maximum frequency

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current

Appendix E: SXF106 Voltage Distortion Spectrum



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary	
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?		
360-060	Power scope	X	380-647	Power supply	N/A		
210-059	Multimeter	X	230-098	Probe	X		
455-013	Transformer	N/A	310-094	Arbitrary waveform generator	X		
350-176	Amplifier	N/A	230-121	Probe	X		
290-015	Micro-ohmmeter	X					

Power Input AC, SXF106 Voltage Distortion Test results							
Input power	EUT mode	Input voltage	Input frequency	Voltage distortion	Duration	Result	Notes
Condition A	N/A	34 mVrms	50 Hz	1.000 Vrms	N/A	N/A	Figure E-1, calibration
Condition B	N/A	102 mVrms	150 Hz	3.162 Vrms	N/A	N/A	Figure E-2, calibration
Condition C	N/A	102 mVrms	450 Hz	3.162 Vrms	N/A	N/A	Figure E-3, calibration
Condition D	N/A	45 mVrms	1 kHz	1.333 Vrms	N/A	N/A	Figure E-4, calibration
Condition E	N/A	18 mVrms	3 kHz	0.473 Vrms	N/A	N/A	Figure E-5, calibration
Condition F	N/A	10 mVrms	5 kHz	0.282 Vrms	N/A	N/A	Figure E-6, calibration
Condition G	N/A	5 mVrms	10 kHz	0.150 Vrms	N/A	N/A	Figure E-7, calibration
Condition A	Operating	34 mVrms	50 Hz	1.000 Vrms	5 min	Pass	Figure E-8
Condition B	Operating	102 mVrms	150 Hz	3.162 Vrms	5 min	Pass	Figure E-9
Condition C	Operating	102 mVrms	450 Hz	3.162 Vrms	5 min	Pass	Figure E-10
Condition D	Operating	45 mVrms	1 kHz	1.333 Vrms	5 min	Pass	Figure E-11
Condition E	Operating	17 mVrms	3 kHz	0.473 Vrms	5 min	Pass	Figure E-12
Condition F	Operating	10 mVrms	5 kHz	0.282 Vrms	5 min	Pass	Figure E-13
Condition G	Operating	5 mVrms	10 kHz	0.150 Vrms	5 min	Pass	Figure E-14

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet
Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

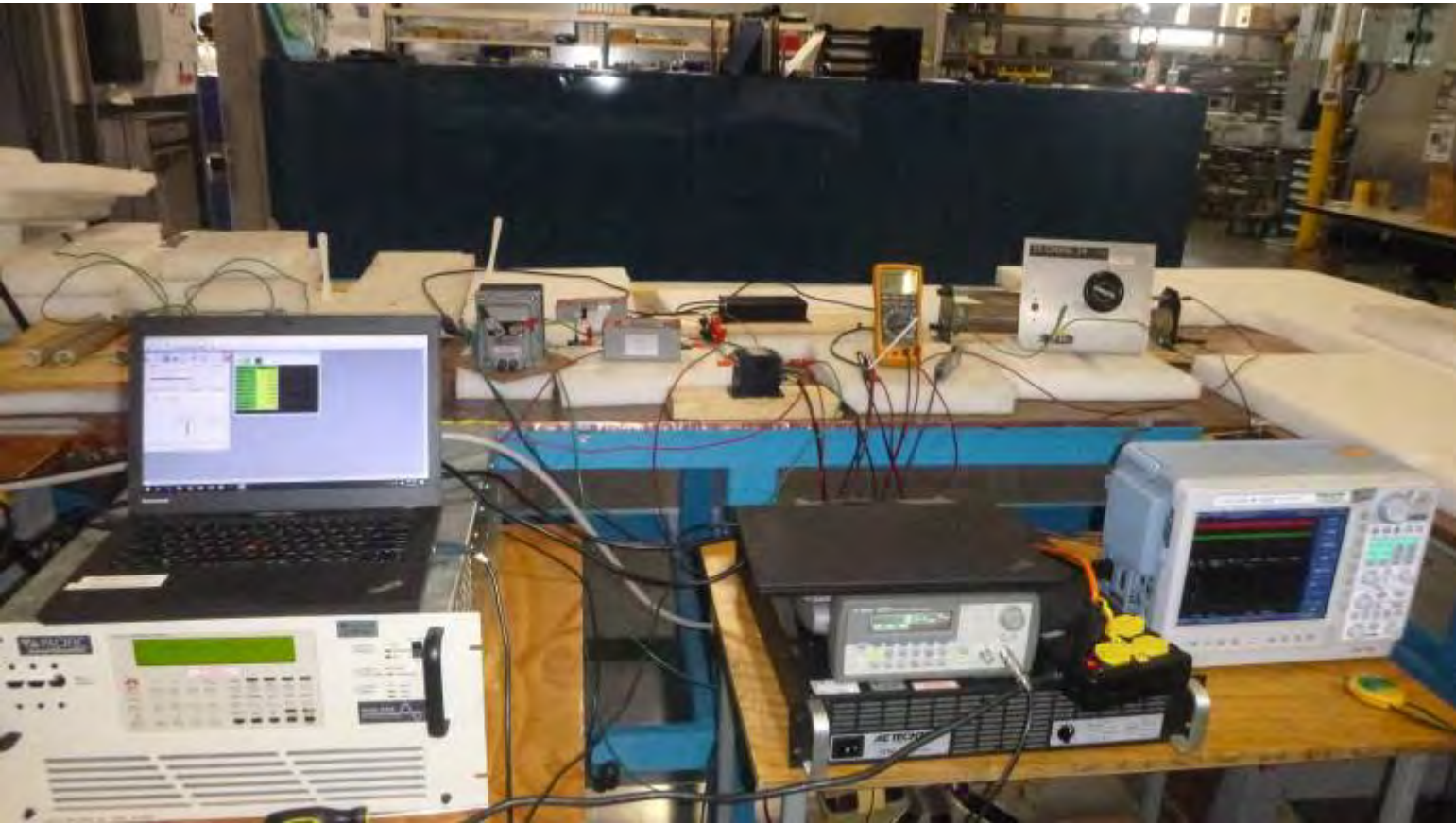


Photograph E-1: EUT identification



Data sheet
Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		



Photograph E-2: Test setup



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

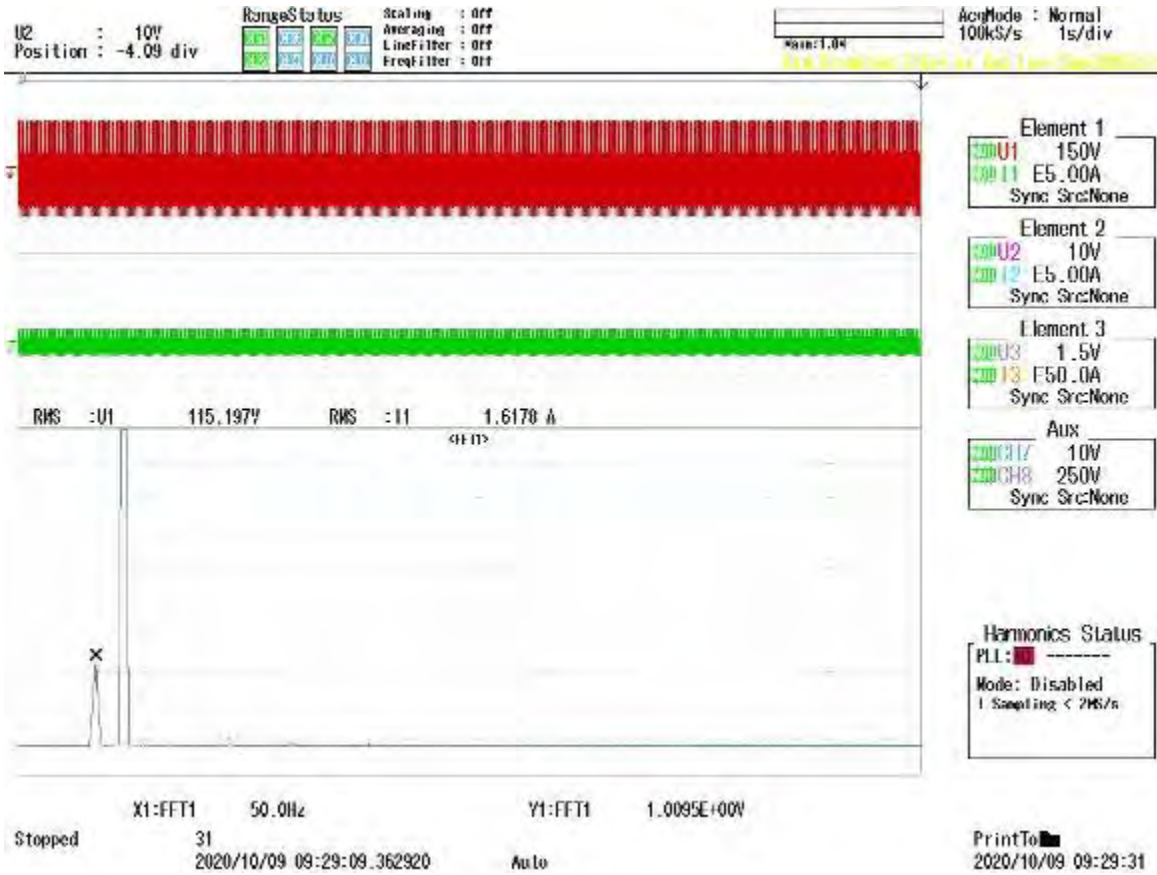


Figure E-1: Condition A, calibration

Channel U1 = voltage; channel I1 = current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

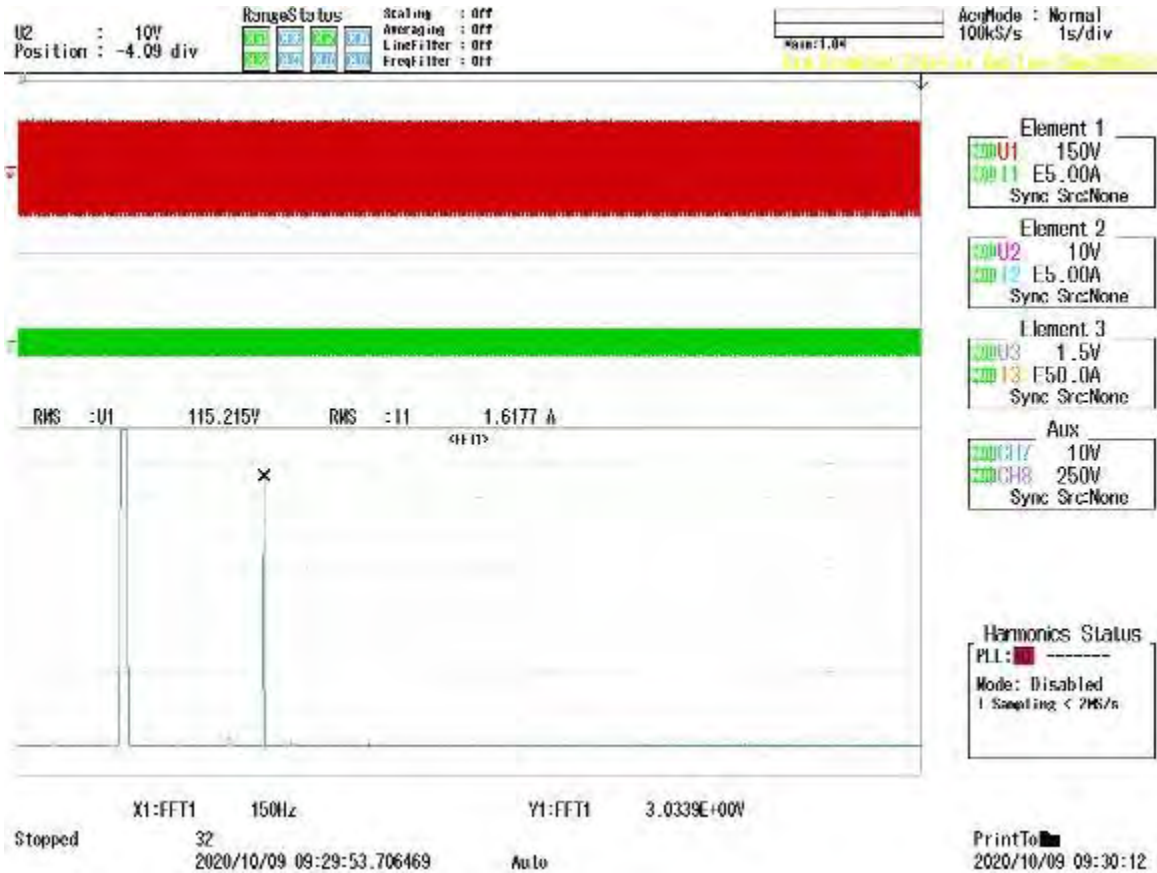


Figure E-2: Condition B, calibration

Channel U1 = voltage; channel I1 = current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	6 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

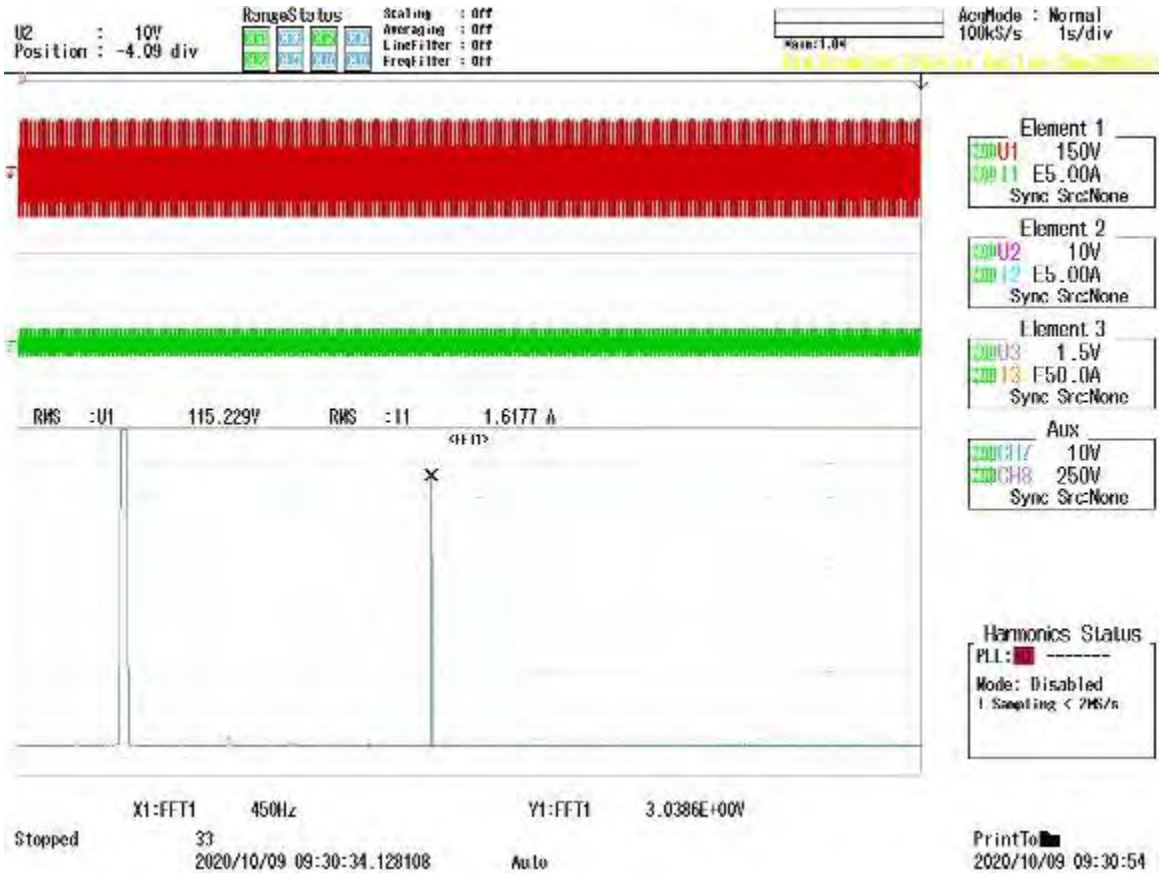


Figure E-3: Condition C, calibration

Channel U1 = voltage; channel I1 = current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	7 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

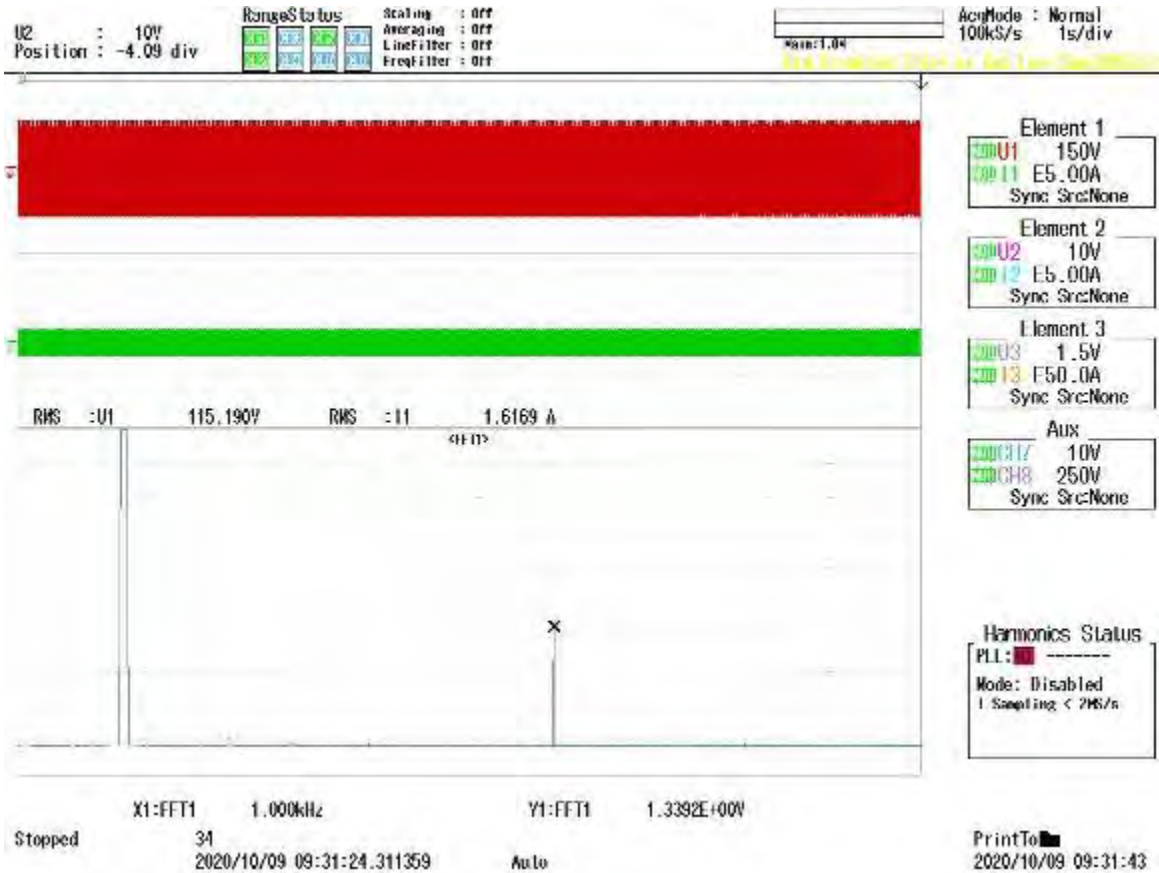


Figure E-4: Condition D, calibration

Channel U1 = voltage; channel I1 = current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	8 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

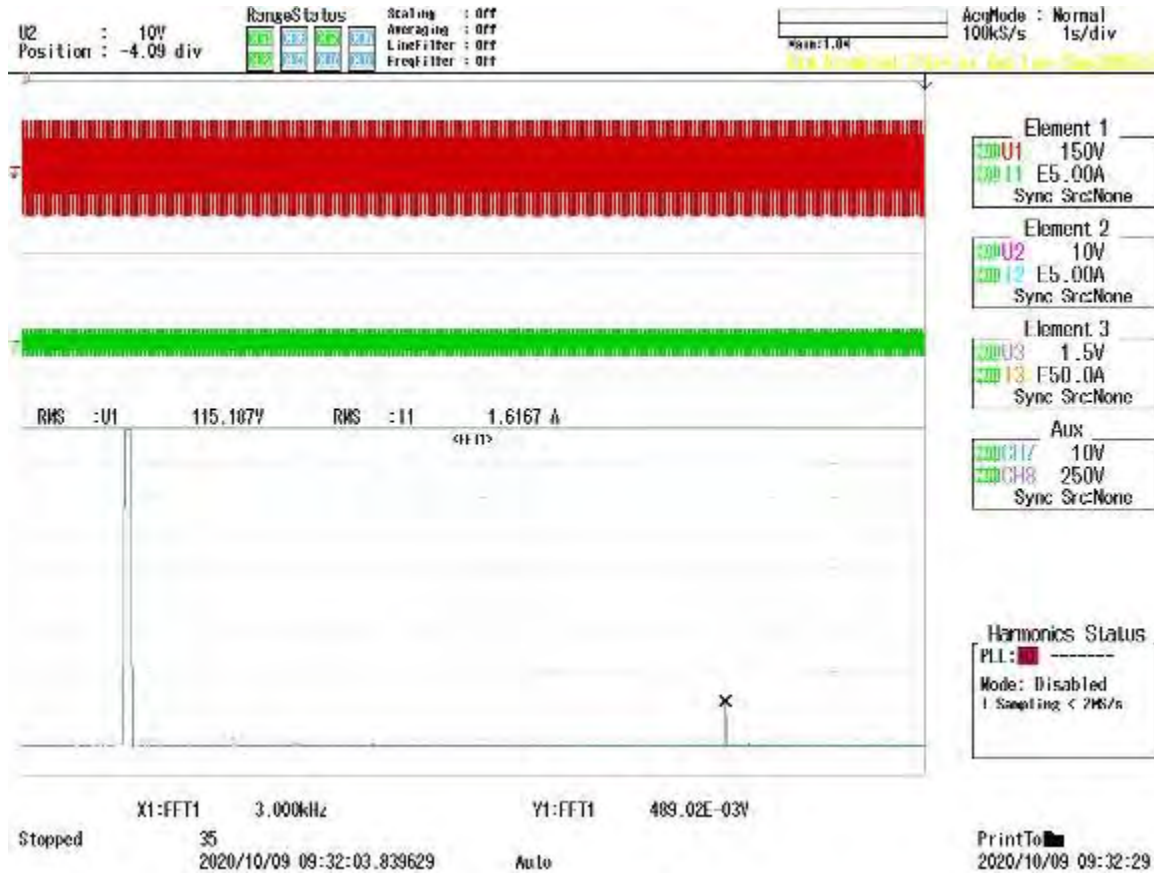


Figure E-5: Condition E, calibration

Channel U1 = voltage; channel I1 = current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	9 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

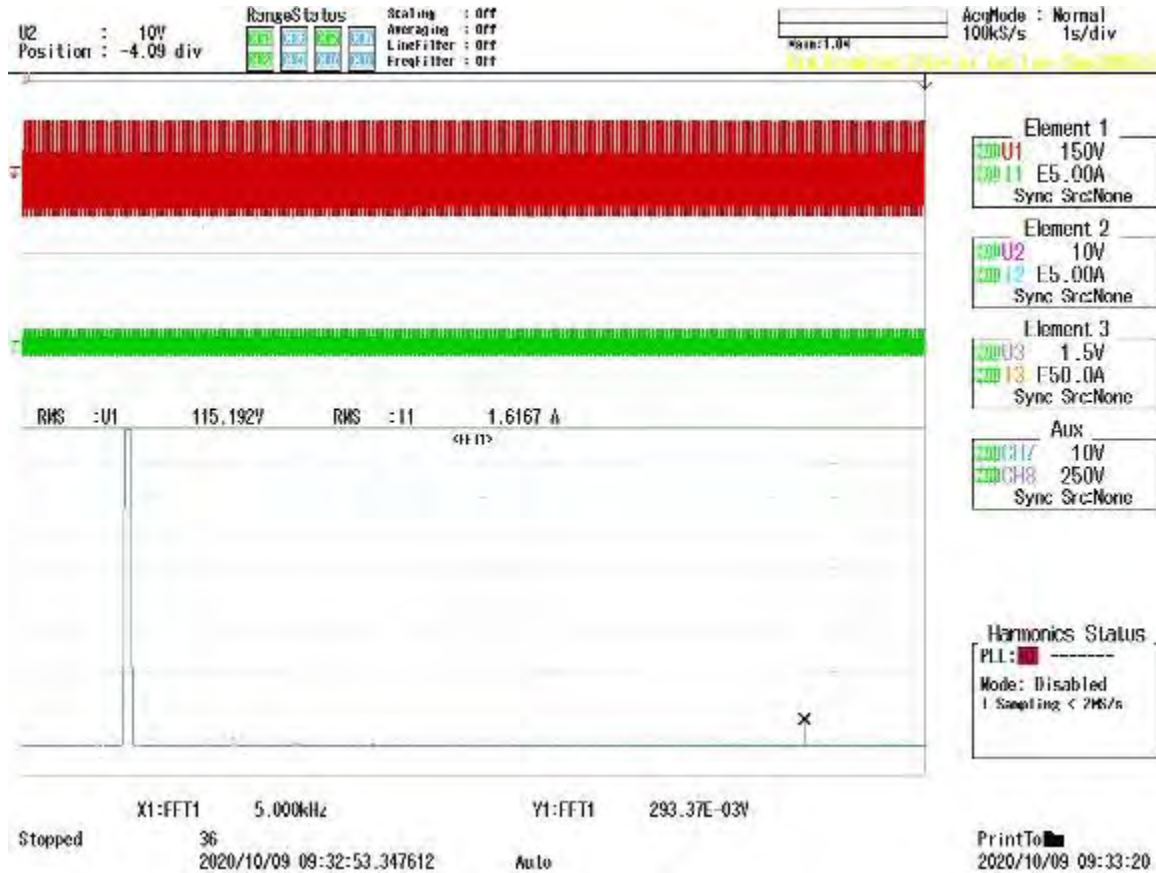


Figure E-6: Condition F, calibration

Channel U1 = voltage; channel I1 = current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	10 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

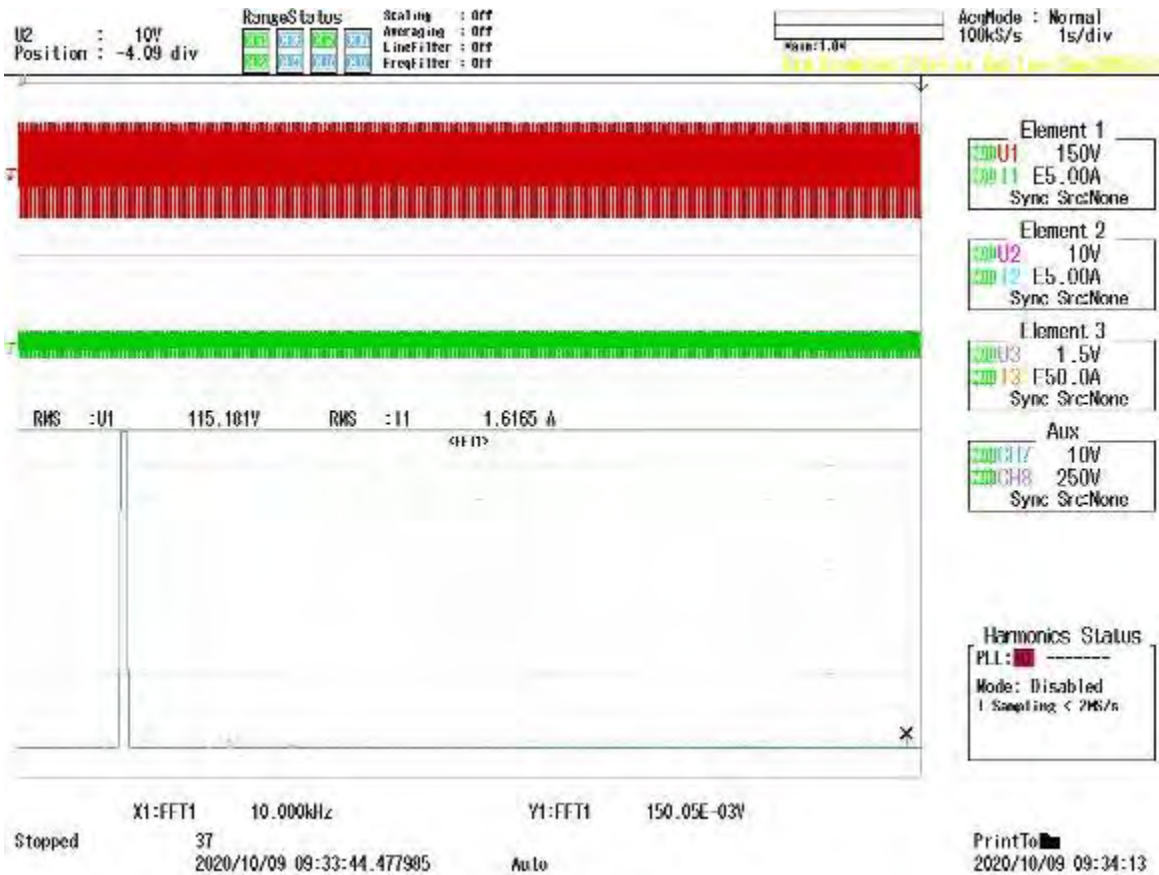


Figure E-7: Condition G, calibration

Channel U1 = voltage; channel I1 = current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	11 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

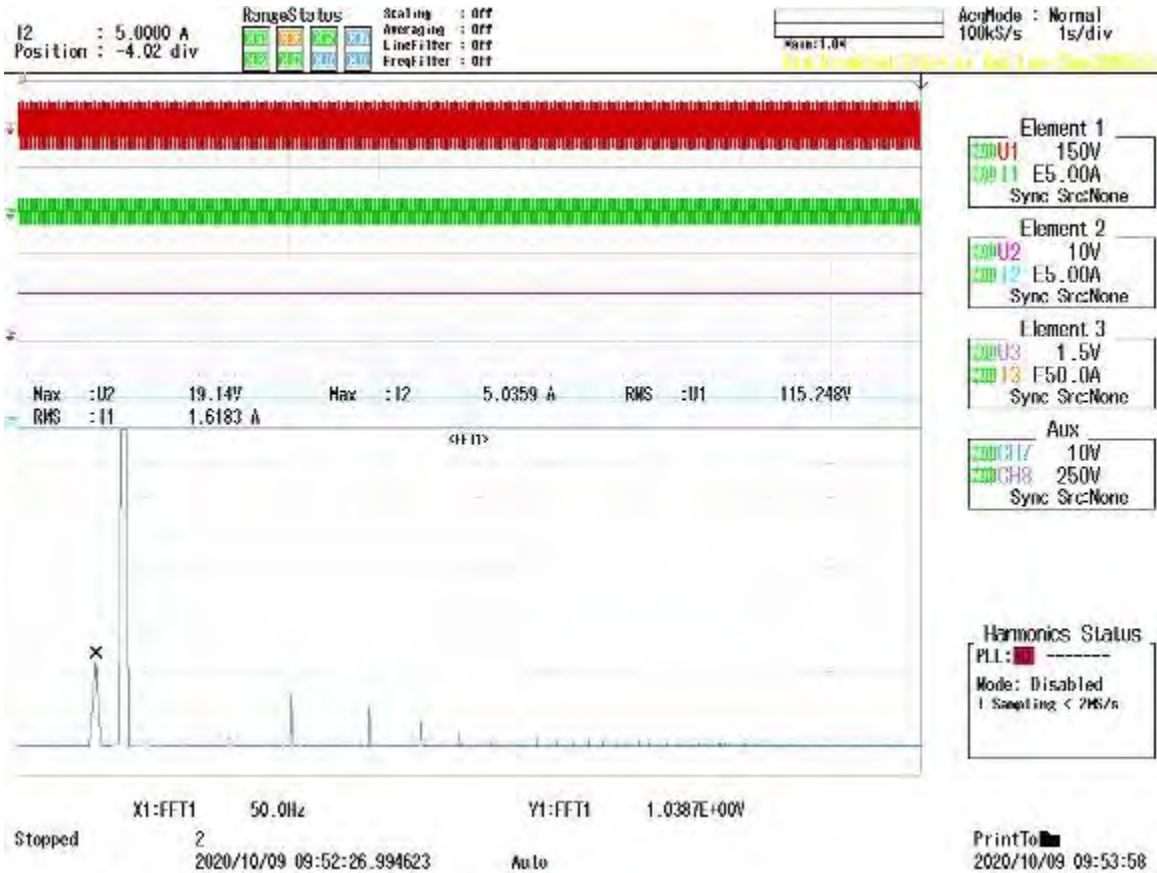


Figure E-8: Condition A

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	12 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

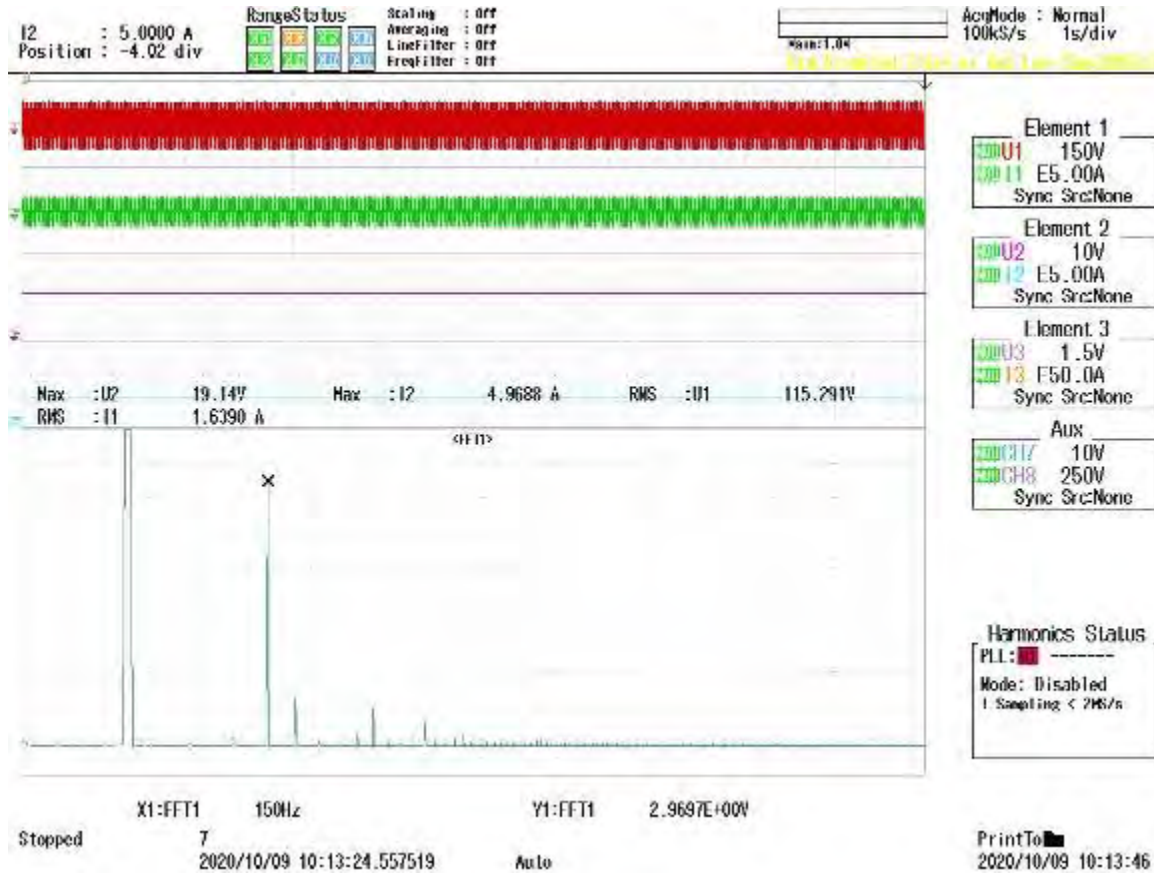


Figure E-9: Condition B

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	13 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

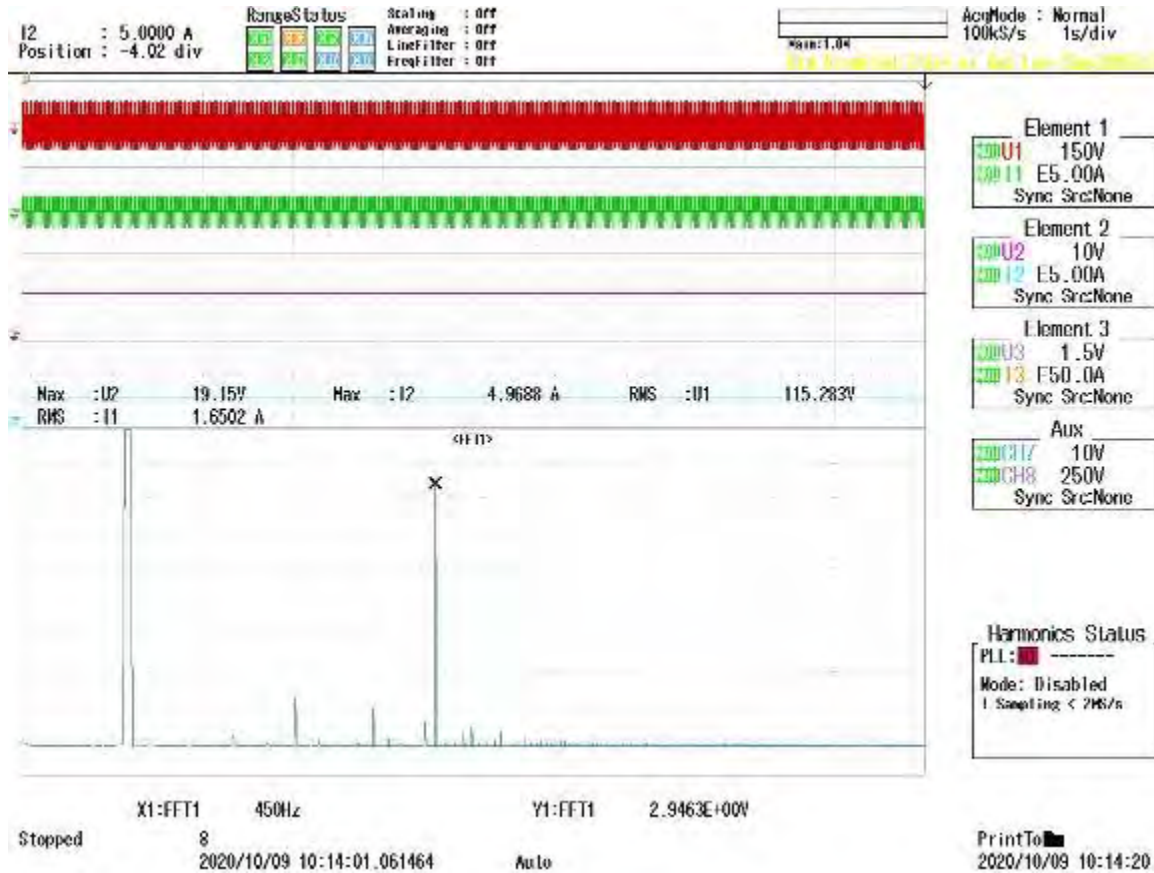


Figure E-10: Condition C

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	14 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

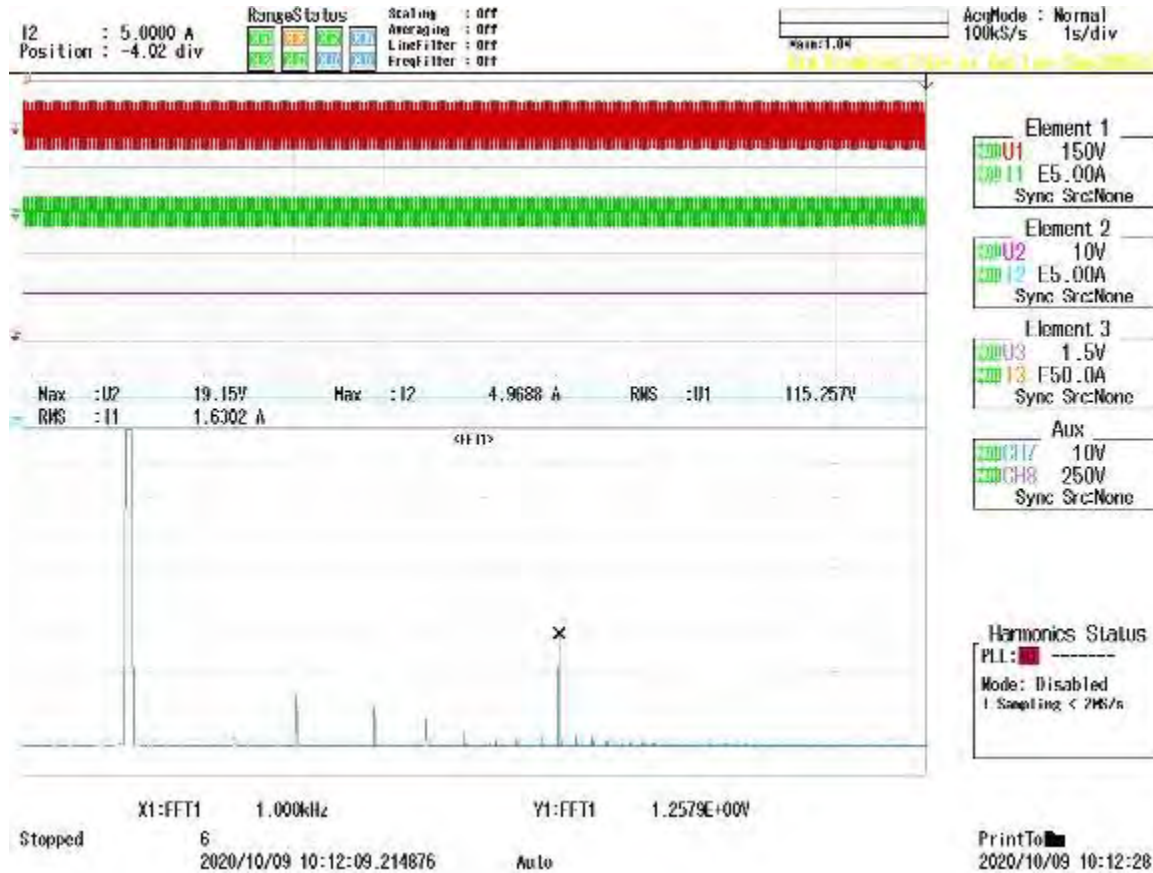


Figure E-11: Condition D

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	15 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

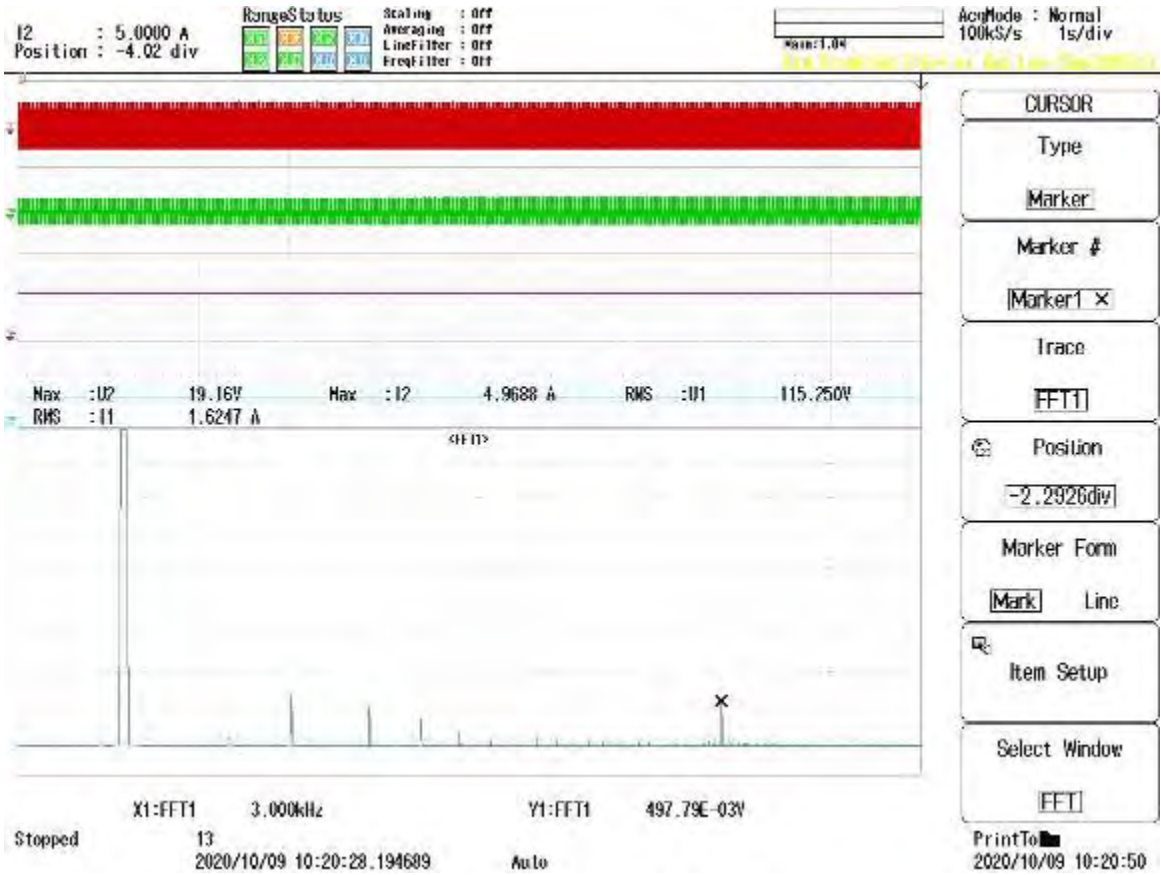


Figure E-12: Condition E

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	16 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

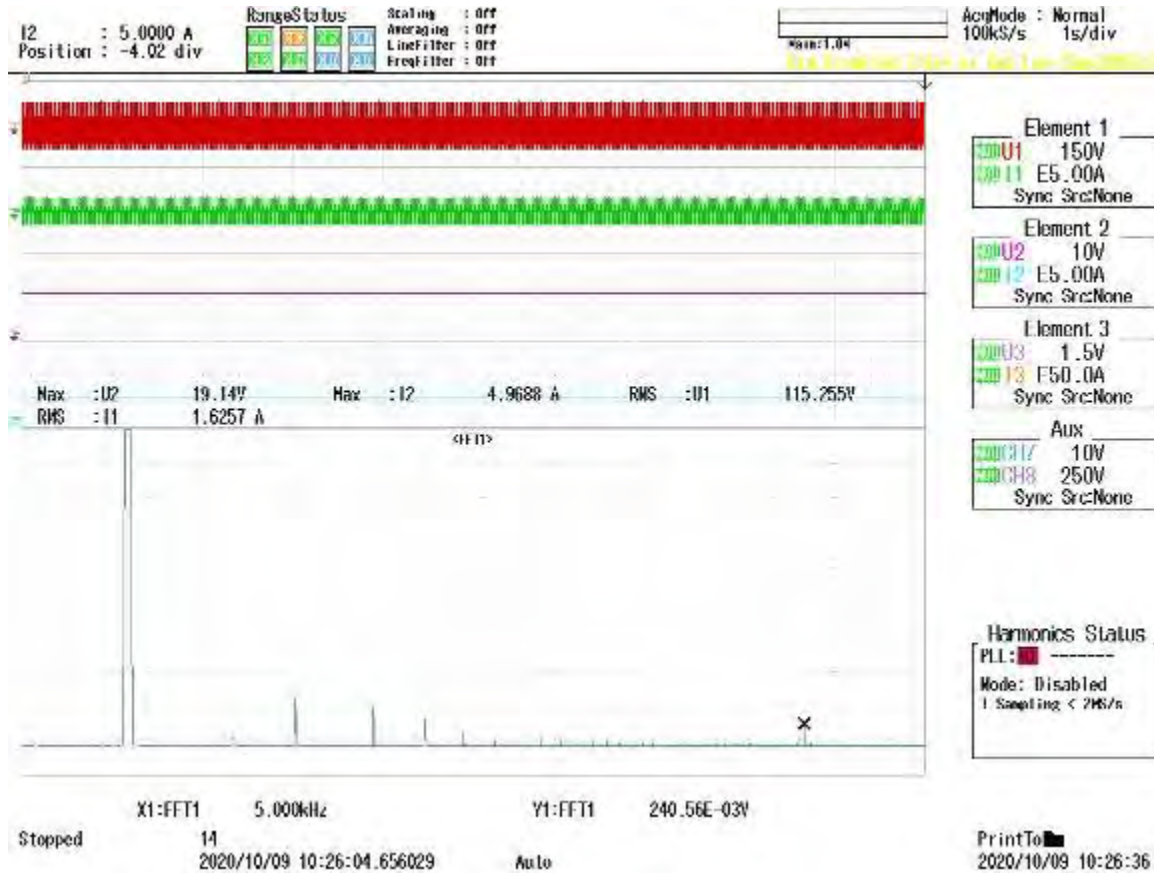


Figure E-13: Condition F

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF106 Voltage Distortion Spectrum

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	17 of 17
Project number	61179	Specification	MIL-HDBK-704-6, SXF106				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

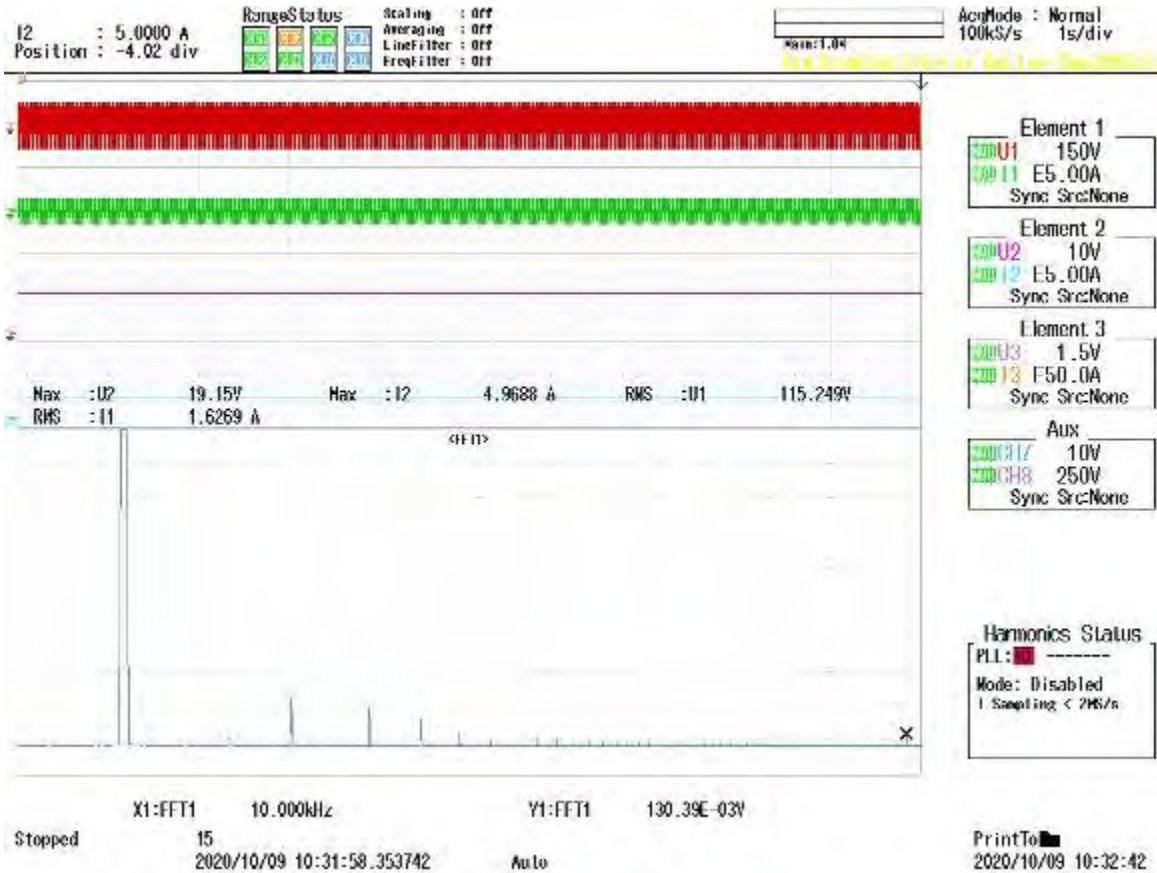


Figure E-14: Condition G

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current

Appendix F: SXF107 Total Voltage Distortion



Data sheet

Power Input AC, SXF107 Total Voltage Distortion

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF107				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
360-060	Power scope	X	380-647	Power supply	N/A	
210-059	Multimeter	X	230-098	Probe	X	
230-121	Probe	X	290-015	Micro-ohmmeter	X	

Power Input AC, SFX107SXF107 Voltage Distortion Spectrum Test results					
EUT mode	Nominal voltage	Frequency	Interval	Result	Notes
N/A	115 Vac	60 Hz	N/A	N/A	Figure F-1, calibration
Operating	115 Vac	60 Hz	30 min	Pass	Figure F-2

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet

Power Input AC, SXF107 Total Voltage Distortion

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF107				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

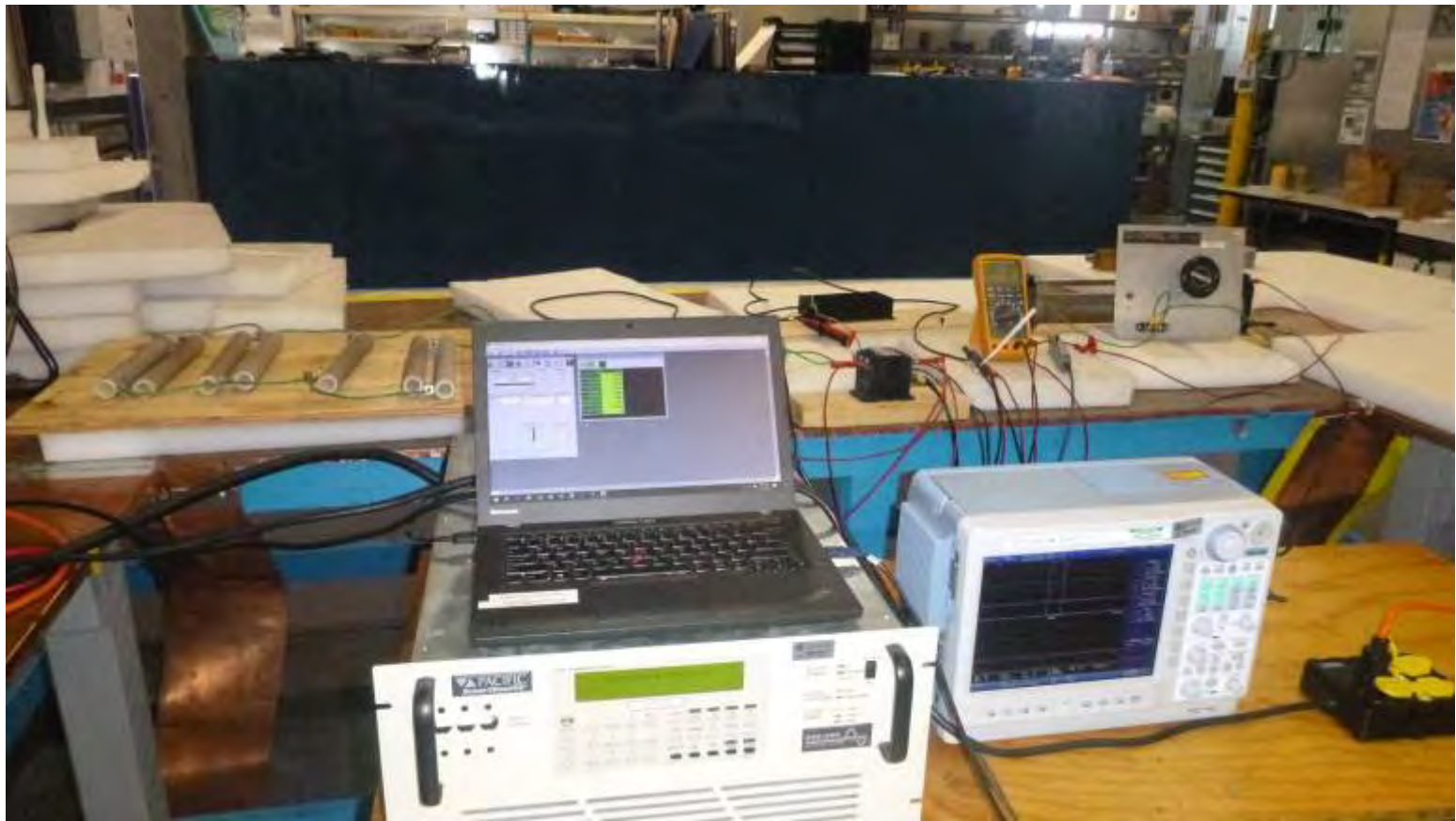


Photograph F-1: EUT identification



Data sheet
Power Input AC, SXF107 Total Voltage Distortion

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF107				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph F-2: Test setup



Data sheet

Power Input AC, SXF107 Total Voltage Distortion

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF107				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

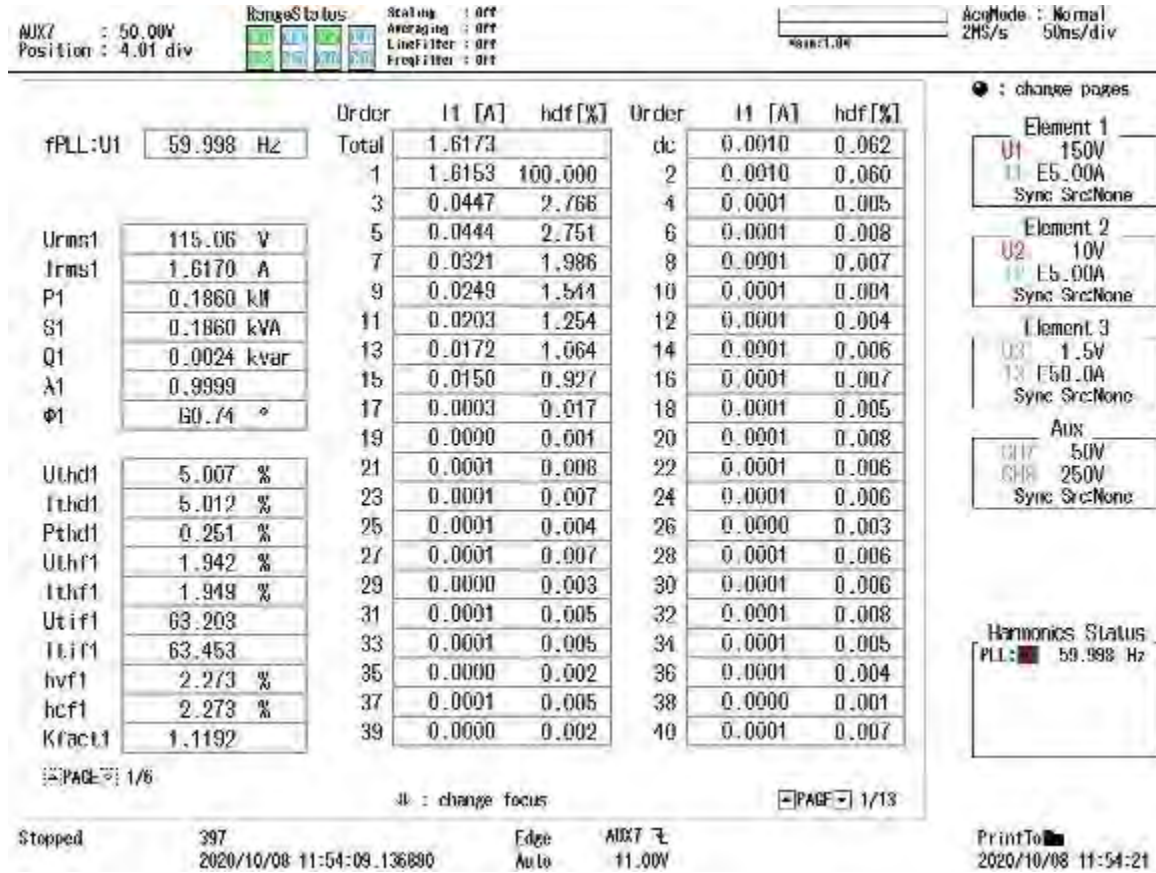


Figure F-1: Calibration



Data sheet

Power Input AC, SXF107 Total Voltage Distortion

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF107				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

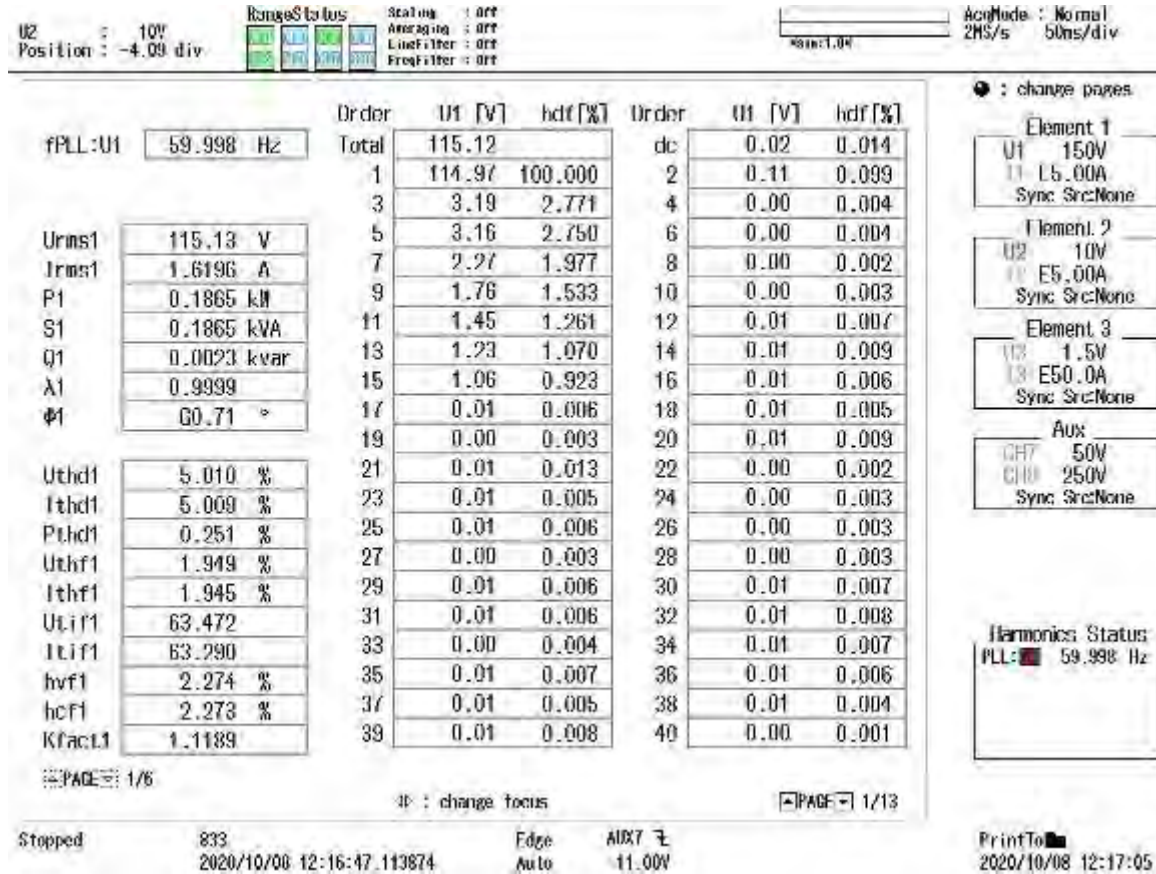


Figure F-2: Total voltage distortion

Appendix G: SXF108 DC Voltage Component



Data sheet

Power Input AC, SXF108 DC Voltage Component

Company name	Lind Electronic Desing Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF108				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/2/2020 to 10/2/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary	
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?		
360-060	Power scope	X	310-094	Arbitrary waveform generator	X		
350-153	Amplifier	N/A	230-098	Probe	X		
230-121	Probe	X	210-059	Multimeter	X		
400-072	Stopwatch	X	290-015	Micro-ohmmeter	X		

Power Input AC, SFX108 DC Voltage Component Test results							
Primary input power	EUT mode	Input voltage	Input frequency	Applied dc content	Duration	Result	Notes
115 Vac	Operating	115 Vac	60 Hz	0.10 Vdc	30 min	Pass	Figure G-1
115 Vac	Operating	115 Vac	60 Hz	-0.10 Vdc	30 min	Pass	Figure G-2

Bonding results		
From	To	Milli-ohms
EUT grounding lug	Groundplane	3.85



Data sheet

Power Input AC, SXF108 DC Voltage Component

Company name	Lind Electronic Desing Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF108				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/2/2020 to 10/2/2020	Location	Groundplane G4		



Photograph G-3: EUT identification



Data sheet

Power Input AC, SXF108 DC Voltage Component

Company name	Lind Electronic Desing Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF108				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/2/2020 to 10/2/2020	Location	Groundplane G4		



Photograph G-4: Test setup



Data sheet

Power Input AC, SXF108 DC Voltage Component

Company name	Lind Electronic Desing Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF108				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/2/2020 to 10/2/2020	Location	Groundplane G4		

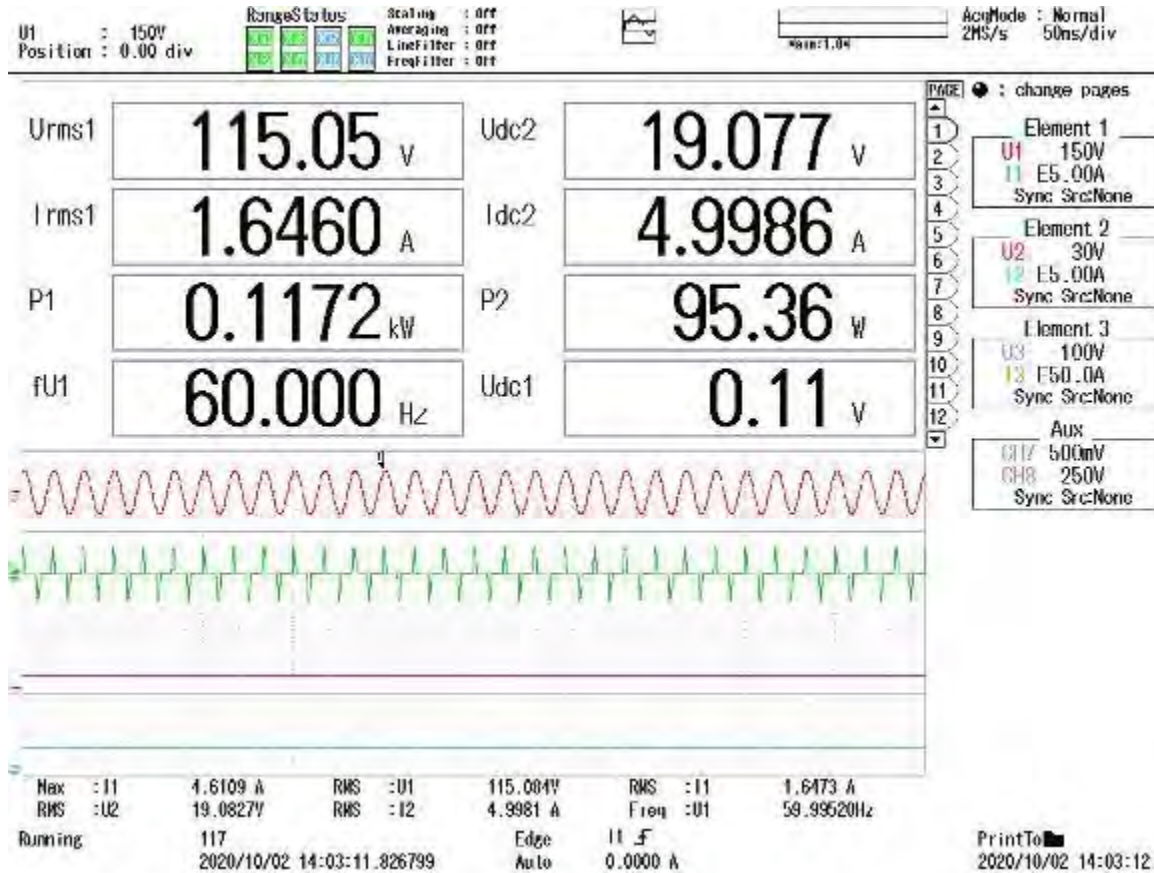


Figure G-19: DC voltage component, positive

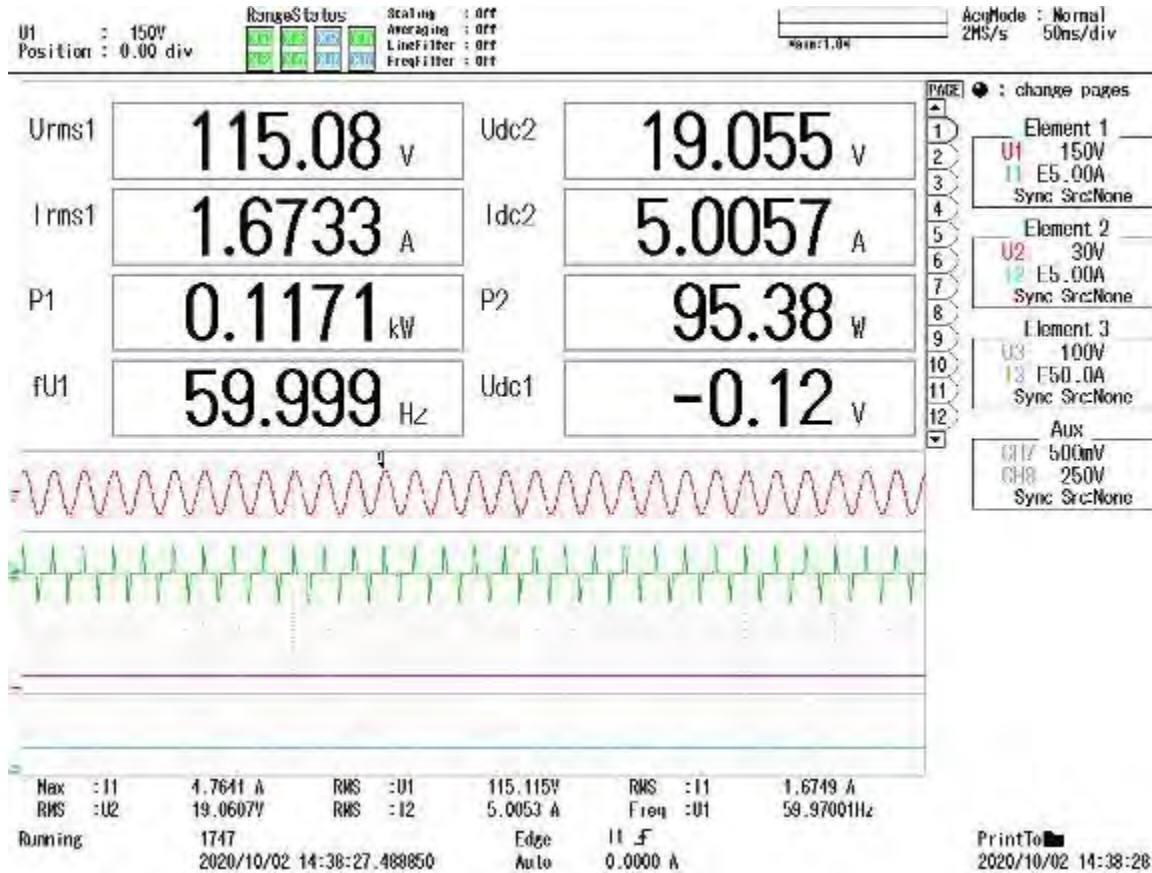
Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current



Data sheet

Power Input AC, SXF108 DC Voltage Component

Company name	Lind Electronic Desing Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF108				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/2/2020 to 10/2/2020	Location	Groundplane G4		



Appendix H: SXF109 Normal Voltage Transients



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
360-060	Power scope	X	210-059	Multimeter	X	
230-098	Probe	X	310-094	Arbitrary waveform generator	X	
310-036	Arbitrary waveform generator	N/A	350-153	Amplifier	N/A	
230-121	Probe	X	290-015	Micro-ohmmeter	X	

Power Input AC, SXF109 Normal Voltage Transients Test results							
Test condition	Nominal voltage	Transient voltage	Transient duration	EUT mode	Repetitions	Result	Notes
A	115 Vac	152 Vac	8.333 mSec	N/A	N/A	N/A	Figures H-1 through H-3, calibration
B	115 Vac	130 Vac	16.666 mSec	N/A	N/A	N/A	Figures H-4 through H-6, calibration
C	115 Vac	130 Vac	16.666 mSec	N/A	N/A	N/A	Figures H-7 through H-9, calibration
D	115 Vac	130 Vac, 3 times	16.666 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures H-10 through H-13, calibration
E	115 Vac	31 Vac	8.333 mSec	N/A	N/A	N/A	Figures H-14 through H-16, calibration
F	115 Vac	70 Vac	16.666 mSec	N/A	N/A	N/A	Figures H-17 through H-19, calibration
G	115 Vac	70 Vac	16.666 mSec	N/A	N/A	N/A	Figures H-20 through H-22, calibration
H	115 Vac	70 Vac, 3 times	16.666 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures H-23 through H-26, calibration
I	115 Vac	70 Vac, then 130 Vac	16.666 mSec, then 16.666 mSec	N/A	N/A	N/A	Figures H-27 through H-32, calibration
Repetitive normal voltage transients	115 Vac	decreasing from 115 Vac to 100 Vac in 8.333 mSec, then increasing to 128 Vac in 50 mSec	Every 0.5 Sec for 30 min	N/A	N/A	N/A	Figures H-33 through H-36, calibration
A	115 Vac	152 Vac	8.333 mSec	Operating, 5A load	5	Pass	Figure H-37
B	115 Vac	130 Vac	16.666 mSec	Operating, 5A load	5	Pass	Figure H-38
C	115 Vac	130 Vac	16.666 mSec	Operating, 5A load	5	Pass	Figure H-39
D	115 Vac	130 Vac, 3 times	16.666 mSec, every 0.5 Sec	Operating, 5A load	5	Pass	Figure H-40
E	115 Vac	31 Vac	8.333 mSec	Operating, 5A load	5	Pass	Figure H-41
F	115 Vac	70 Vac	16.666 mSec	Operating, 5A load	5	Pass	Figure H-42
G	115 Vac	70 Vac	16.666 mSec	Operating, 5A load	5	Pass	Figure H-43
H	115 Vac	70 Vac, 3 times	16.666 mSec, every 0.5 Sec	Operating, 5A load	5	Pass	Figure H-44
I	115 Vac	70 Vac, then 130 Vac	16.666 mSec, then 16.666 mSec	Operating, 5A load	5	Pass	Figure H-45



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.			Performed by	JTS	Reviewed by		Pages	2 of 50
Project number	61179			Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ			Test date(s)	10/8/2020 to 10/8/2020		Location	Groundplane G4	
Power Input AC, SXF109 Normal Voltage Transients Test results									
Test condition	Nominal voltage	Transient voltage	Transient duration		EUT mode	Repetitions	Result	Notes	
Repetitive normal voltage transients	115 Vac	decreasing from 115 Vac to 100 Vac in 8.333 mSec, then increasing to 128 Vac in 50 mSec	Every 0.5 Sec for 30 min		Operating, 5A load	N/A	Pass	Figure H-46	
Bonding results									
From			To			Milli-ohms			
EUT grounding lug			Groundplane			3.85			



Data sheet
Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph H-1: EUT identification



Data sheet
Power Input AC, SXF109 Normal Voltage Transients

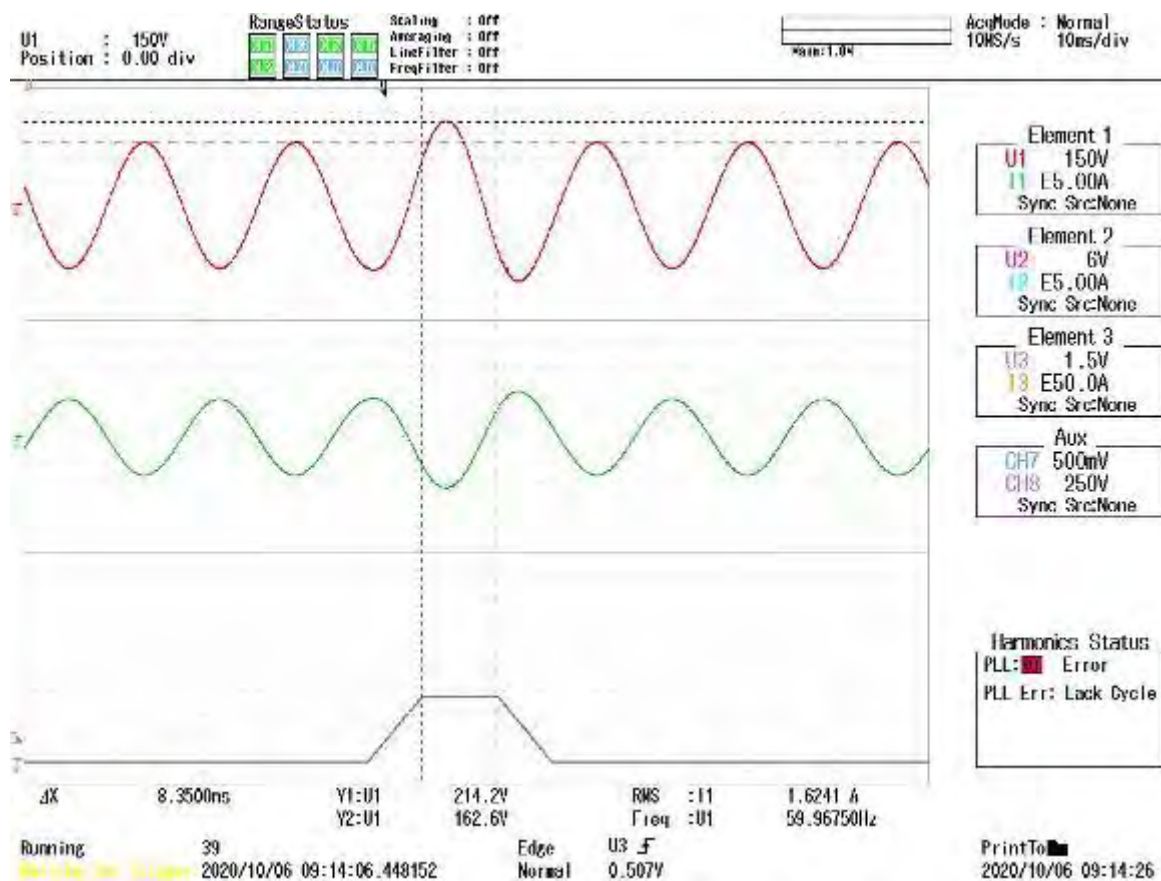
Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph H-2: Test setup

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	6 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

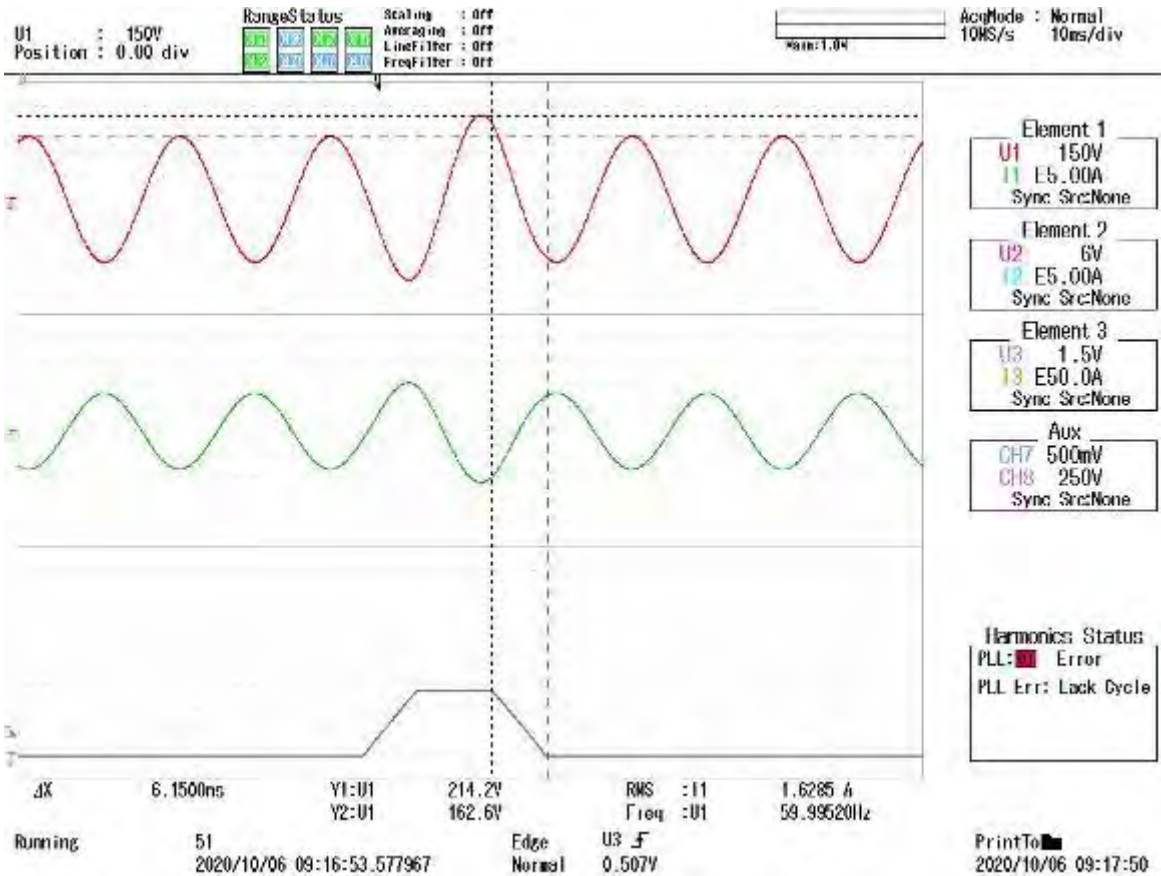


Figure H-2: Condition A, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	7 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

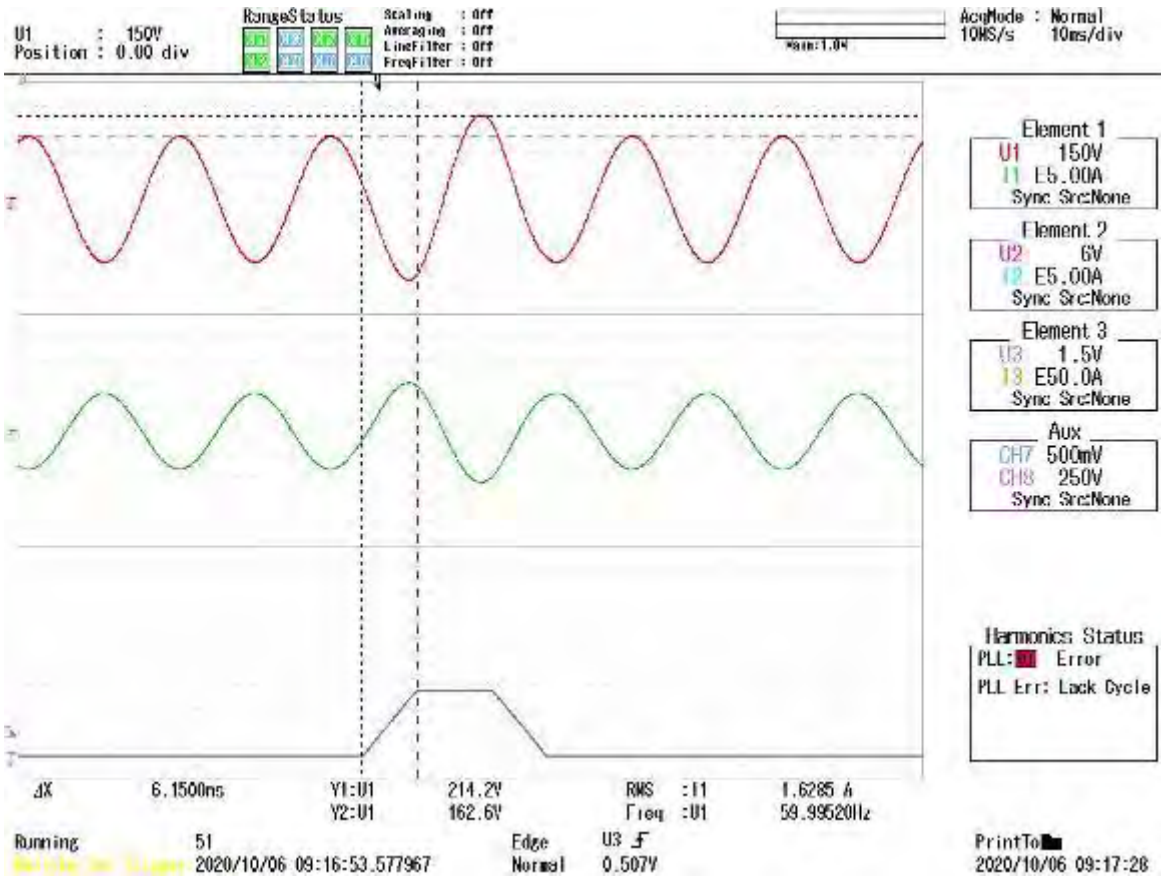


Figure H-3: Condition A, rise time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	8 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

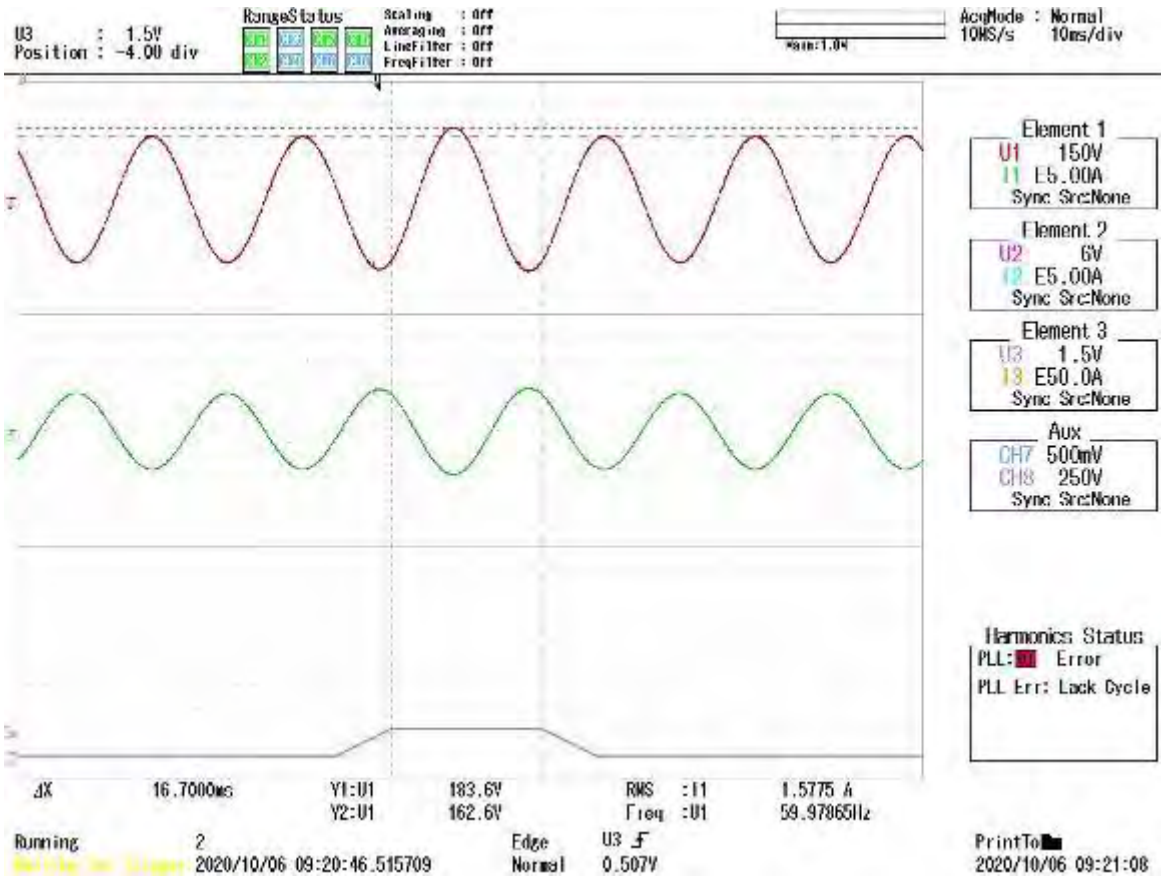


Figure H-4: Condition B, duration, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	9 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

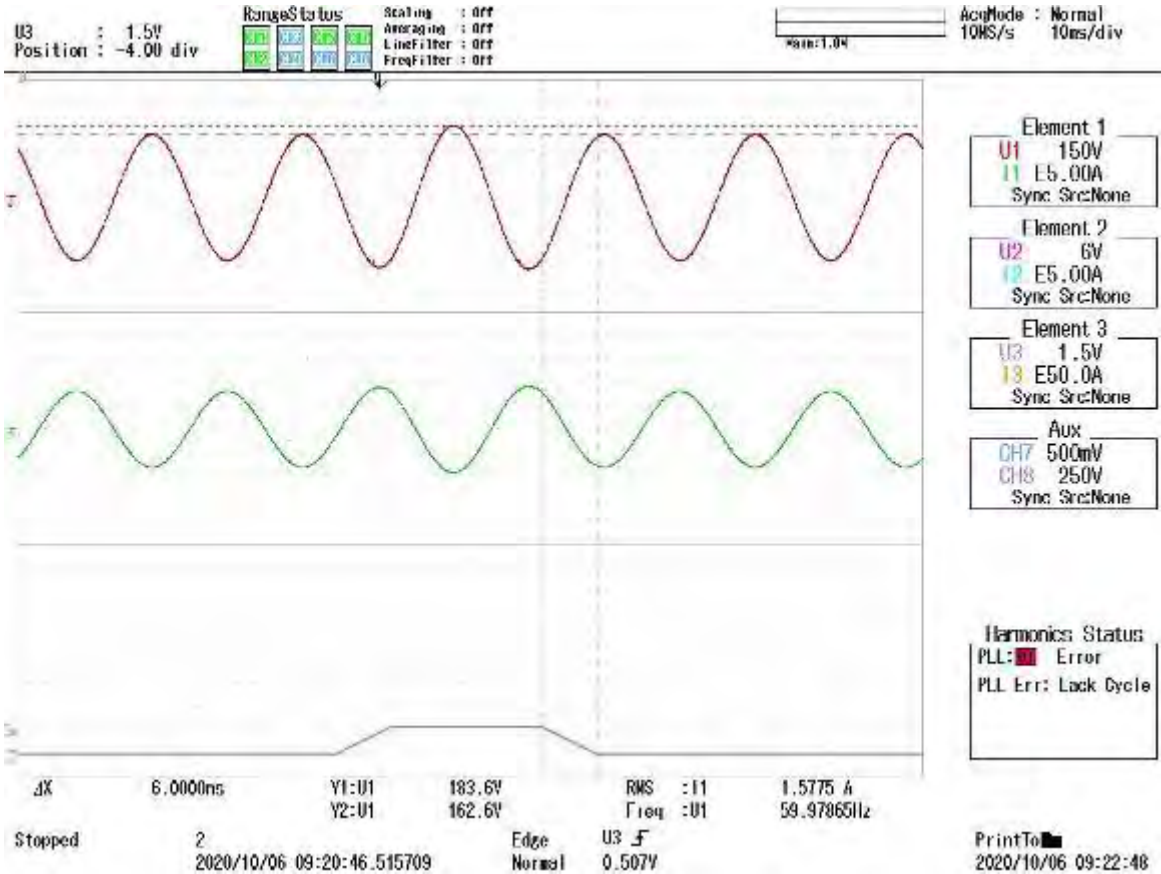


Figure H-5: Condition B, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	10 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

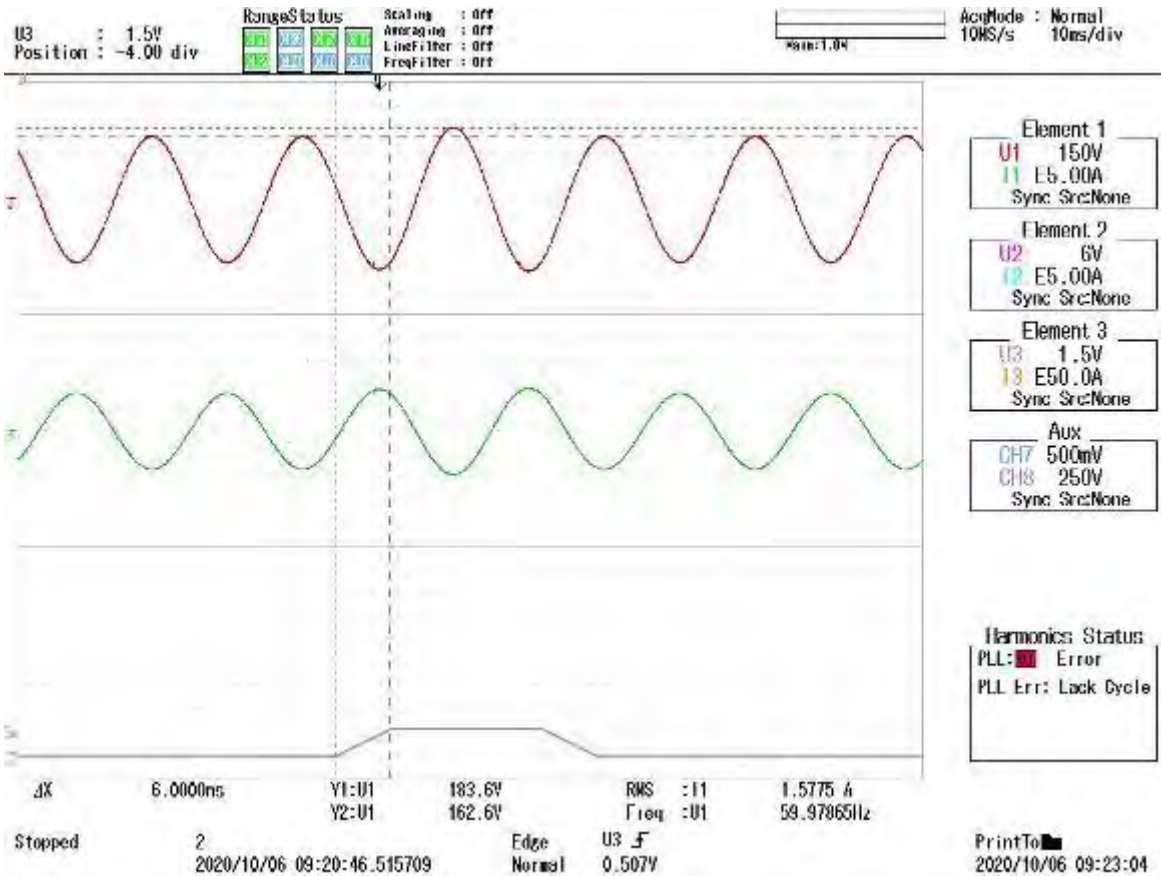


Figure H-6: Condition B, rise time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	11 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

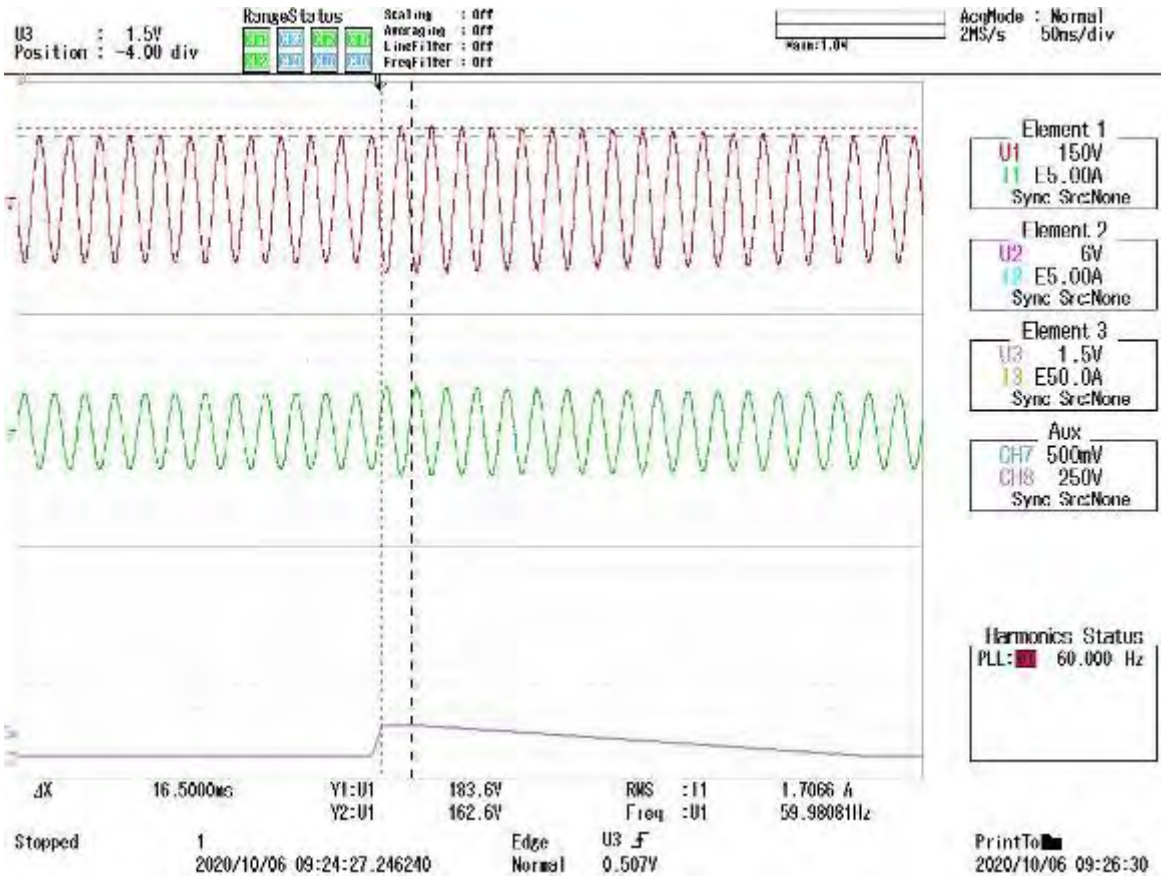


Figure H-7: Condition C, duration, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	12 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

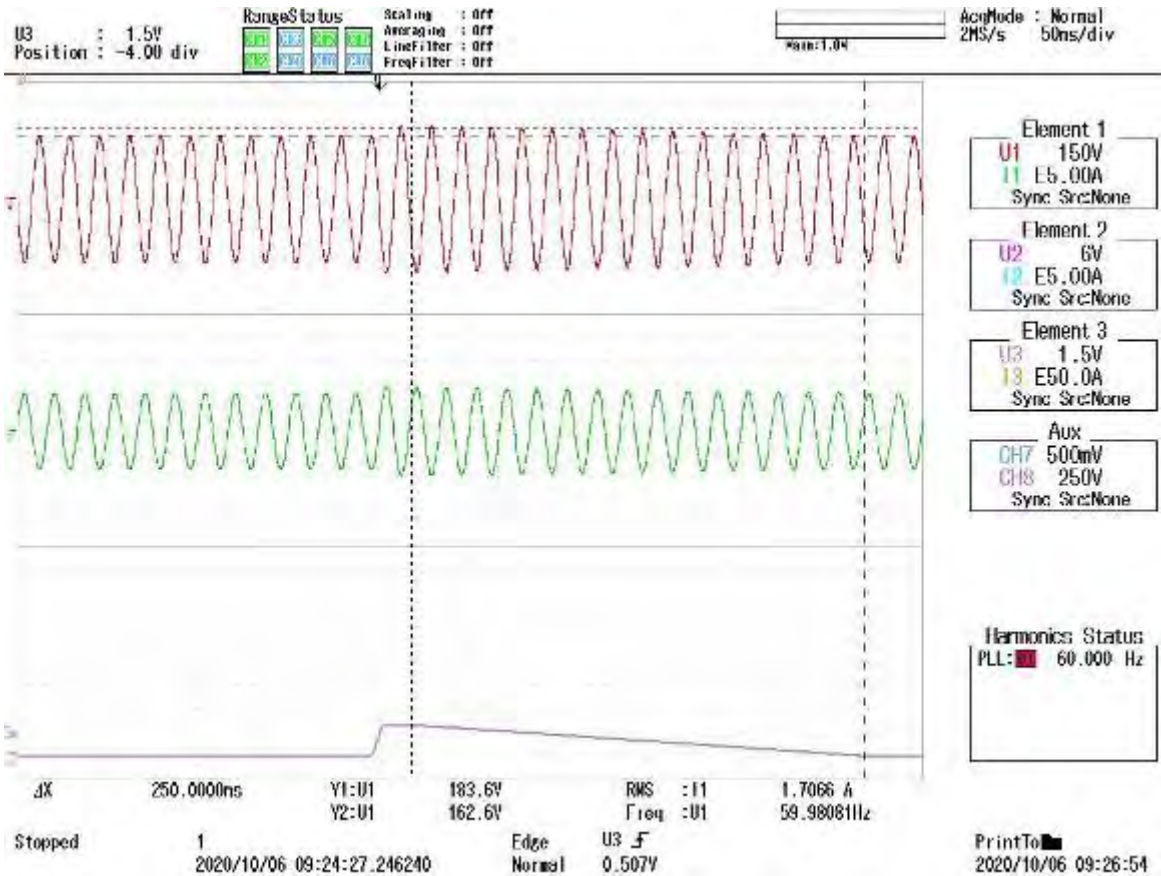


Figure H-8: Condition C, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	13 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

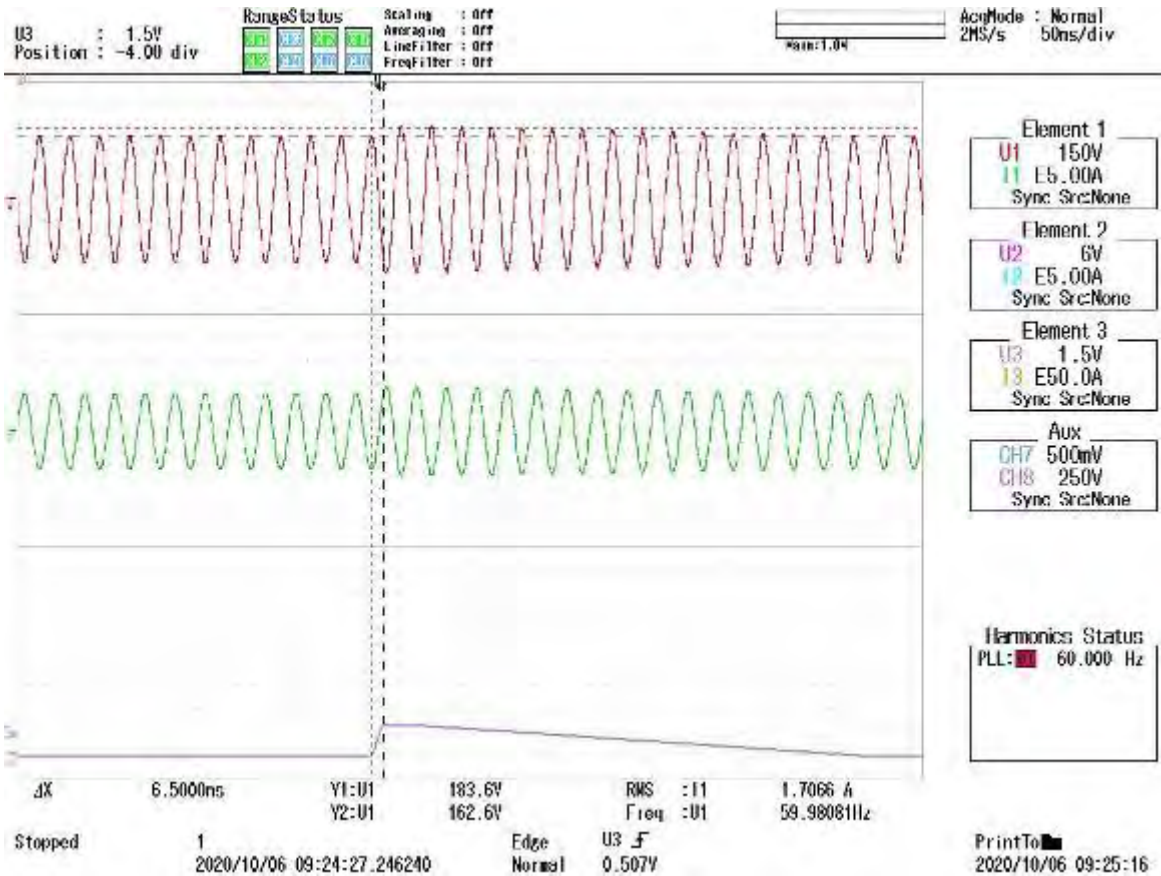


Figure H-9: Condition C, rise time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	14 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

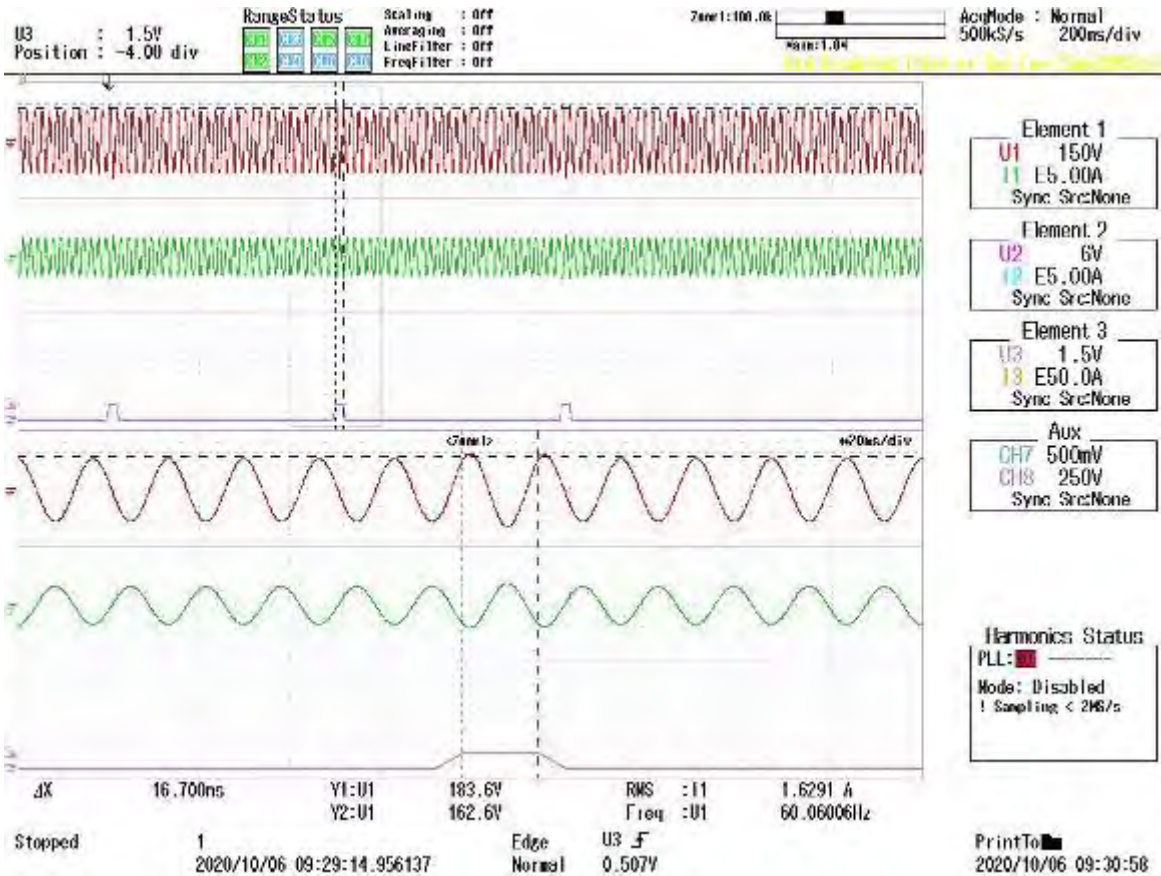


Figure H-10: Condition D, duration, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	15 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

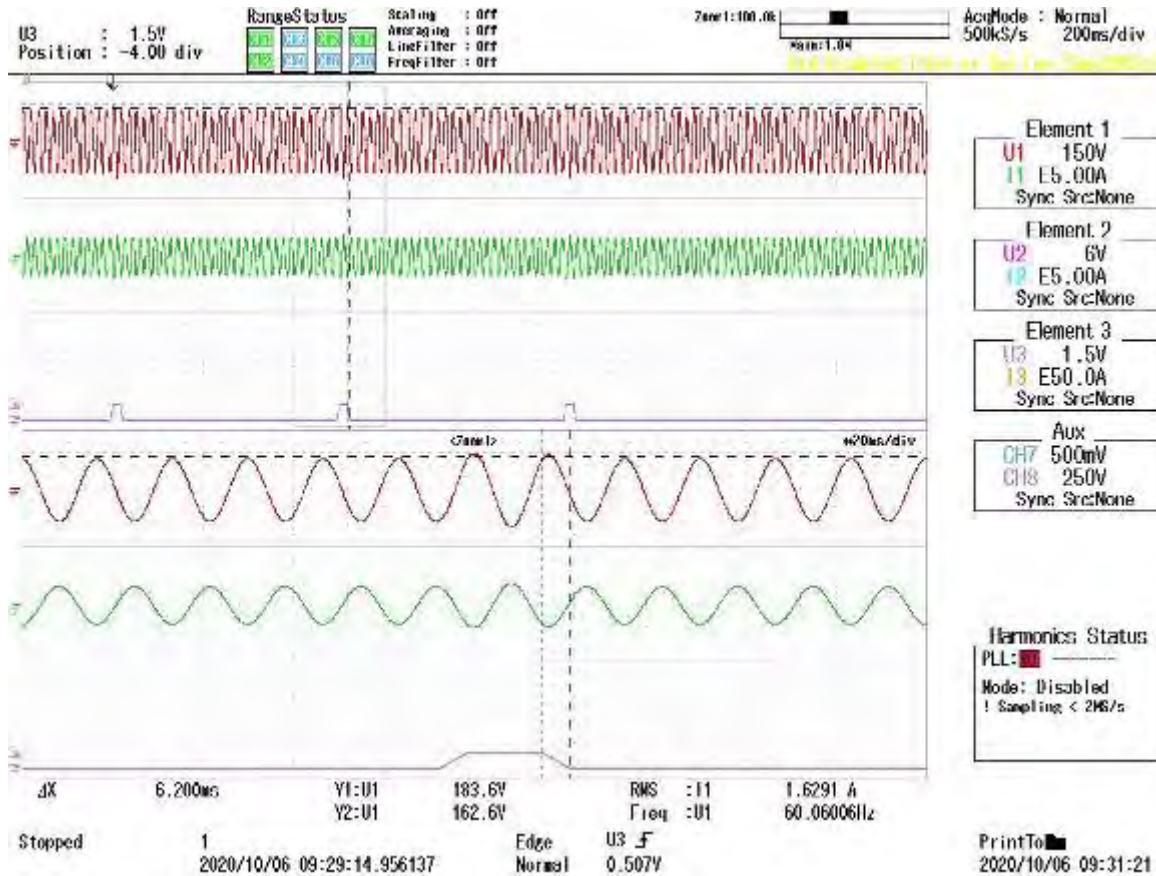


Figure H-11: Condition D, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	16 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

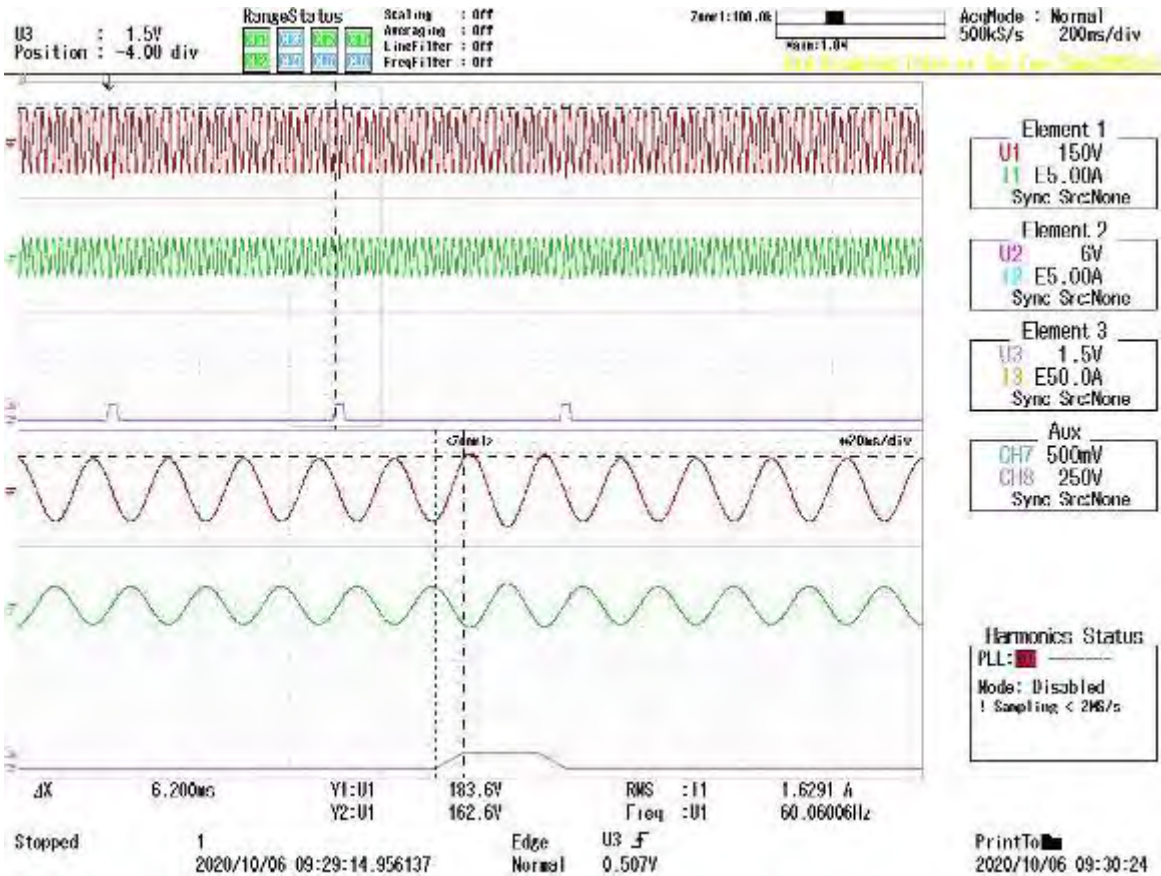


Figure H-12: Condition D, rise time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	17 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

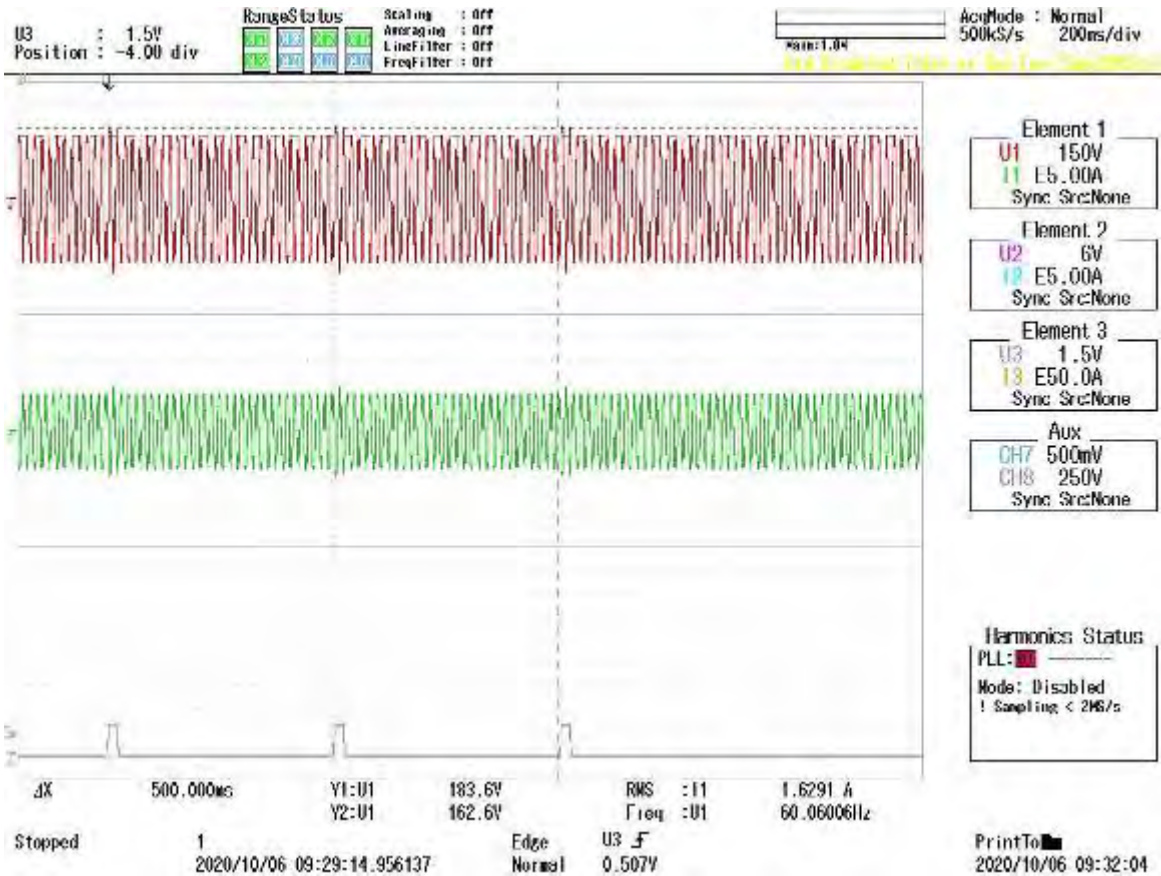


Figure H-13: Condition D, repetition rate, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	18 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

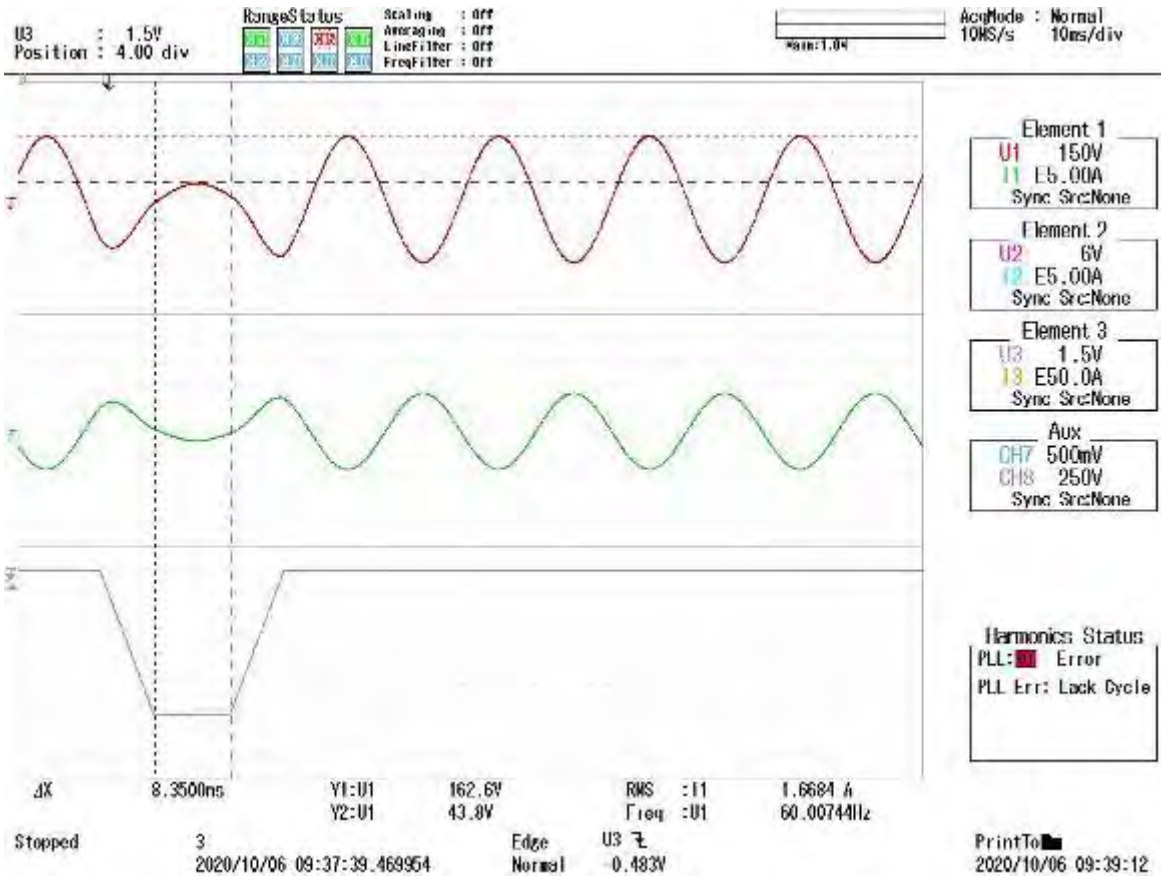


Figure H-14: Condition E, duration, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	19 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

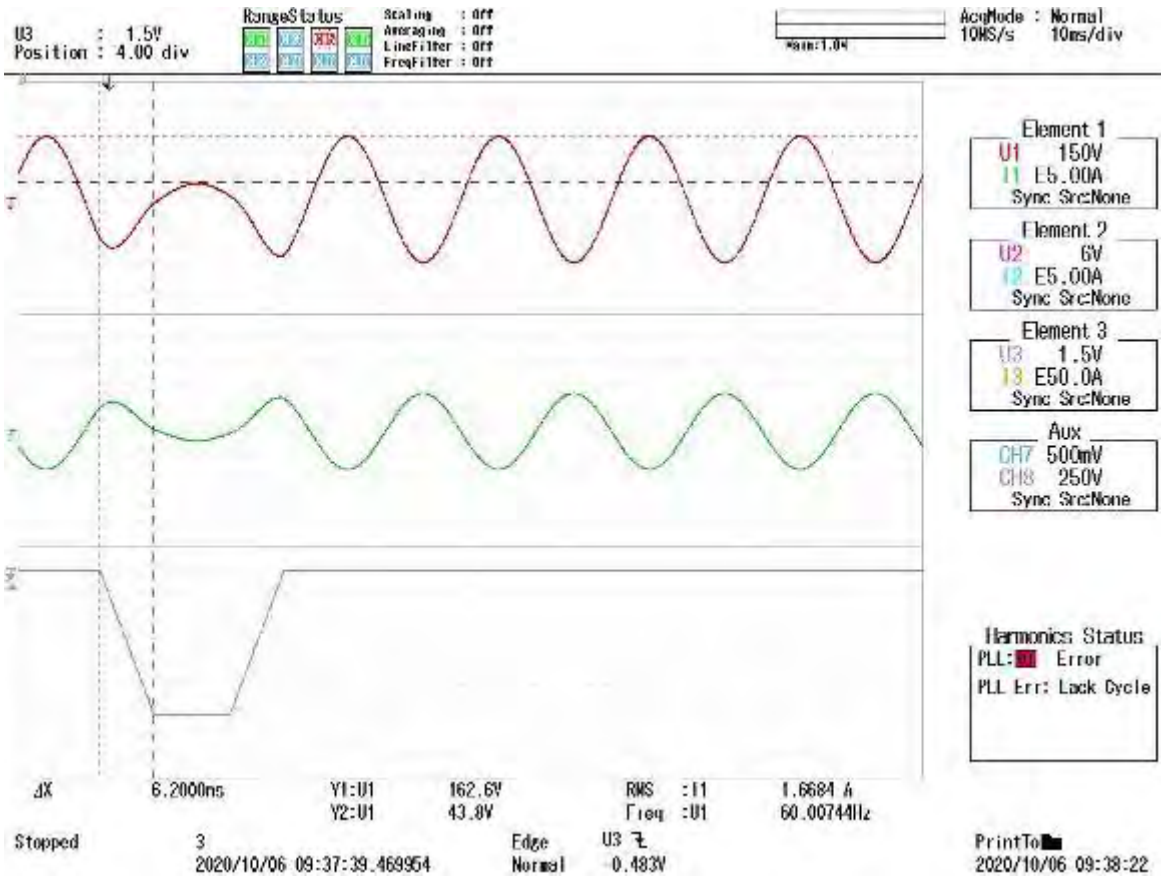


Figure H-15: Condition E, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	20 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

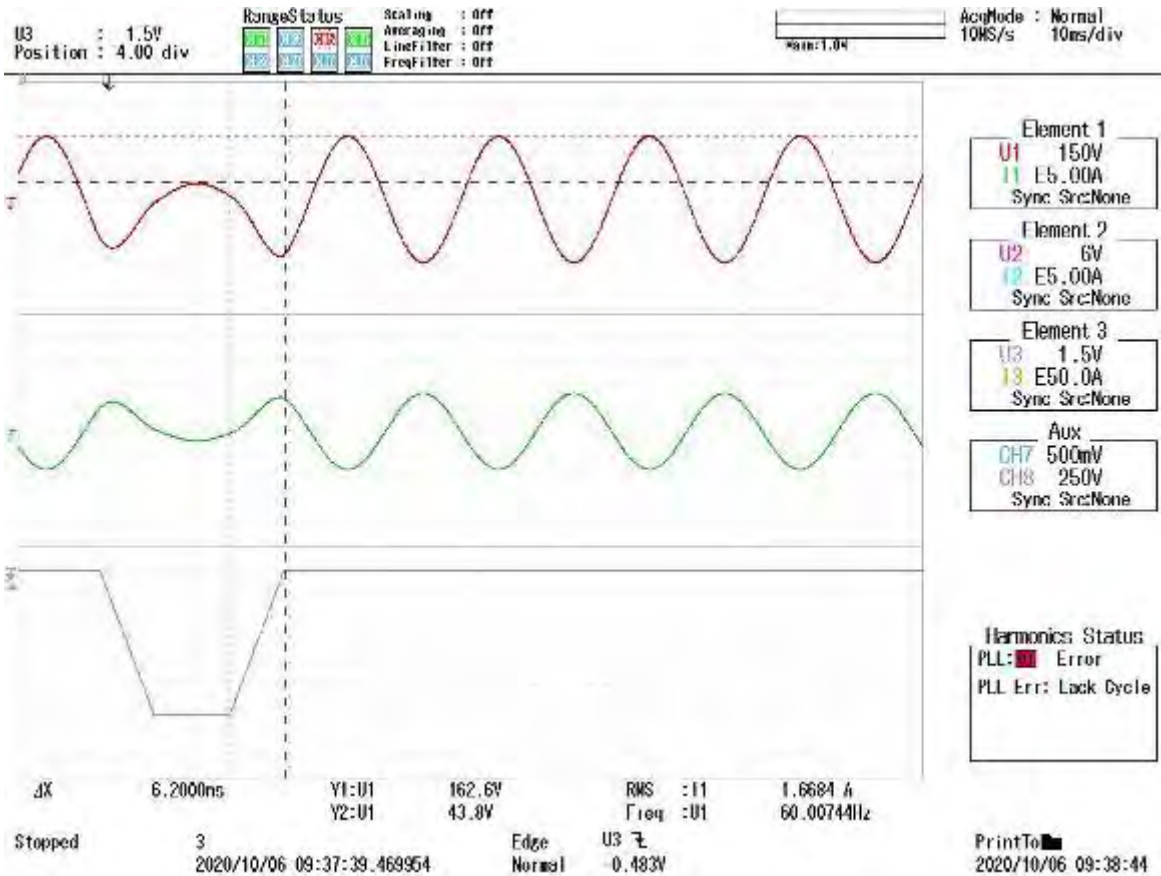


Figure H-16: Condition E, rise time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	21 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

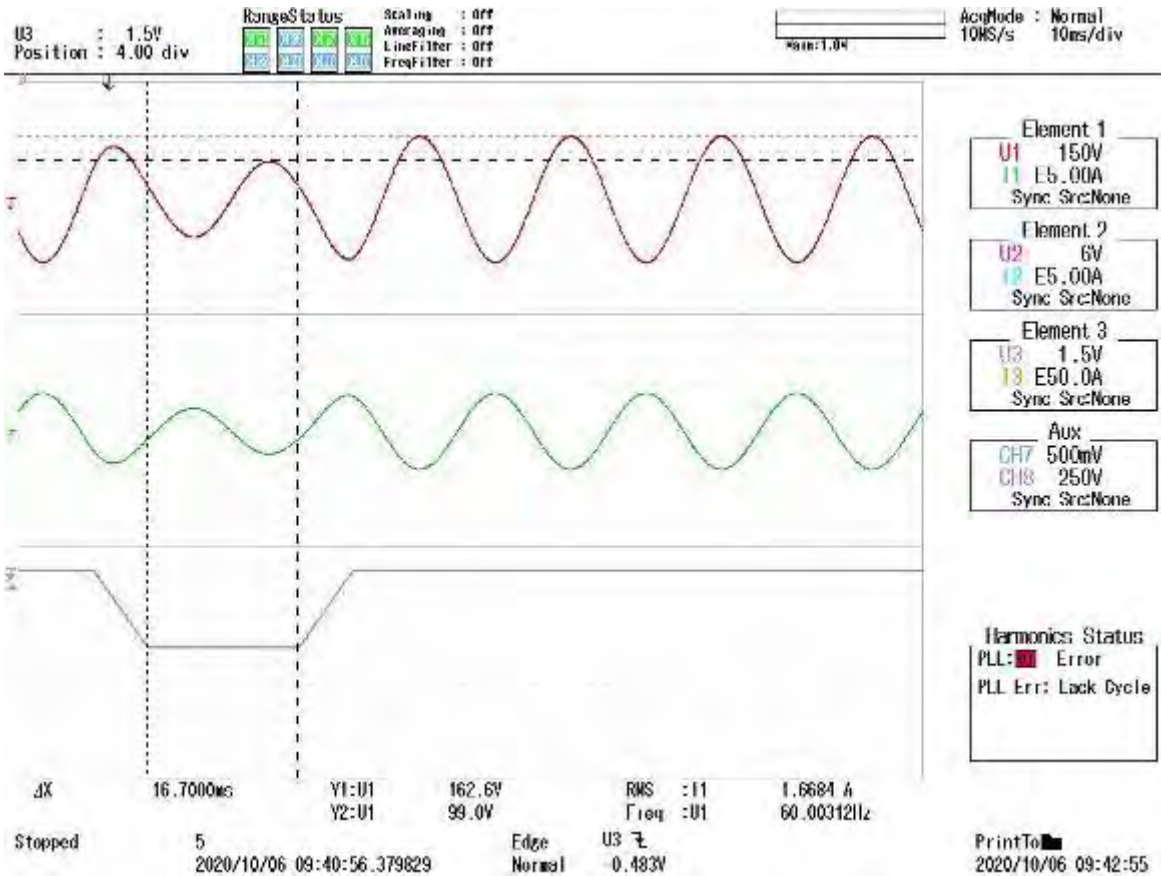


Figure H-17: Condition F, duration, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF109 Normal Voltage Transients**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	22 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

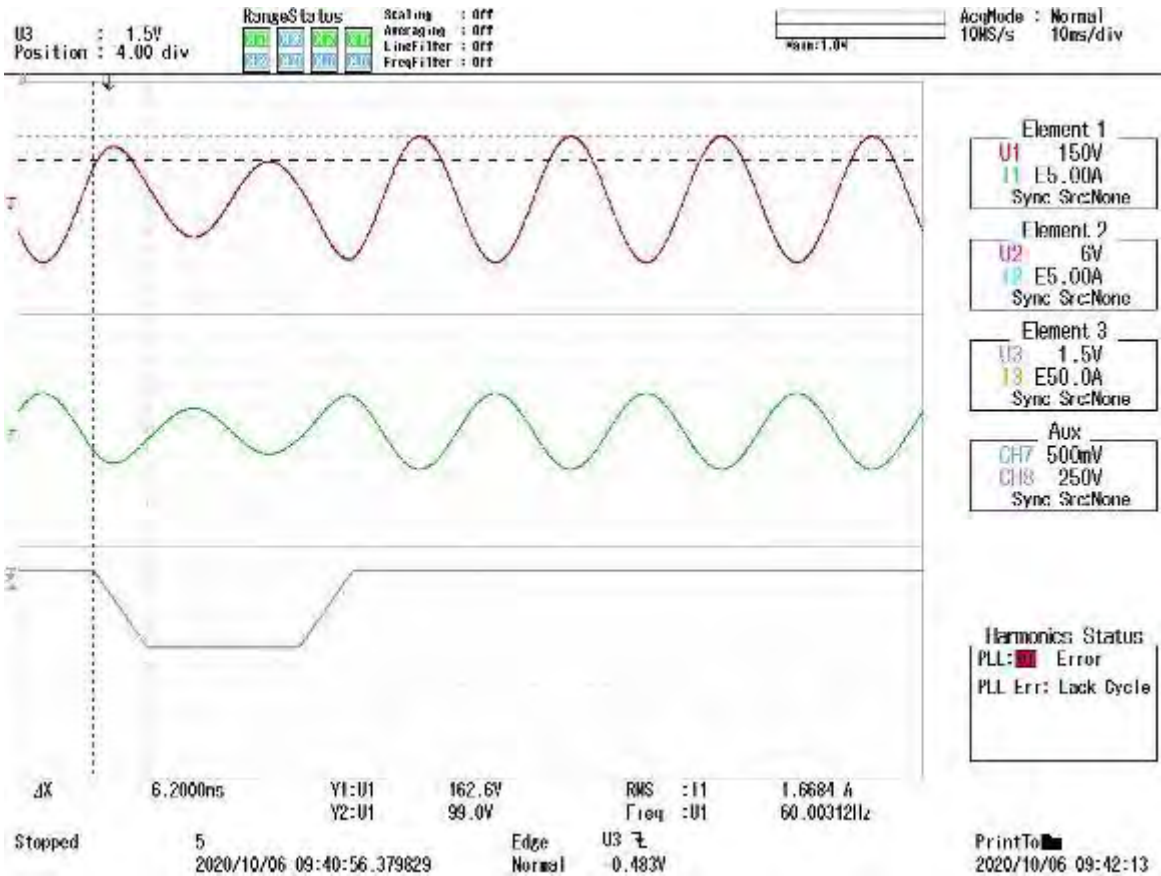
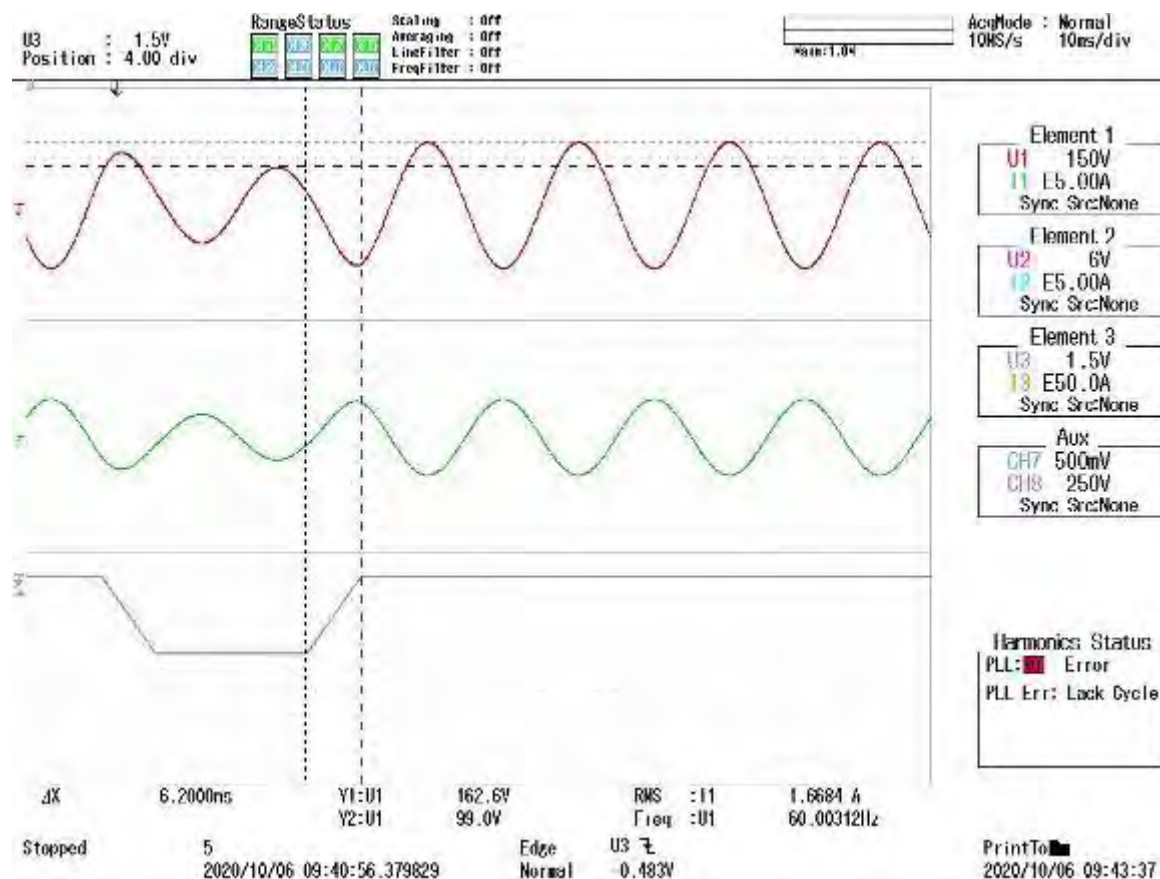


Figure H-18: Condition F, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	23 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	24 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

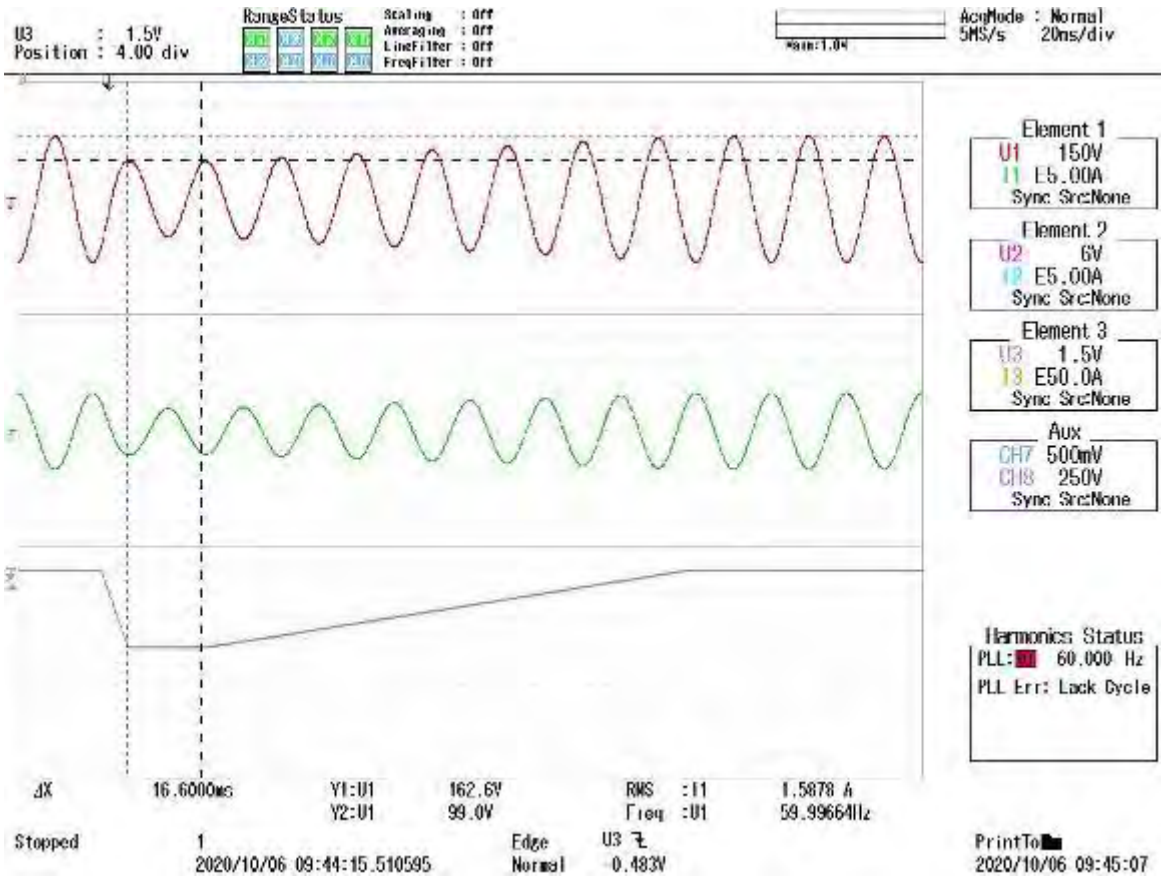


Figure H-20: Condition G, duration, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	25 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

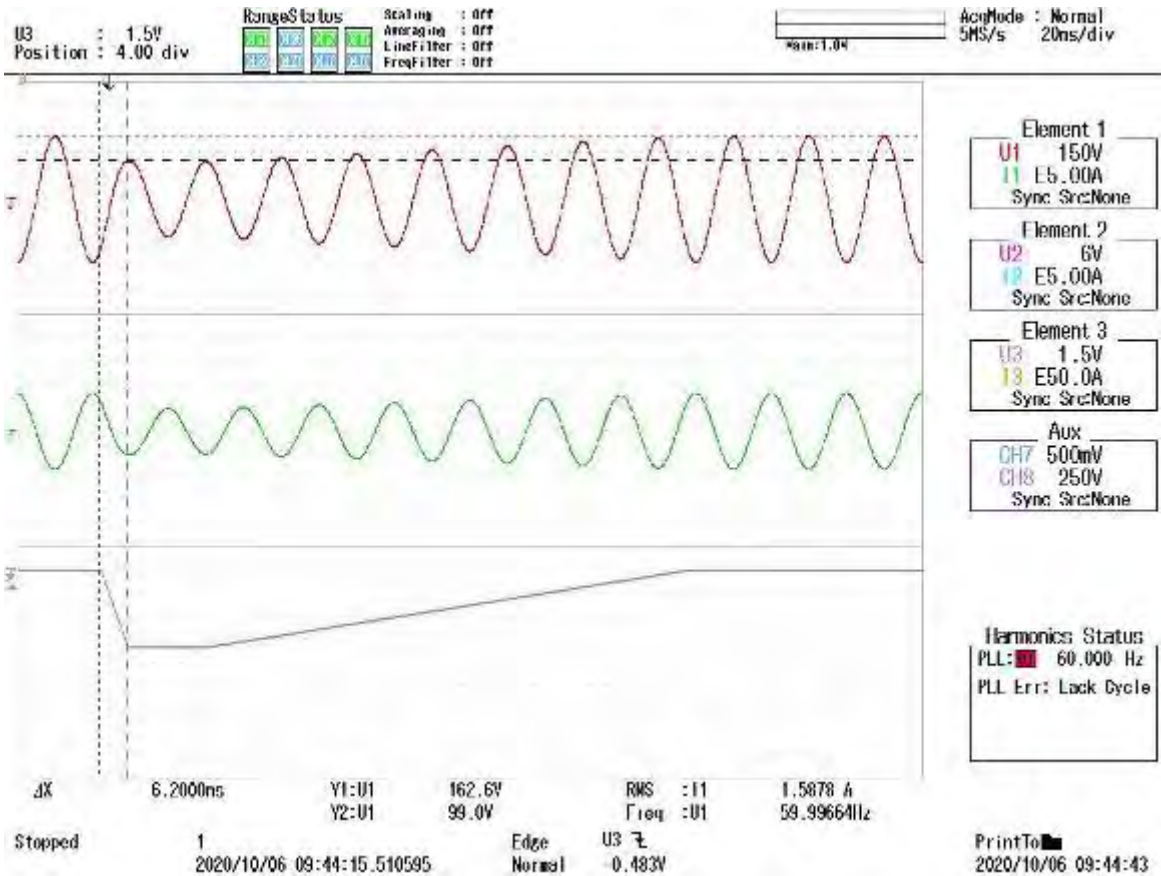


Figure H-21: Condition G, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF109 Normal Voltage Transients**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	26 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

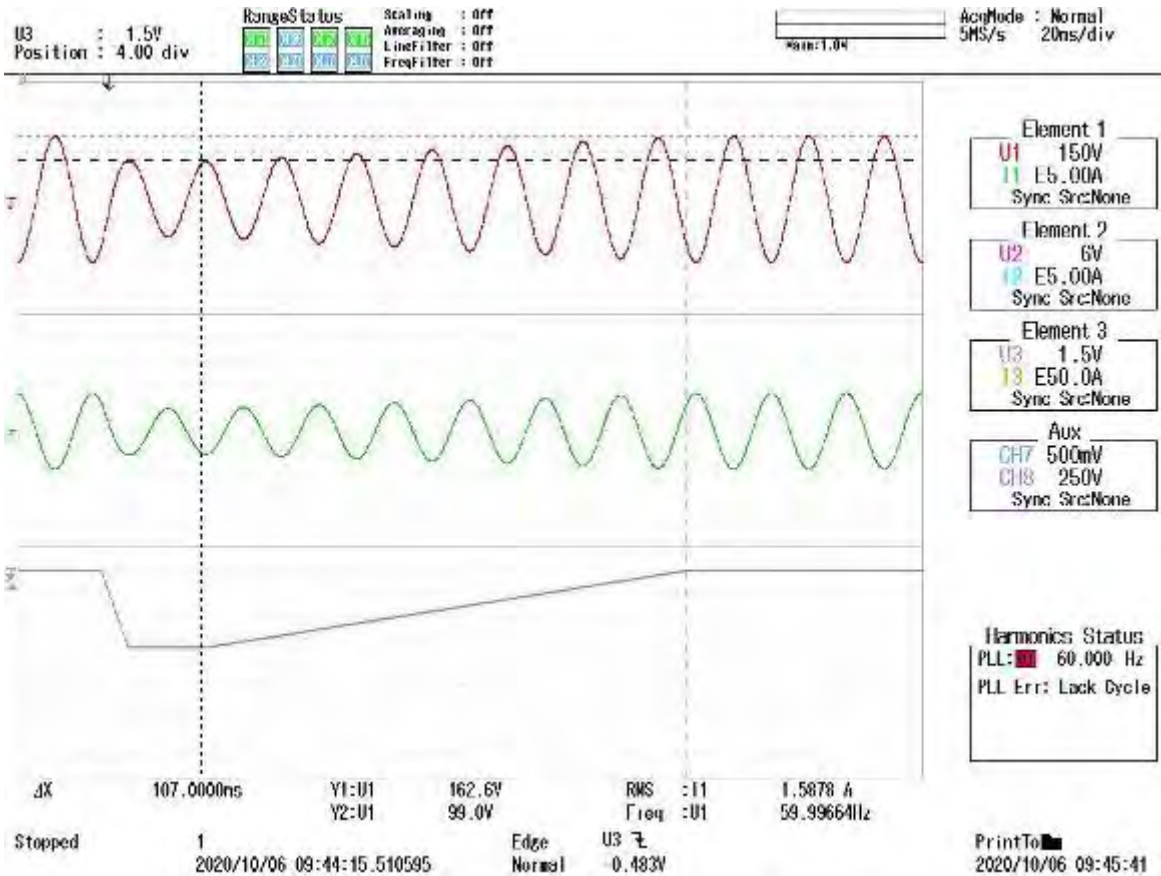


Figure H-22: Condition G, rise time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF109 Normal Voltage Transients**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	27 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

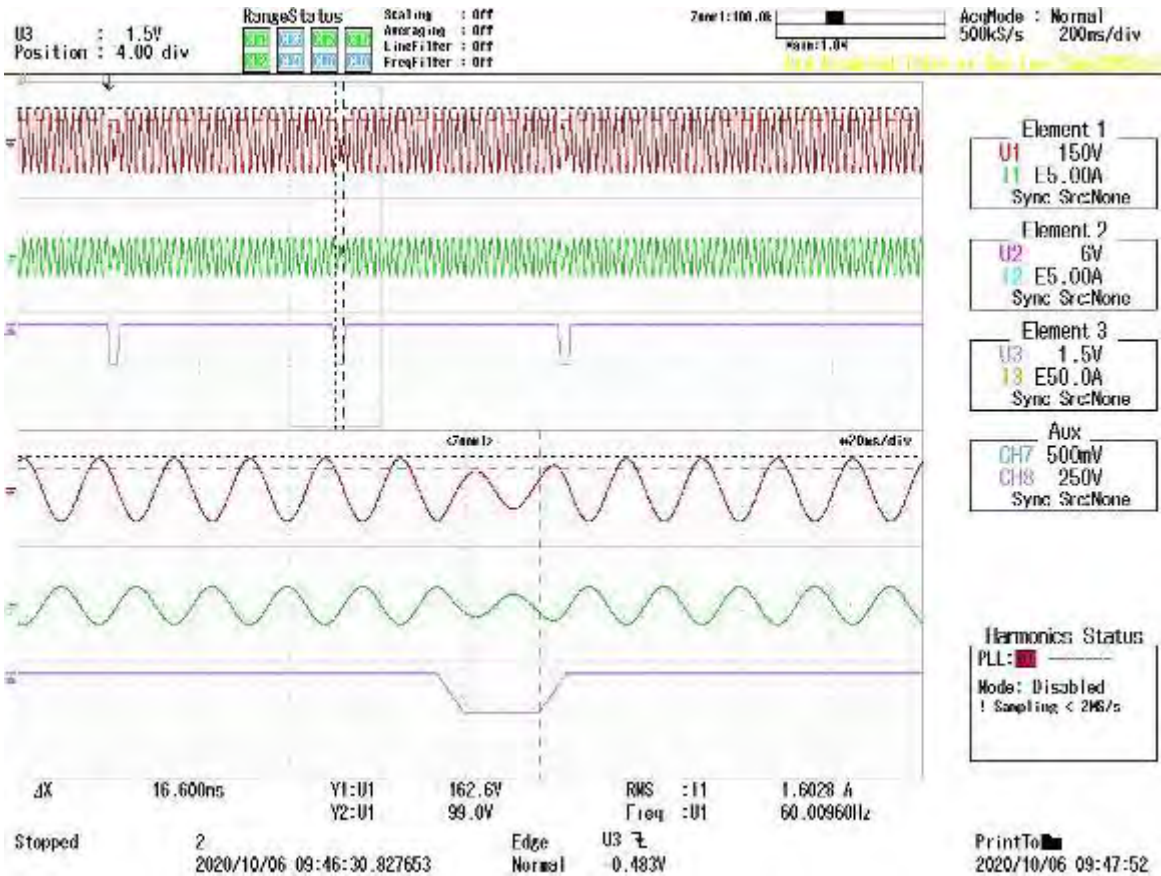


Figure H-23: Condition H, duration, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	28 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

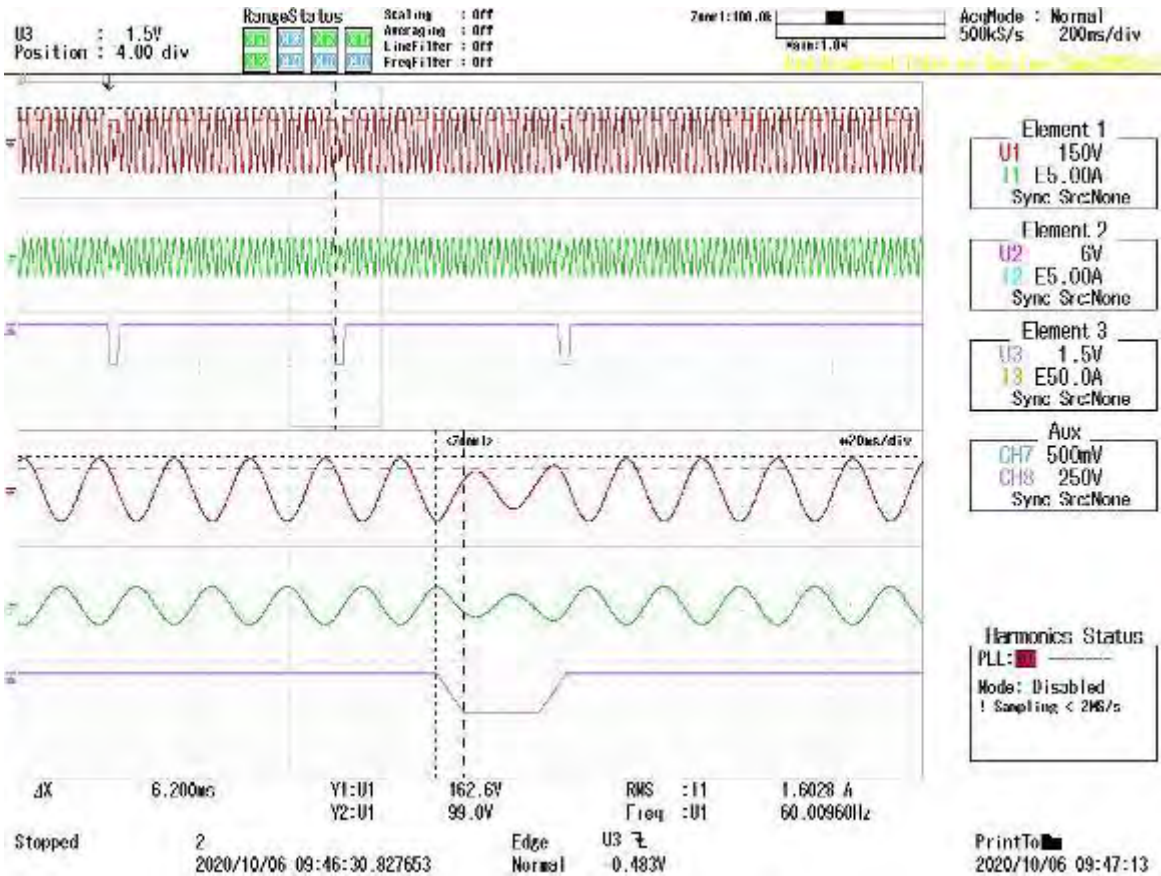


Figure H-24: Condition H, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	29 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

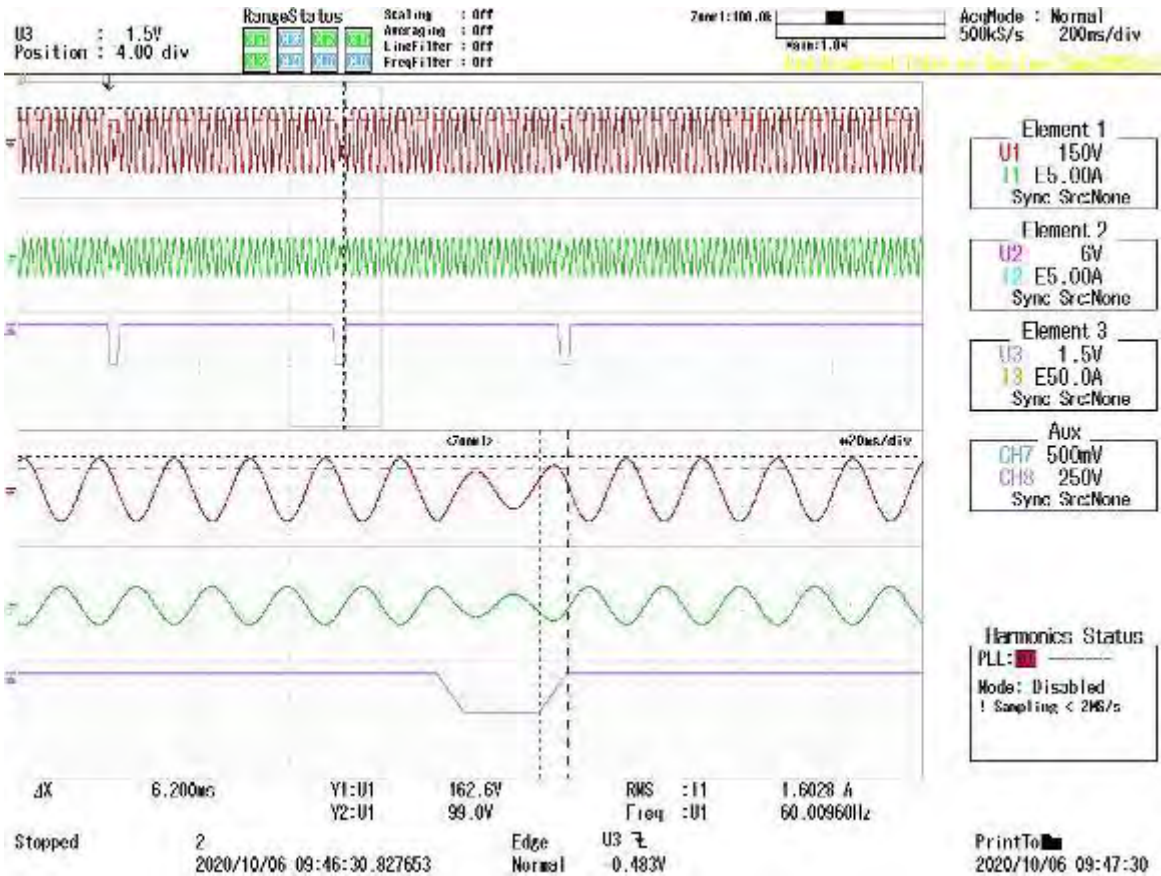


Figure H-25: Condition H, rise time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	30 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

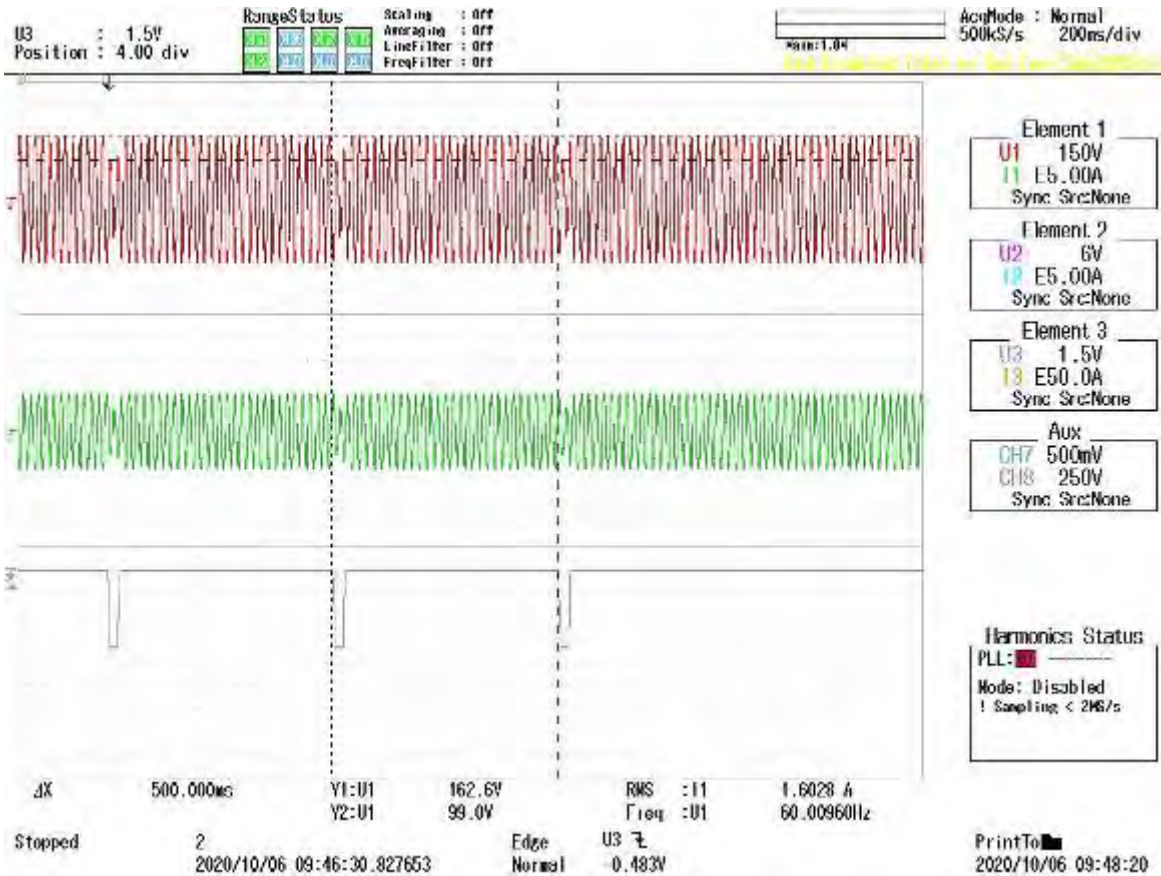


Figure H-26: Condition H, repetition rate, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	31 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

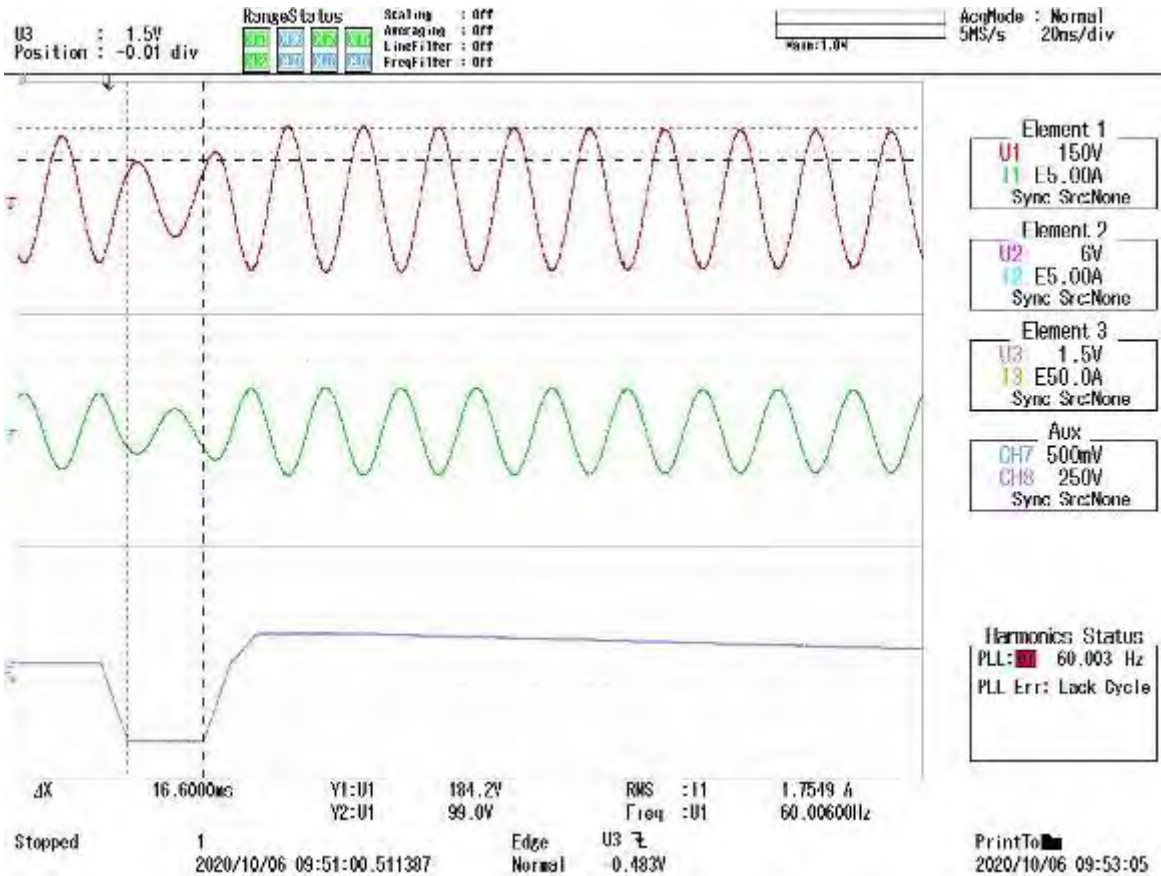


Figure H-27: Condition I, 70 Vac, duration, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	32 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

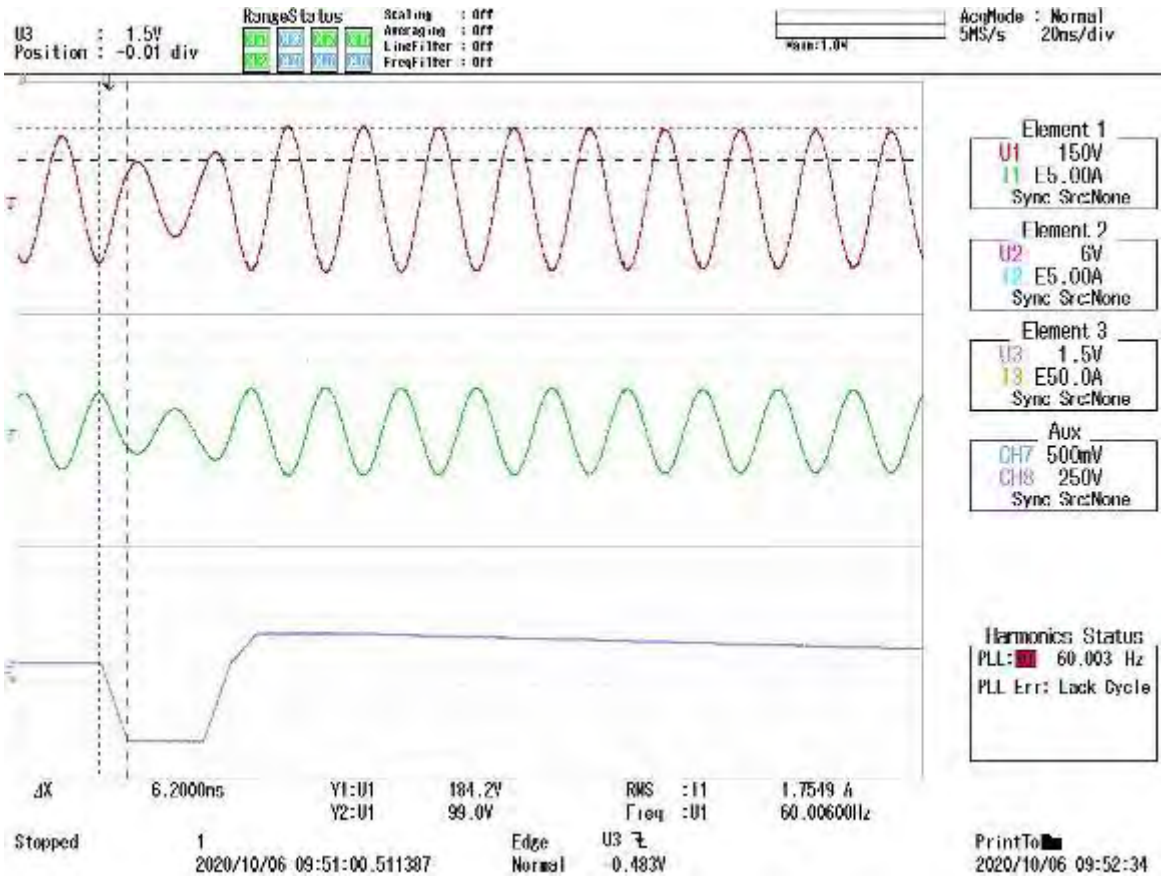


Figure H-28: Condition I, 70 Vac, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	33 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

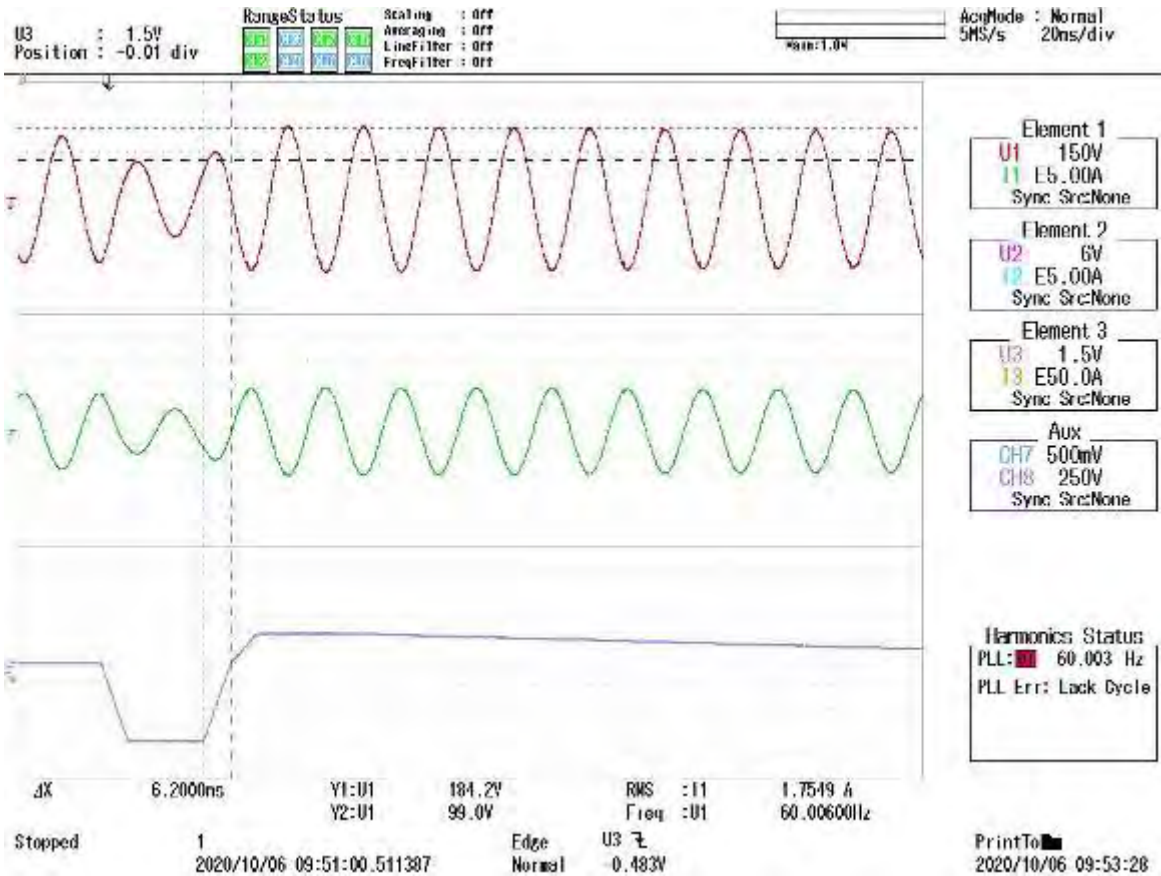


Figure H-29: Condition I, 70 Vac, rise time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	34 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

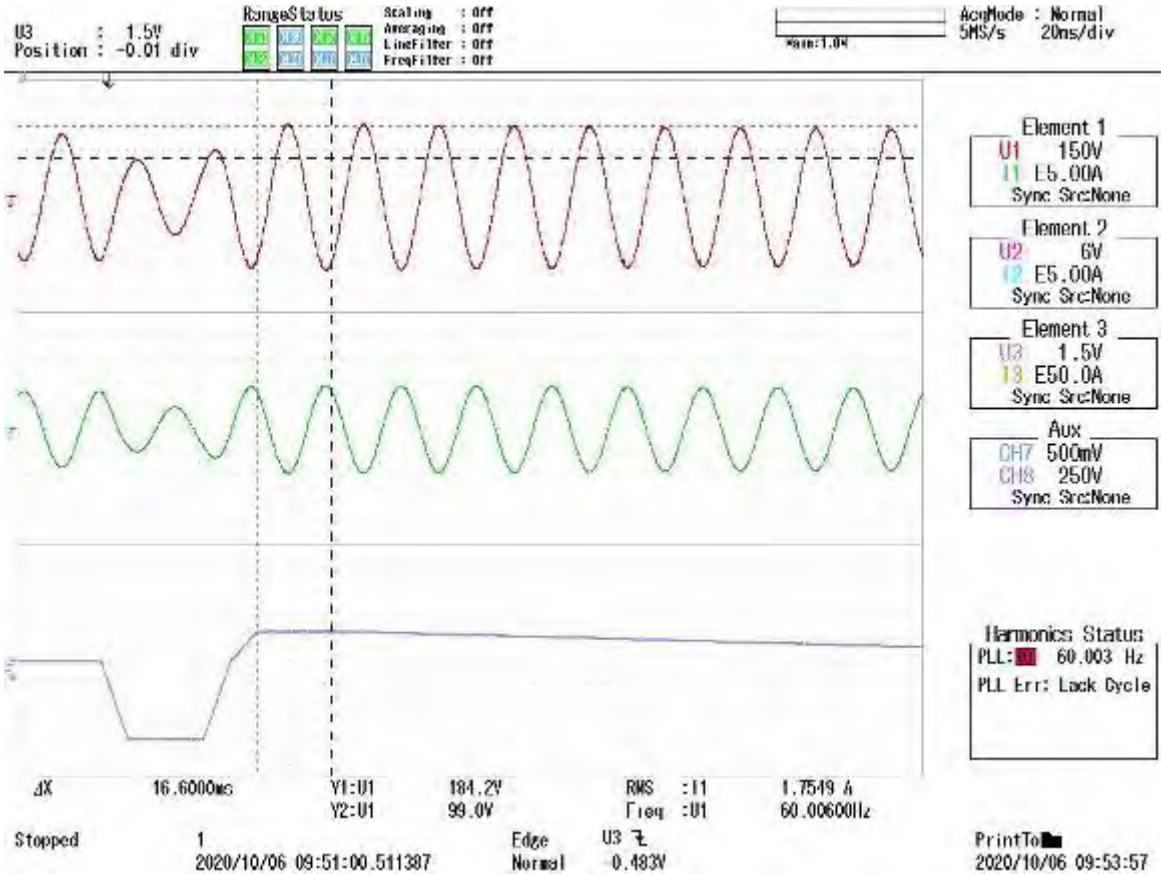


Figure H-30: Condition I, 130 Vac, duration, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	35 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

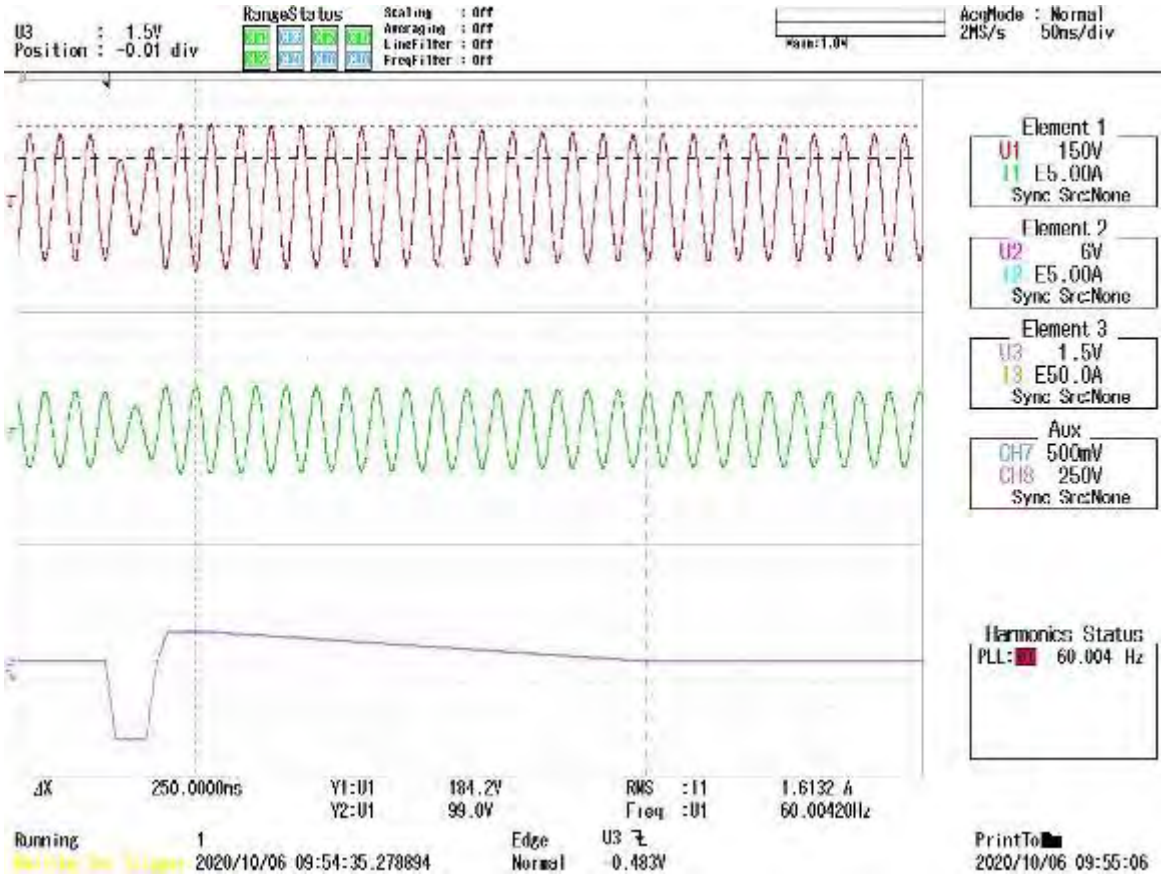


Figure H-31: Condition I, 130 Vac, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	36 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

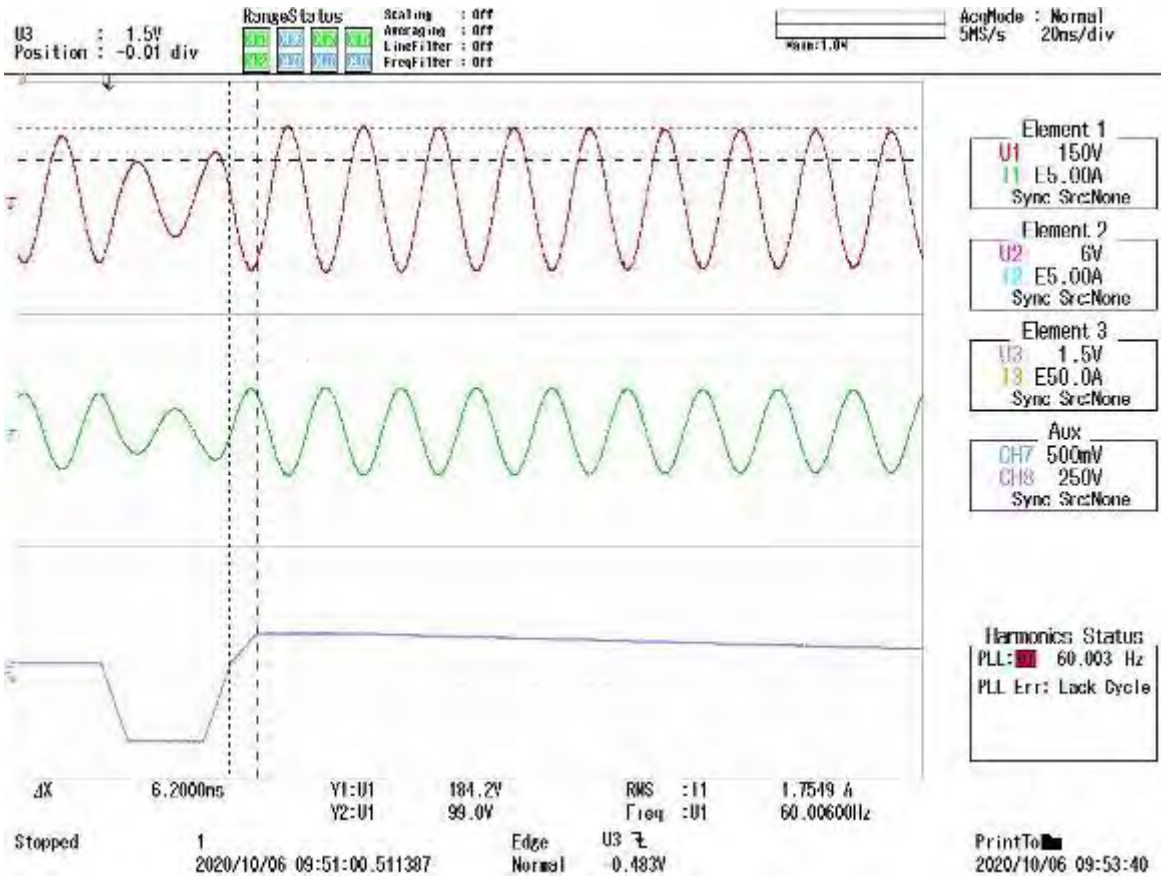


Figure H-32: Condition I, 130 Vac, rise time, calibration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	37 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

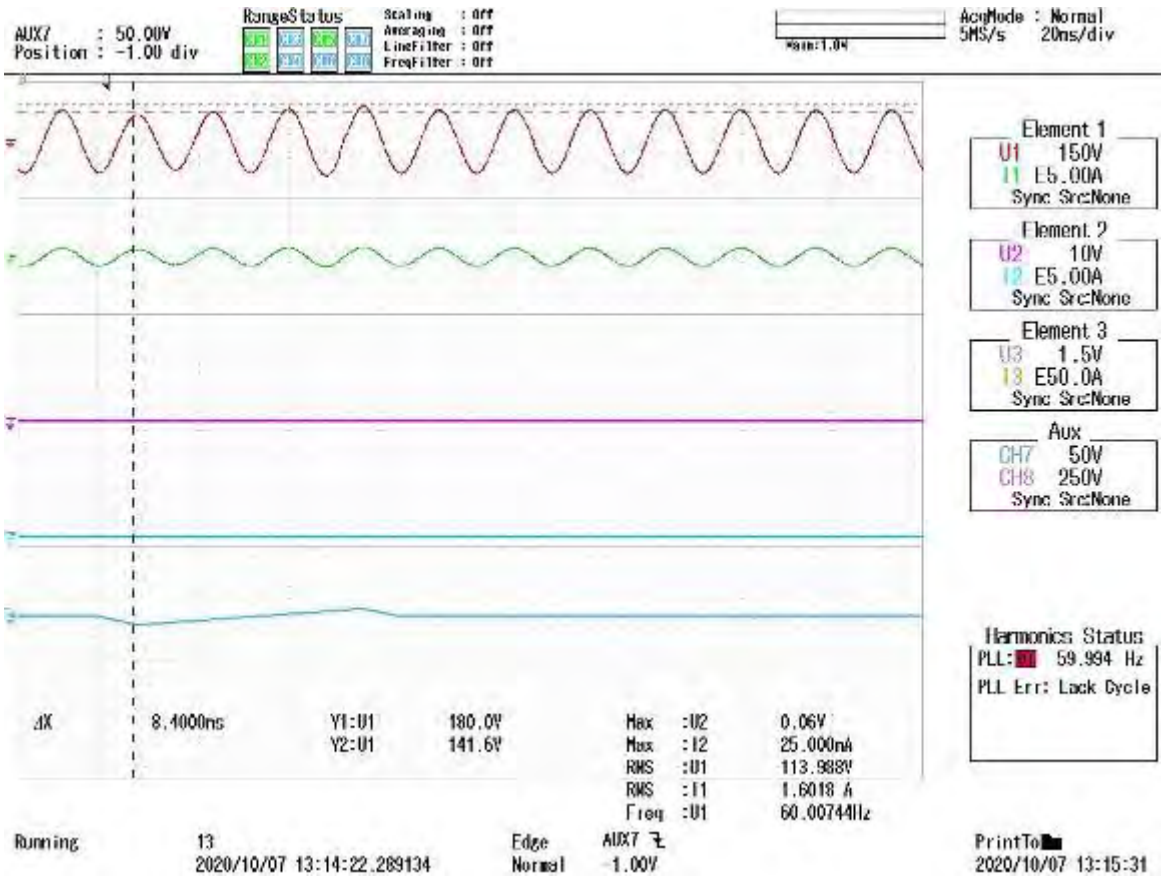


Figure H-33: Repetitive normal voltage transients, 100 Vac, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel U2 = not used; channel I2 = not used; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	38 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

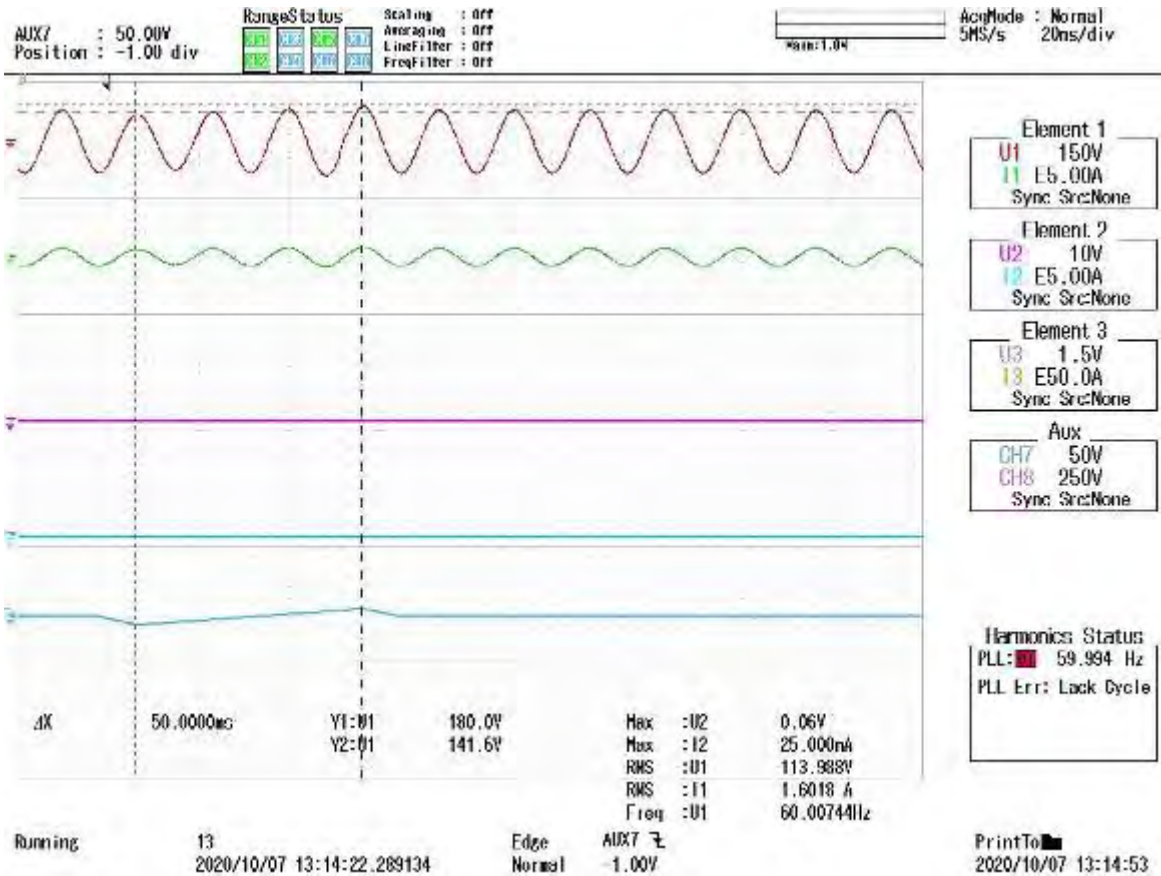


Figure H-34: Repetitive normal voltage transients, 128 Vac, rise time, calibration

Channel U1 = voltage; channel I1 = current; channel U2 = not used; channel I2 = not used; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	39 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

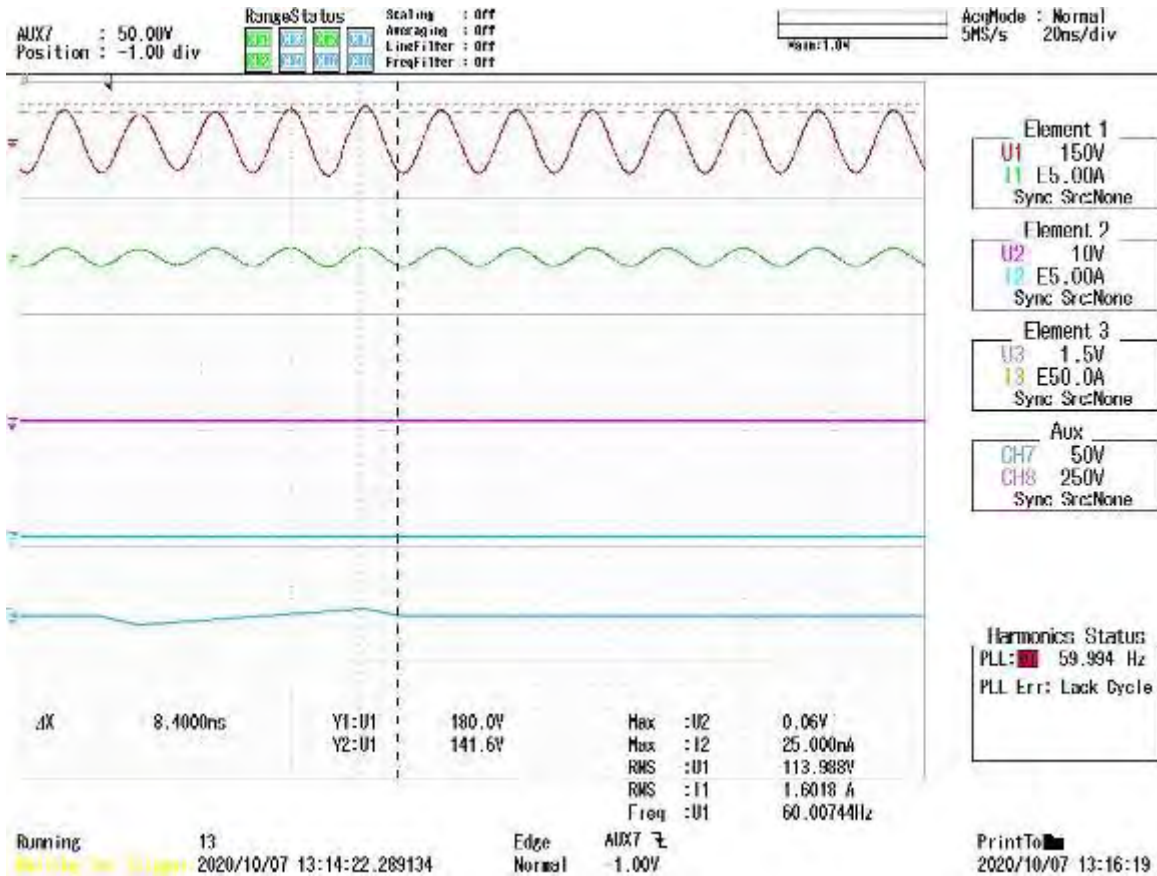


Figure H-35: Repetitive normal voltage transients, 115 Vac, fall time, calibration

Channel U1 = voltage; channel I1 = current; channel U2 = not used; channel I2 = not used; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	40 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

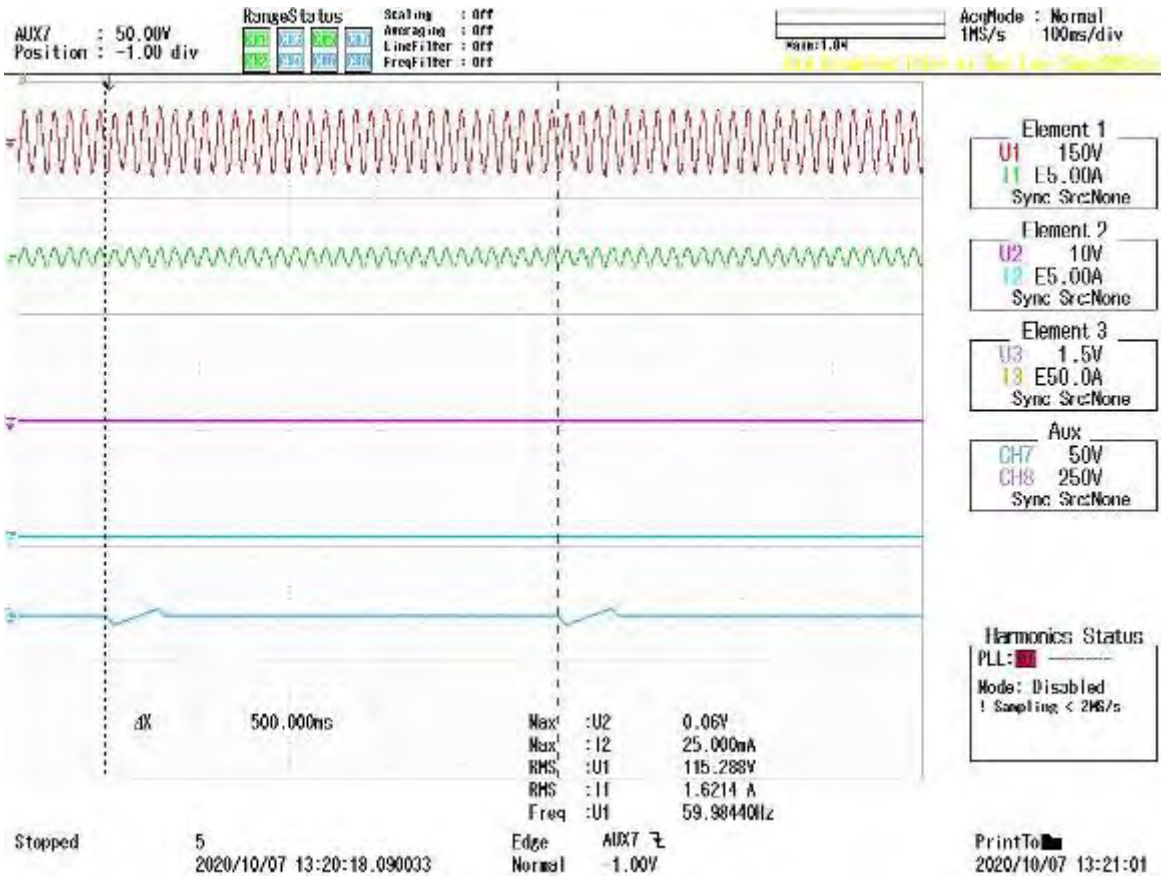


Figure H-36: Repetitive normal voltage transients, repetition rate, calibration

Channel U1 = voltage; channel I1 = current; channel U2 = not used; channel I2 = not used; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	41 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

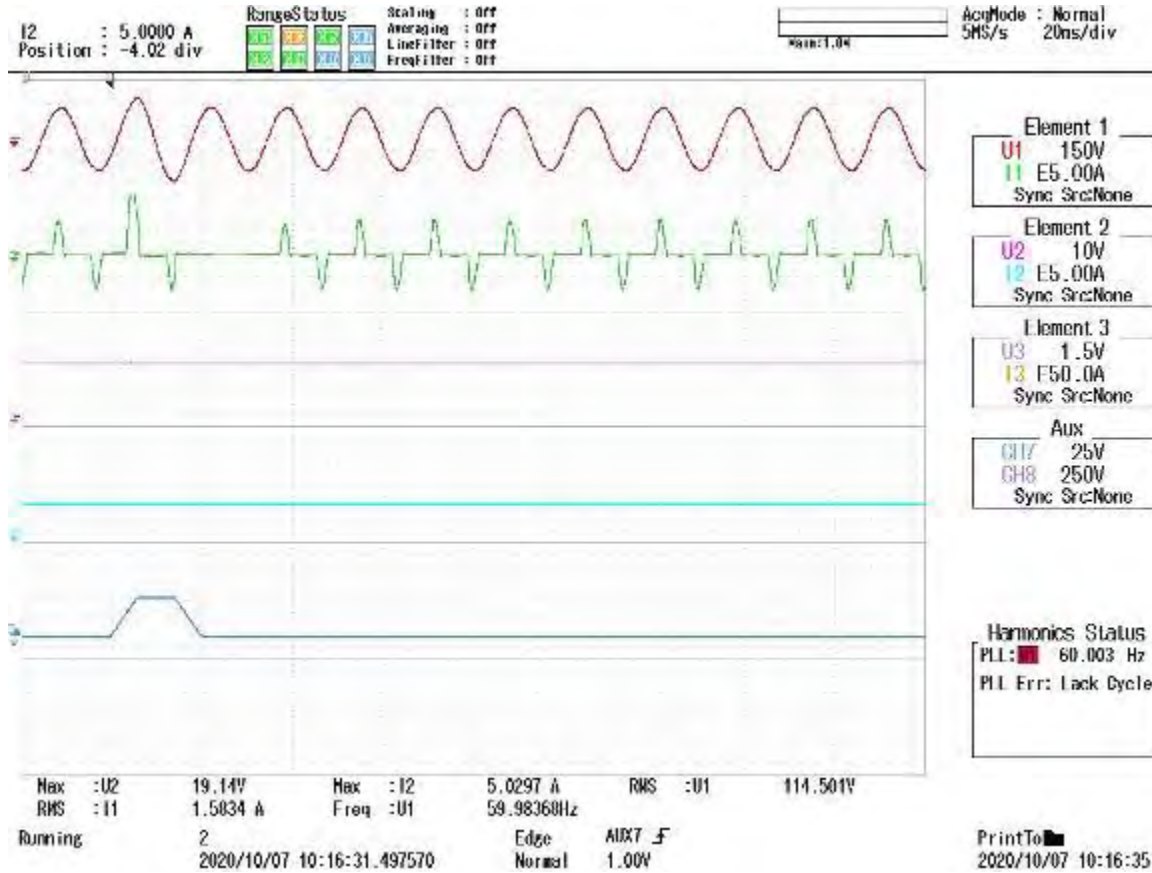


Figure H-37: Condition A

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output voltage; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	42 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

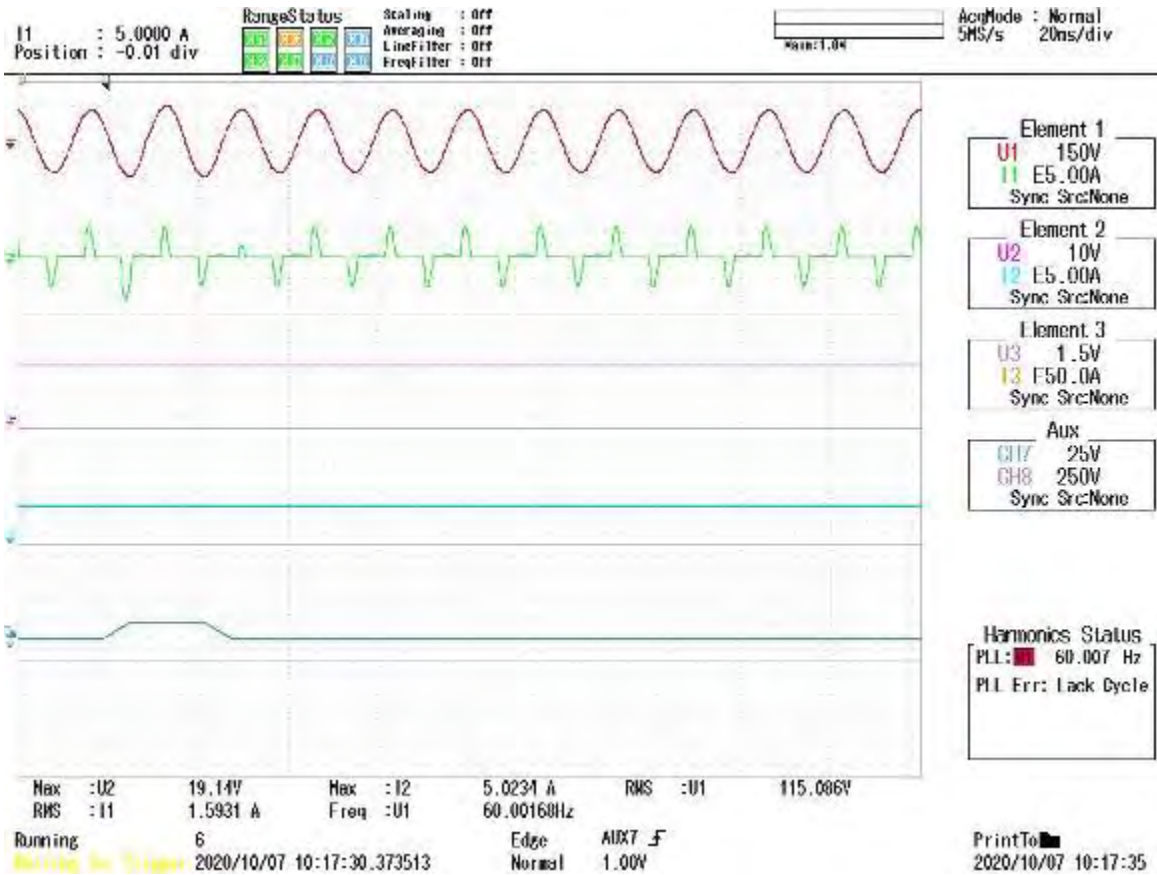


Figure H-38: Condition B

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output voltage; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	43 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

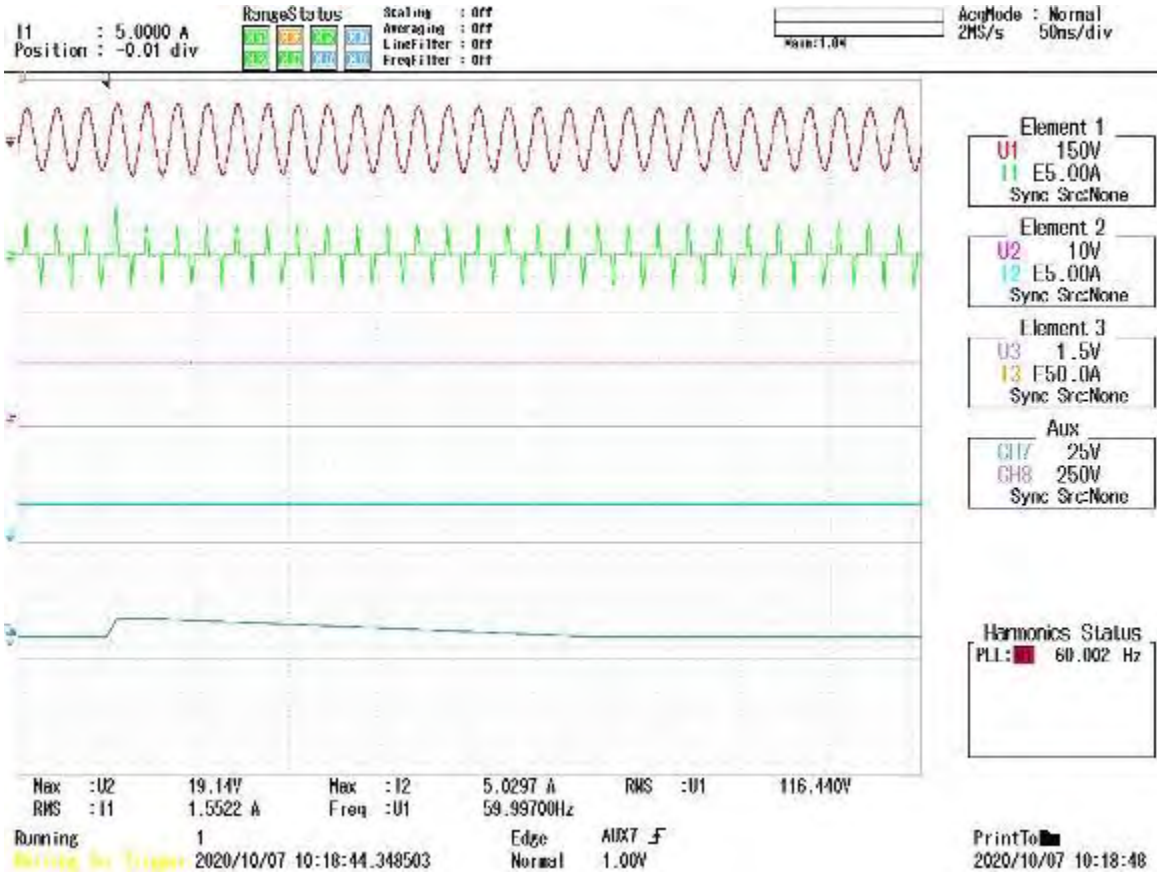


Figure H-39: Condition C

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output voltage; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	44 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

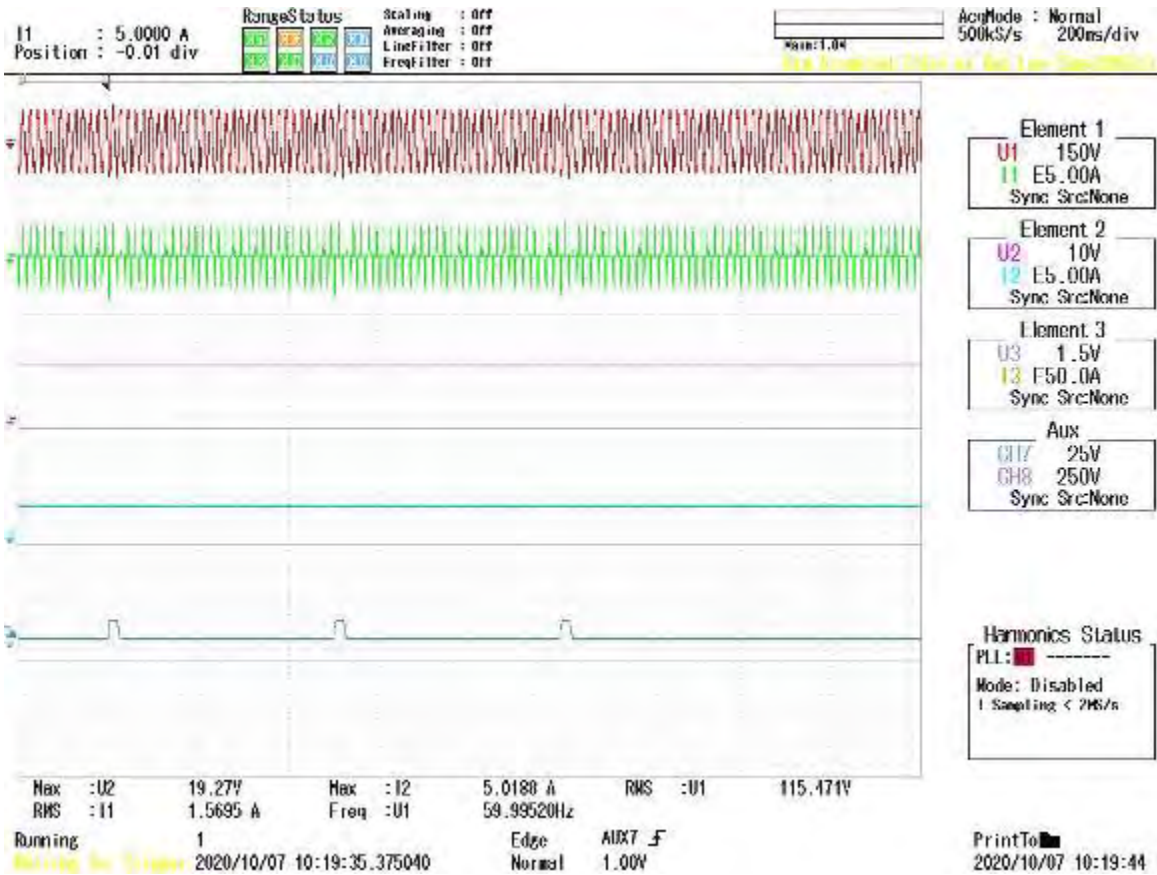


Figure H-40: Condition D

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output voltage; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	45 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

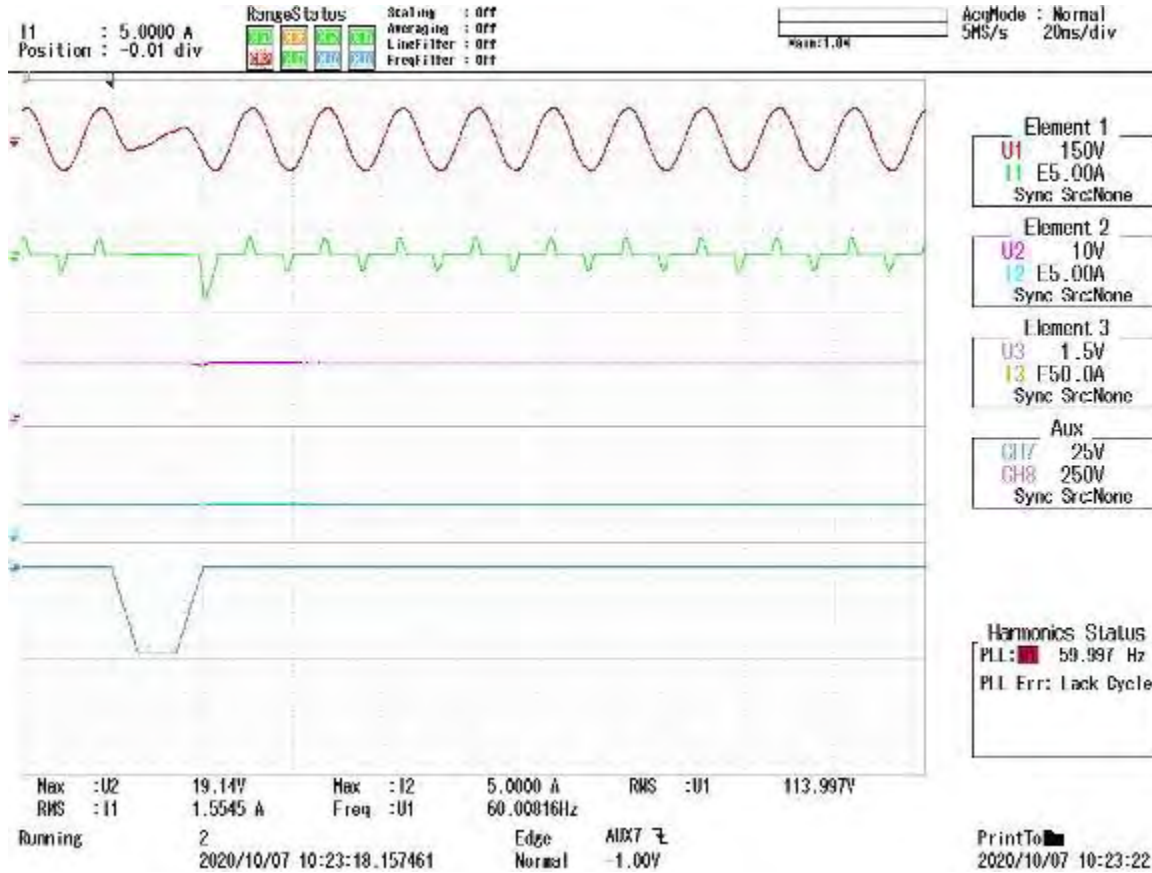


Figure H-41: Condition E

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output voltage; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	46 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

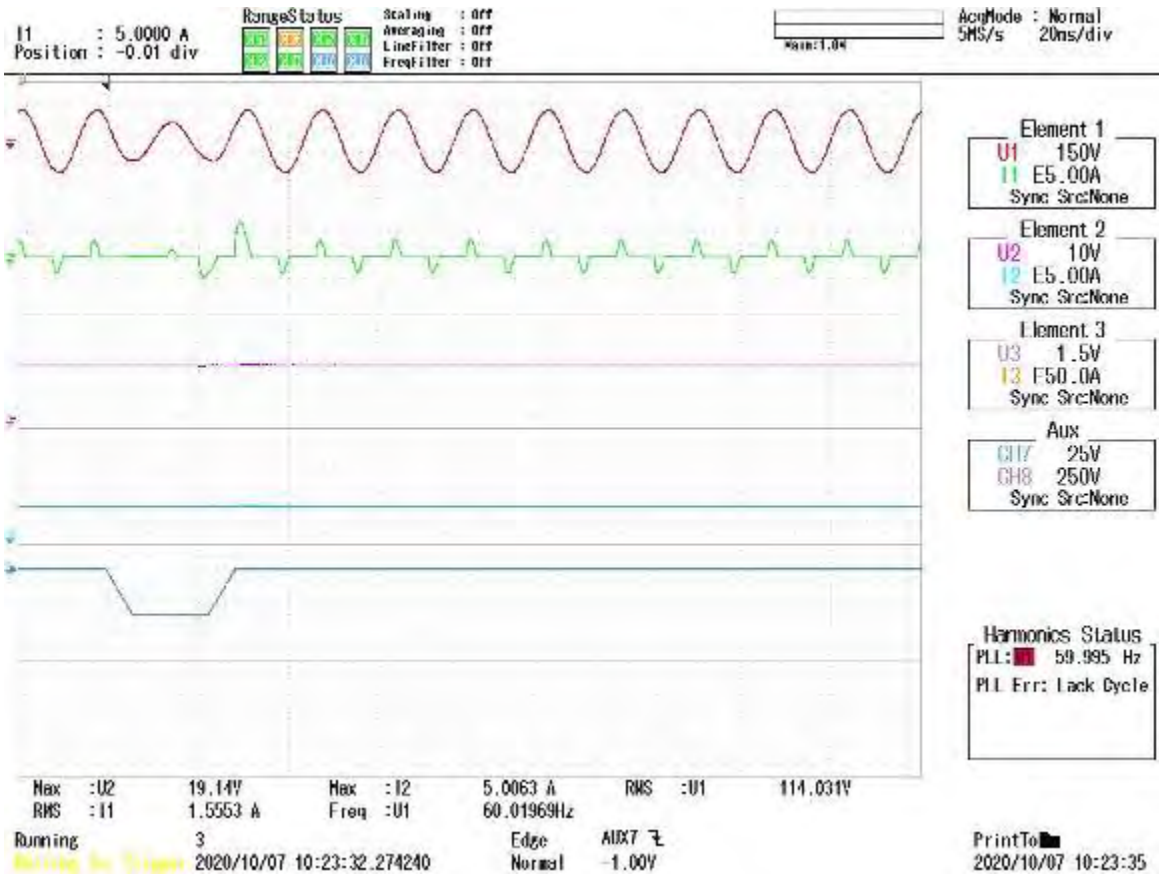


Figure H-42: Condition F

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output voltage; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	47 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

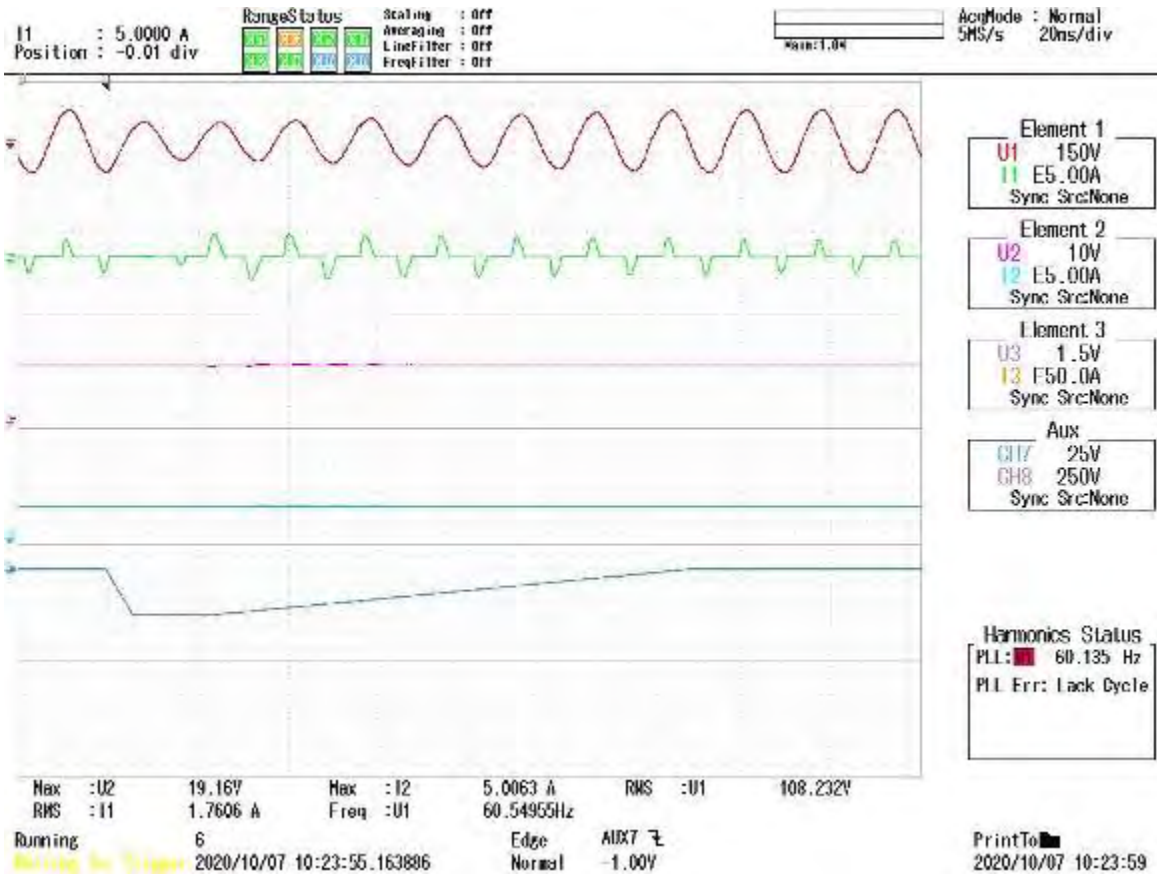


Figure H-43: Condition G

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output voltage; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF109 Normal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	48 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

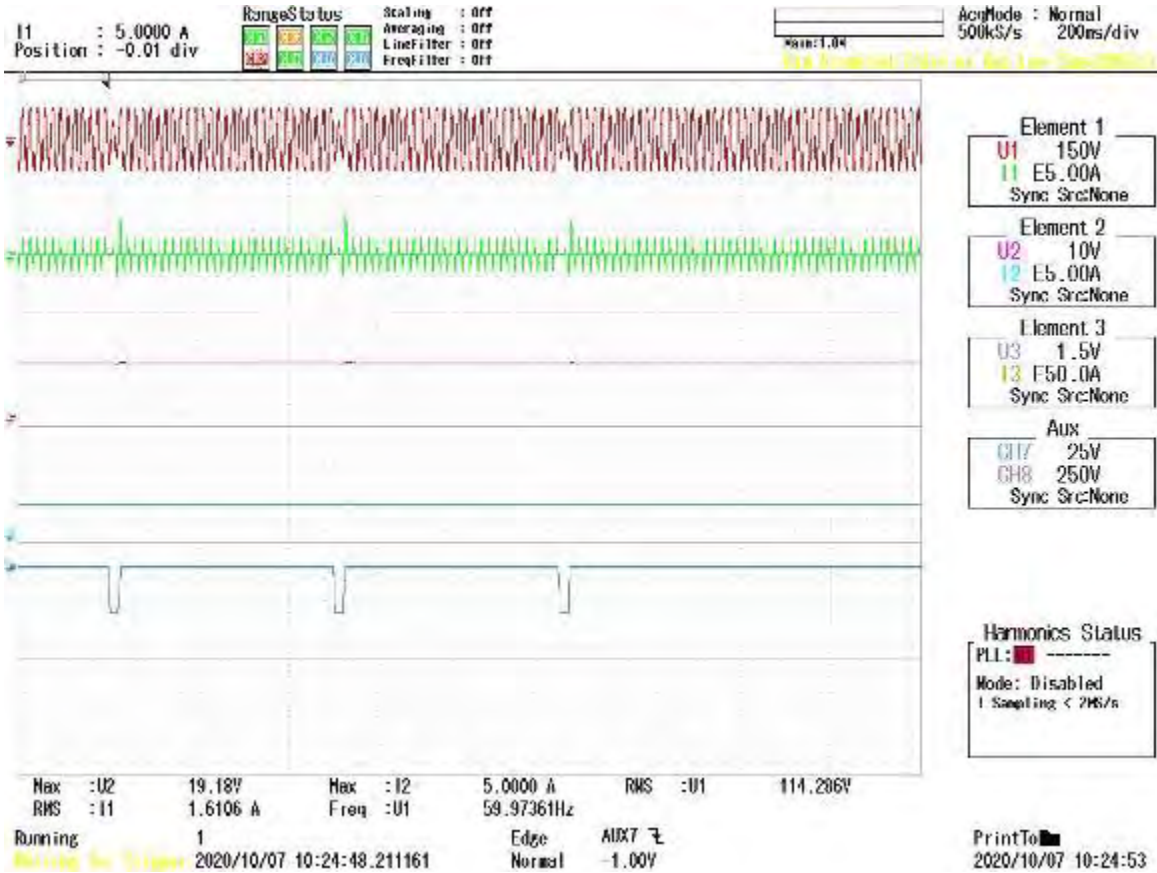


Figure H-44: Condition H

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output voltage; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF109 Normal Voltage Transients**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	49 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

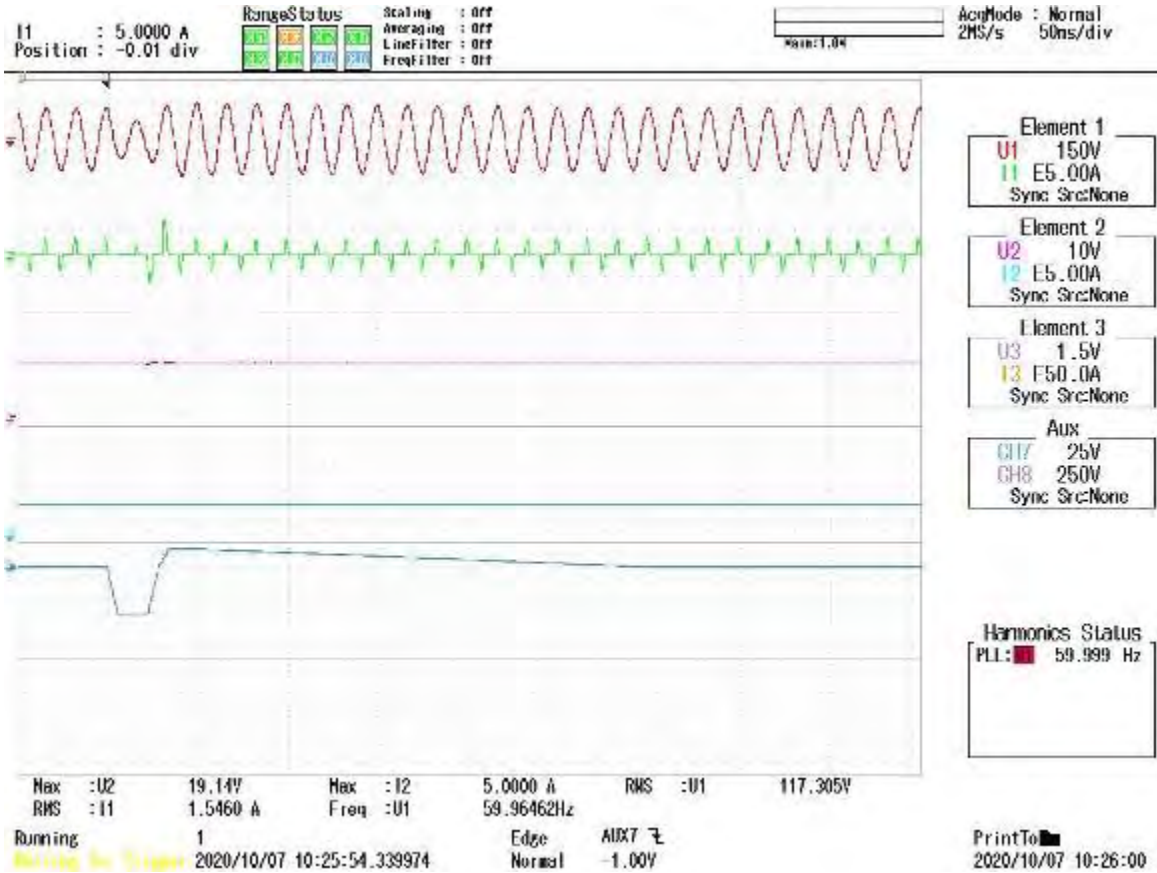


Figure H-45: Condition I

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output voltage; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF109 Normal Voltage Transients**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	50 of 50
Project number	61179	Specification	MIL-HDBK-704-6, SFX109				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

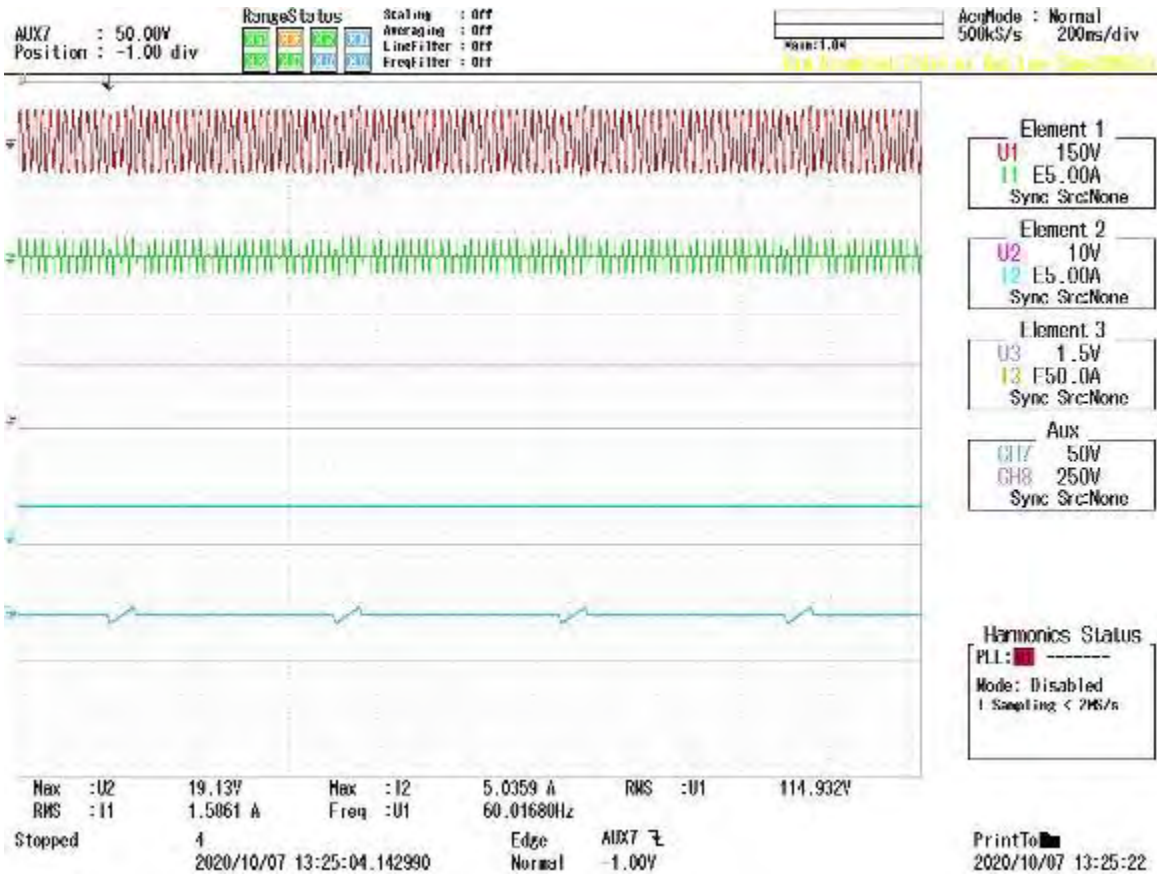


Figure H-46: Repetitive normal voltage transients

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output voltage; channel AUX7 = modulation voltage

Appendix I: SXF110 Normal Frequency Transients



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
360-060	Power scope	X	210-059	Multimeter	X	
230-098	Probe	X	310-094	Arbitrary waveform generator	X	
350-153	Amplifier	N/A	230-121	Probe	X	
290-015	Micro-ohmmeter	X	310-085	Standards waveform generator	N/A	

Power Input AC, SXF110 Normal Frequency Transients Test results							
Test condition	Nominal frequency	Transient frequency	Transient duration	EUT mode	Repetitions	Result	Notes
A	60 Hz	61 Hz	8.333 mSec	N/A	N/A	N/A	Figures I-1 through I-4, calibration
B	60 Hz	61 Hz	5 Sec	N/A	N/A	N/A	Figures I-1 and I-5 through I-7, calibration
C	60 Hz	59 Hz	8.333 Sec	N/A	N/A	N/A	Figures I-8 through I-11, calibration
D	60 Hz	59 Hz	5 Sec	N/A	N/A	N/A	Figures I-8 and I-12 through I-14, calibration
E	60 Hz	59 Hz, then 61 Hz	8.333 mSec, then 8.333 mSec	N/A	N/A	N/A	Figures I-15 through I-20, calibration
A	60 Hz	61 Hz	8.333 mSec	Operating, 5A load	5	Pass	Figure I-21
B	60 Hz	61 Hz	5 Sec	Operating, 5A load	5	Pass	Figure I-22
C	60 Hz	59 Hz	8.333 mSec	Operating, 5A load	5	Pass	Figure I-23
D	60 Hz	59 Hz	5 Sec	Operating, 5A load	5	Pass	Figure I-24
E	60 Hz	59 Hz, then 61 Hz	8.333 mSec, then 8.333 mSec	Operating, 5A load	5	Pass	Figure I-25

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet
Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

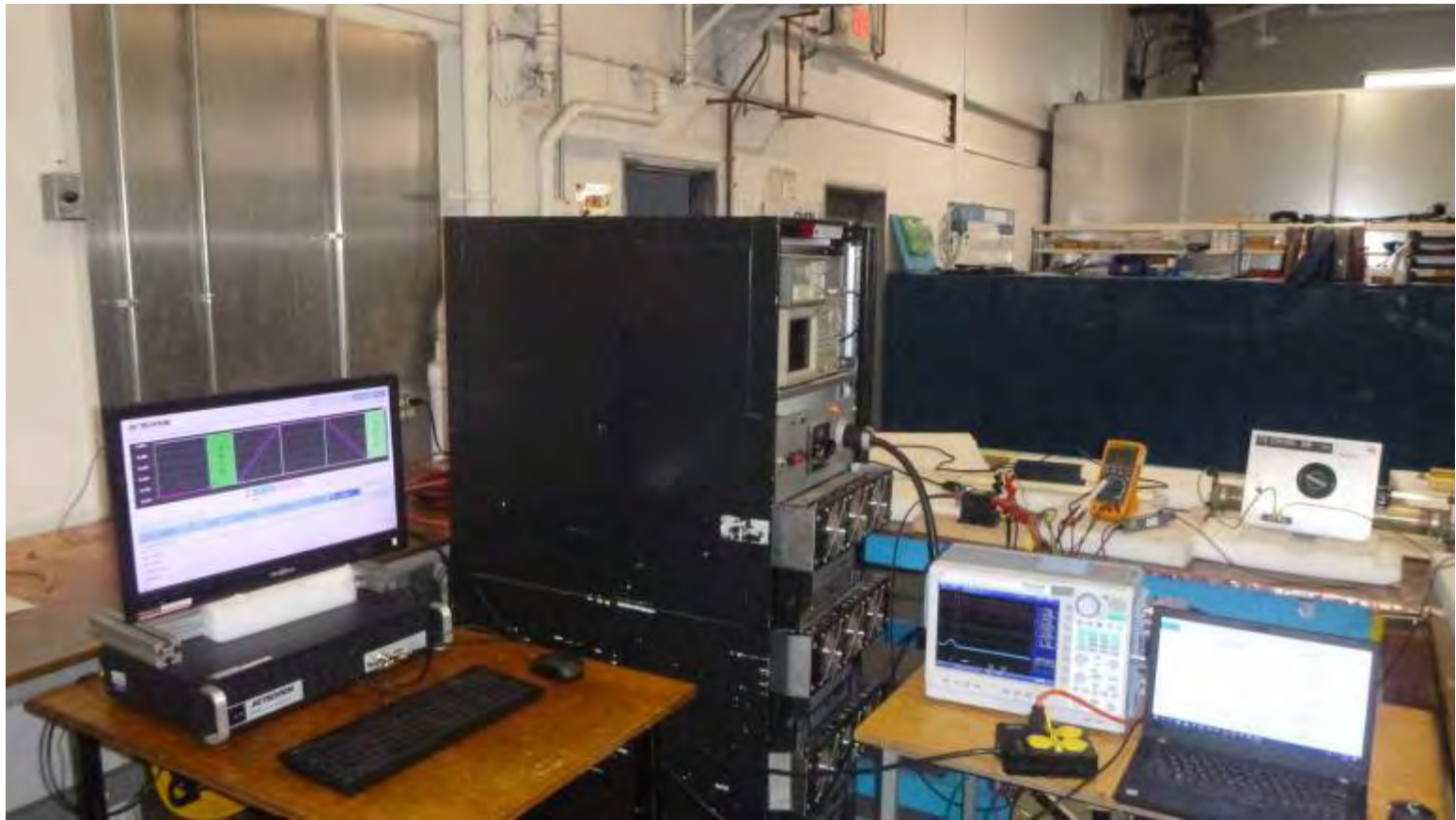


Photograph I-1: EUT identification



Data sheet
Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph I-2: Test setup



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

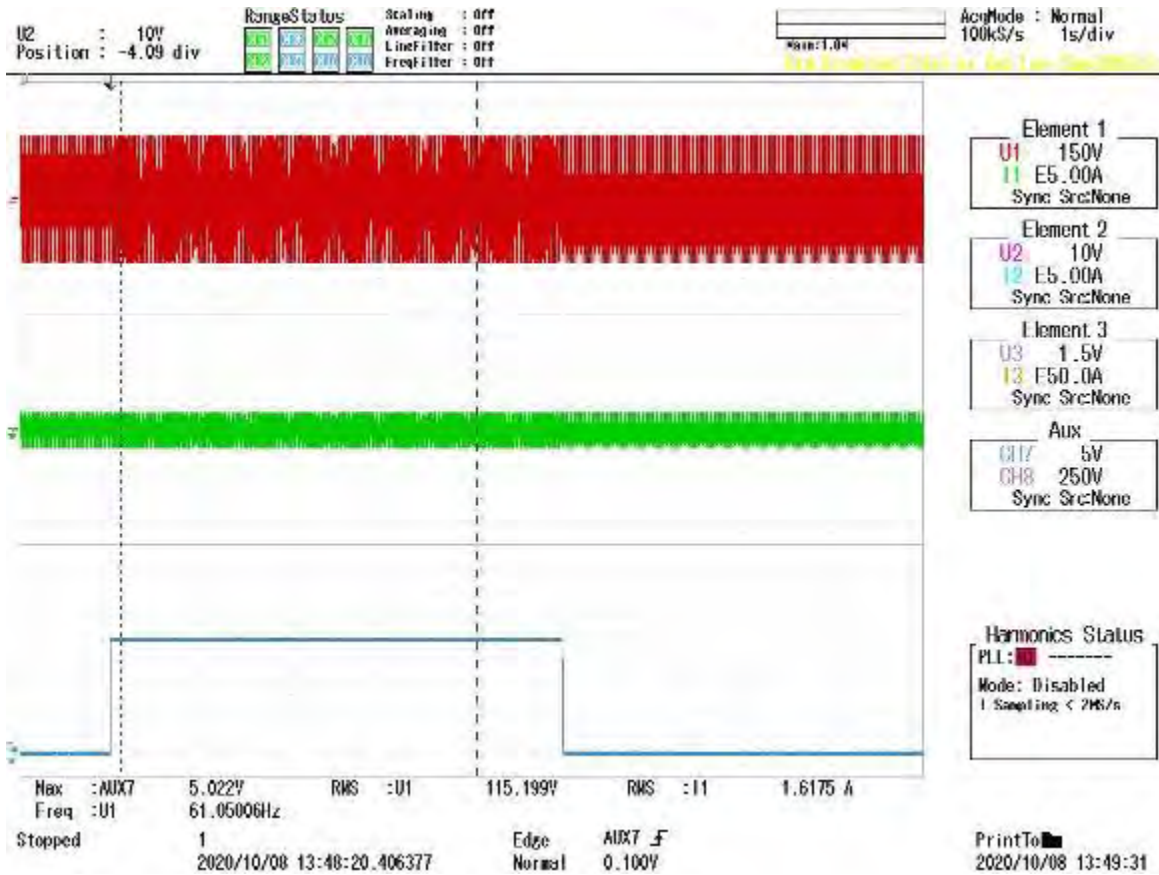
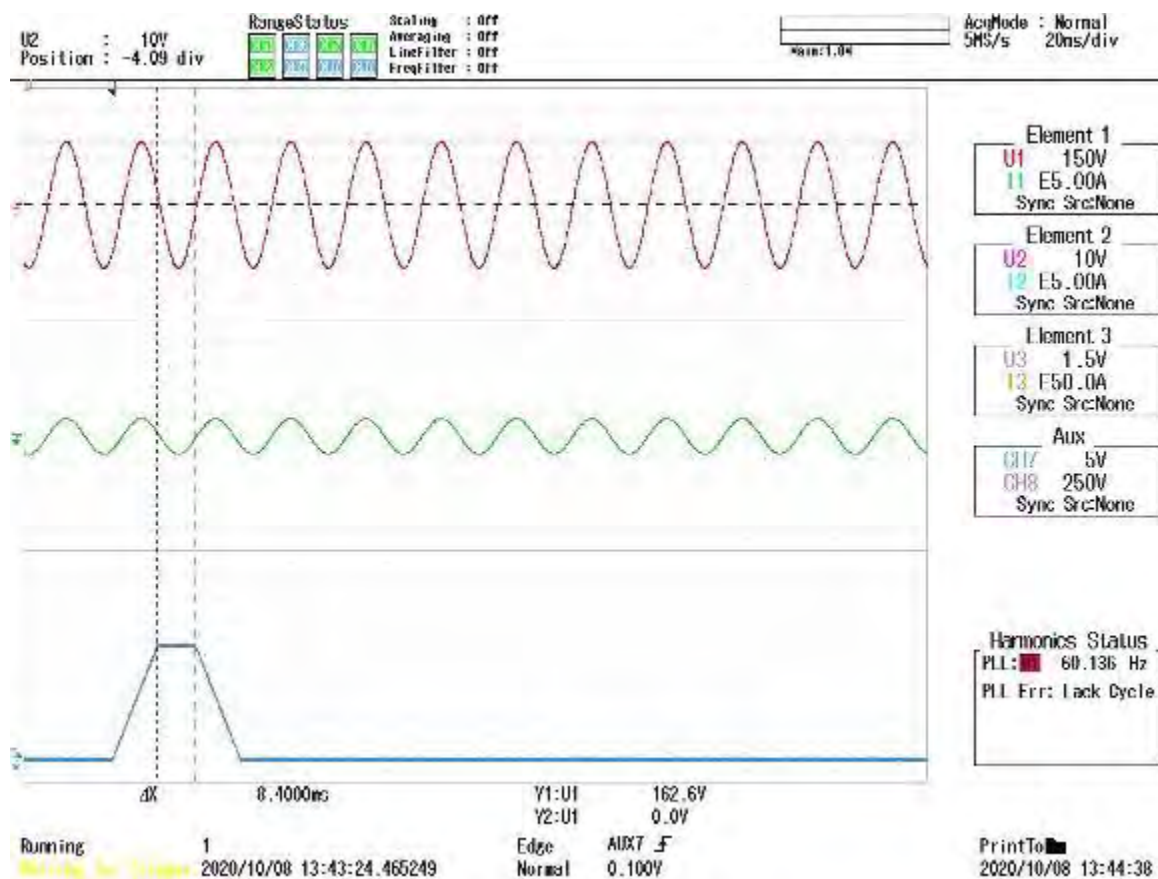


Figure I-1: Conditions A and B, transient frequency

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	6 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

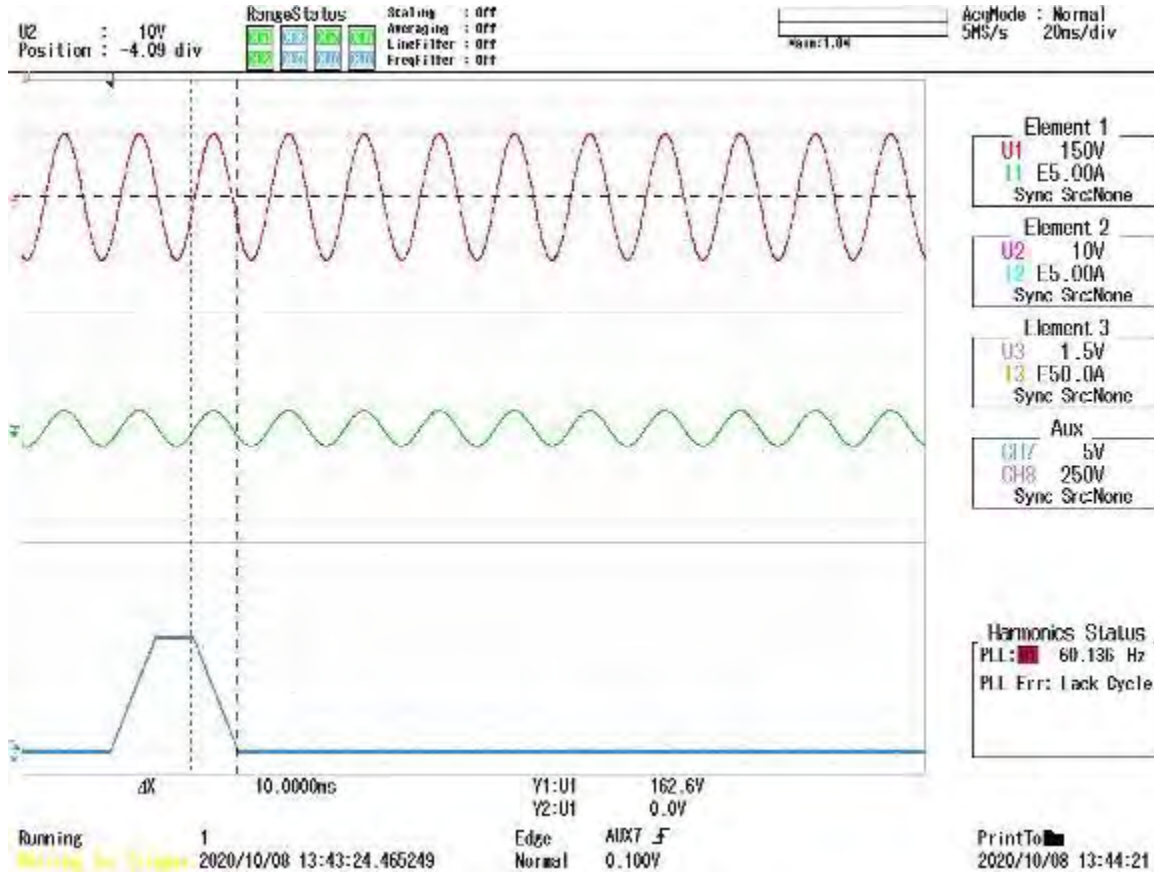


Figure I-3: Condition A, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	7 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

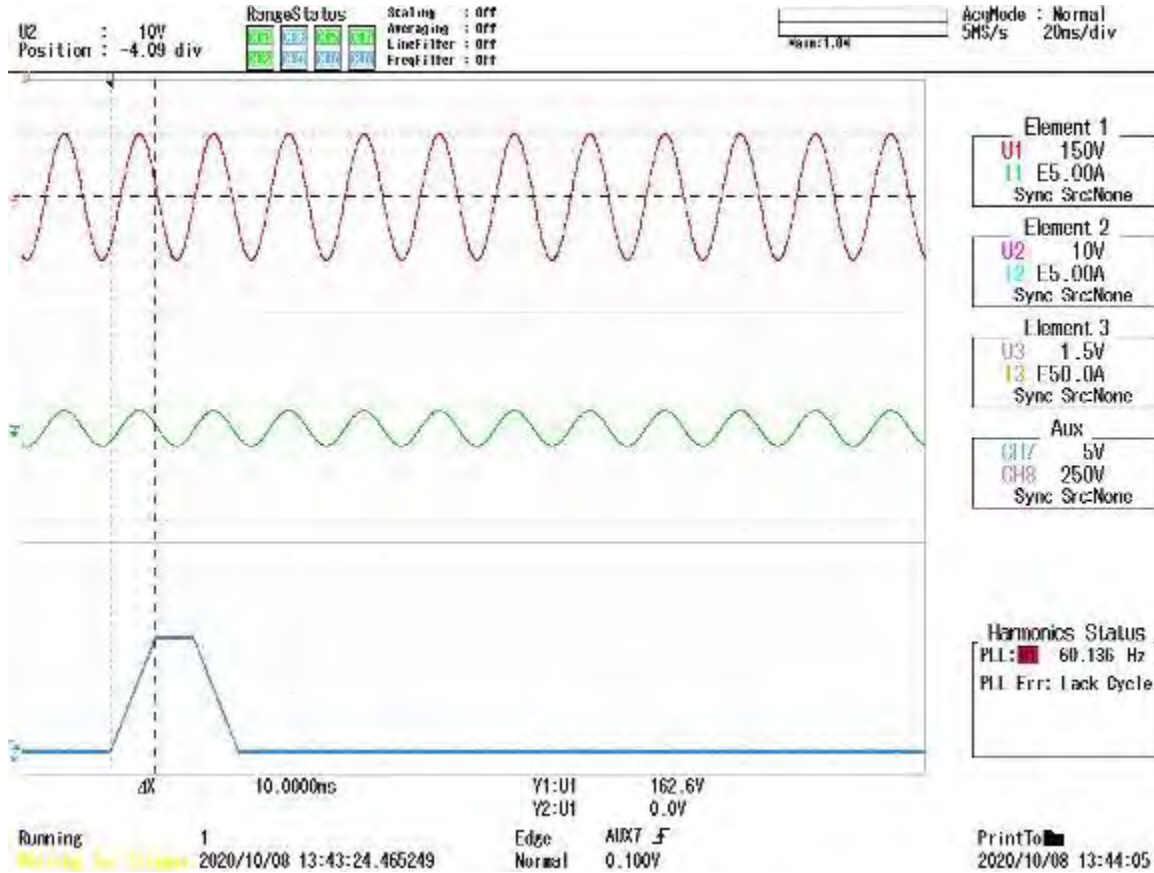


Figure I-4: Condition A, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	8 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

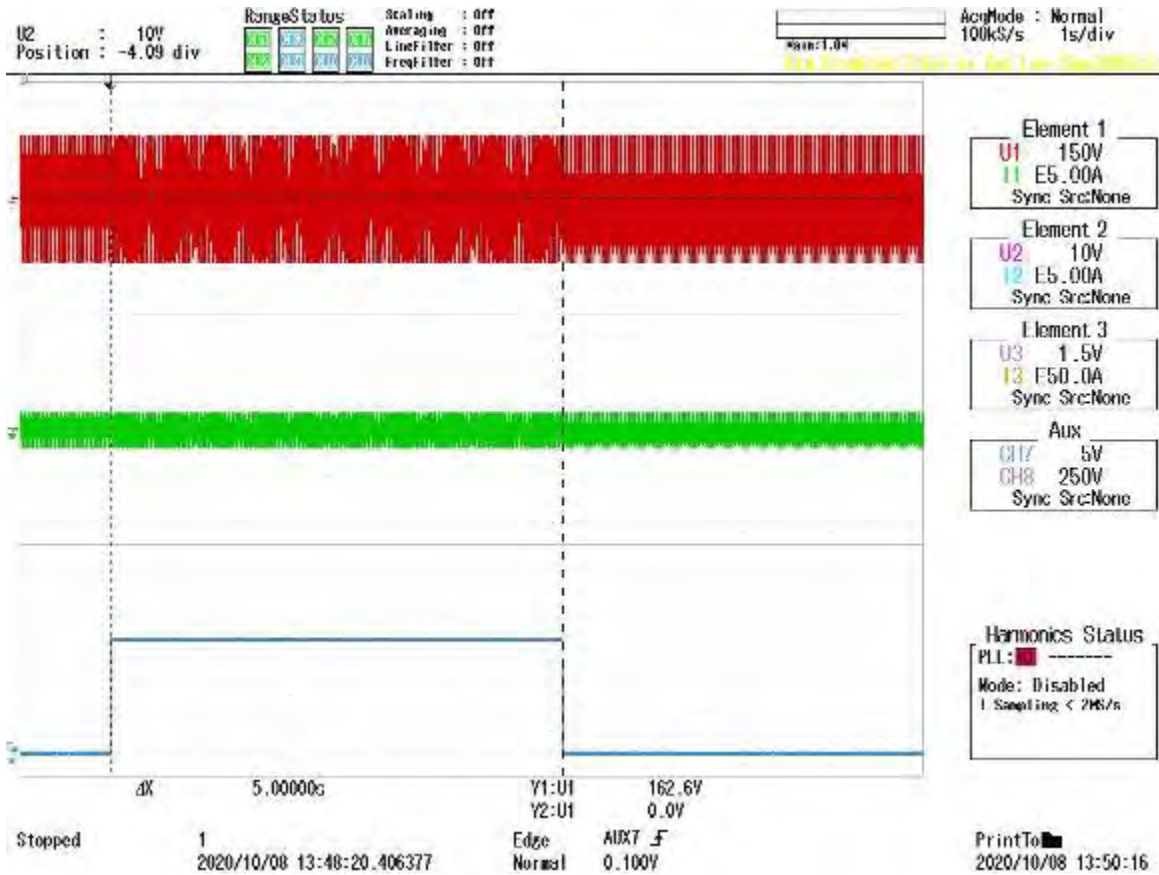


Figure I-5: Condition B, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	9 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

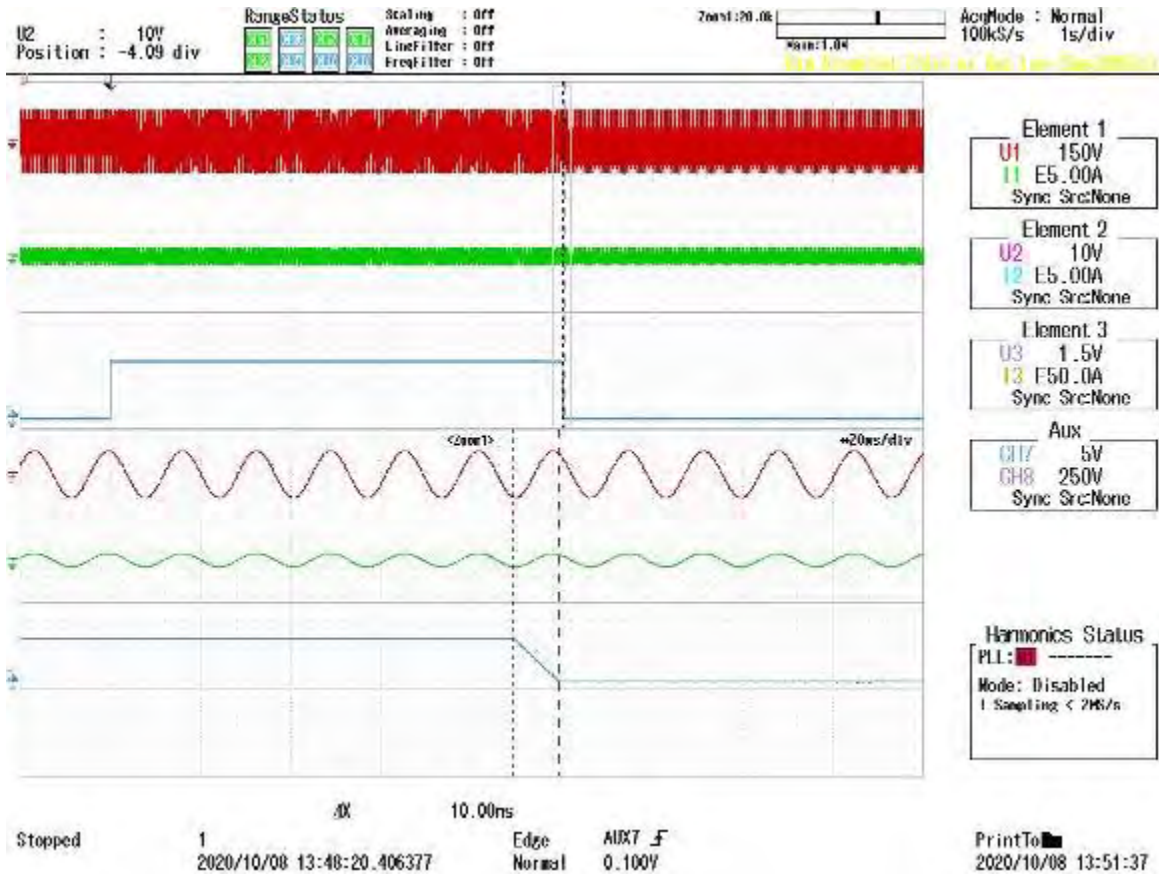


Figure I-6: Condition B, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	10 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

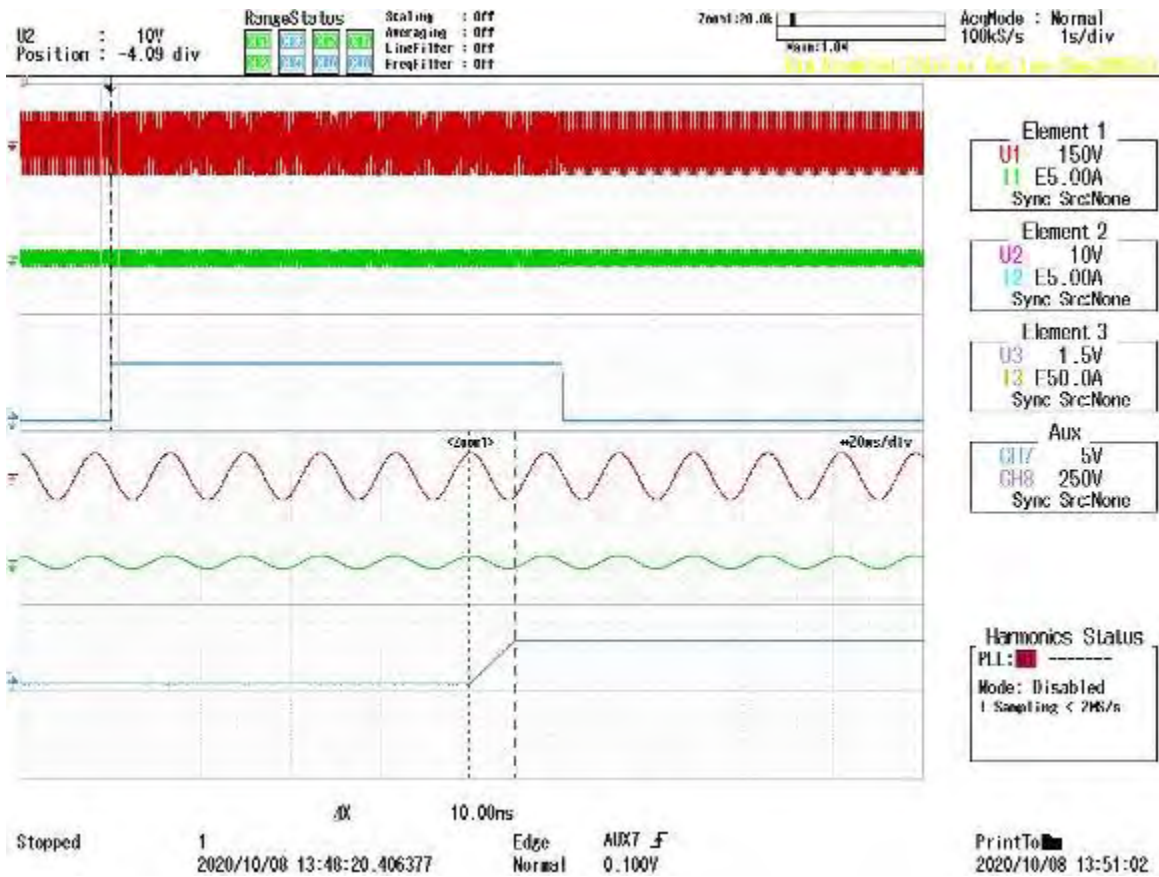


Figure I-7: Condition B, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF110 Normal Frequency Transients**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	11 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

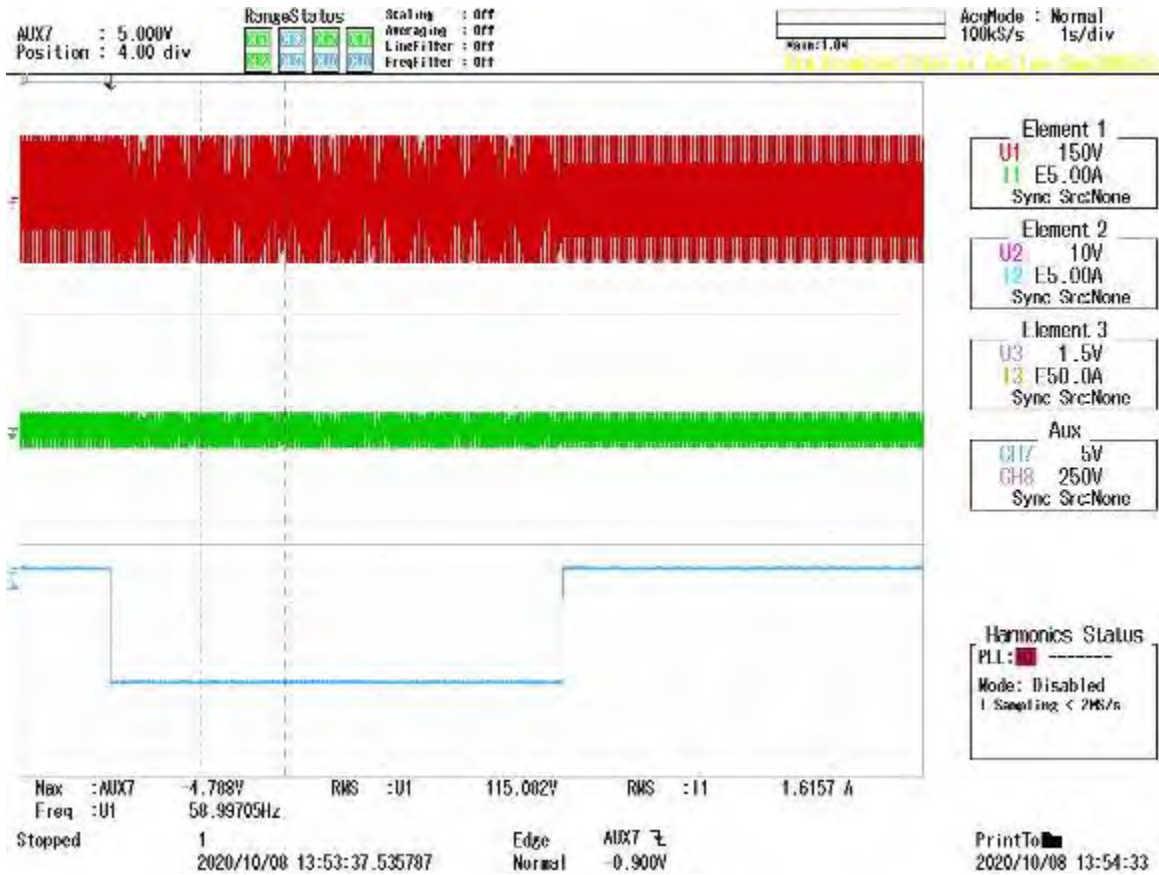


Figure I-8: Conditions C and D, transient frequency

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	12 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

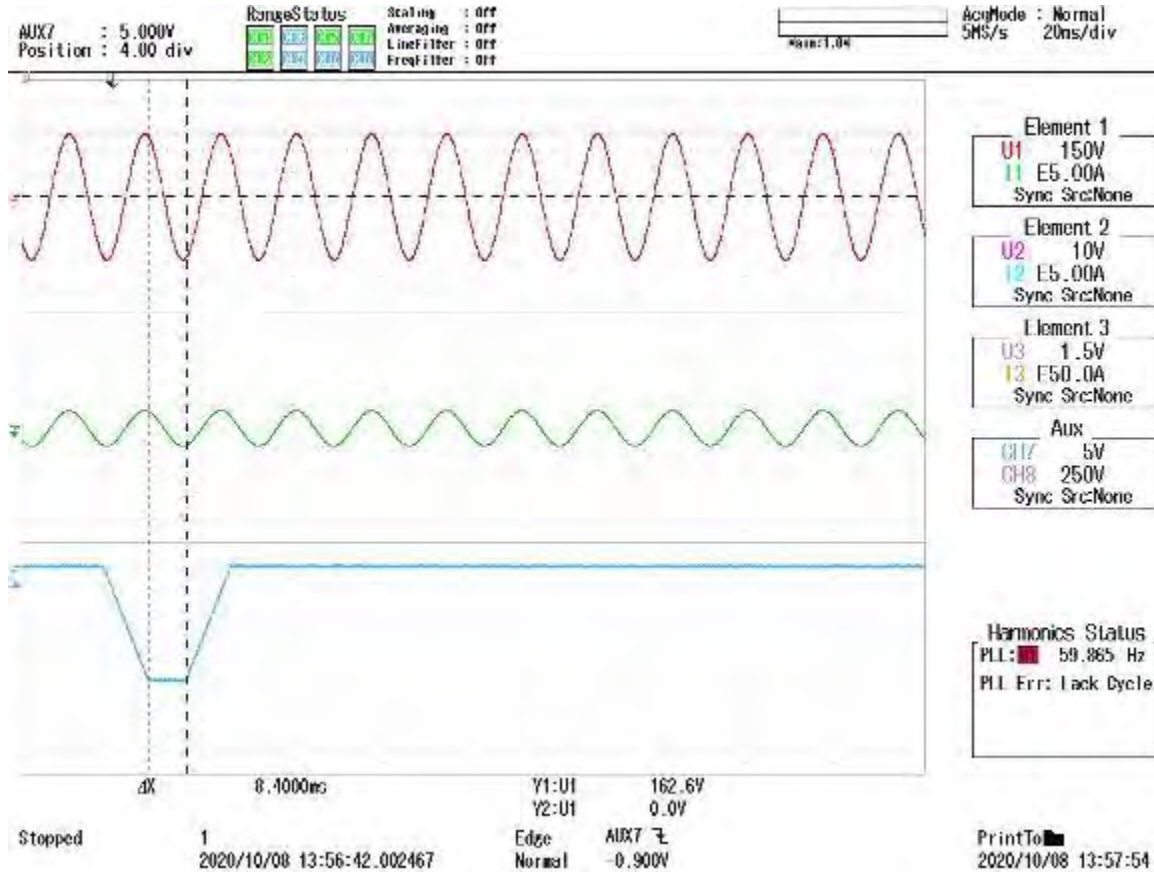


Figure I-9: Condition C, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	13 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

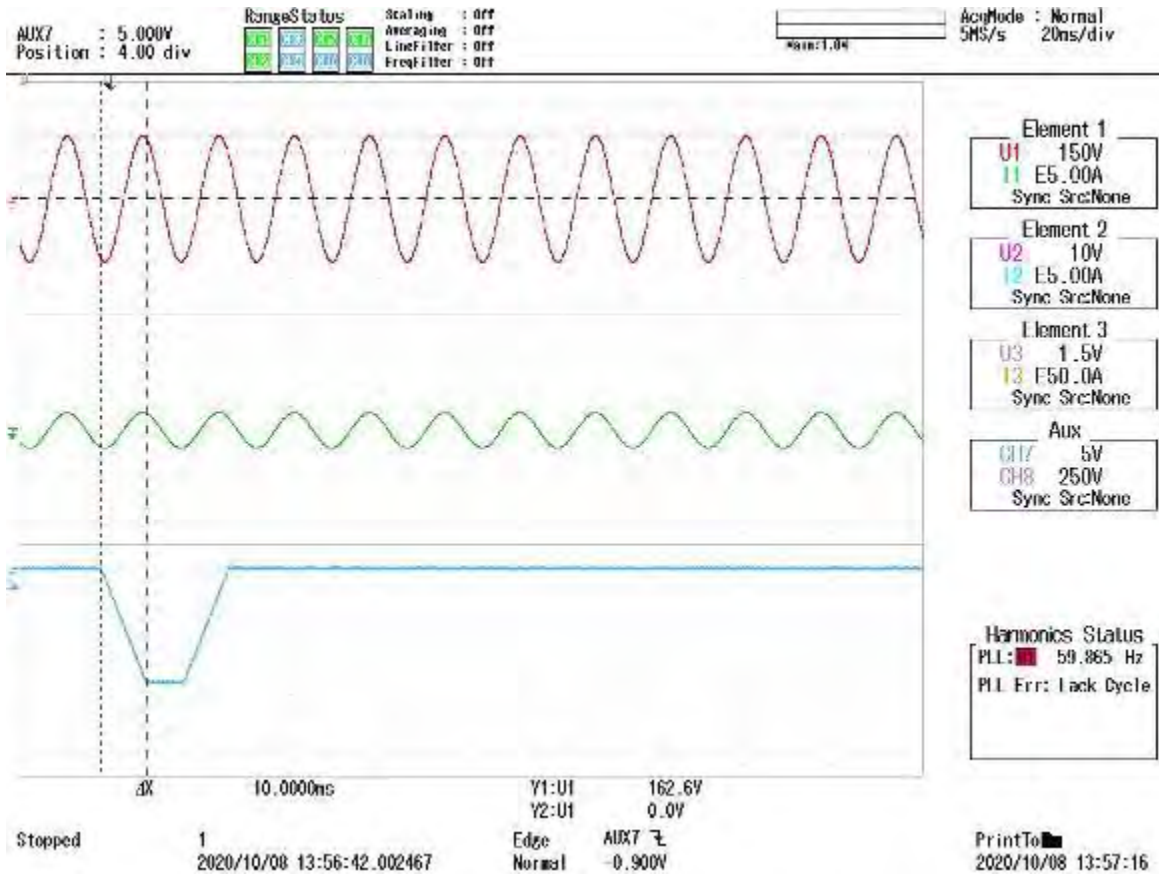


Figure I-10: Condition C, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	14 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

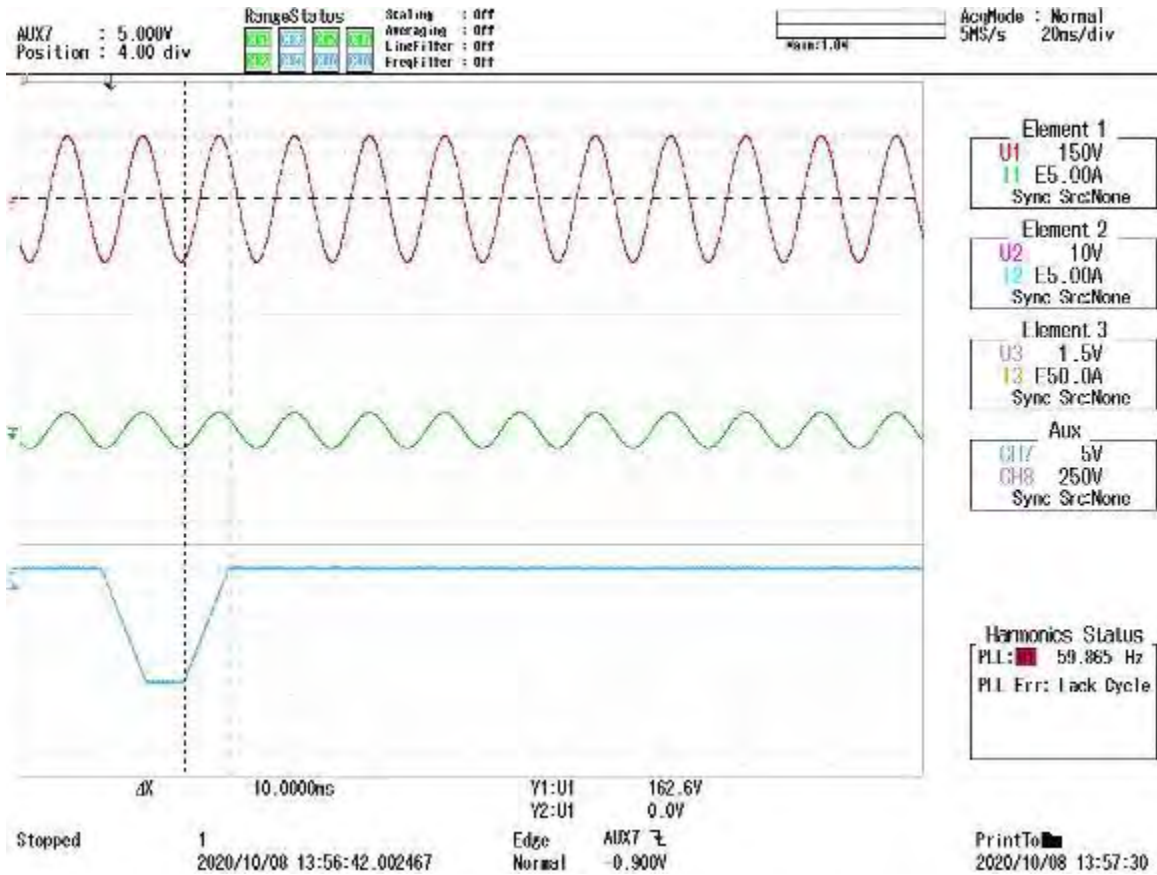


Figure I-11: Condition C, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	15 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

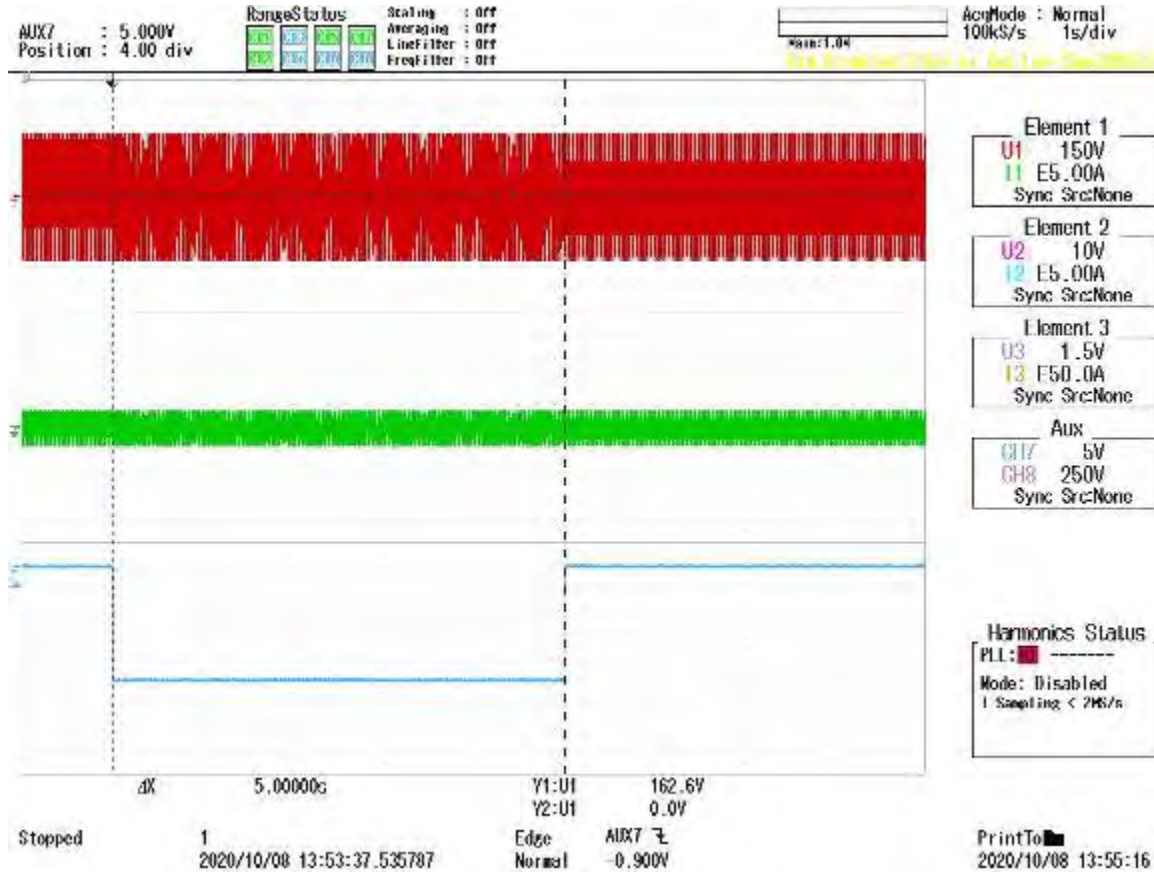


Figure I-12: Condition D, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	16 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

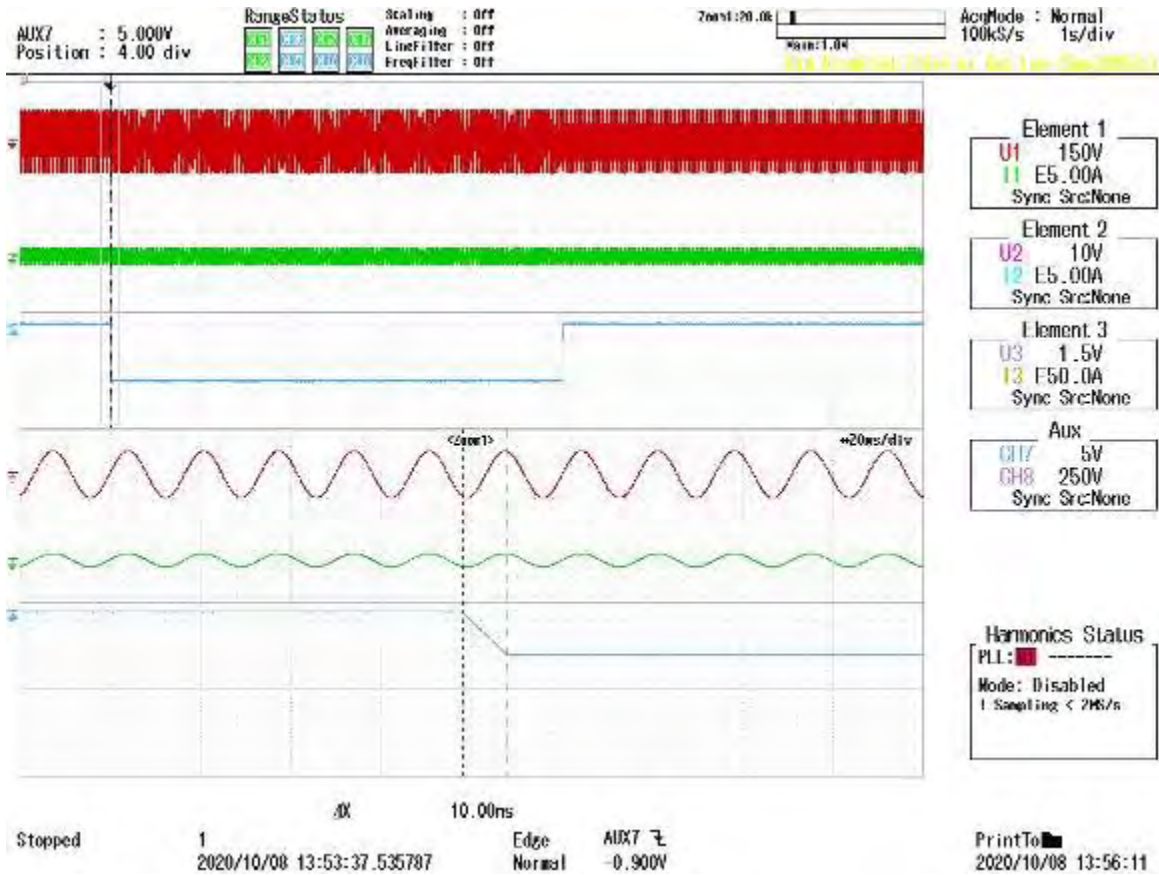


Figure I-13: Condition D, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	17 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

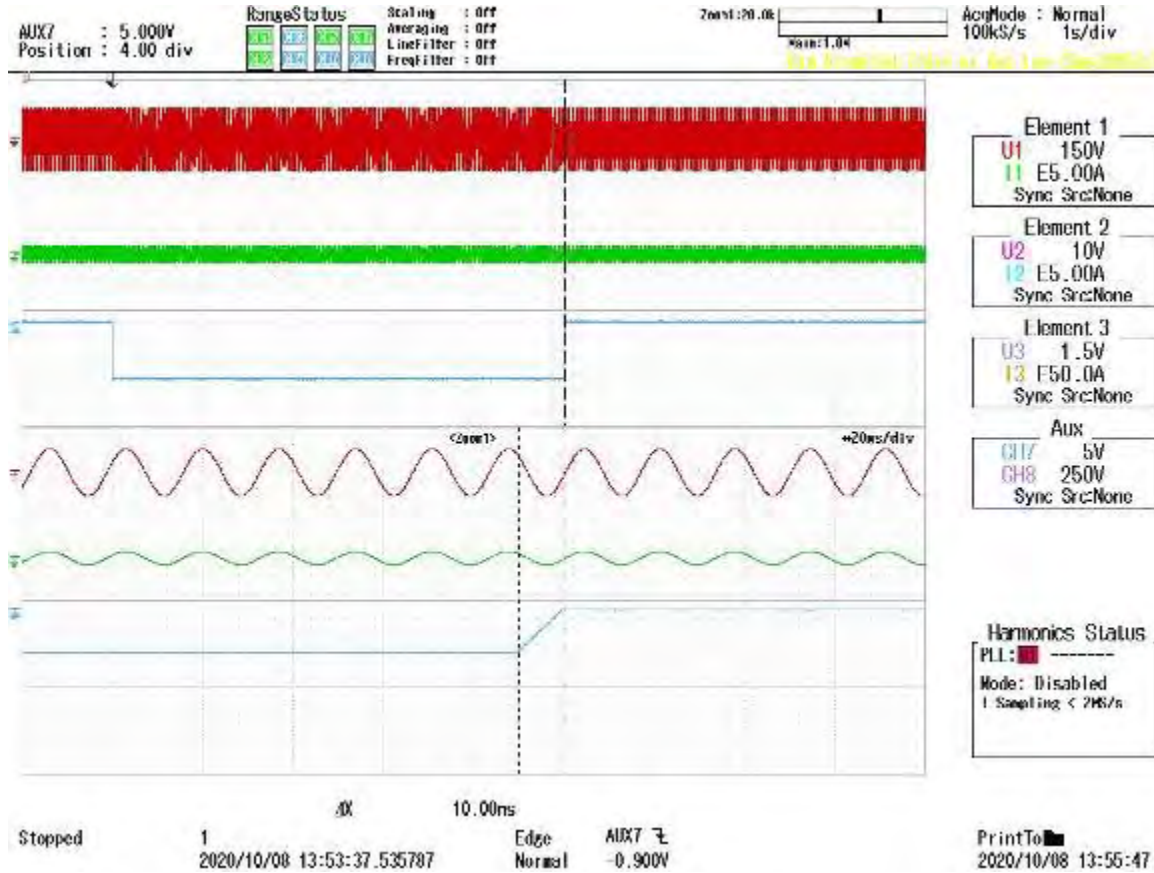


Figure I-14: Condition D, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	18 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

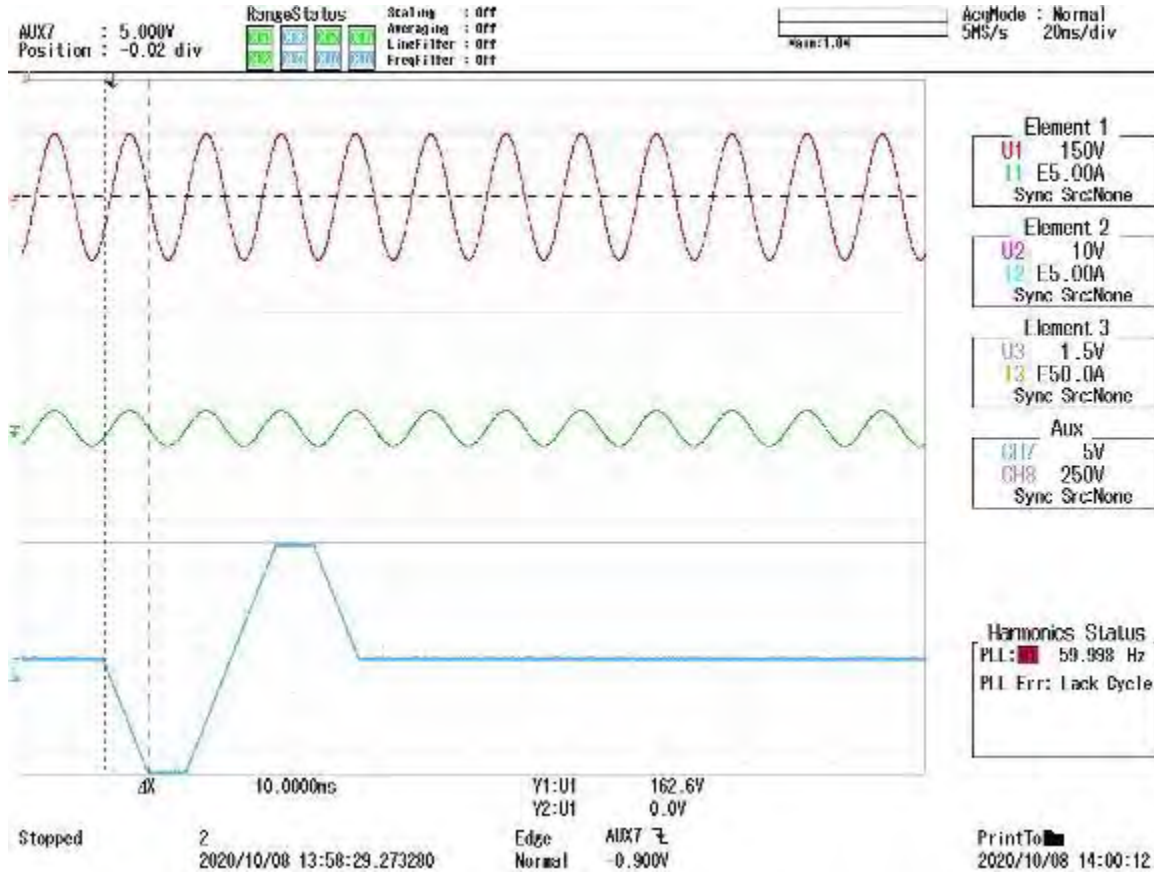


Figure I-15: Condition E, 59 Hz, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	19 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

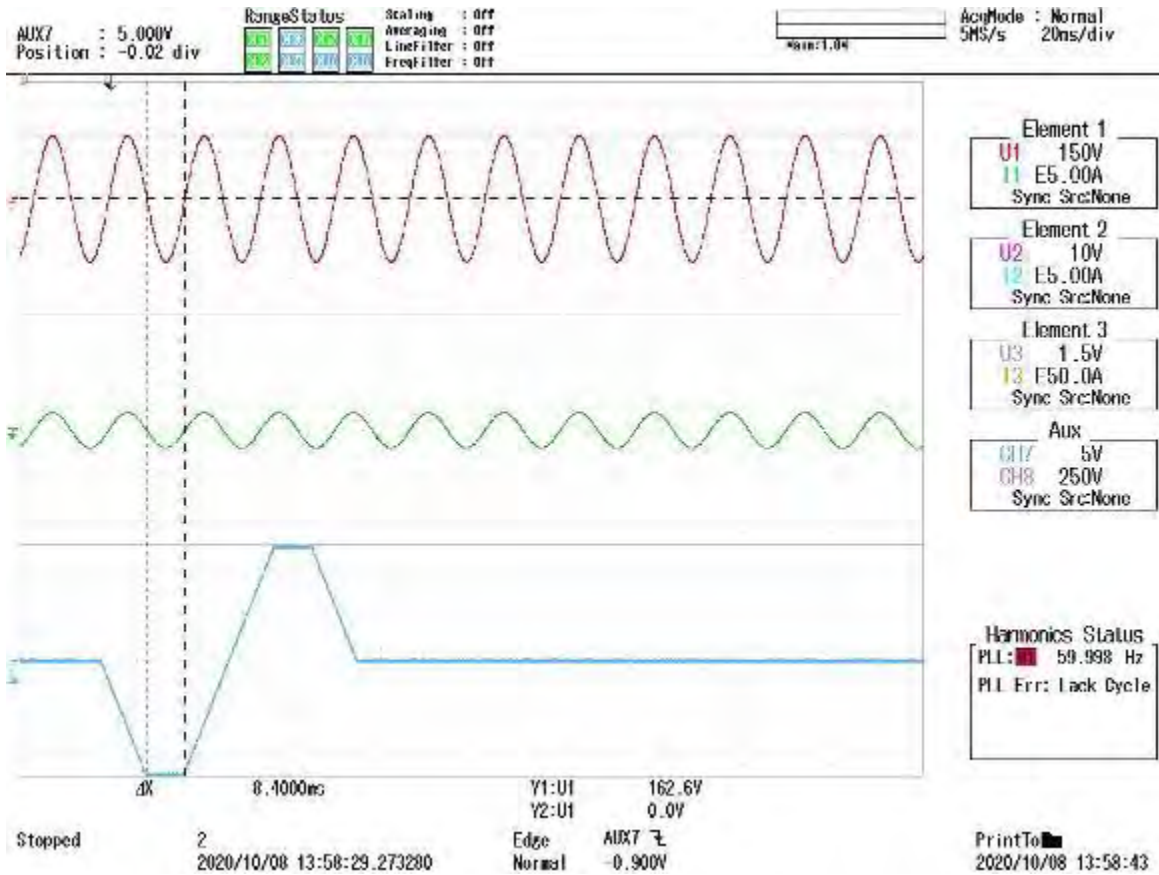


Figure I-16: Condition E, 59 Hz, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	20 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

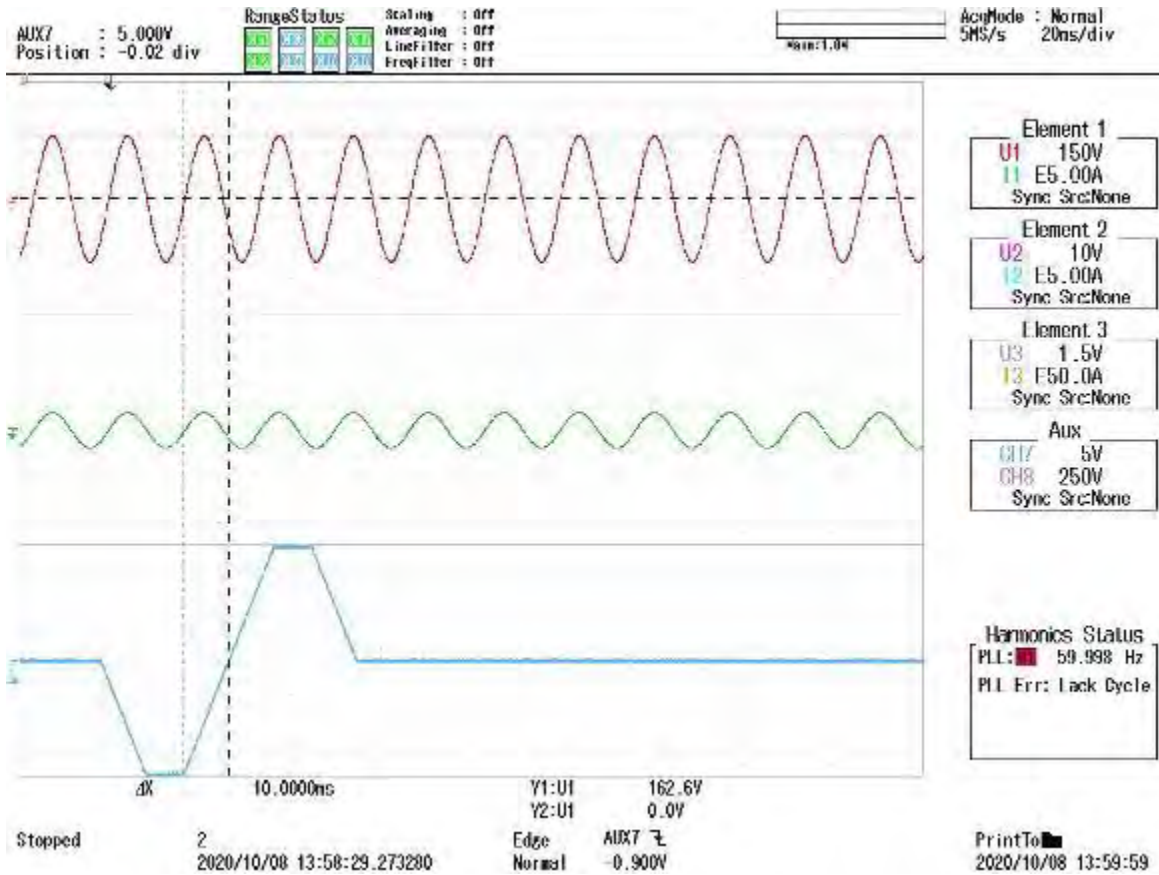


Figure I-17: Condition E, 60 Hz, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	21 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

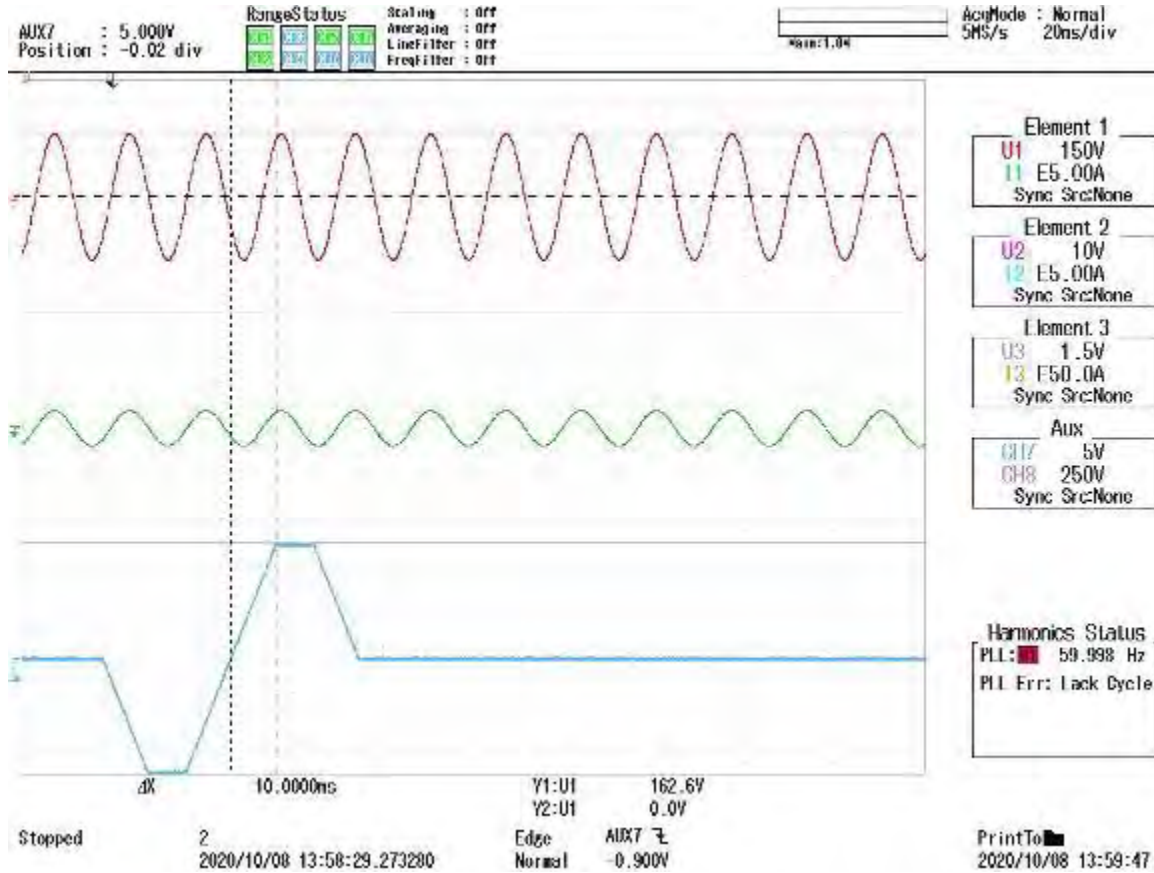


Figure I-18: Condition E, 61 Hz, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	22 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

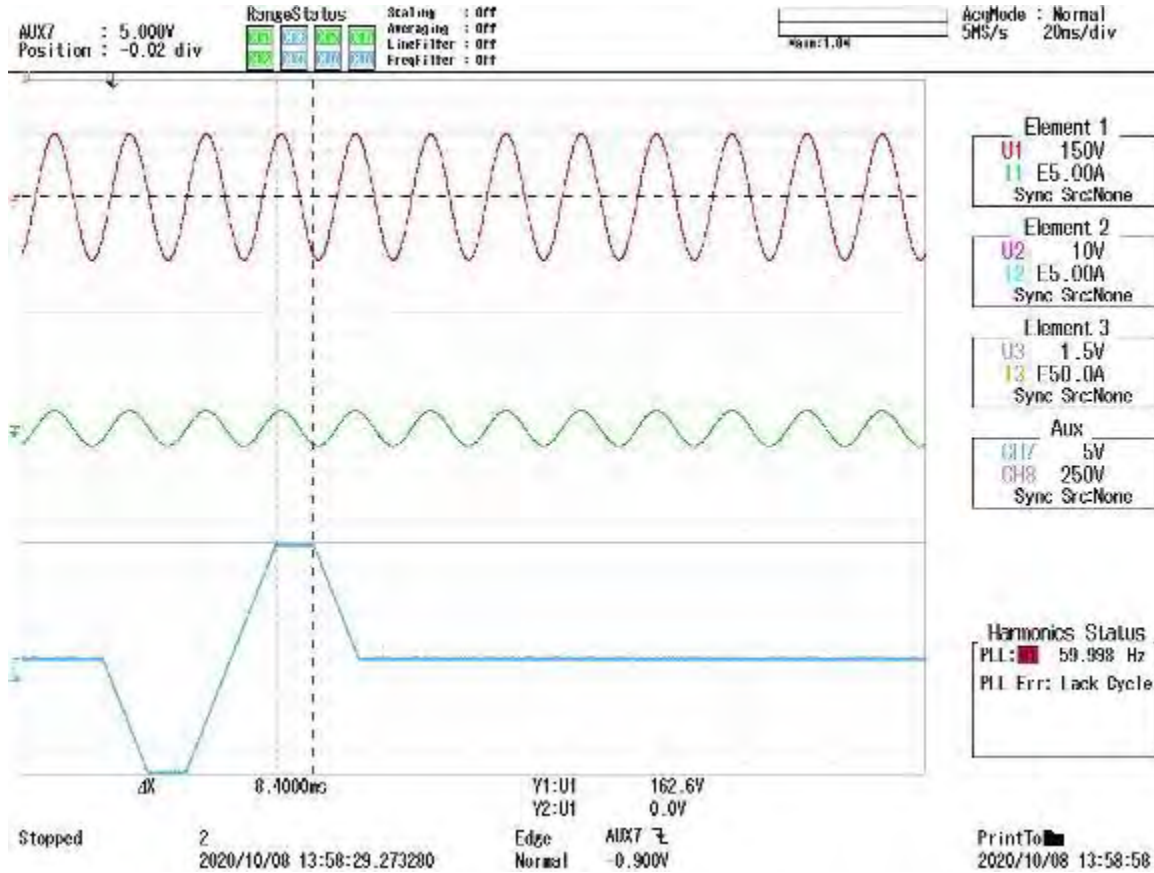


Figure I-19: Condition E, 61 Hz, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	23 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

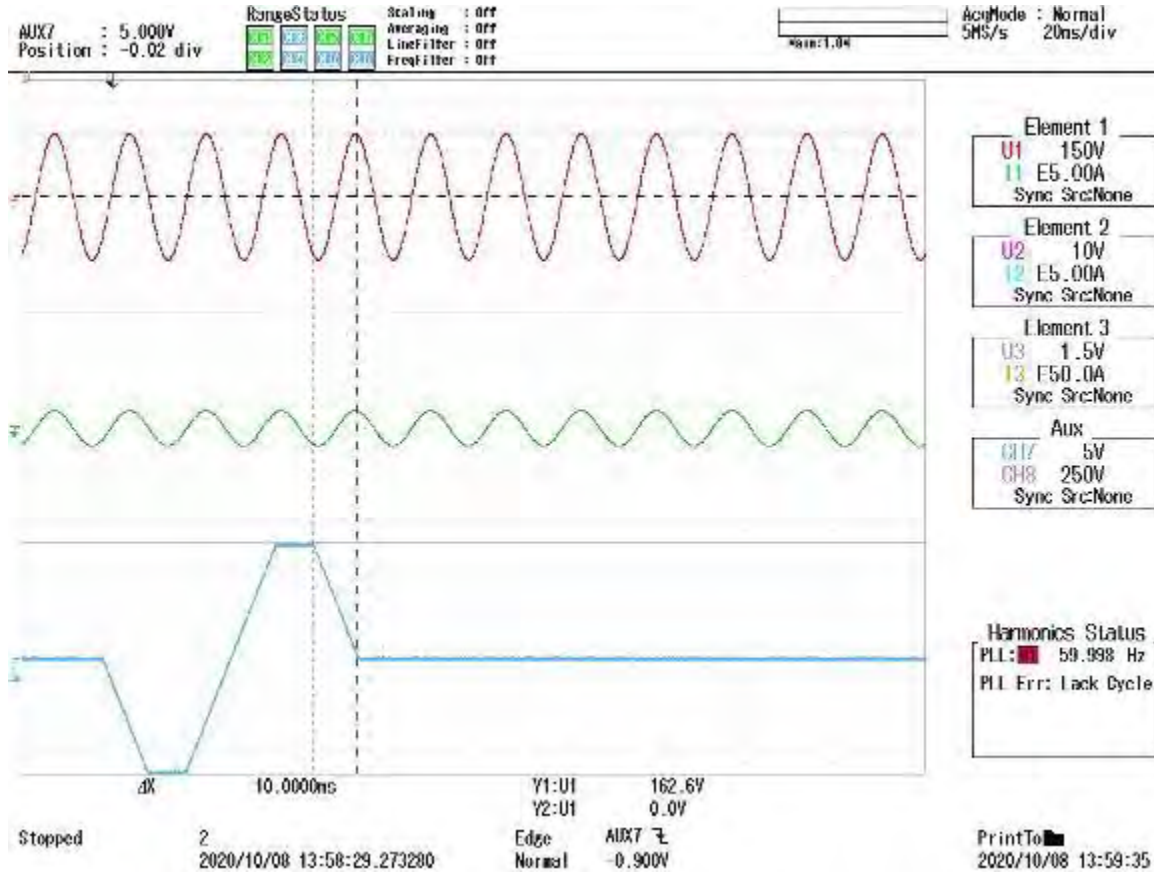


Figure I-20: Condition E, 60 Hz, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	24 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

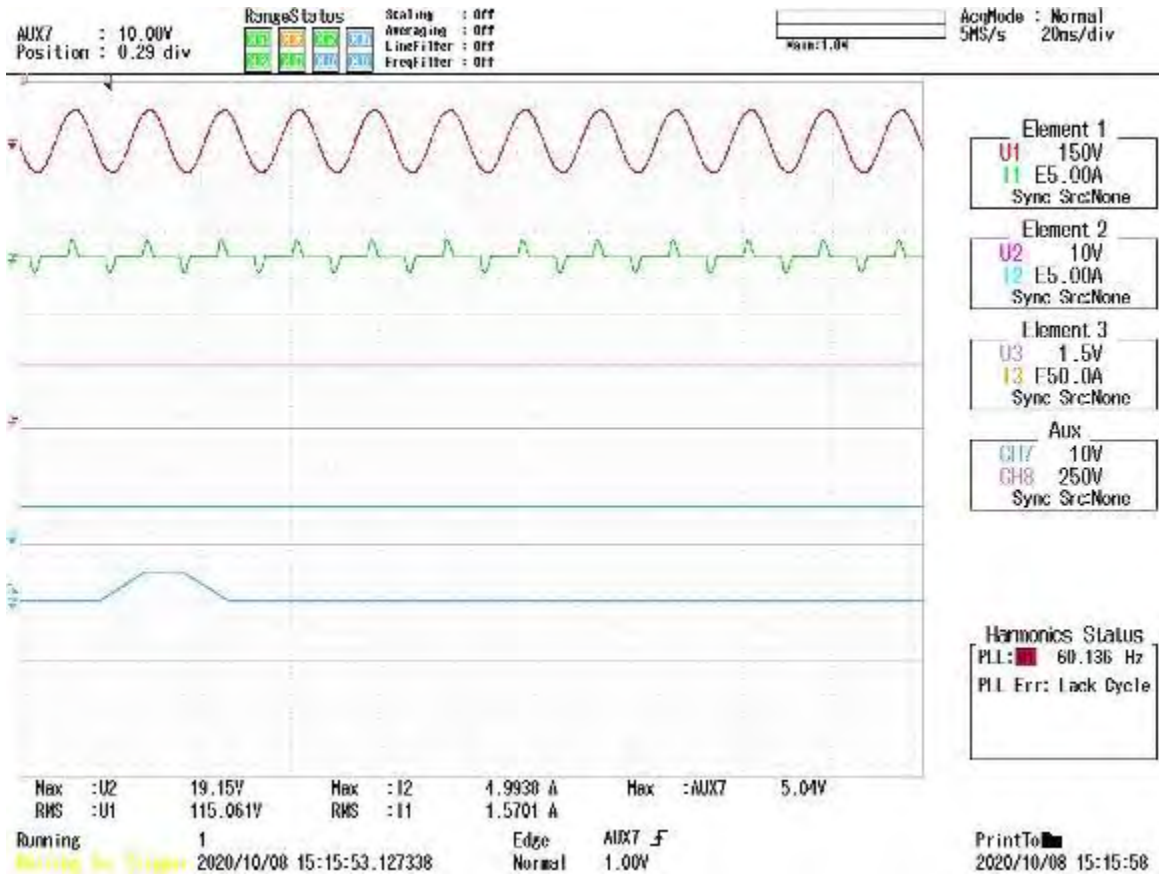


Figure I-21: Condition A

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	25 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Figure I-22: Condition B

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	26 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

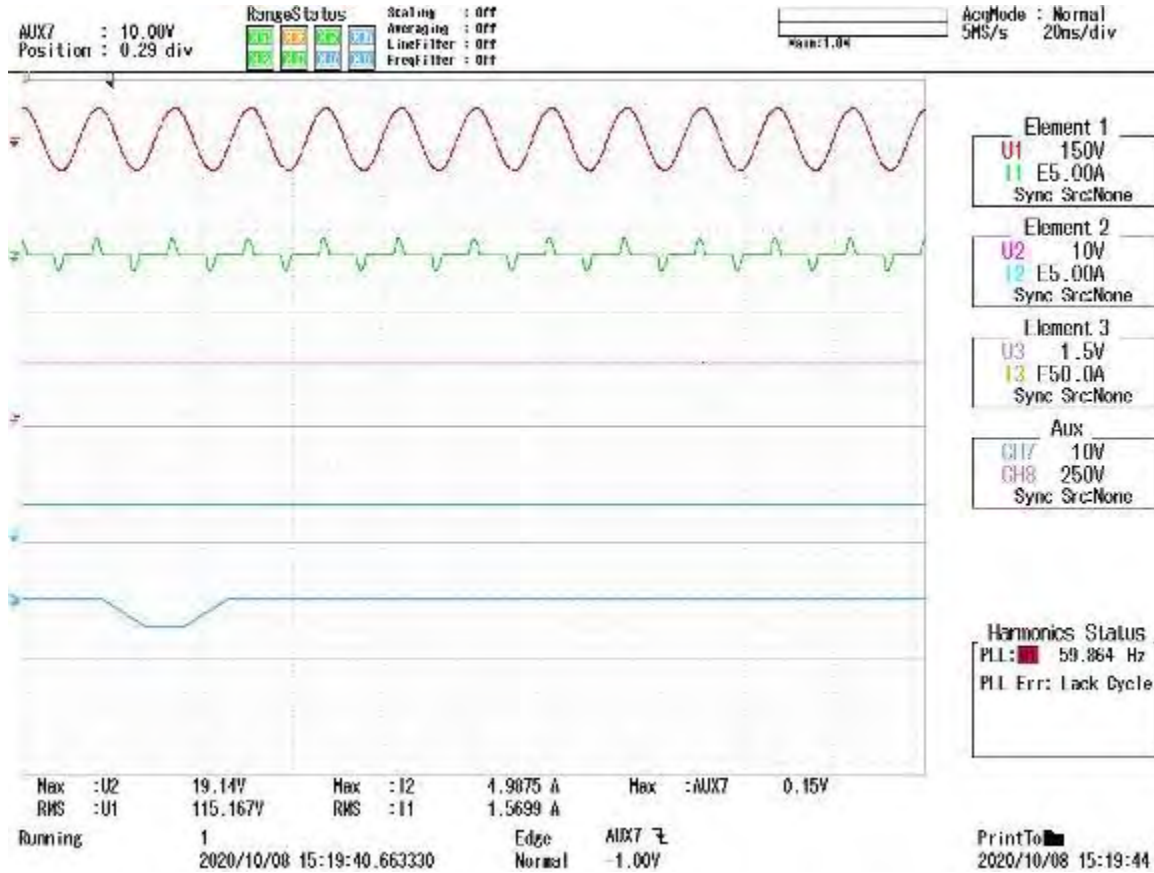


Figure I-23: Condition C

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	27 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

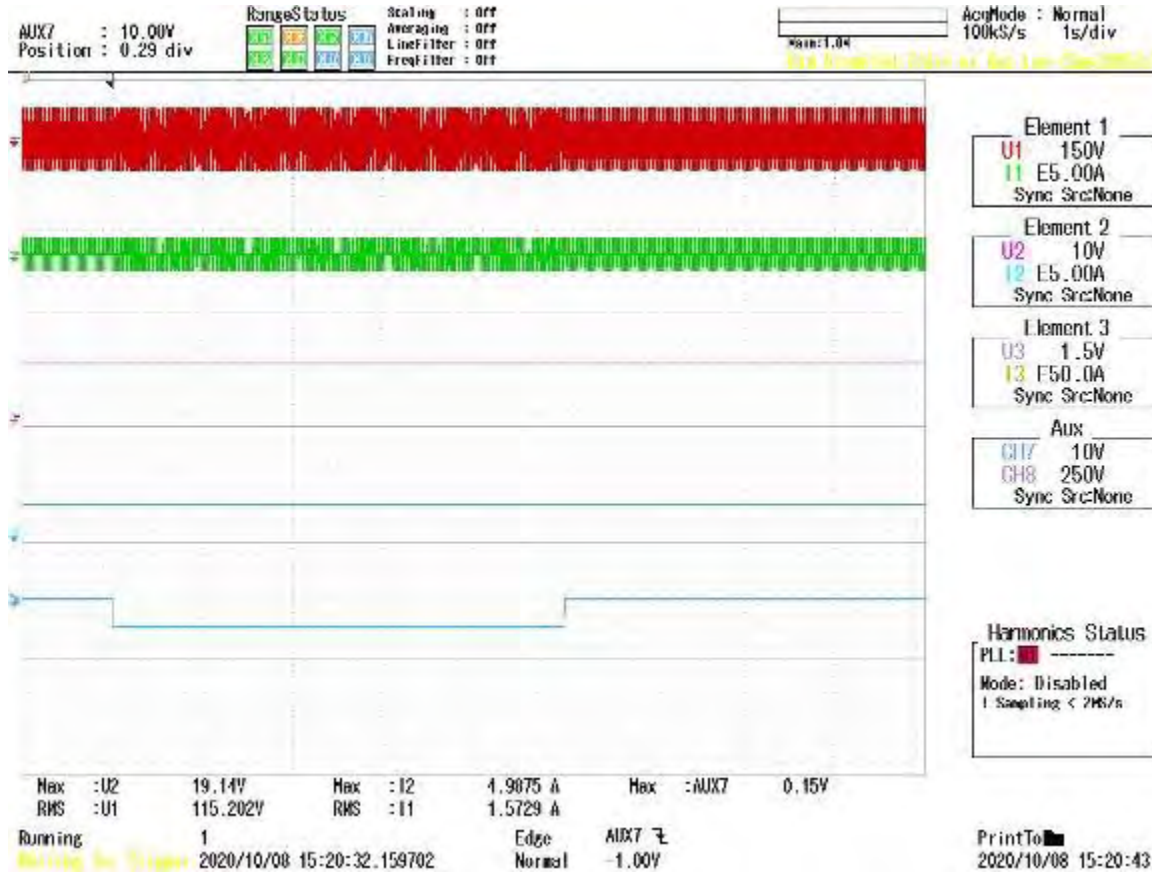


Figure I-24: Condition D

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF110 Normal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	28 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF110				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

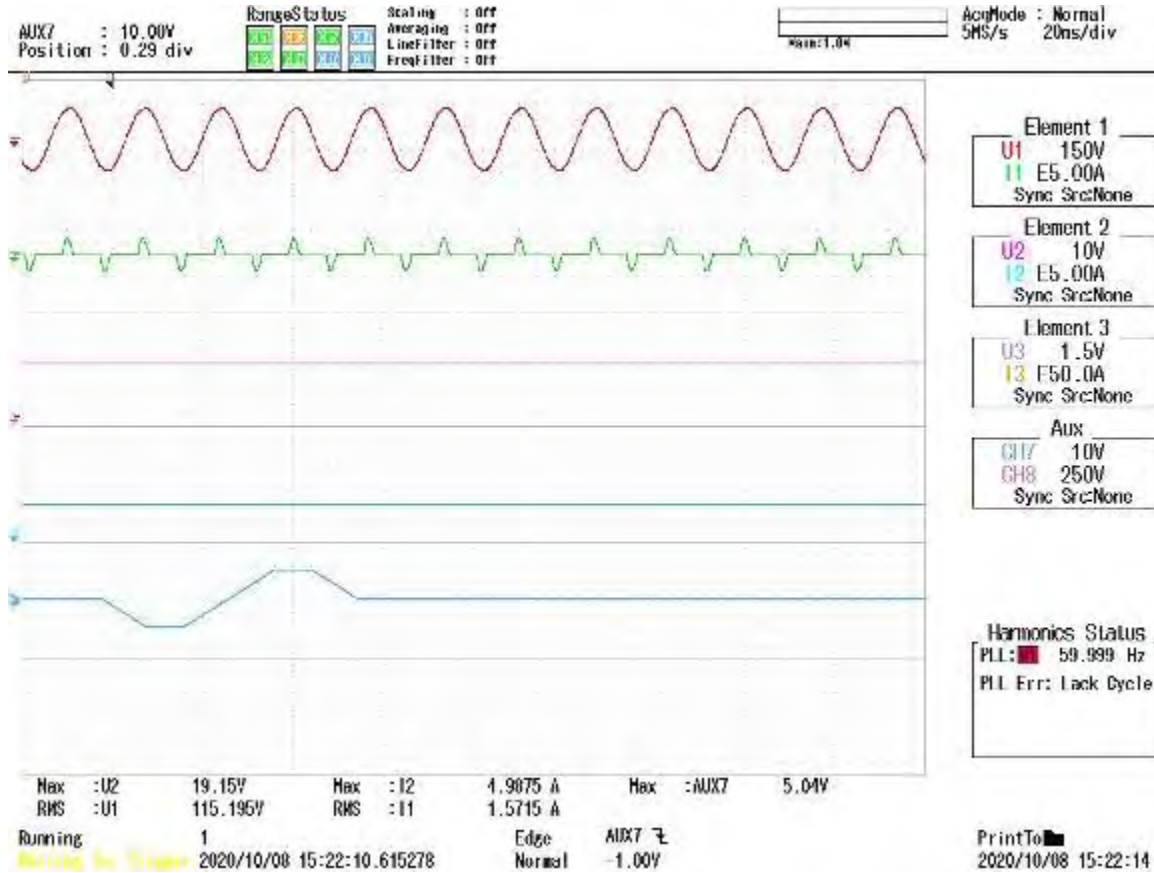


Figure I-25: Condition E

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage

Appendix J: SXF201 Power Interrupt



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
360-060	Power scope	X	210-059	Multimeter	X	
230-098	Probe	X	310-094	Arbitrary waveform generator	X	
310-036	Arbitrary waveform generator	N/A	350-153	Amplifier	N/A	
230-121	Probe	X	290-015	Micro-ohmmeter	X	

Power Input AC, SXF201 Power Interrupt Test results						
Test condition	Duration of interrupt	Nominal voltage	EUT mode	Repetitions	Result	Notes
A	50 mSec	115 Vac	N/A	N/A	Pass	Figures J-1 through J-3, calibration
B	50 mSec	105 Vac	N/A	N/A	Pass	Figures J-4 through J-6, calibration
C	50 mSec	125 Vac	N/A	N/A	Pass	Figures J-7 through J-9, calibration
D	30 mSec	115 Vac	N/A	N/A	Pass	Figures J-10 through J-12, calibration
E	30 mSec	105 Vac	N/A	N/A	Pass	Figures J-13 through J-15, calibration
F	30 mSec	125 Vac	N/A	N/A	Pass	Figures J-16 through J-18, calibration
G	10 mSec	115 Vac	N/A	N/A	Pass	Figures J-19 through J-21, calibration
H	10 mSec	105 Vac	N/A	N/A	Pass	Figures J-22 through J-24, calibration
I	10 mSec	125 Vac	N/A	N/A	Pass	Figures J-25 through J-27, calibration
J	50 mSec, 3 times, separated by 0.5 sec	115 Vac	N/A	N/A	Pass	Figures J-28 through J-31, calibration
K	50 mSec; followed by a normal voltage transient of 130 Vac for 16.667 mSec return to steady state voltage in 250 mSec	115 Vac	N/A	N/A	Pass	Figures J-32 through J-36, calibration
L	50 mSec; followed by a normal voltage transient of 70 Vac for 16.667 mSec return to steady state voltage in 107 mSec	115 Vac	N/A	N/A	Pass	Figures J-37 through J-41, calibration
A	50 mSec	115 Vac	Operating, 5A load	5	Pass	Figure J-42
B	50 mSec	105 Vac	Operating, 5A load	5	Pass	Figure J-43
C	50 mSec	125 Vac	Operating, 5A load	5	Pass	Figure J-44
D	30 mSec	115 Vac	Operating, 5A load	5	Pass	Figure J-45
E	30 mSec	105 Vac	Operating, 5A load	5	Pass	Figure J-46
F	30 mSec	125 Vac	Operating, 5A load	5	Pass	Figure J-47
G	10 mSec	115 Vac	Operating, 5A load	5	Pass	Figure J-48



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

Power Input AC, SXF201 Power Interrupt Test results						
Test condition	Duration of interrupt	Nominal voltage	EUT mode	Repetitions	Result	Notes
H	10 mSec	105 Vac	Operating, 5A load	5	Pass	Figure J-49
I	10 mSec	125 Vac	Operating, 5A load	5	Pass	Figure J-50
J	50 mSec, 3 times, separated by 0.5 sec	115 Vac	Operating, 5A load	5	Pass	Figure J-51
K	50 mSec; followed by a normal voltage transient of 130 Vac for 16.667 mSec return to steady state voltage in 250 mSec	115 Vac	Operating, 5A load	5	Pass	Figure J-52
L	50 mSec; followed by a normal voltage transient of 70 Vac for 16.667 mSec return to steady state voltage in 107 mSec	115 Vac	Operating, 5A load	5	Pass	Figure J-53

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet
Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



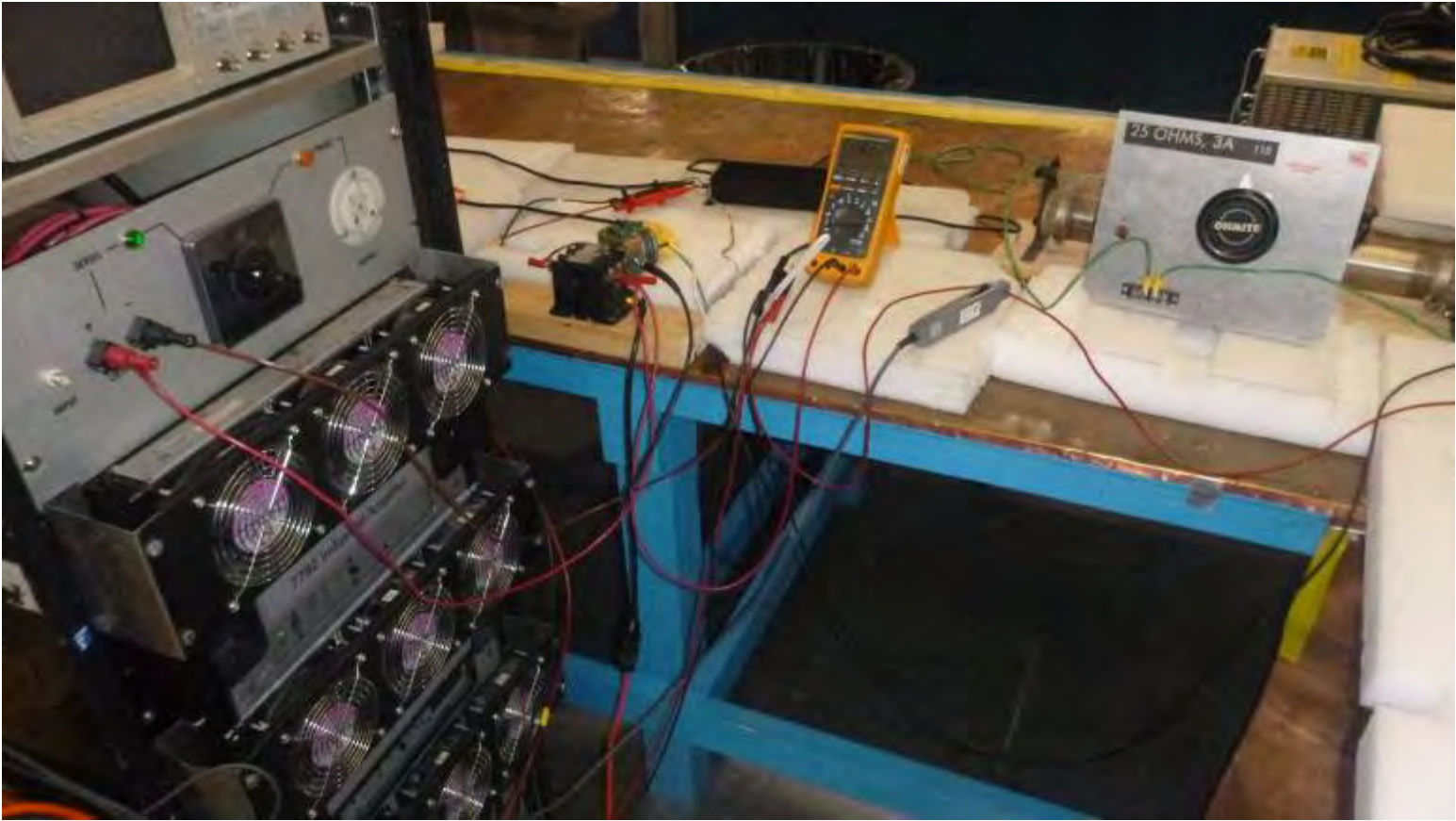
Photograph J-1: EUT identification



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph J-2: Test setup



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

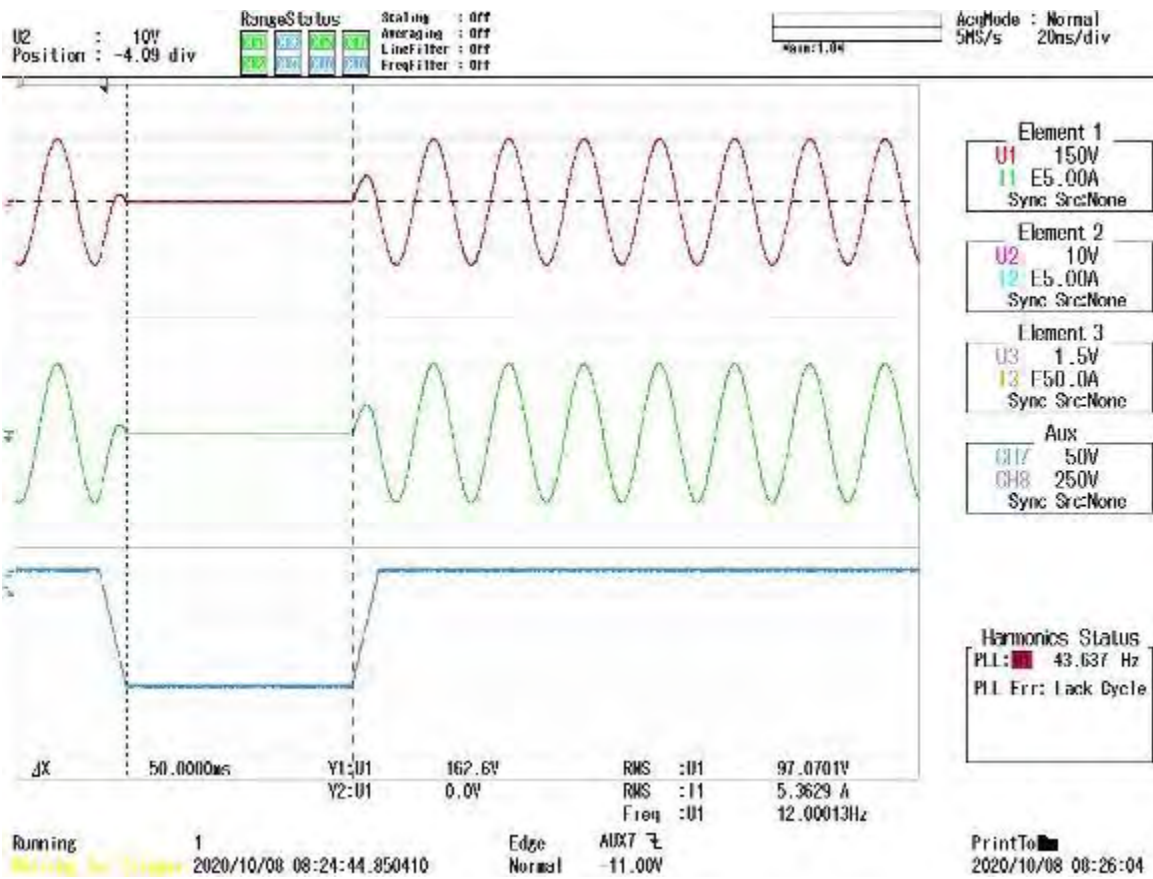


Figure J-1: Condition A, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	6 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

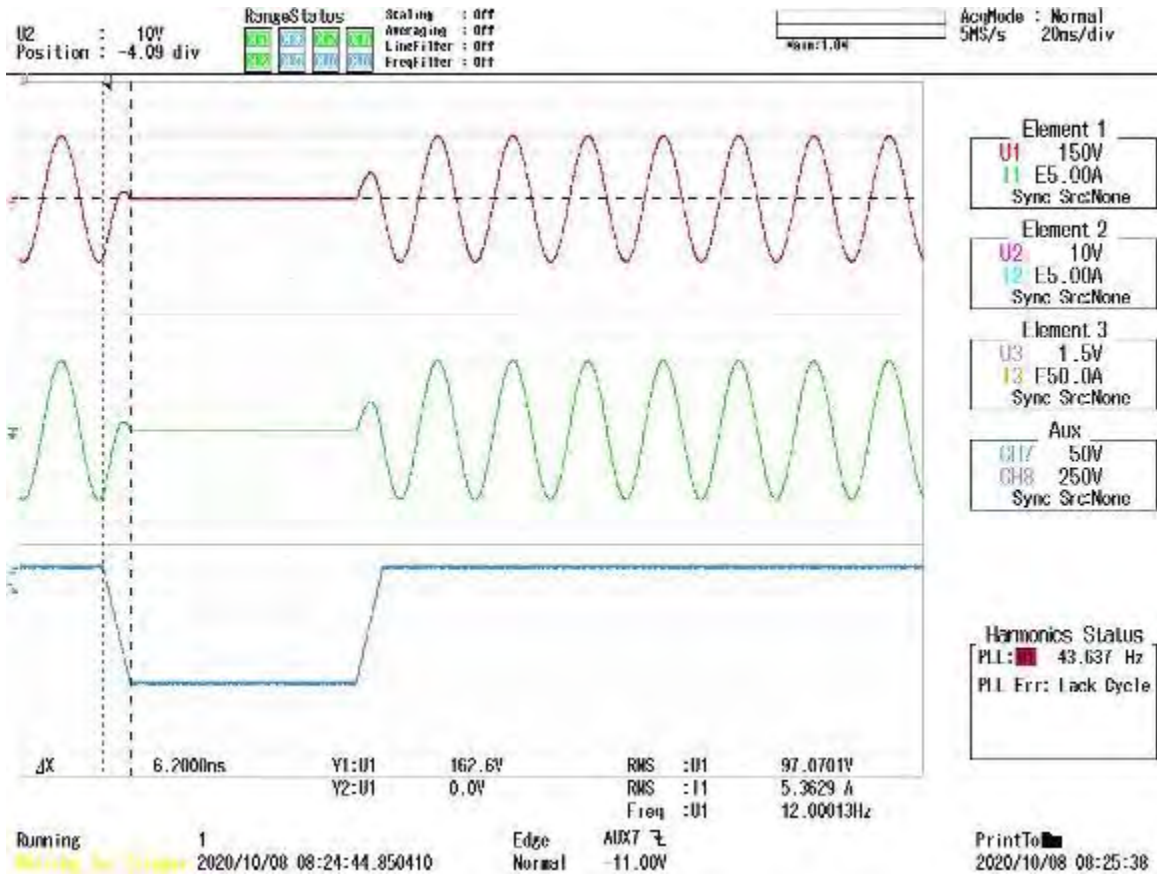


Figure J-2: Condition A, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	7 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

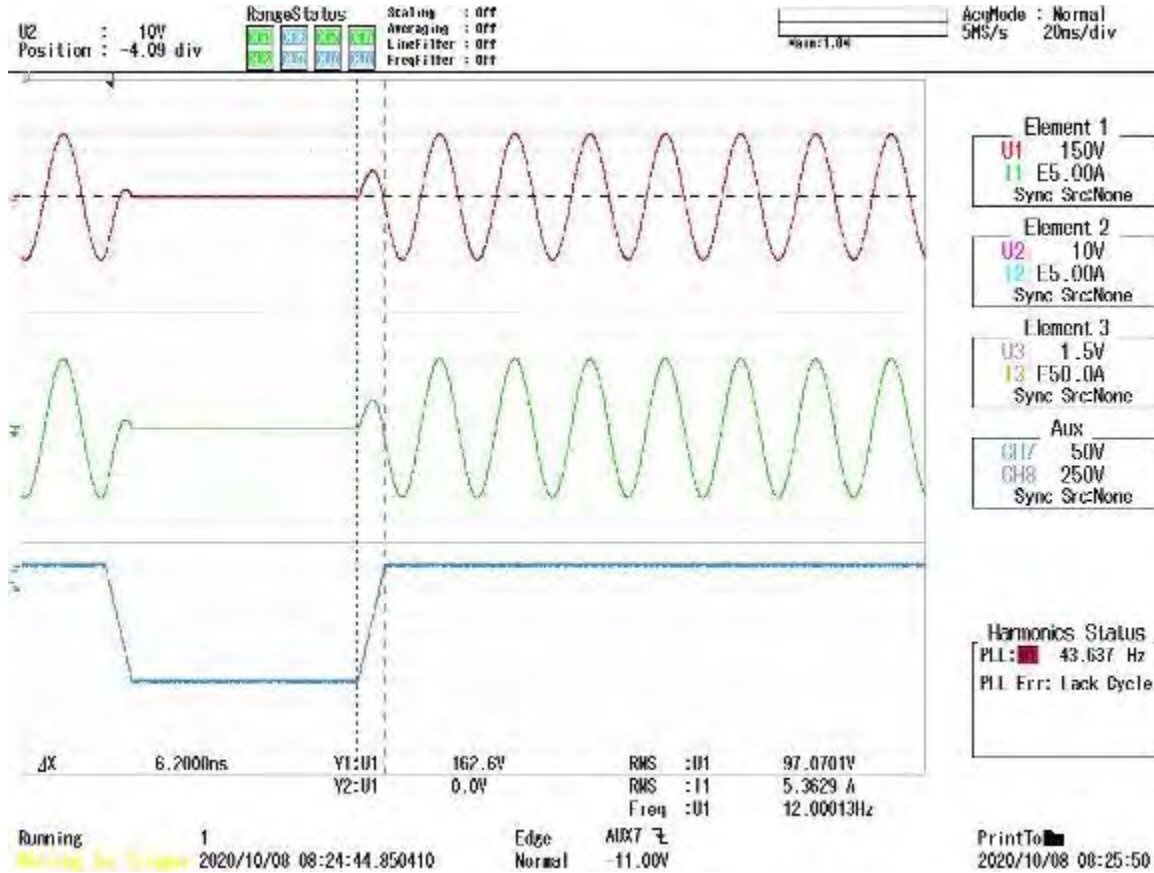


Figure J-3: Condition A, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF201 Power Interrupt**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	8 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

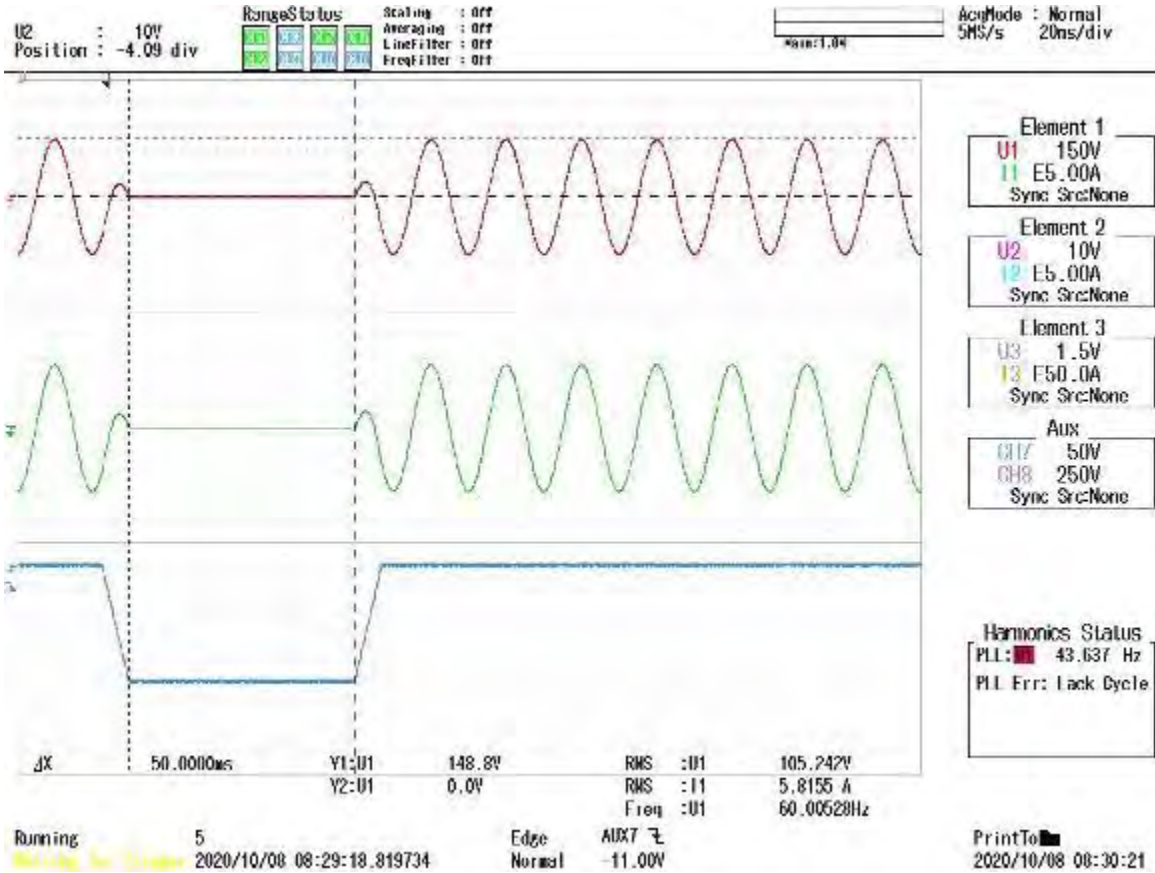


Figure J-4: Condition B, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	9 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

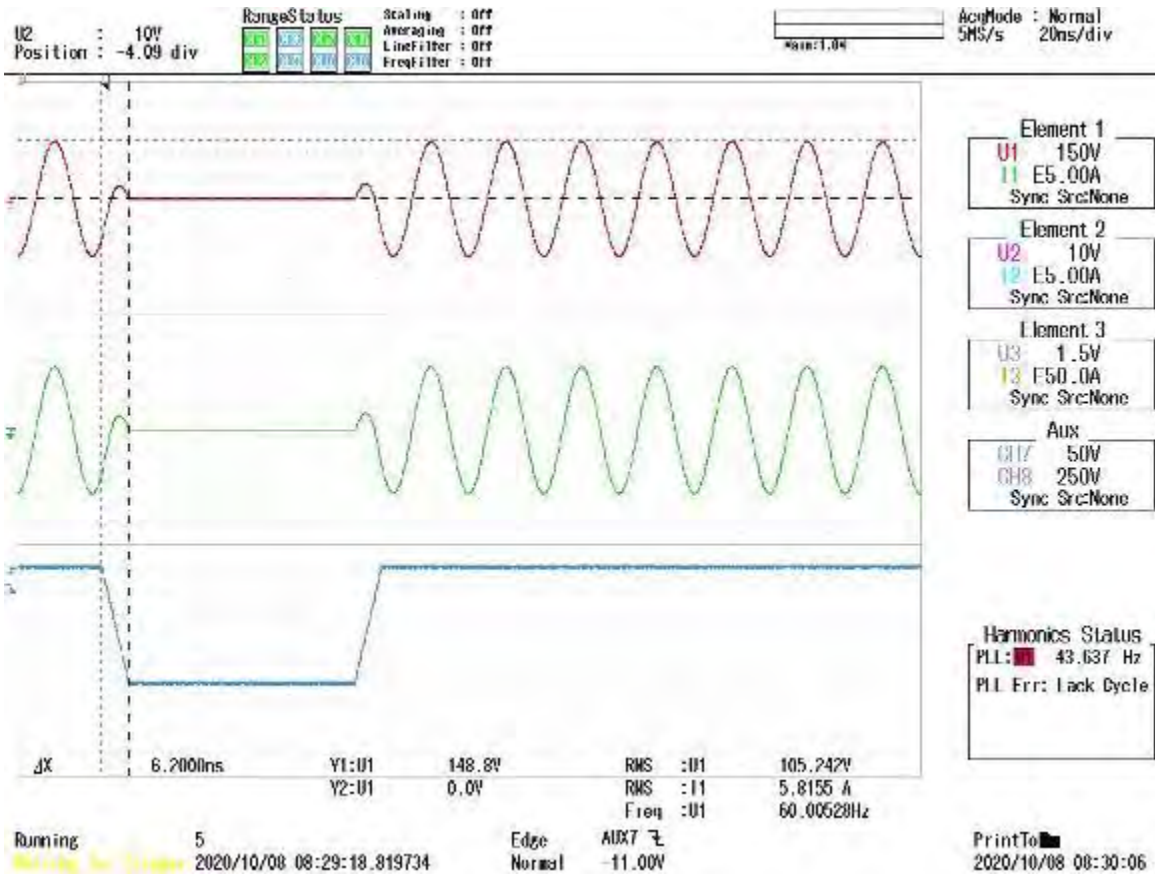


Figure J-5: Condition B, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF201 Power Interrupt**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	10 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

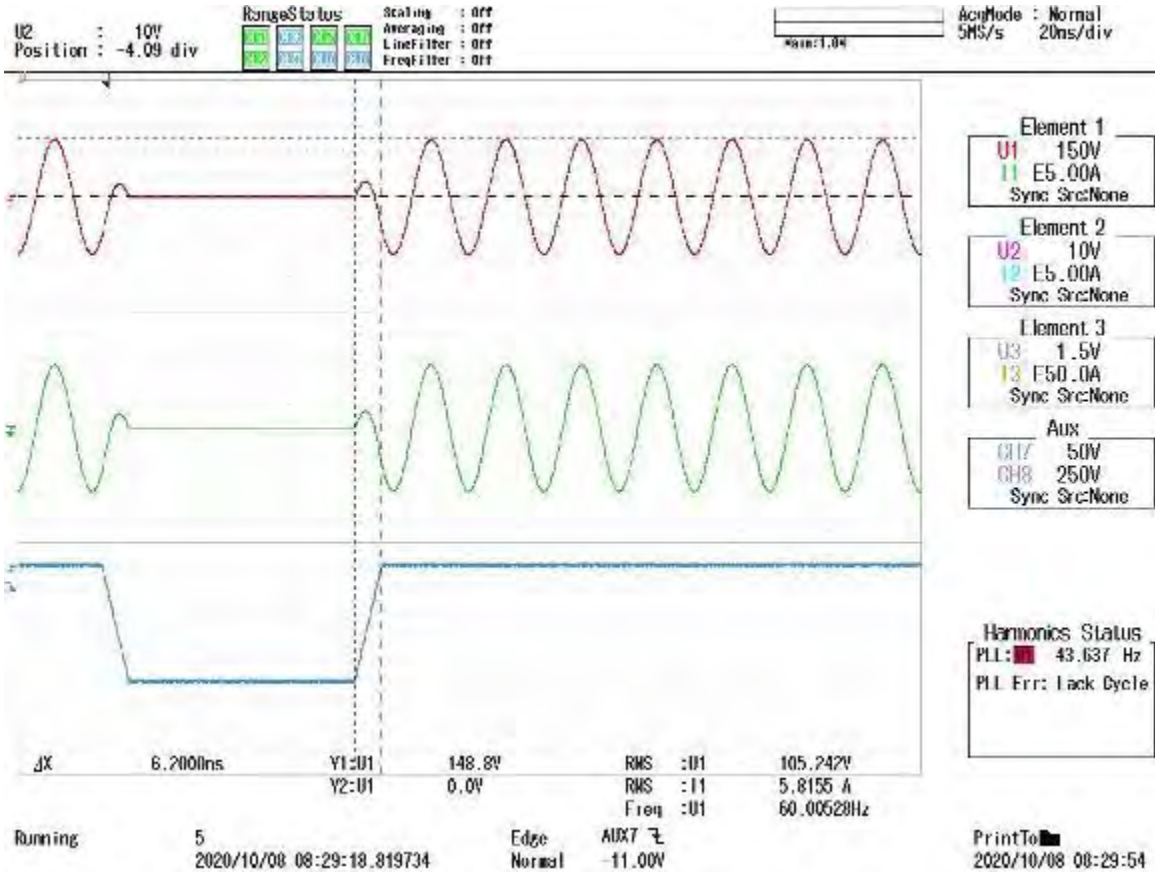


Figure J-6: Condition B, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	11 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

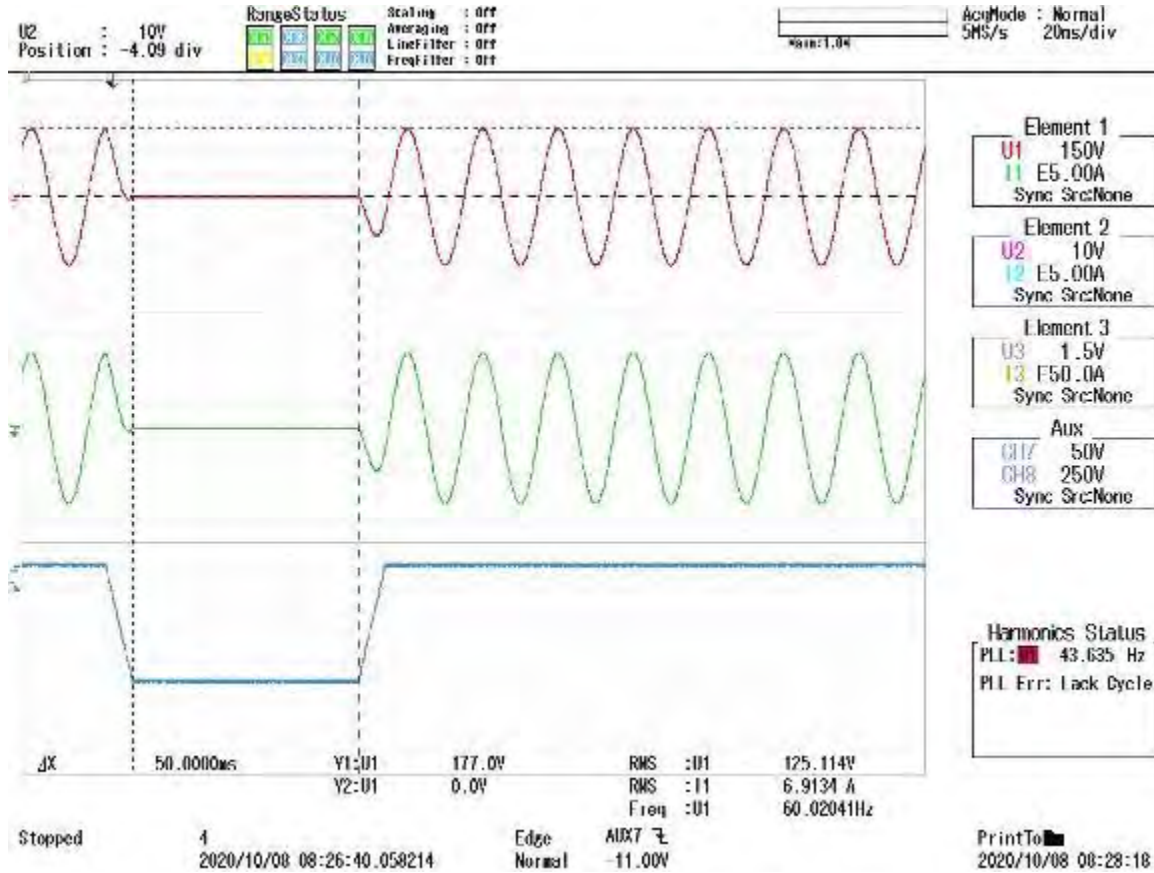


Figure J-7: Condition C, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	12 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

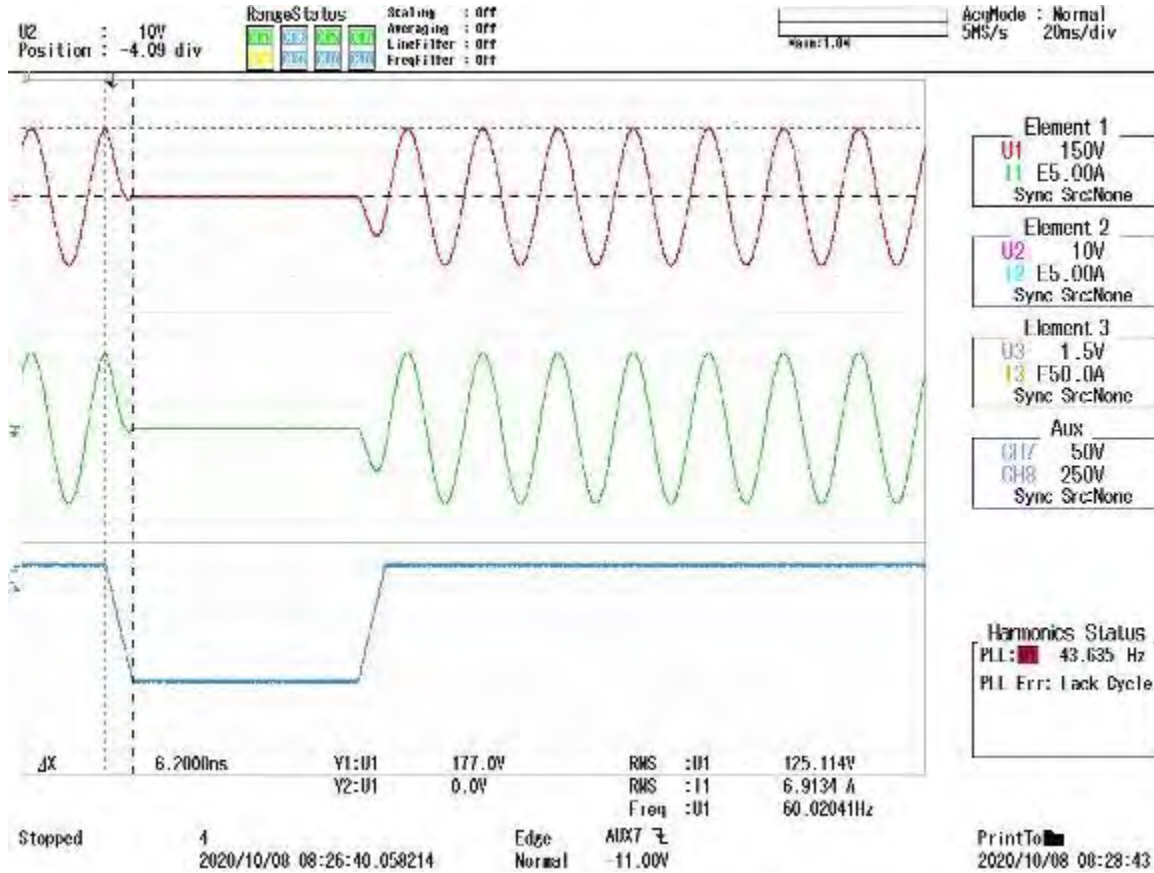


Figure J-8: Condition C, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	13 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

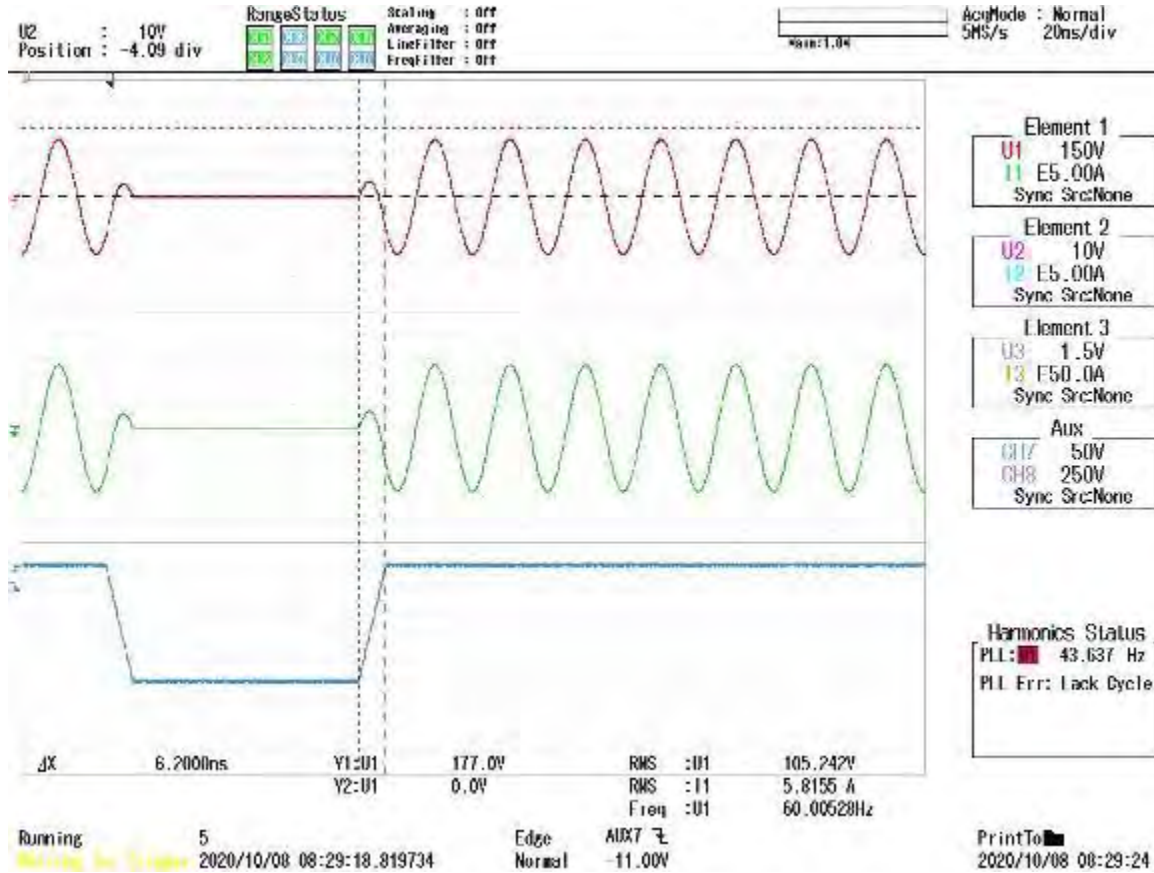


Figure J-9: Condition C, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	14 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

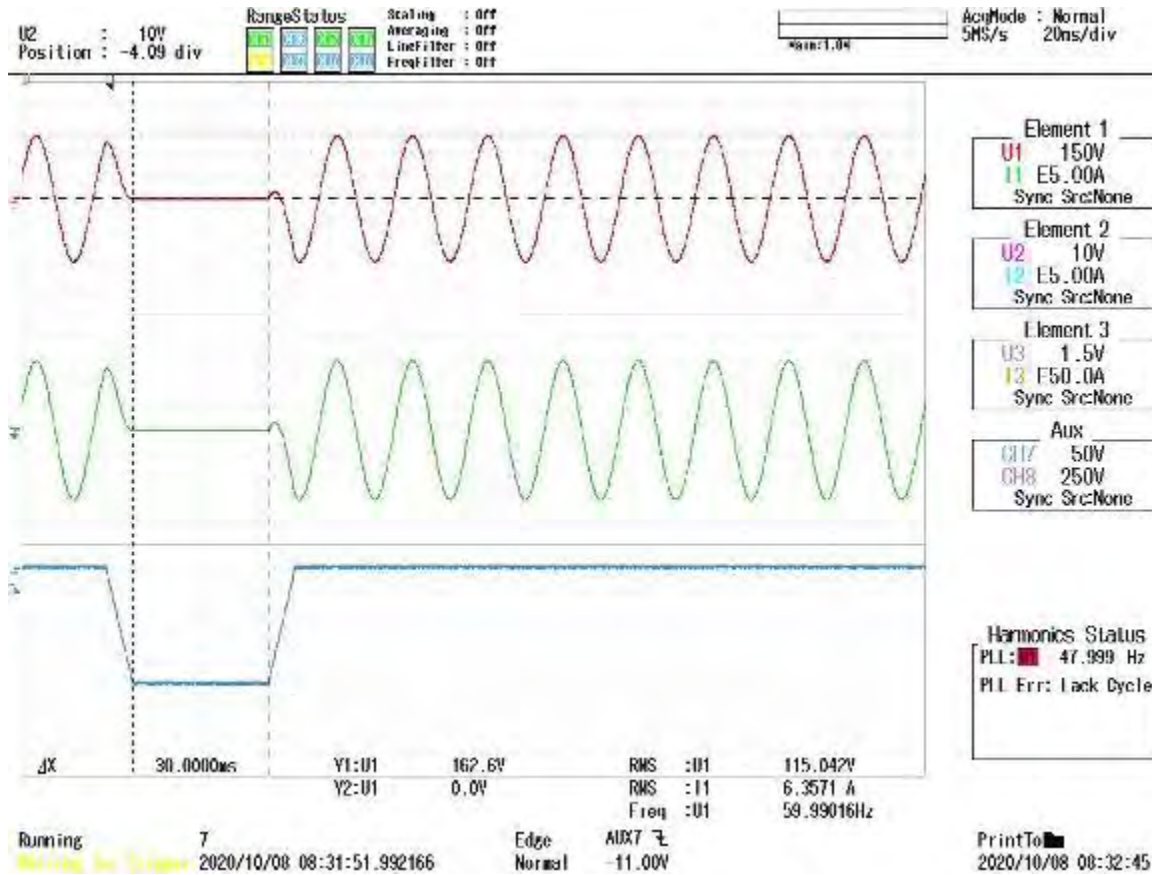


Figure J-10: Condition D, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	15 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

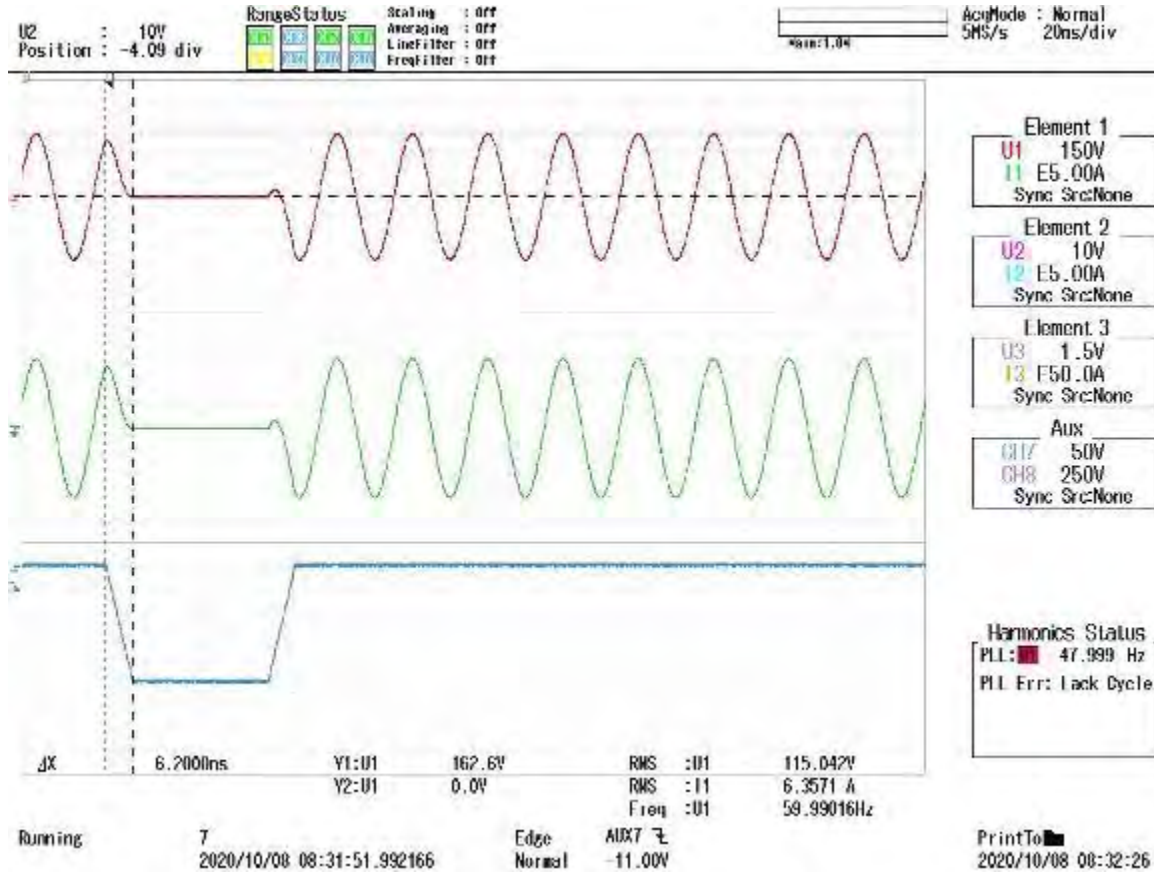


Figure J-11: Condition D, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	16 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

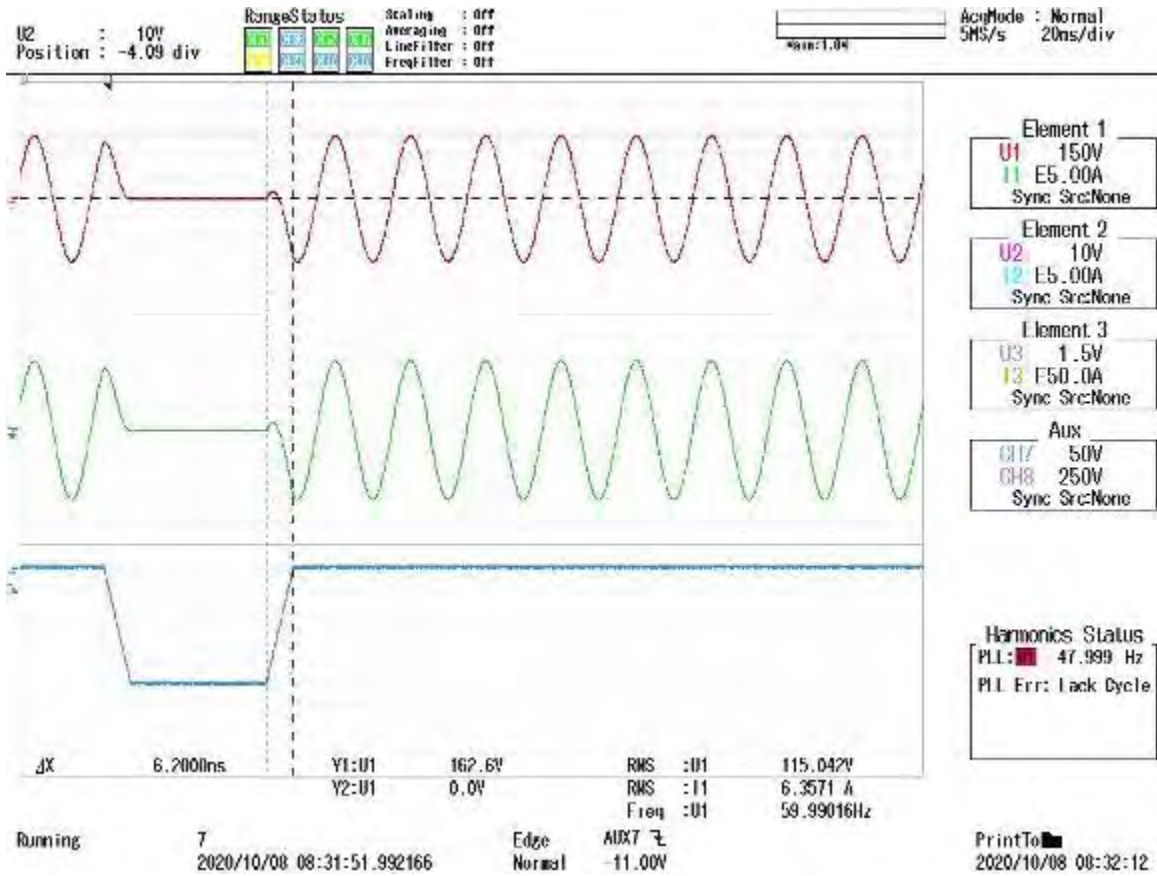


Figure J-12: Condition D, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	17 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

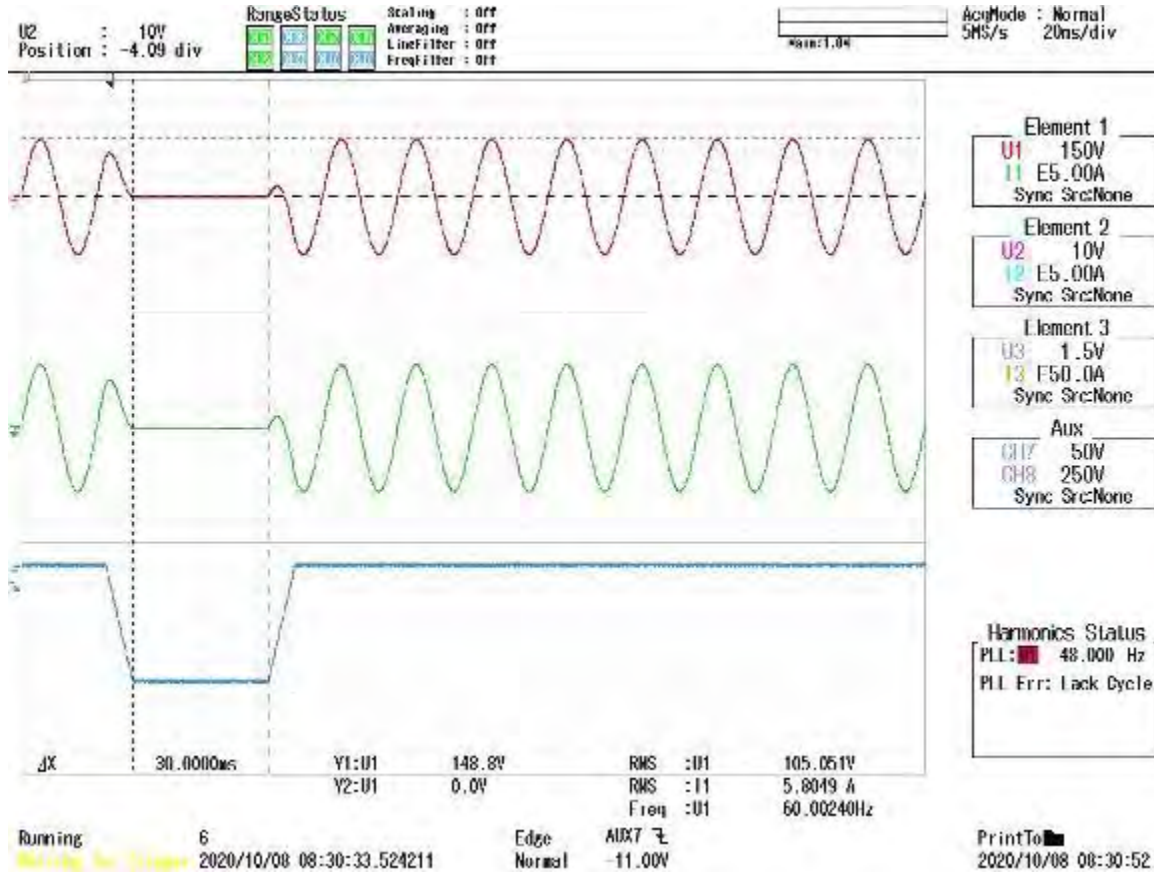


Figure J-13: Condition E, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	18 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

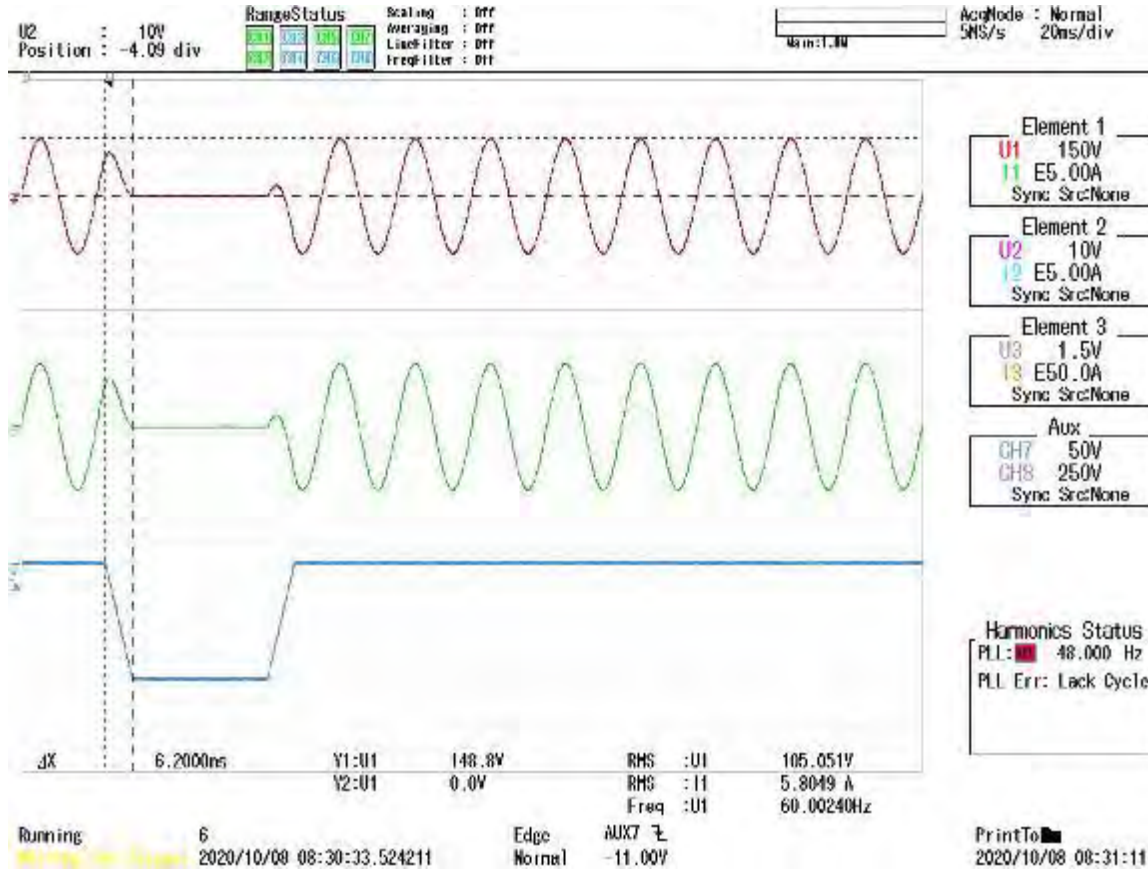


Figure J-14: Condition E, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	19 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

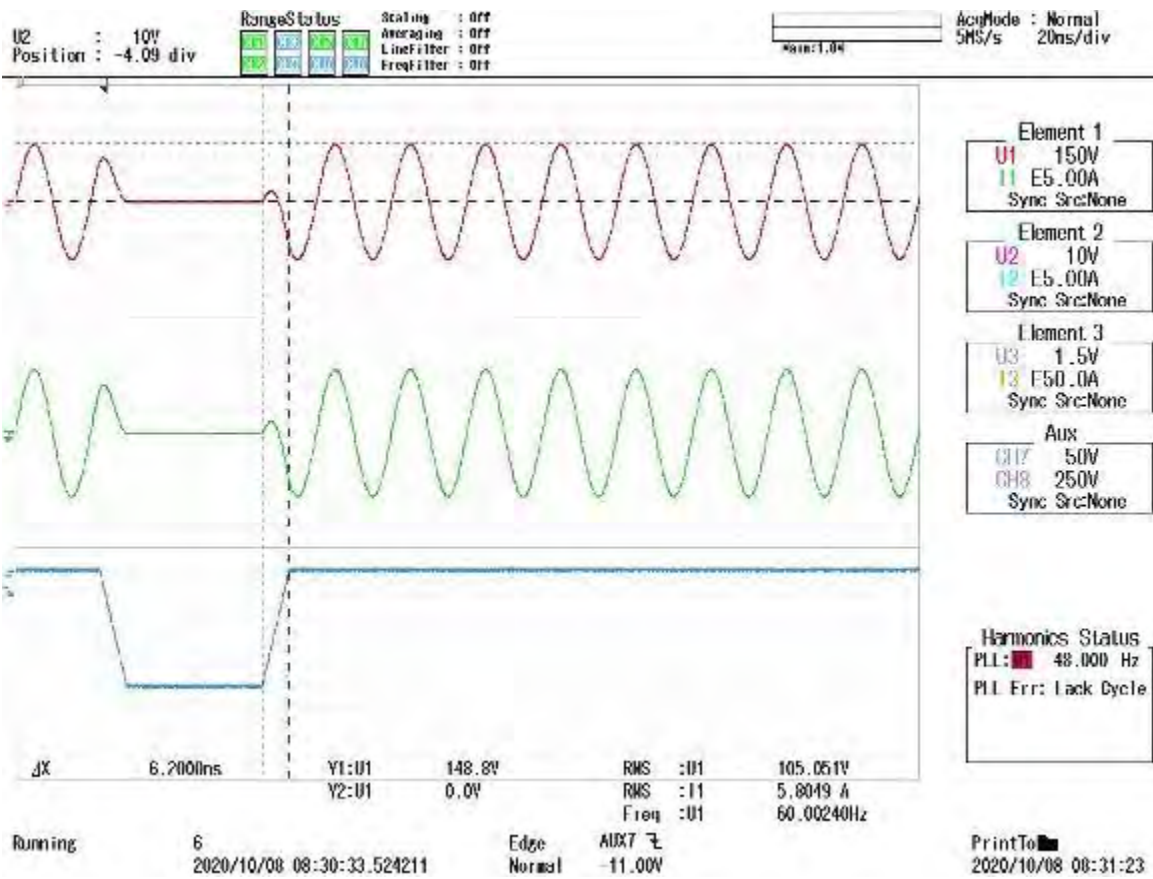


Figure J-15: Condition E, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	20 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

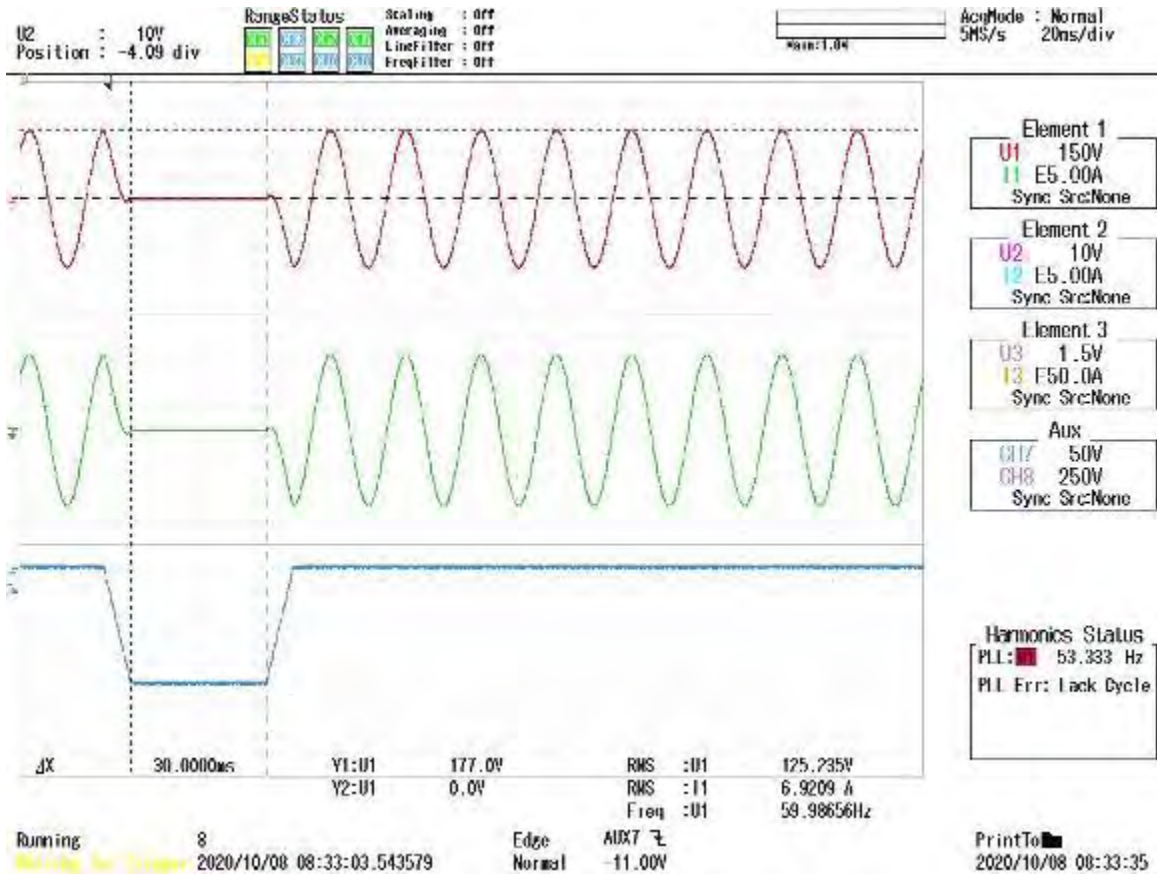


Figure J-16: Condition F, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	21 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

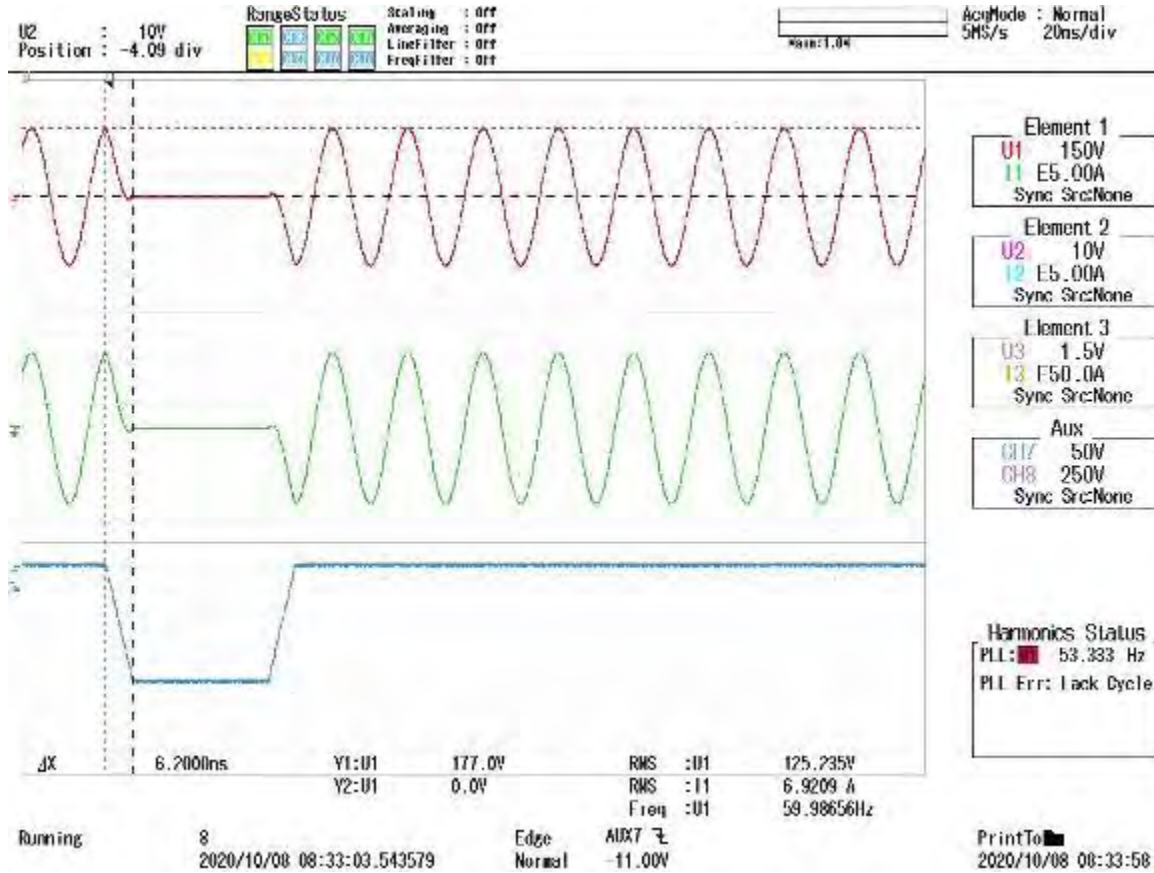


Figure J-17: Condition F, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	22 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

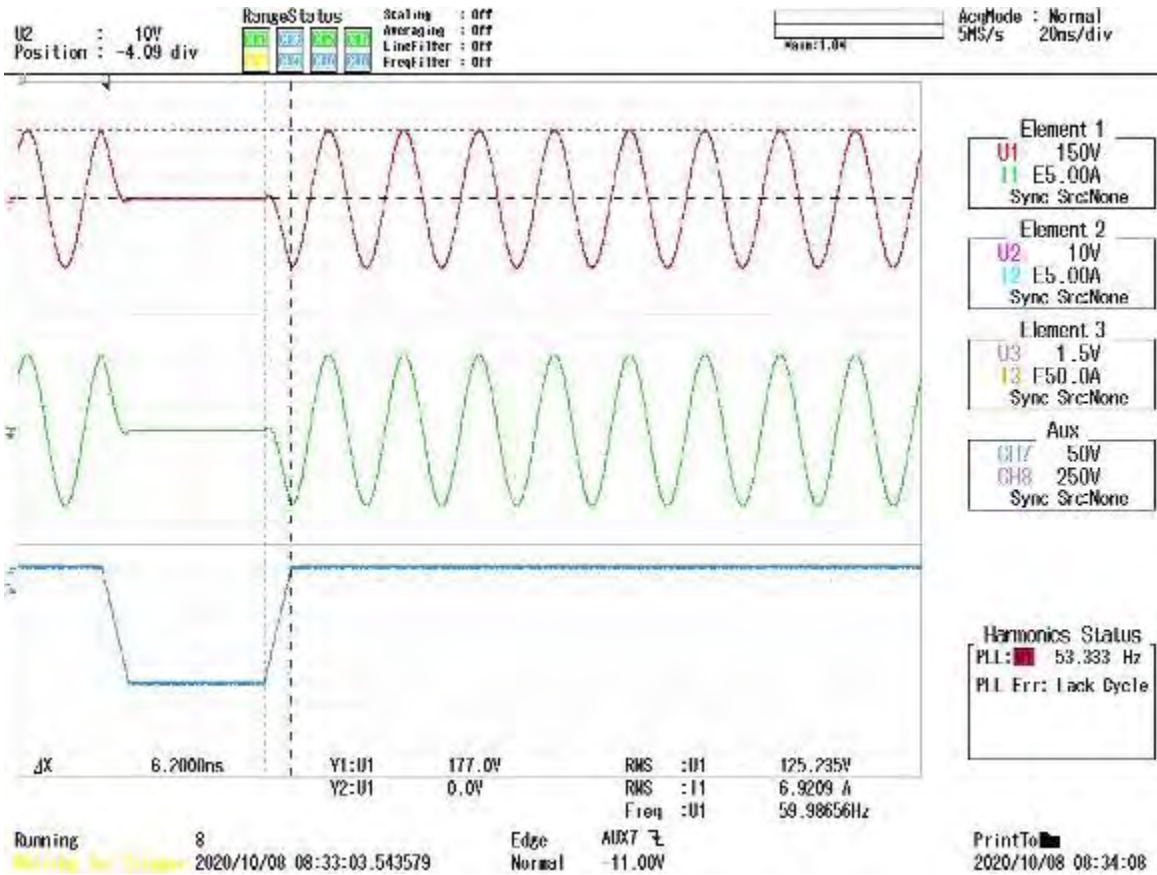


Figure J-18: Condition F, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	23 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

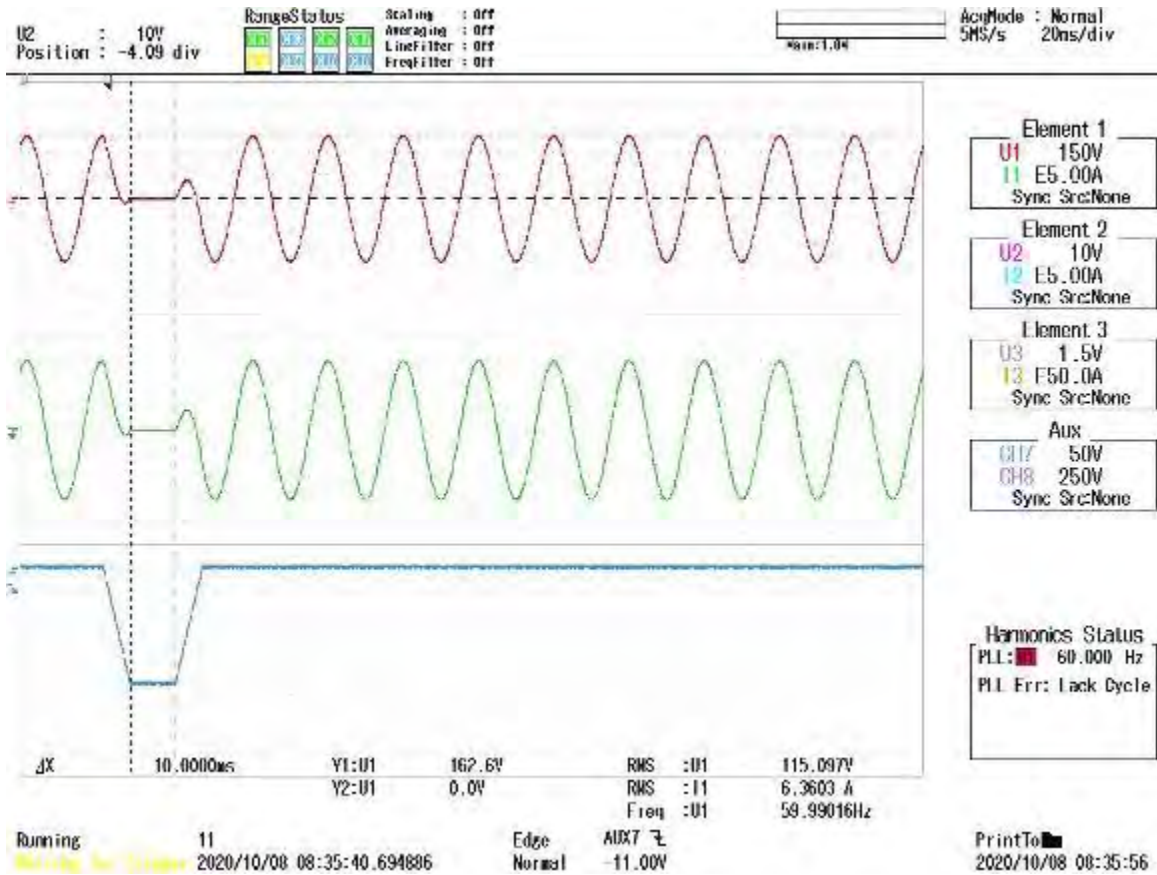


Figure J-19: Condition G, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	24 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

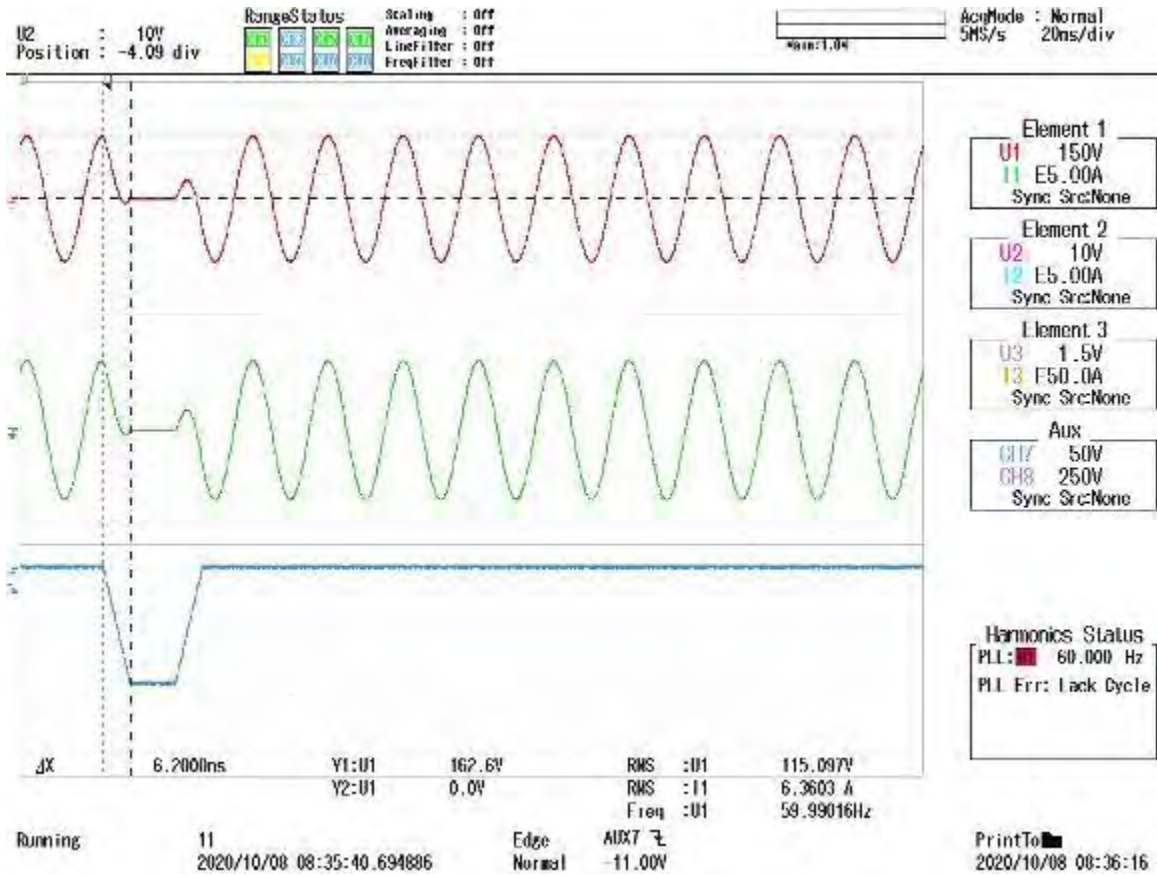


Figure J-20: Condition G, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF201 Power Interrupt**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	25 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

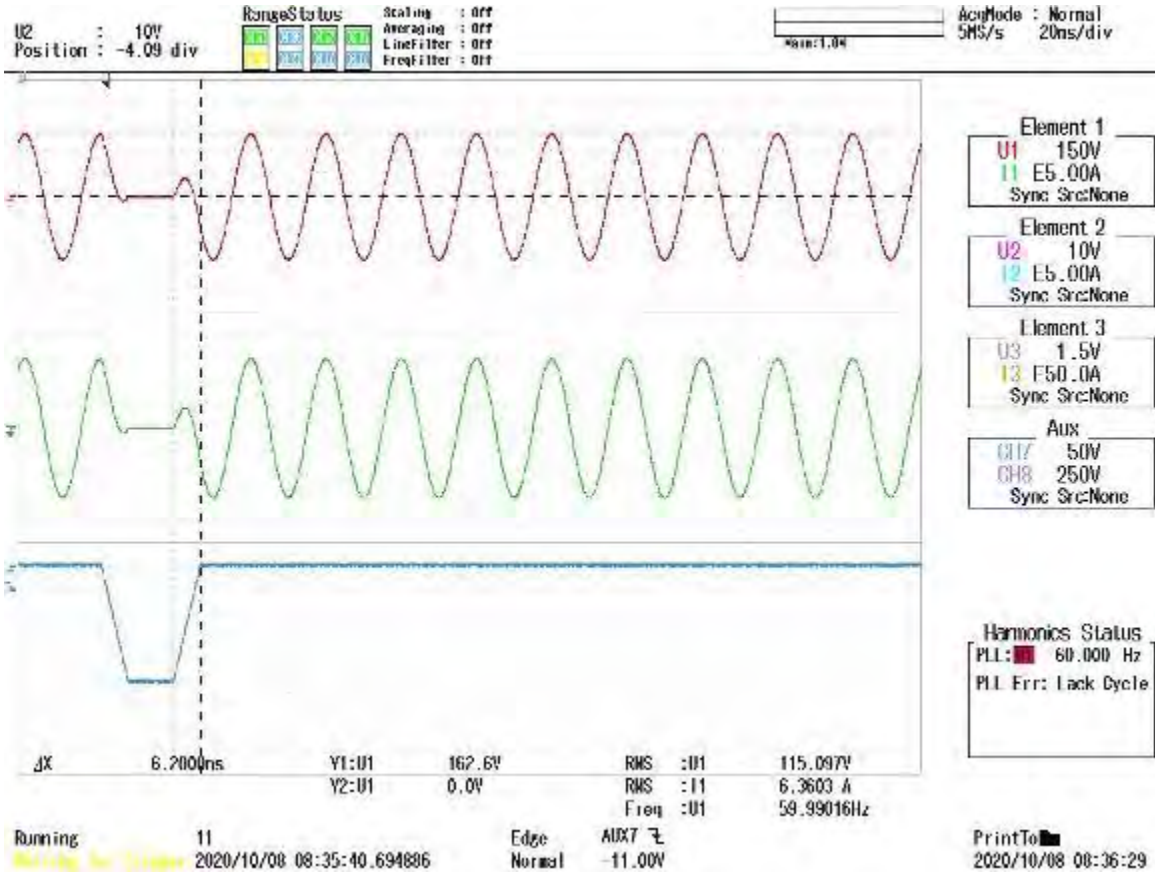


Figure J-21: Condition G, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF201 Power Interrupt**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	26 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

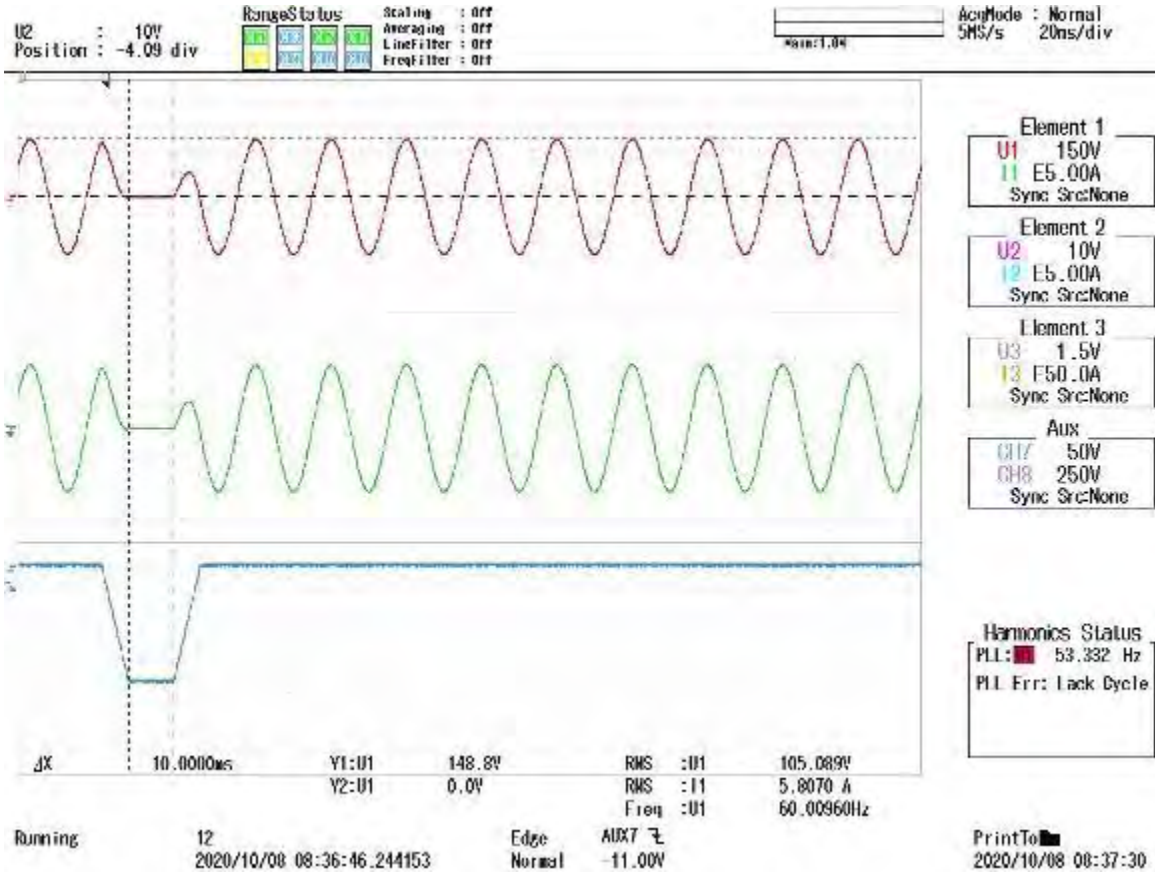


Figure J-22: Condition H, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	27 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

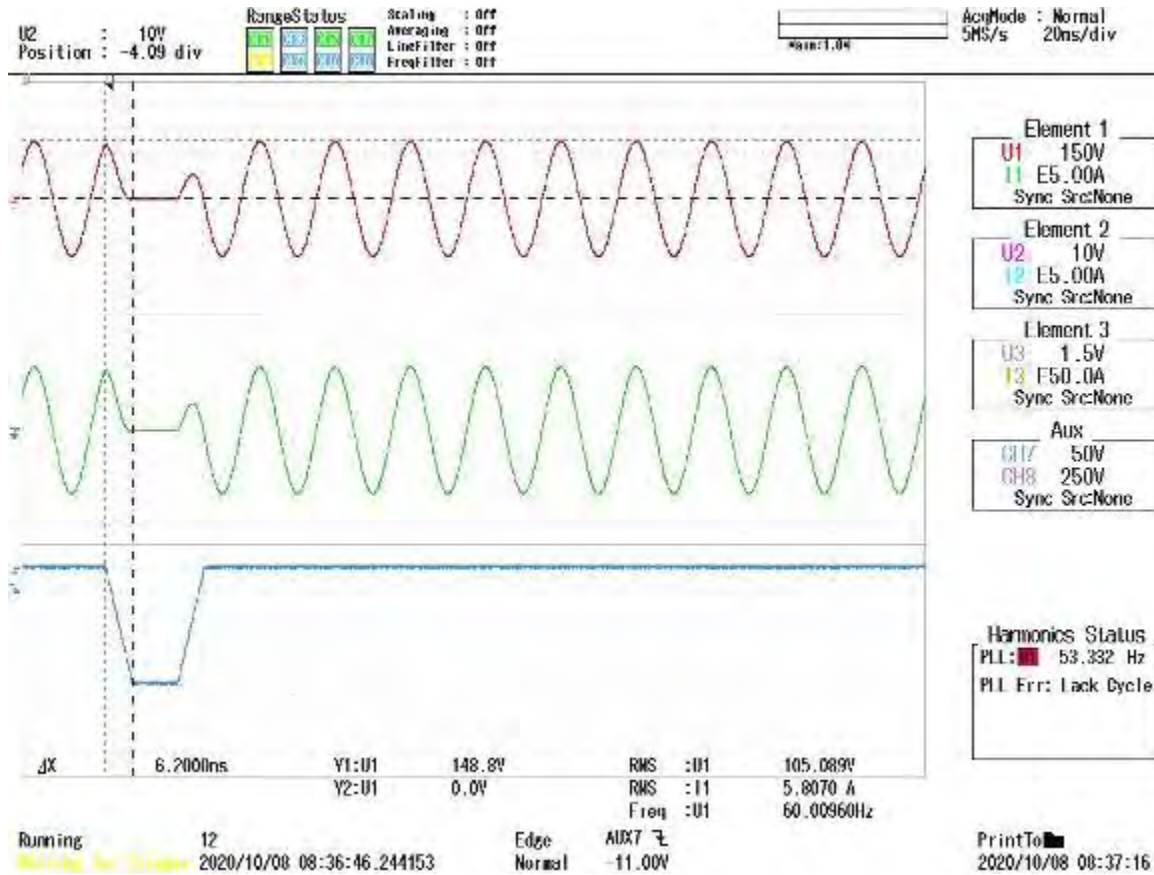


Figure J-23: Condition H, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	28 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

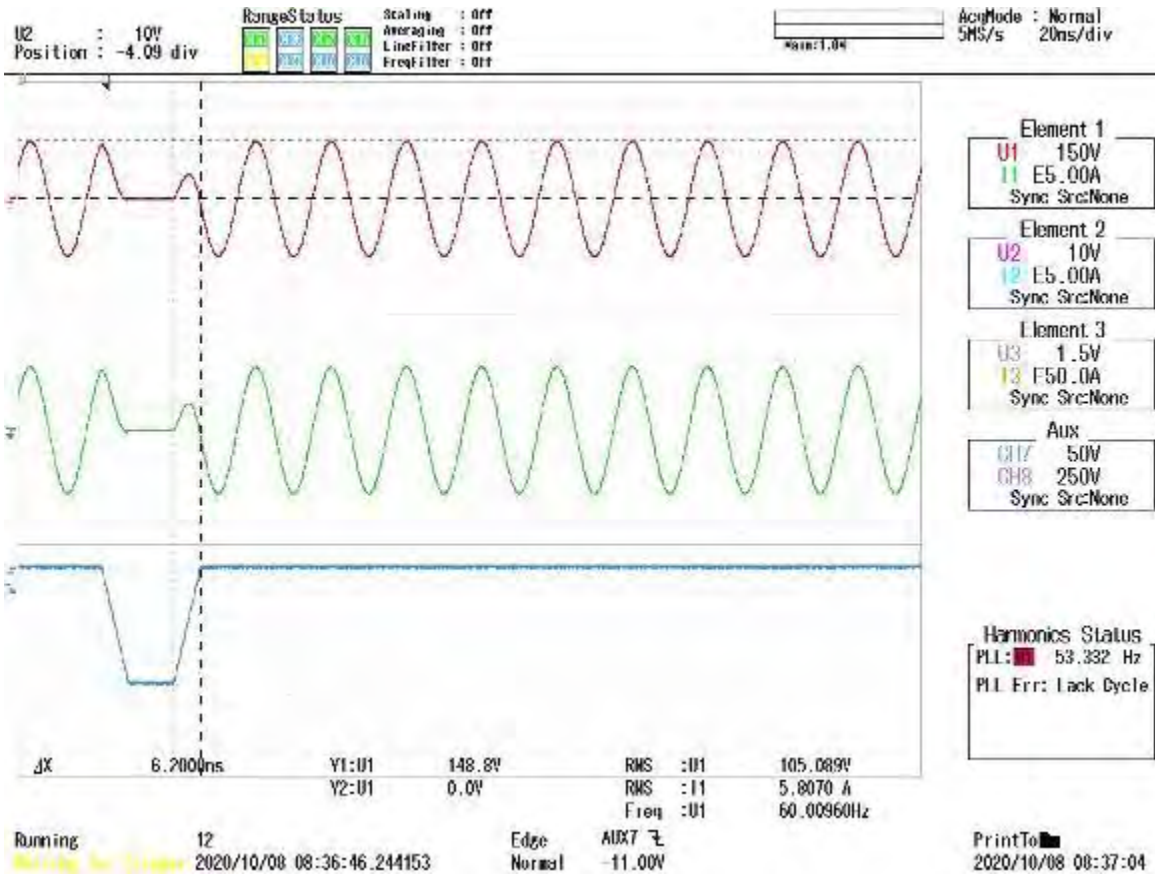


Figure J-24: Condition H, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	29 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

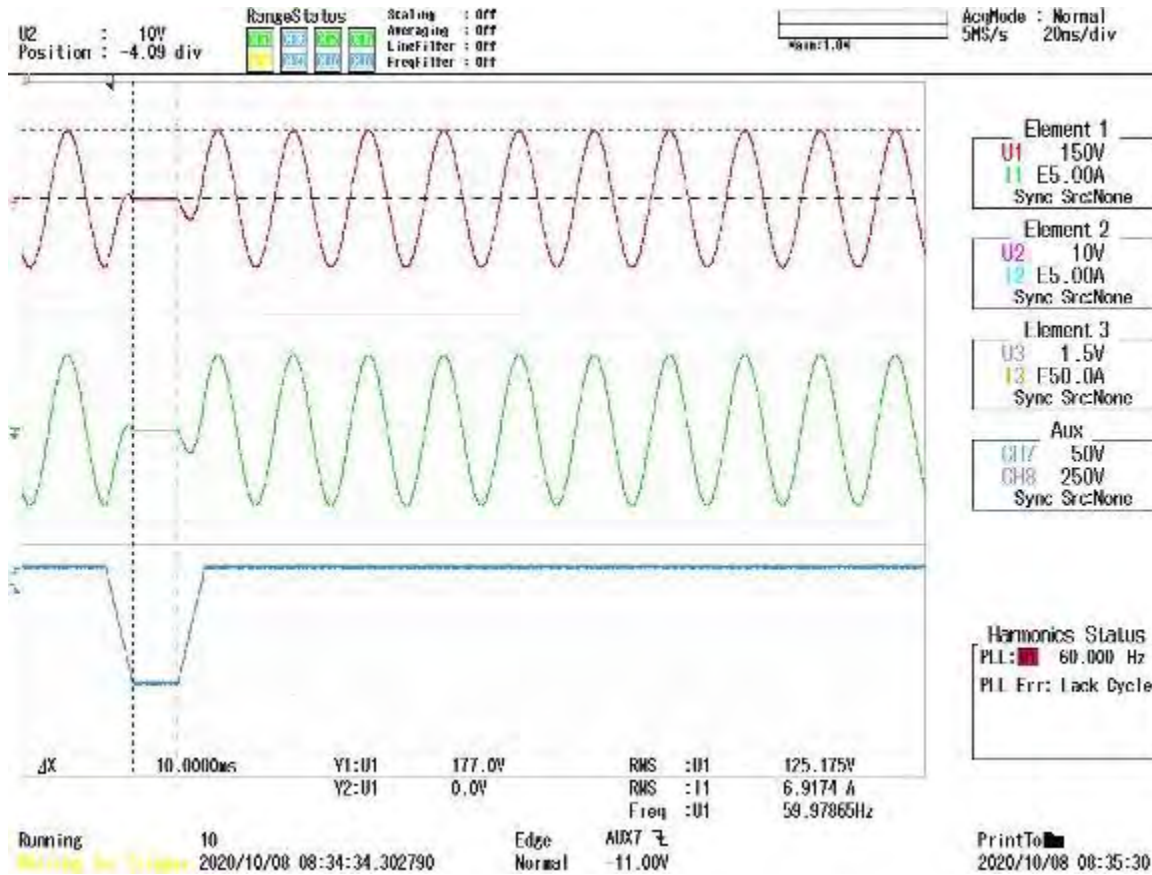


Figure J-25: Condition I, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	30 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

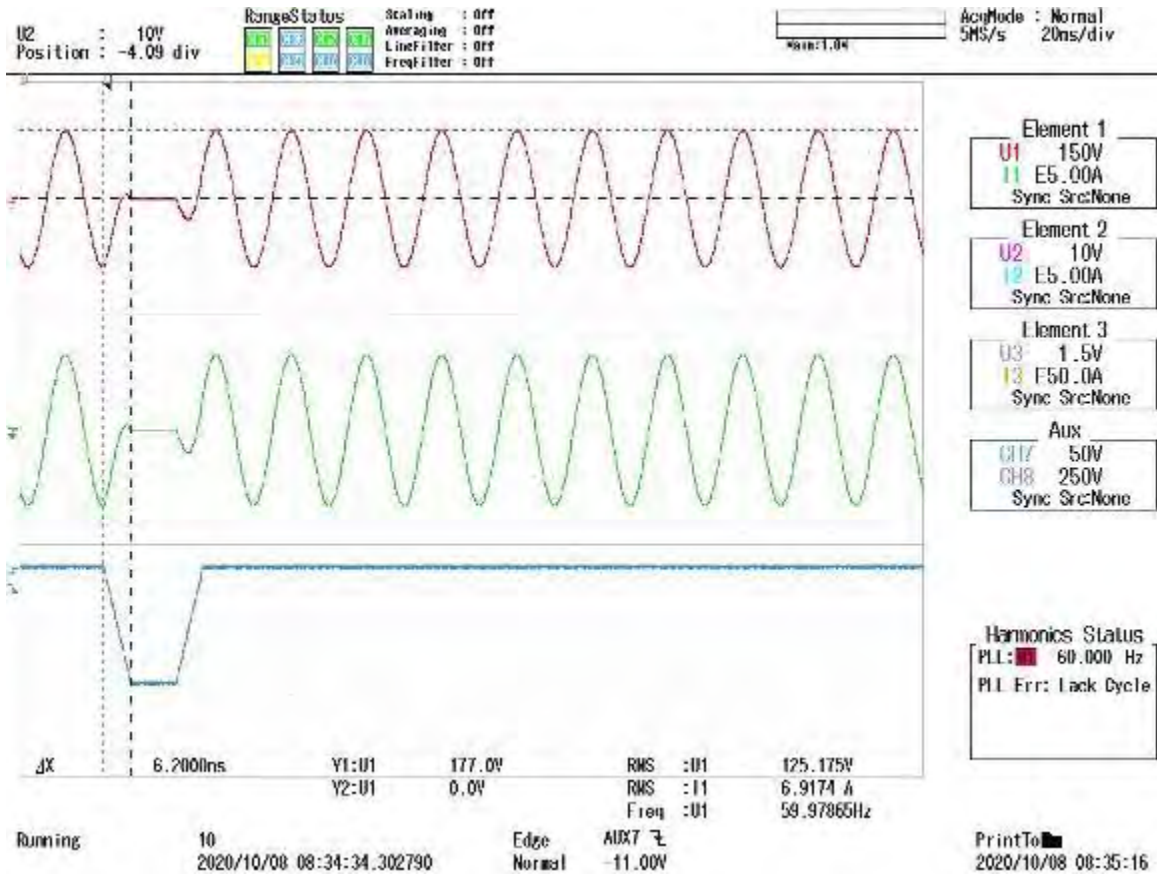


Figure J-26: Condition I, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	31 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

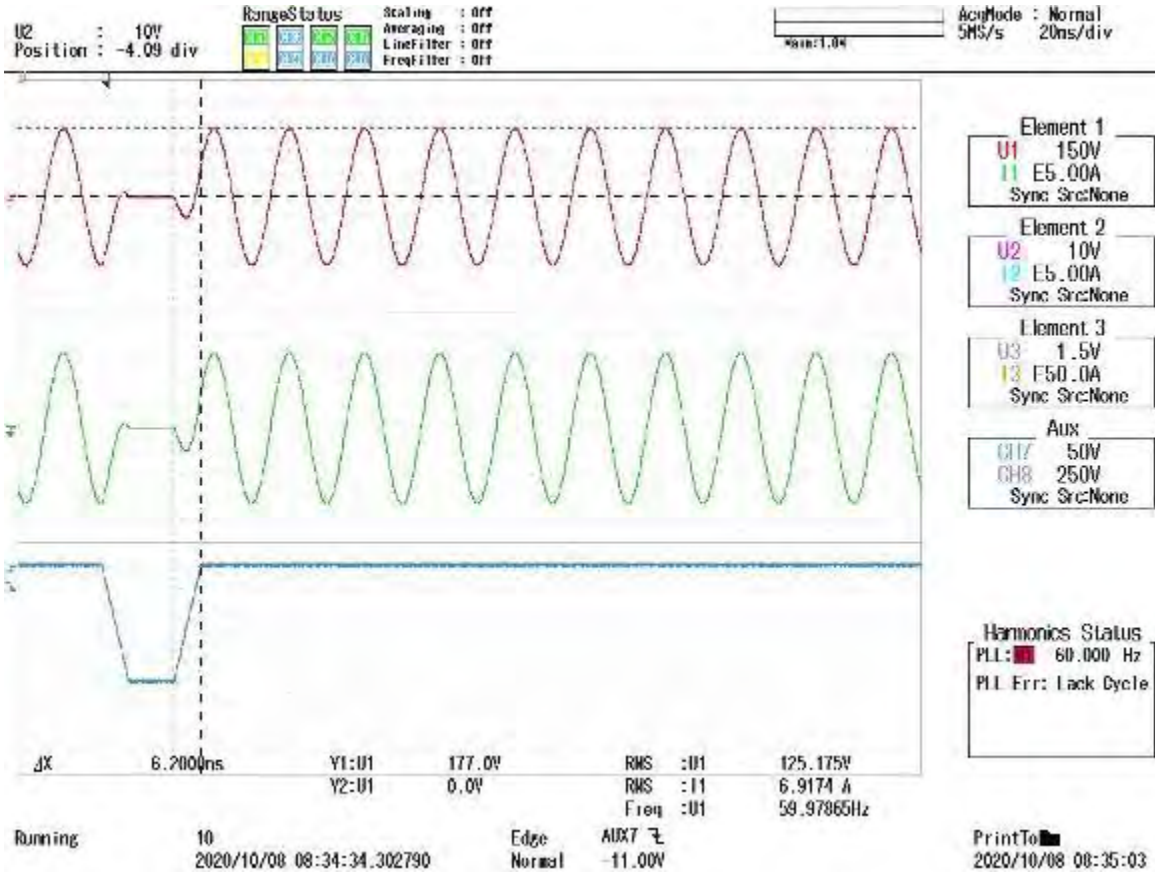


Figure J-27: Condition I, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	32 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

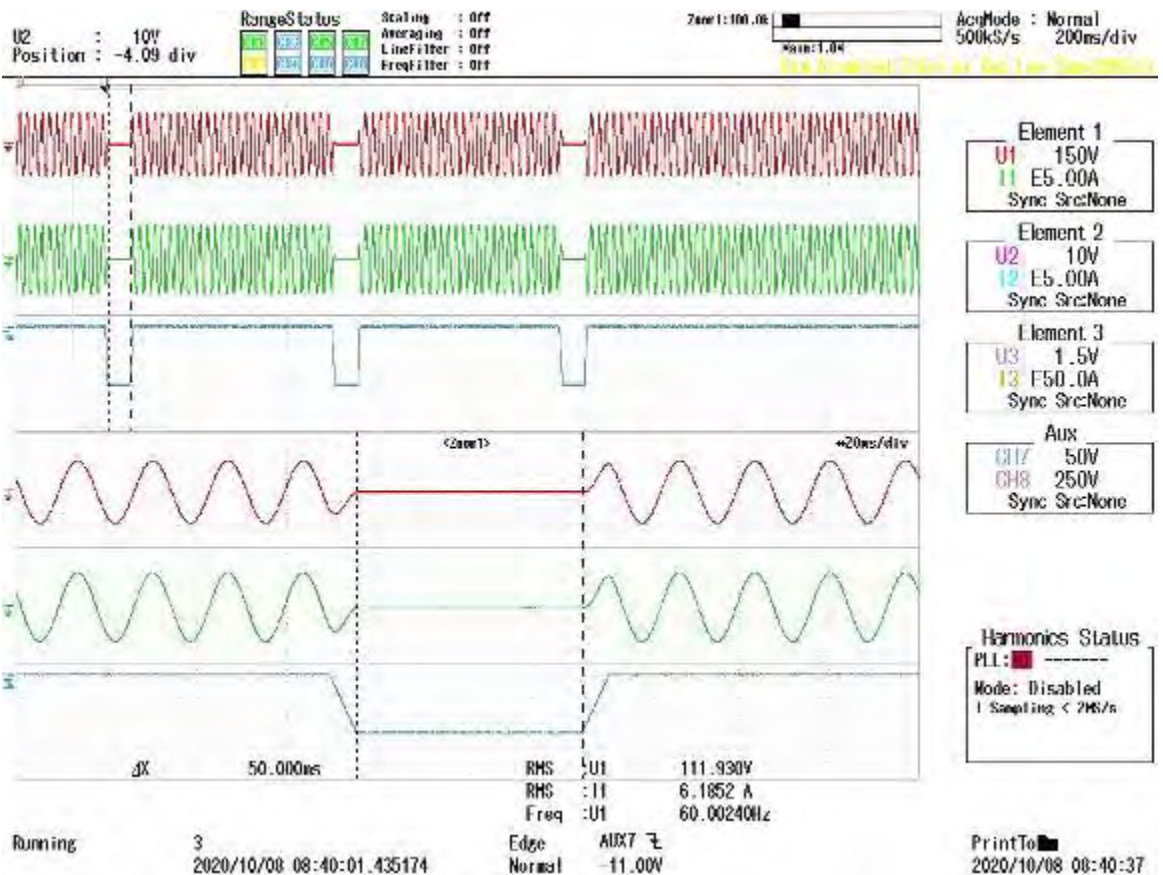


Figure J-28: Condition J, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	33 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

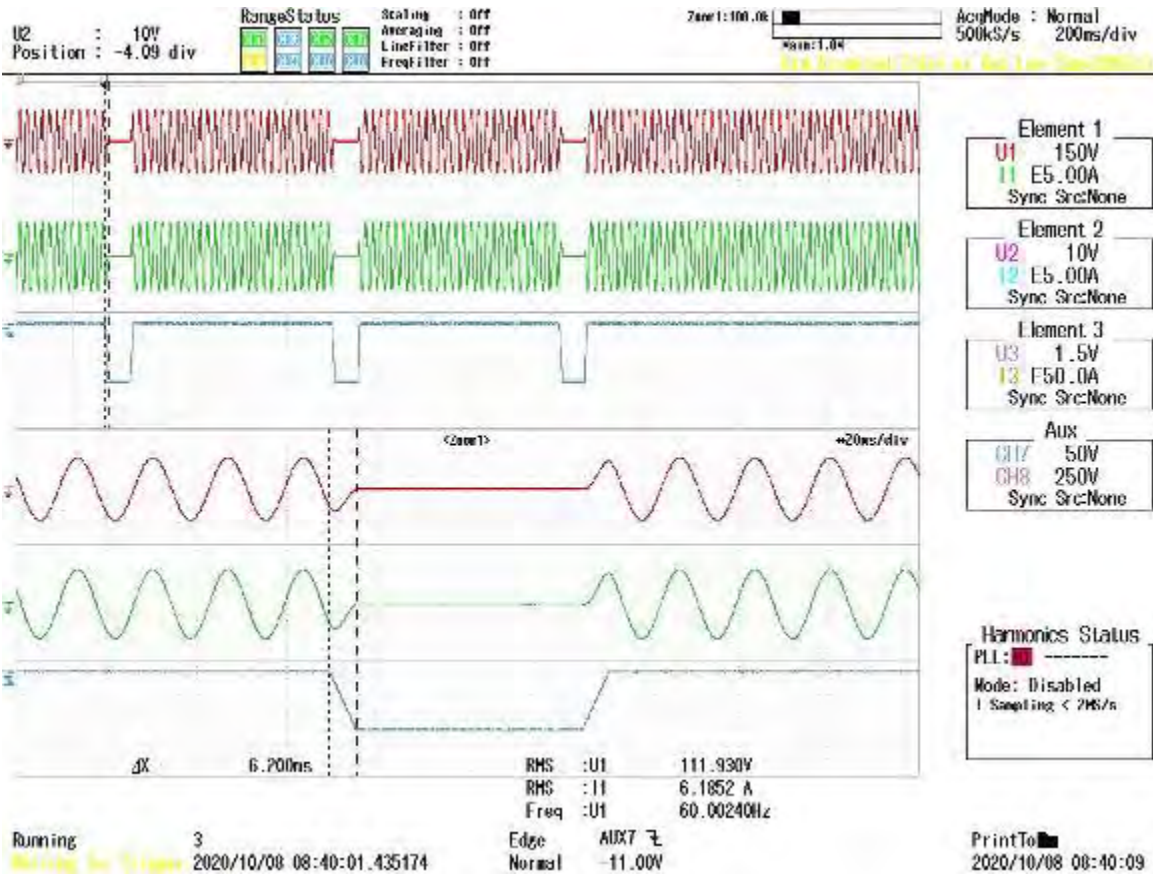


Figure J-29: Condition J, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	34 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

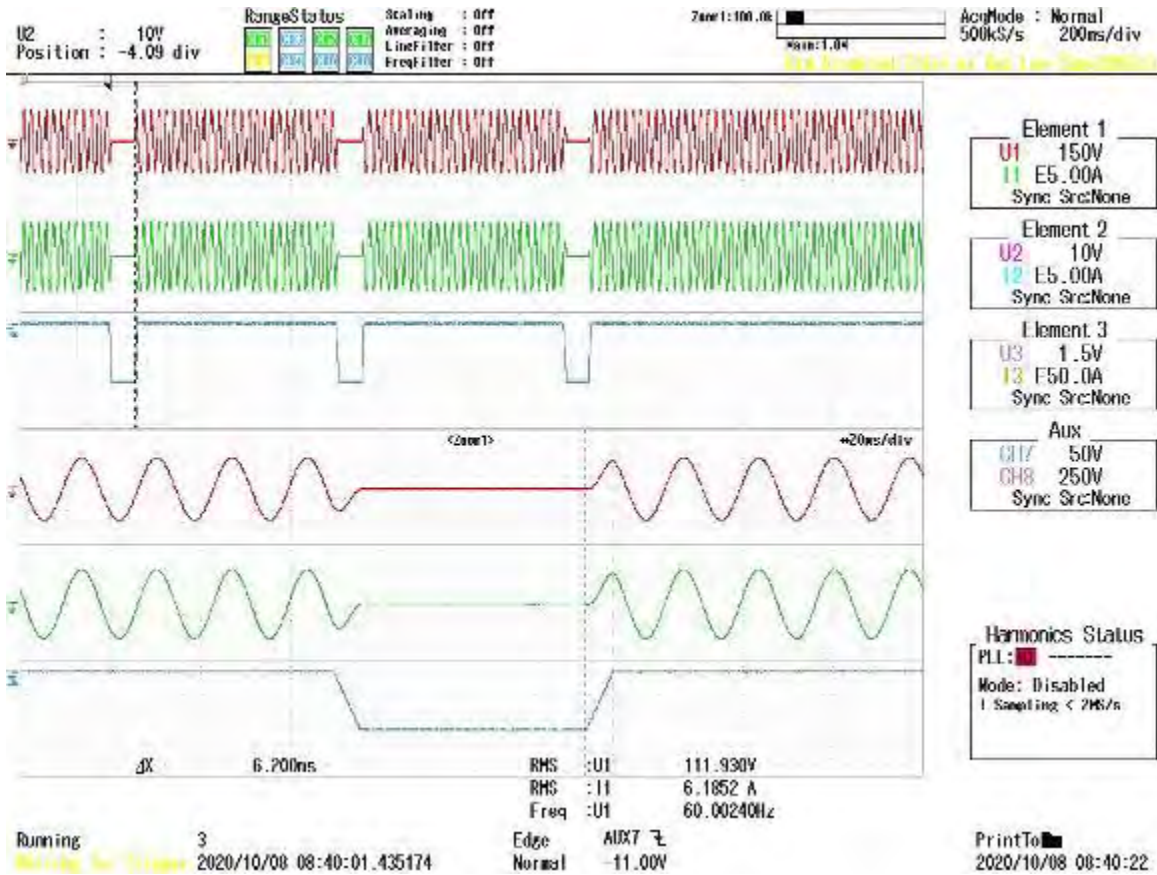


Figure J-30: Condition J, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF201 Power Interrupt**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	35 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

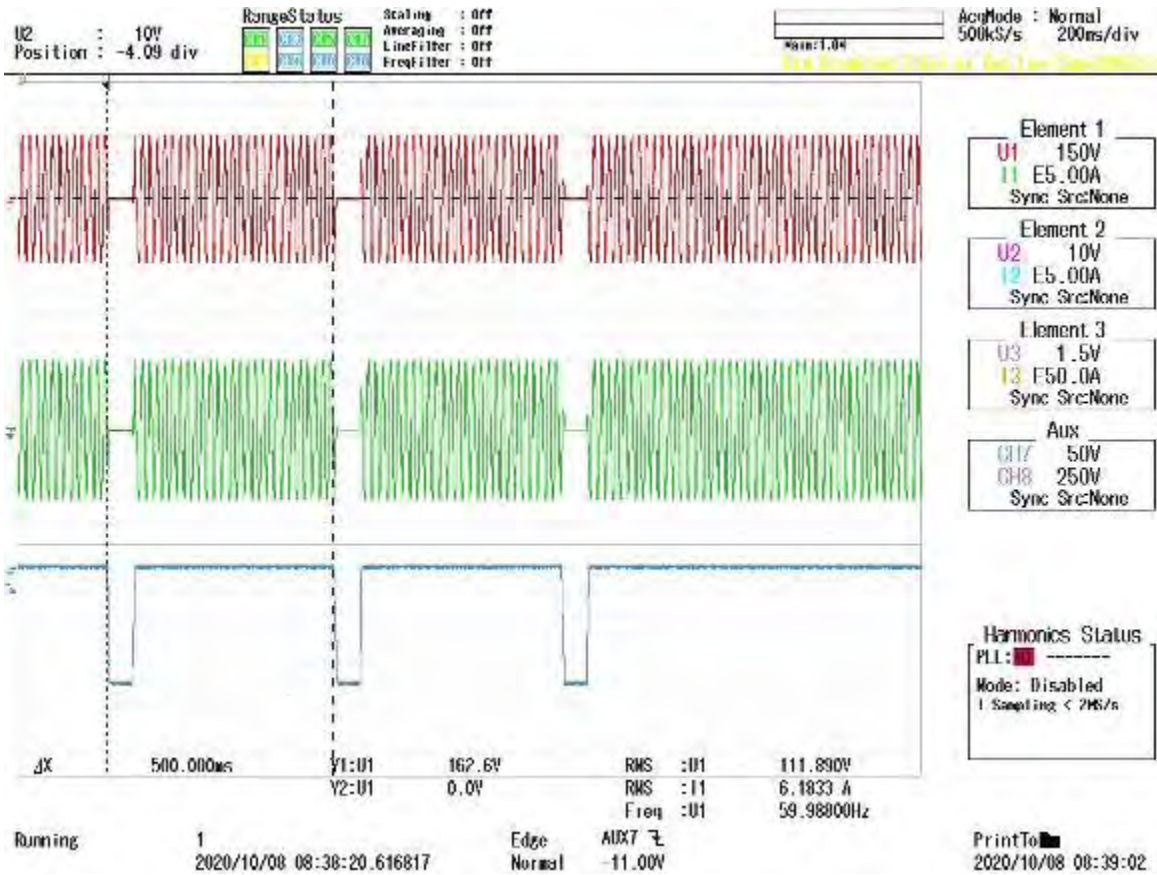


Figure J-31: Condition J, repetition rate

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	36 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

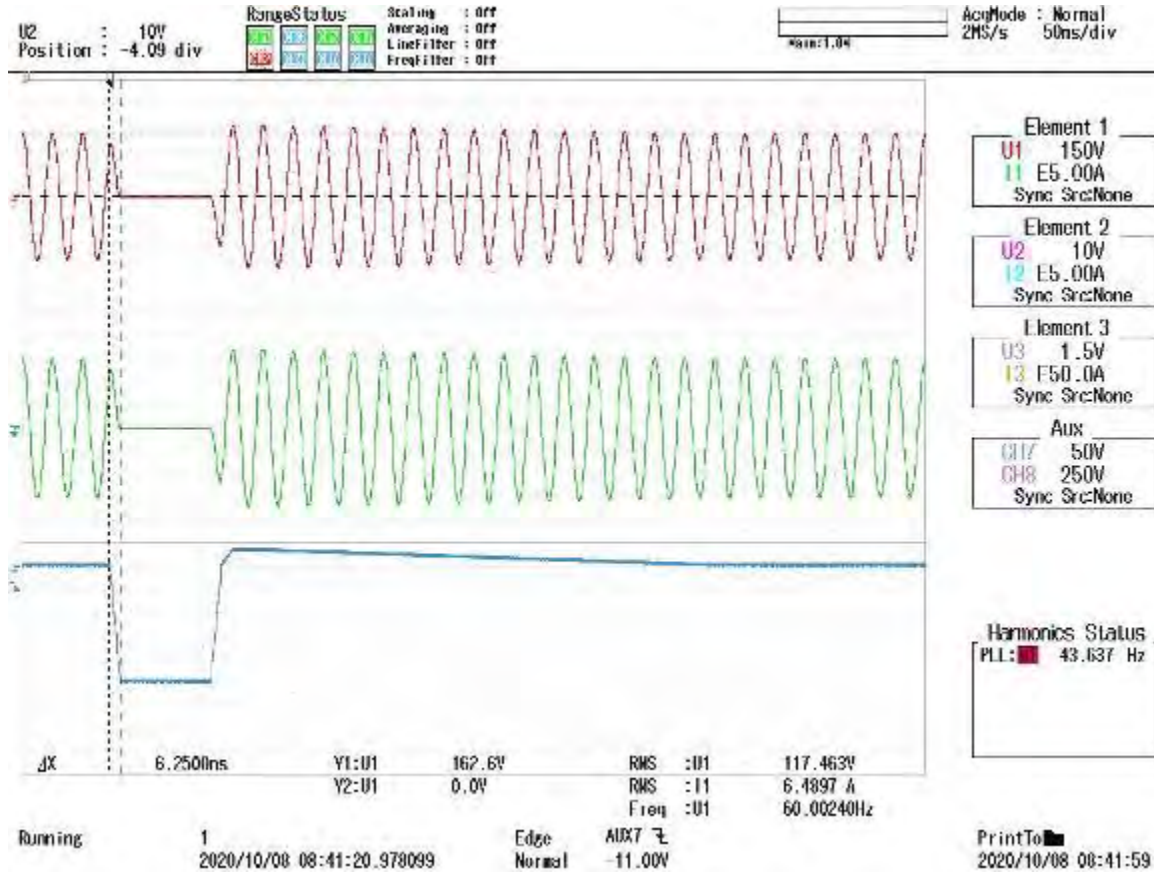


Figure J-32: Condition K, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF201 Power Interrupt**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	37 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

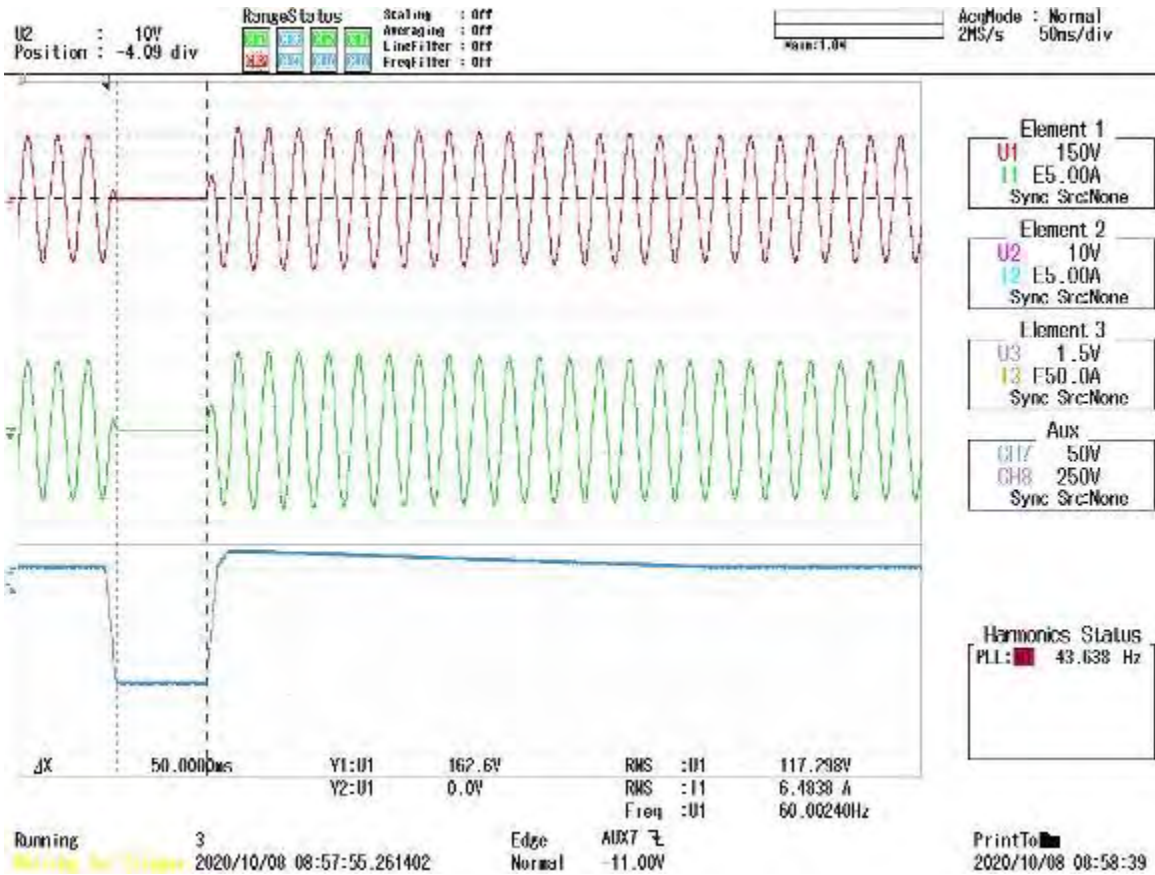
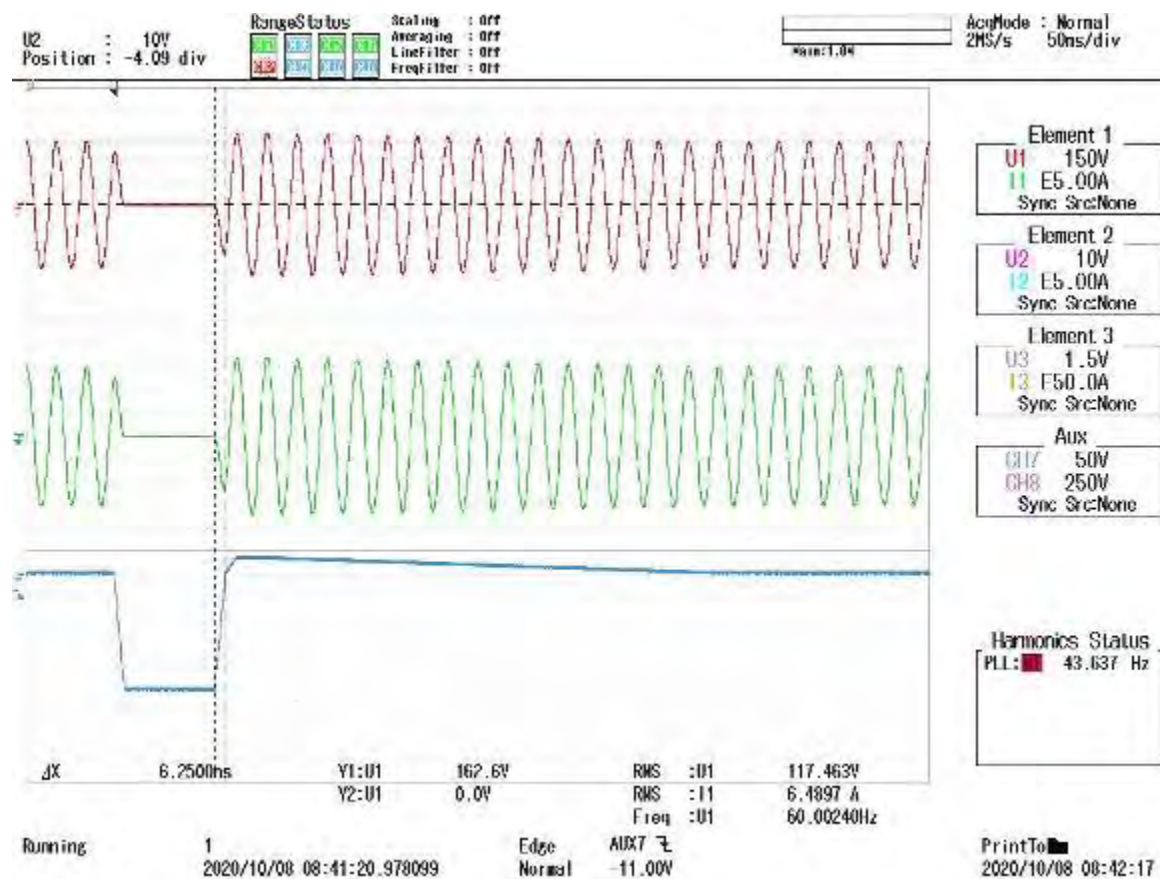


Figure J-33: Condition K, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	38 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	39 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

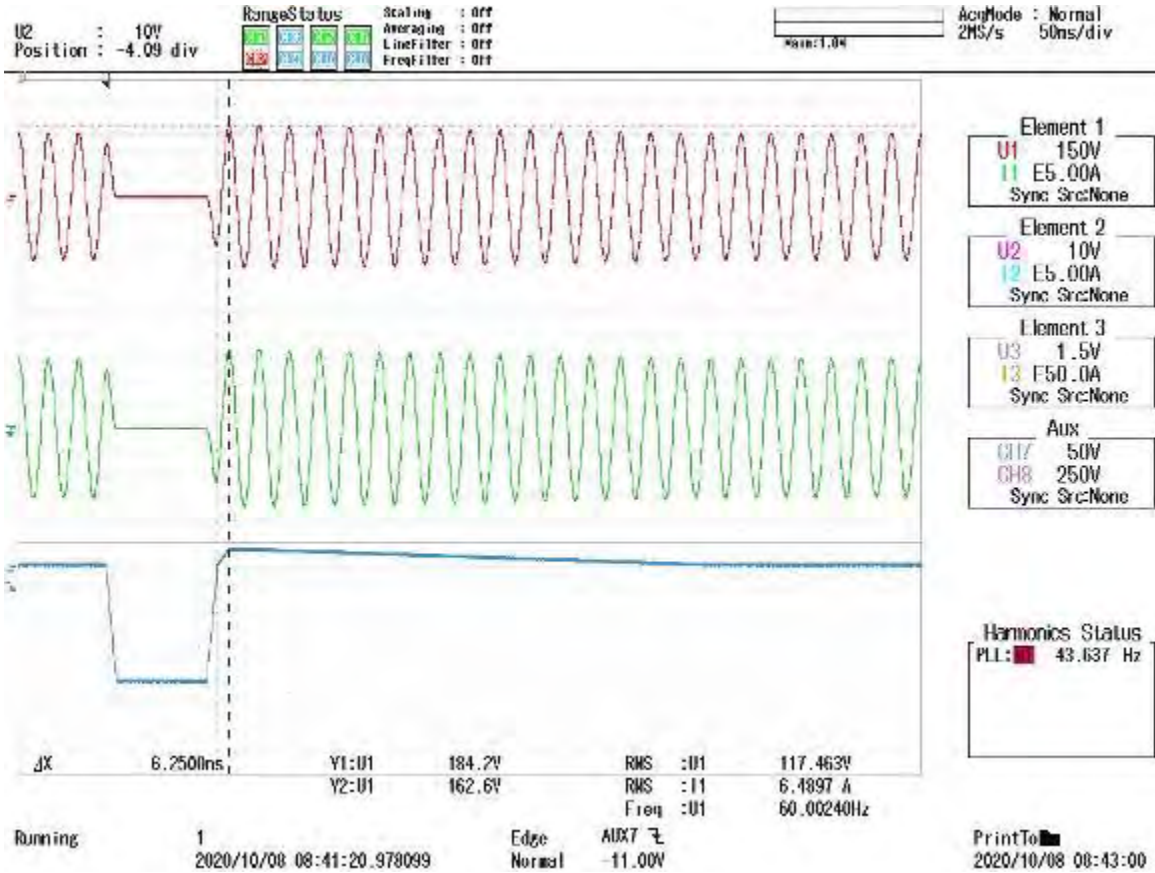
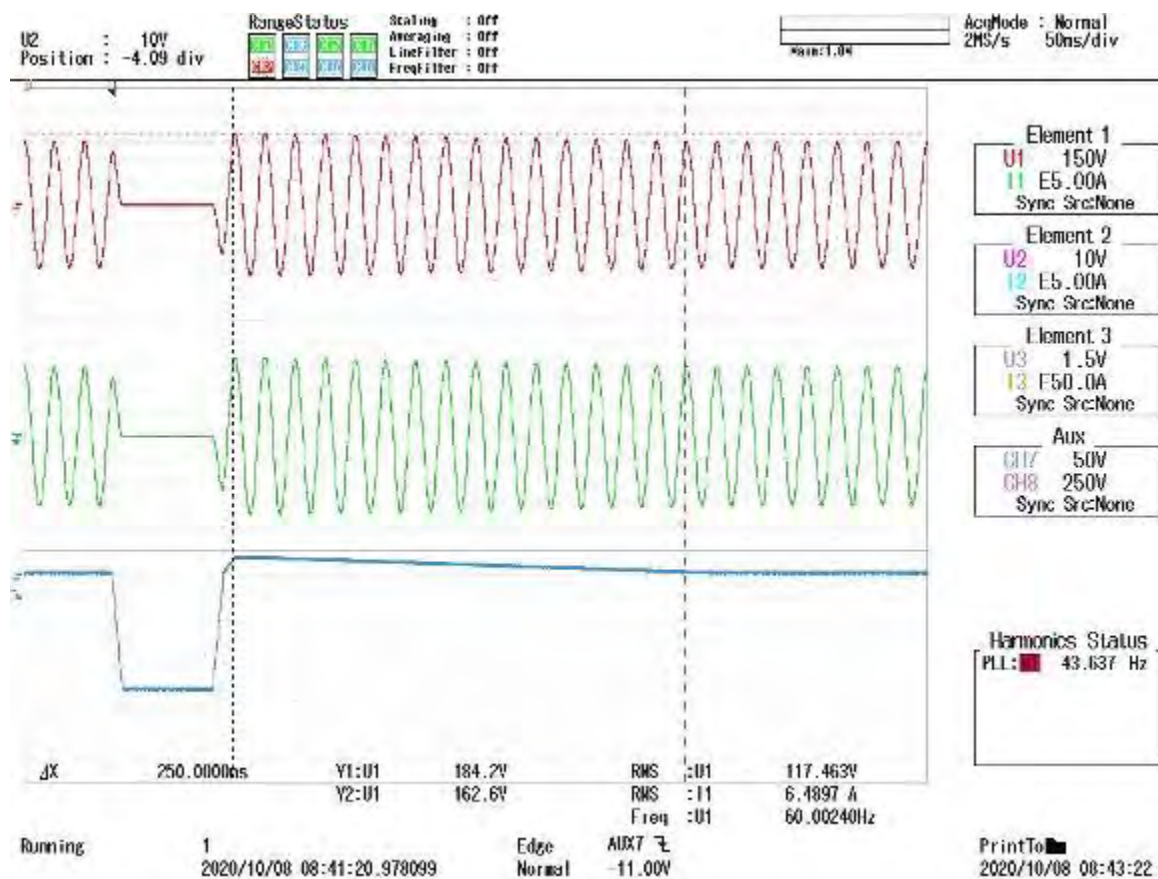


Figure J-35: Condition K, 130 Vac rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	40 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	41 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

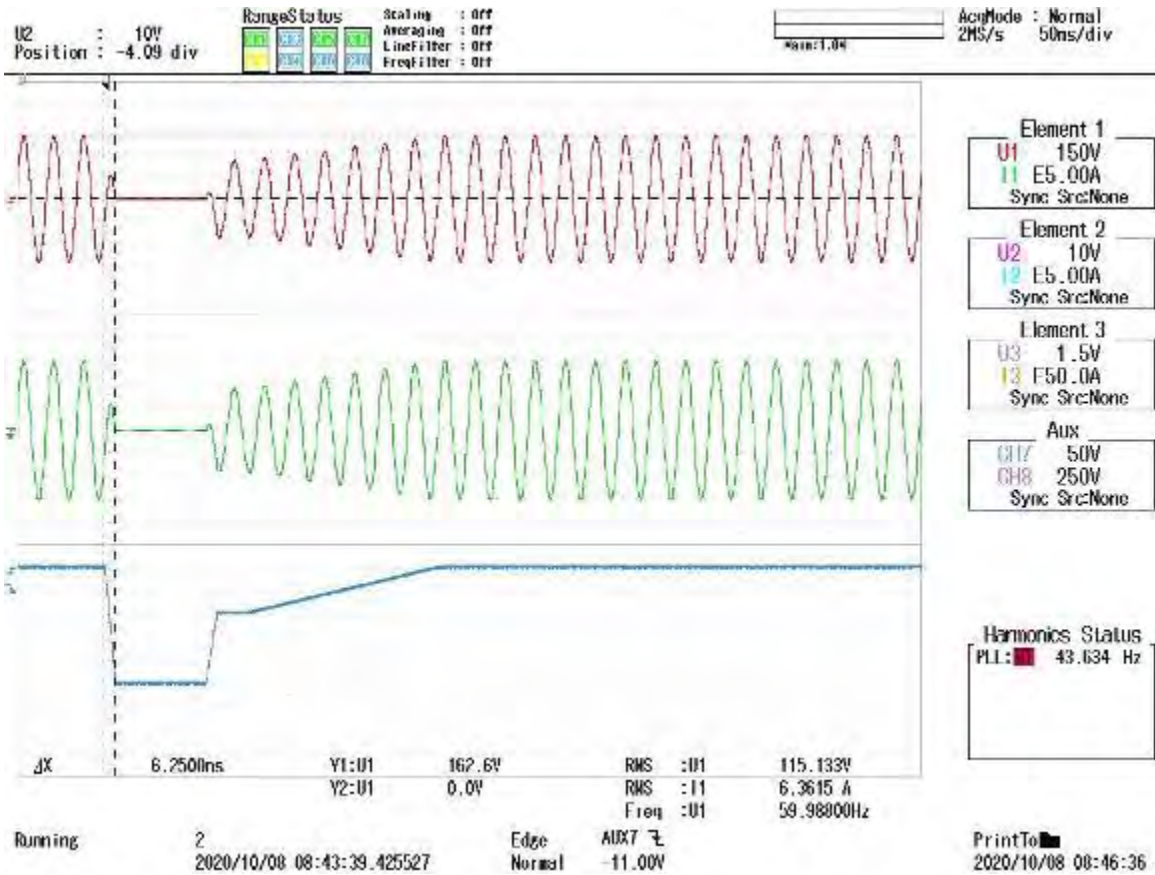


Figure J-37: Condition L, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF201 Power Interrupt**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	42 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

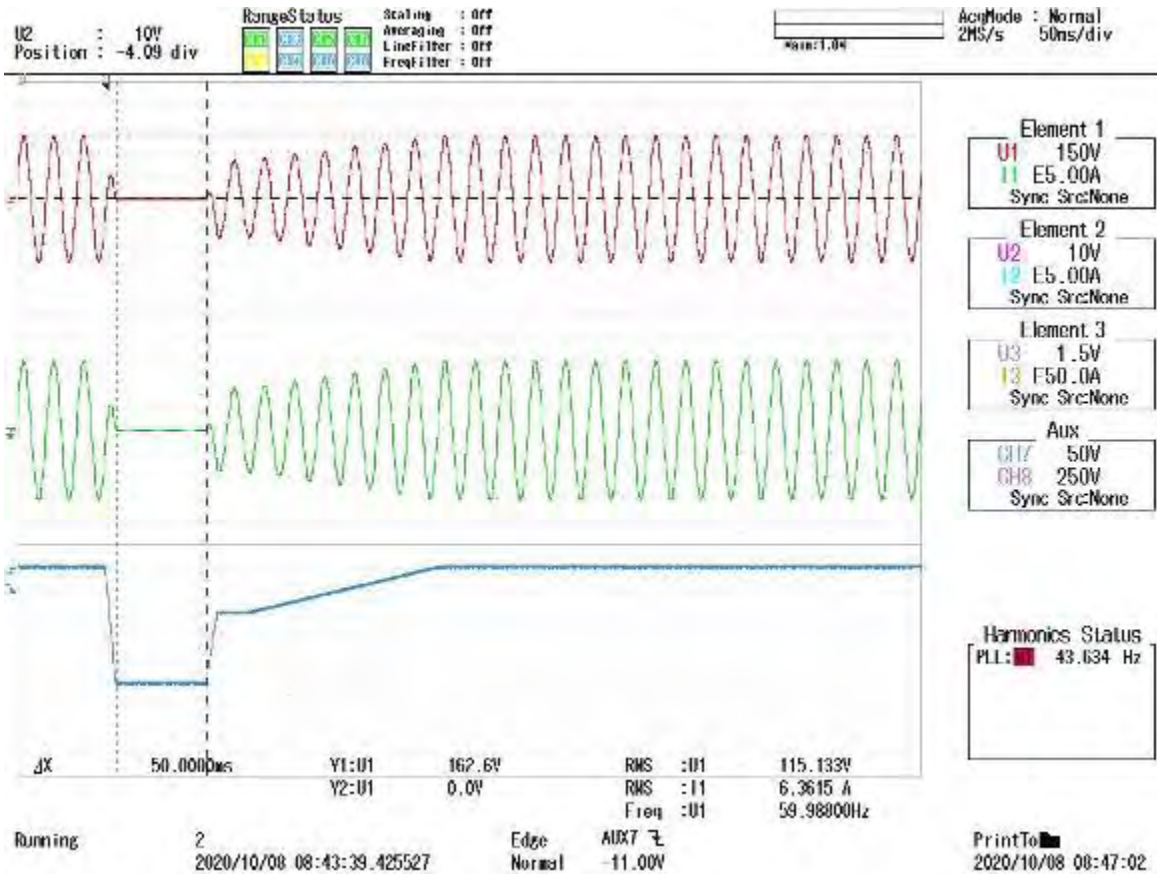


Figure J-38: Condition L, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	43 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

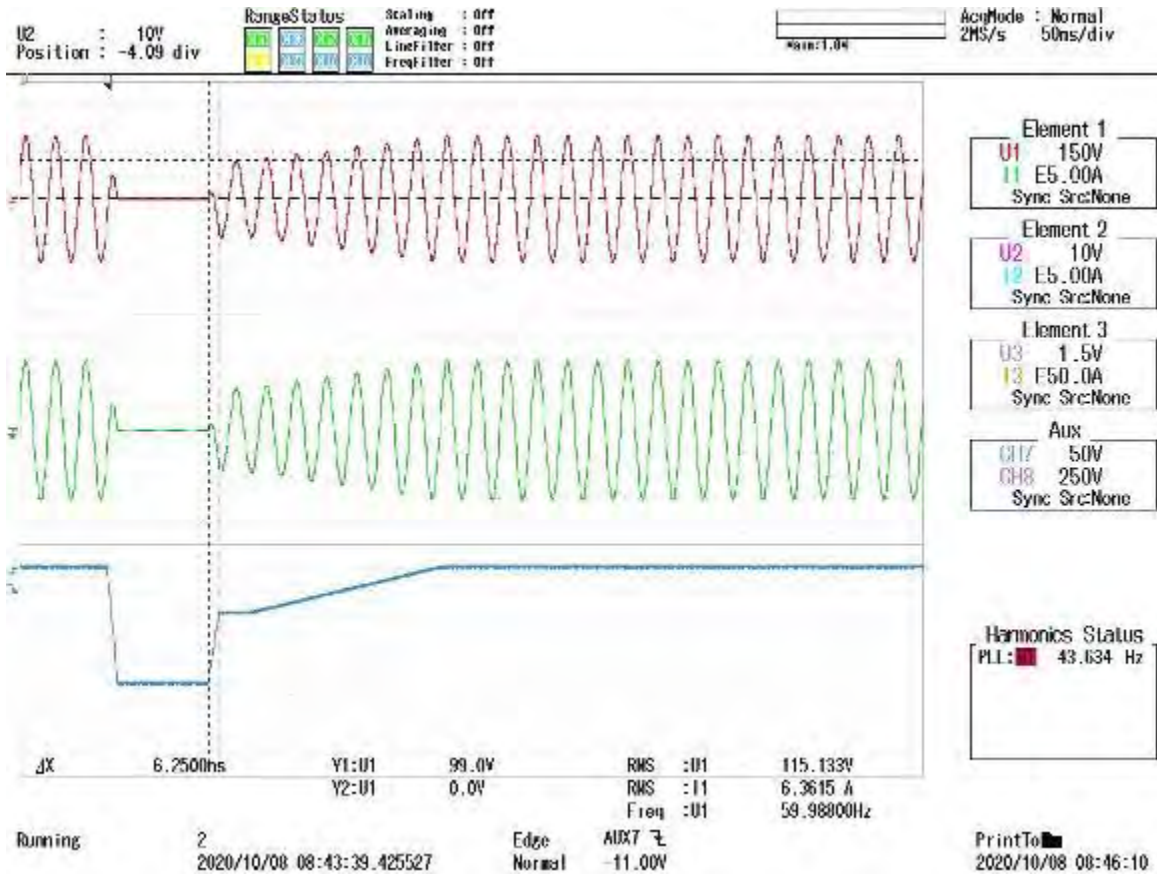


Figure J-39: Condition L, 70 Vac rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	44 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

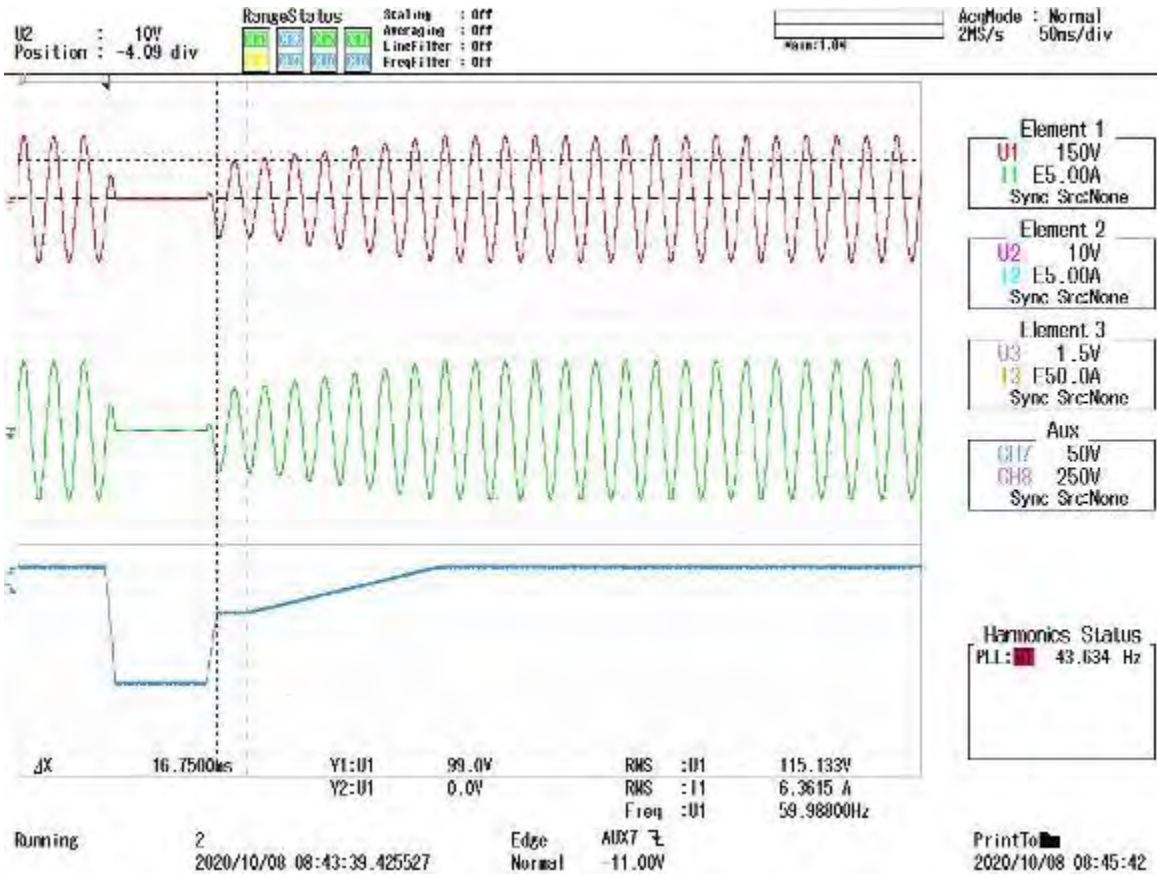


Figure J-40: Condition L, 70 Vac duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	45 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

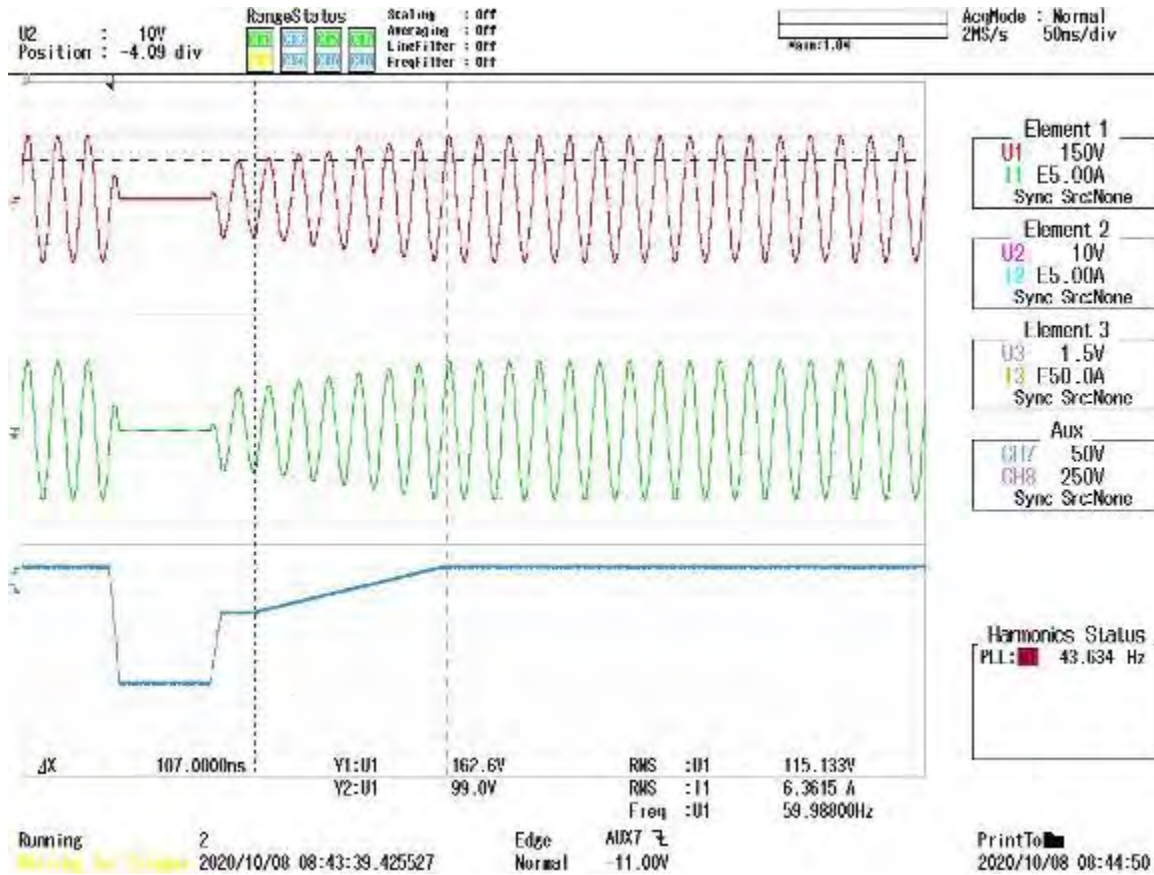


Figure J-41: Condition L, 115 Vac rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	46 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

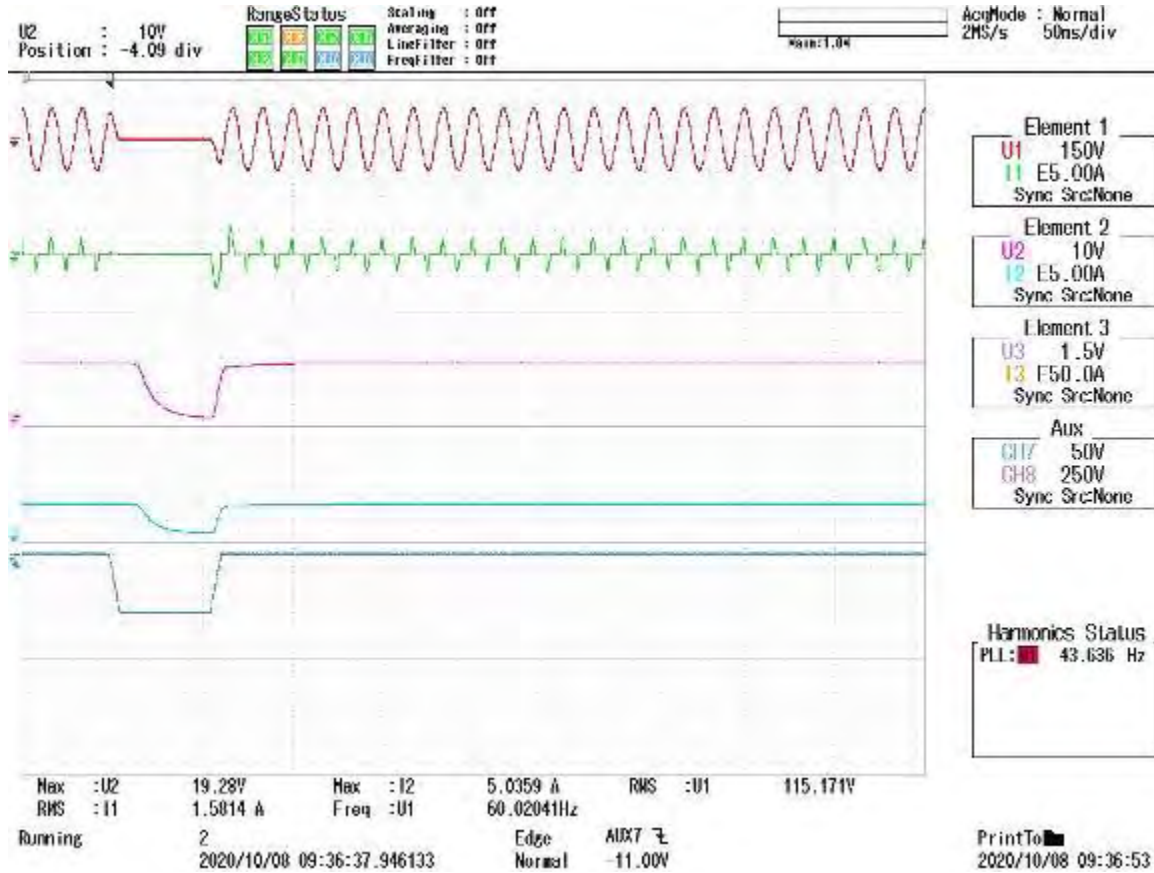


Figure J-42: Condition A

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	47 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

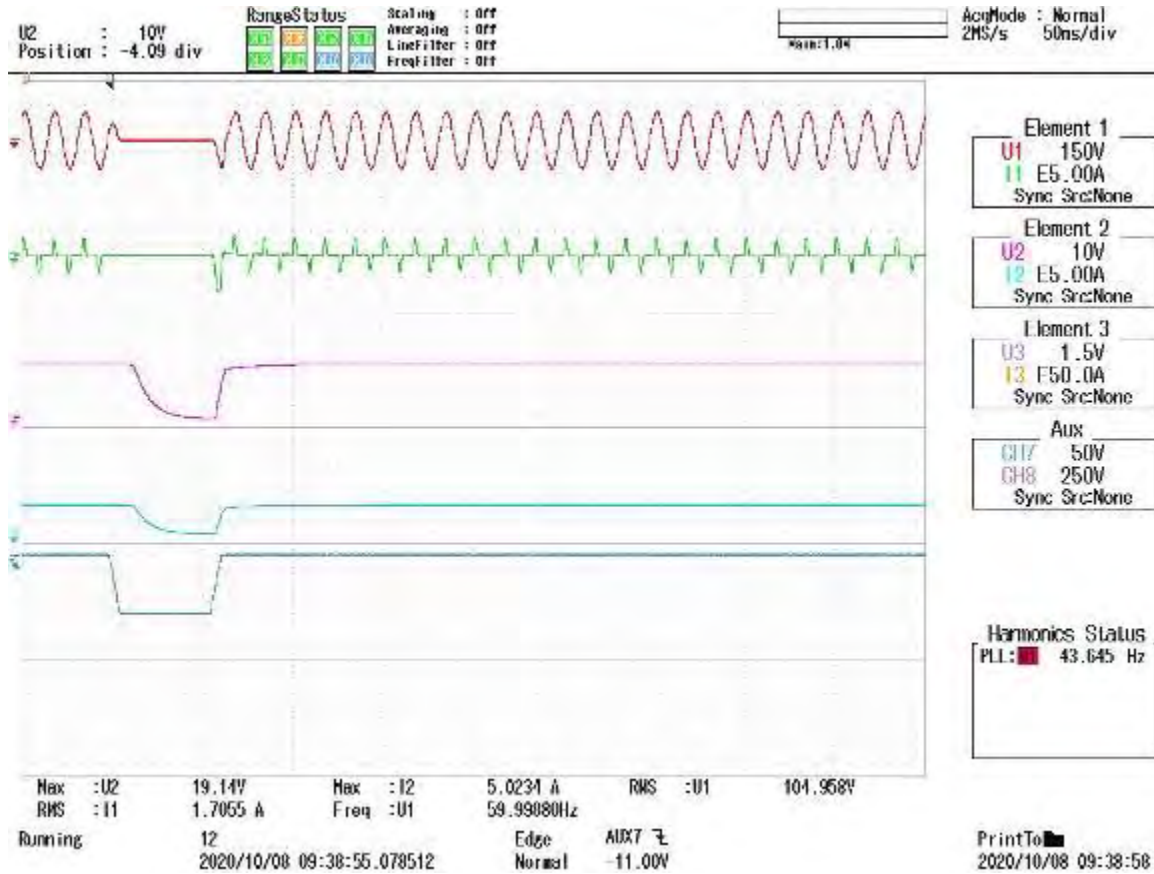


Figure J-43: Condition B

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	48 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Figure J-44: Condition C

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	49 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Figure J-45: Condition D

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	50 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

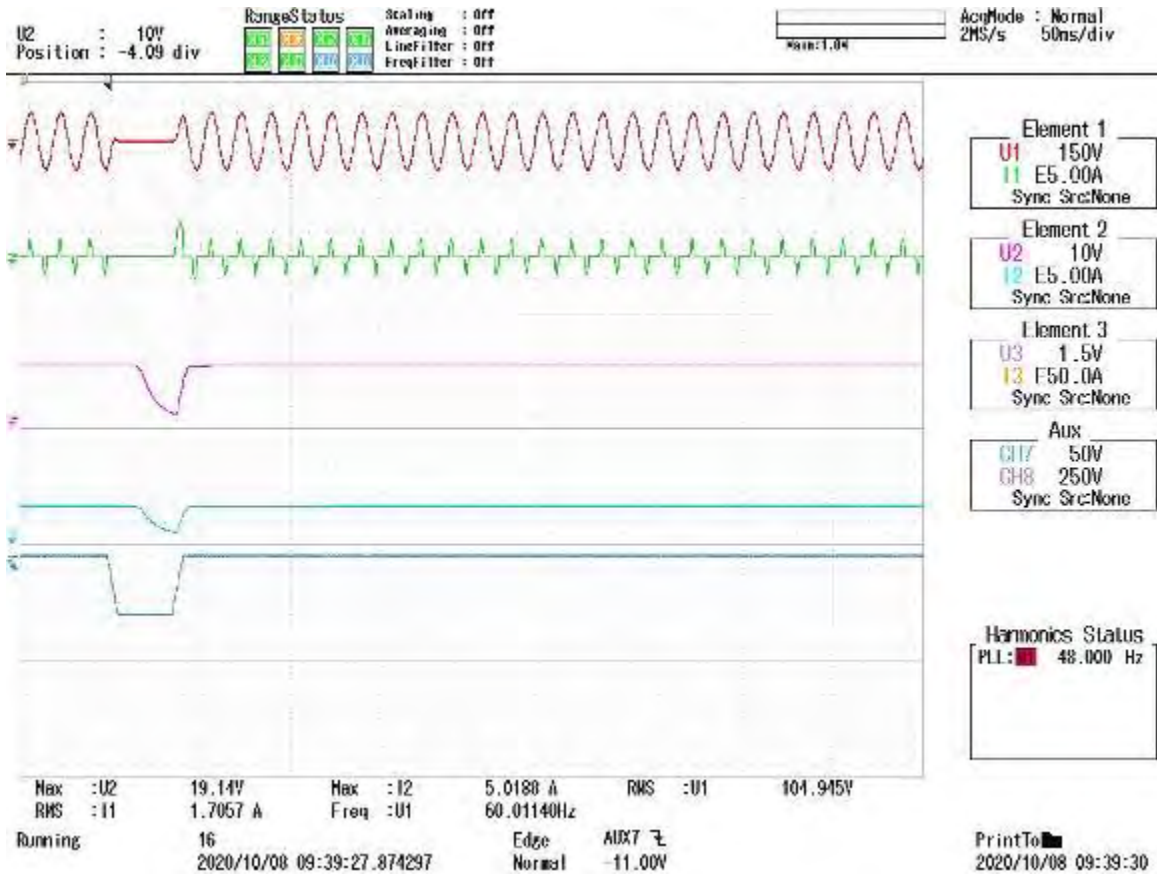


Figure J-46: Condition E

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	51 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Figure J-47: Condition F

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	52 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

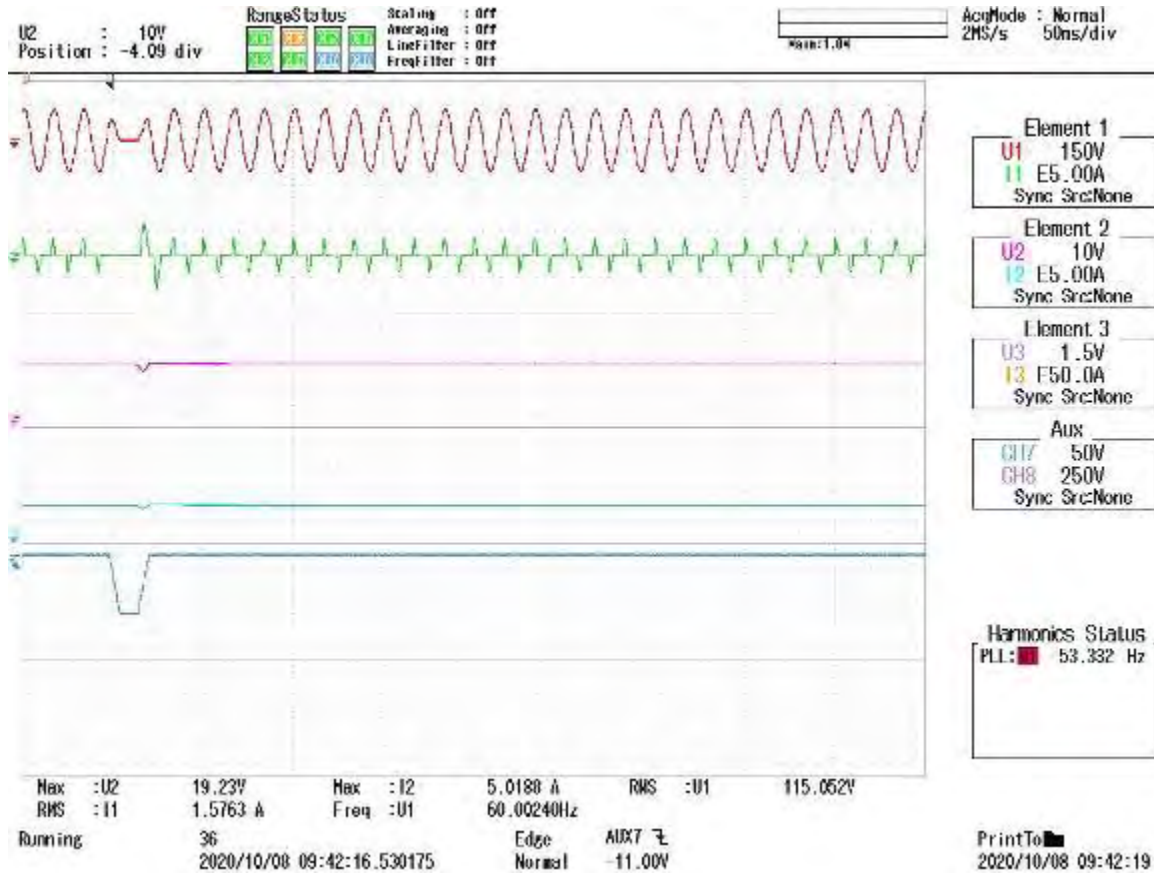


Figure J-48: Condition G

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	53 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

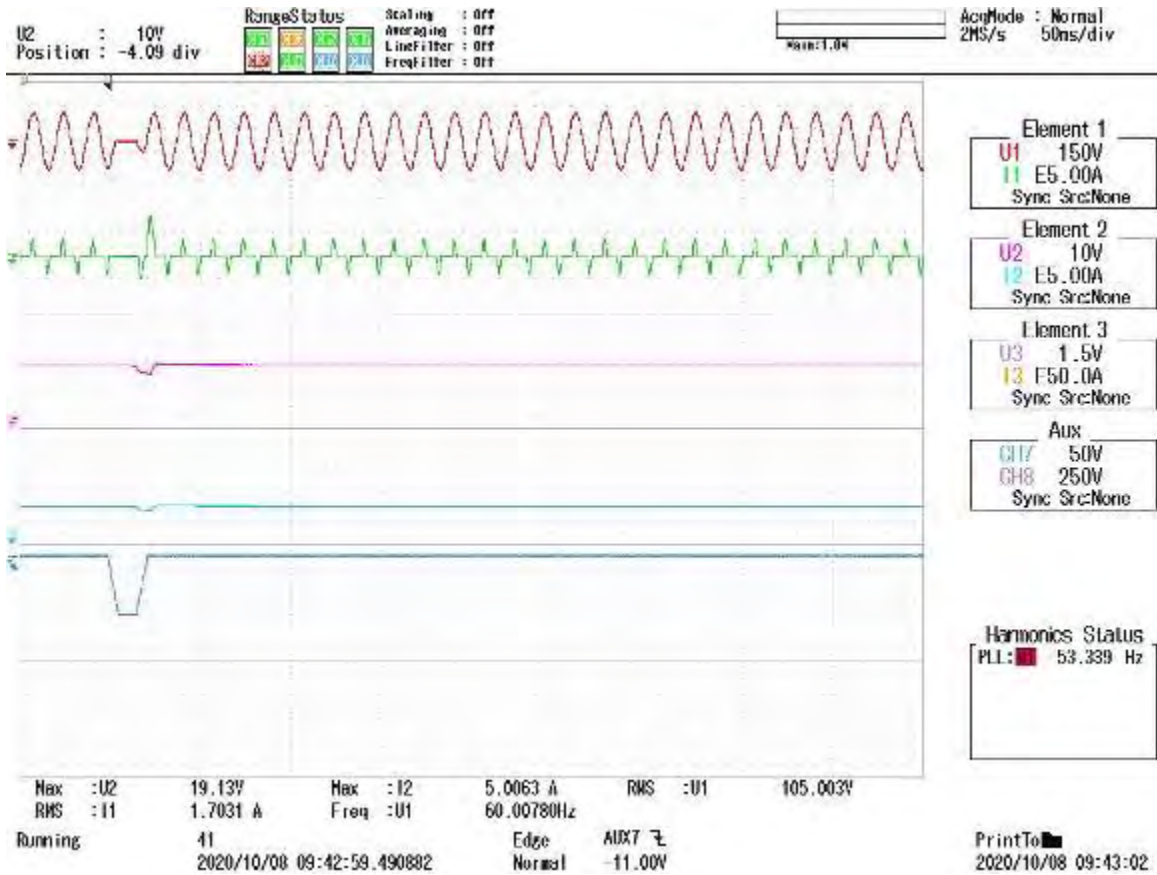


Figure J-49: Condition H

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	54 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

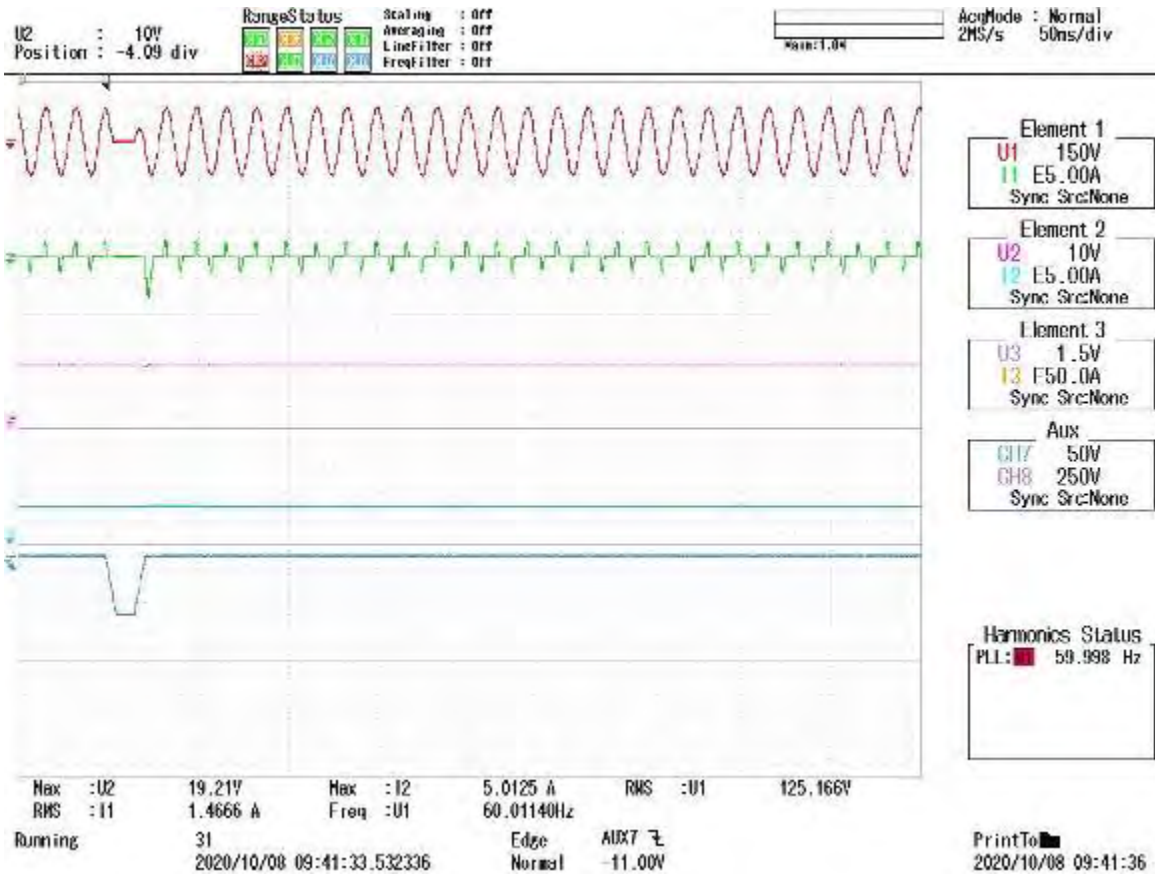
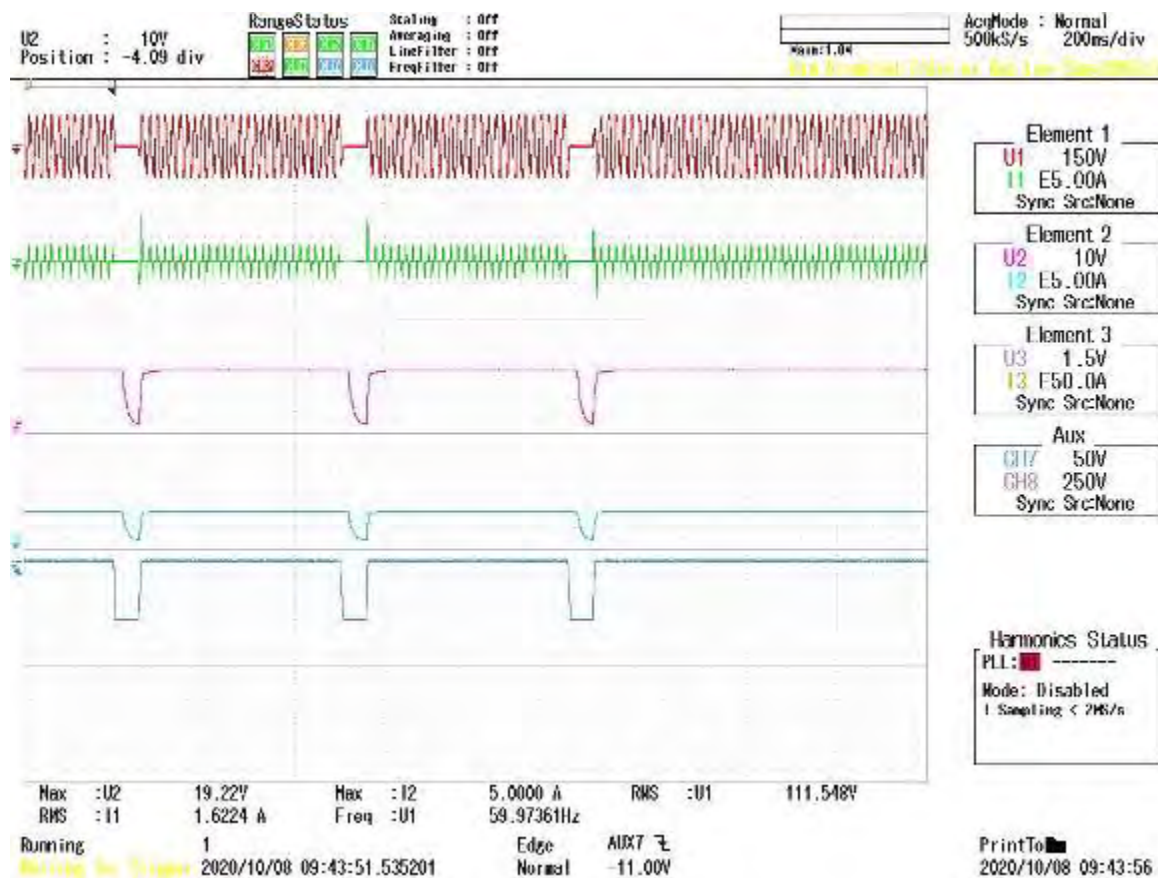


Figure J-50: Condition I

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	55 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF201 Power Interrupt**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	56 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

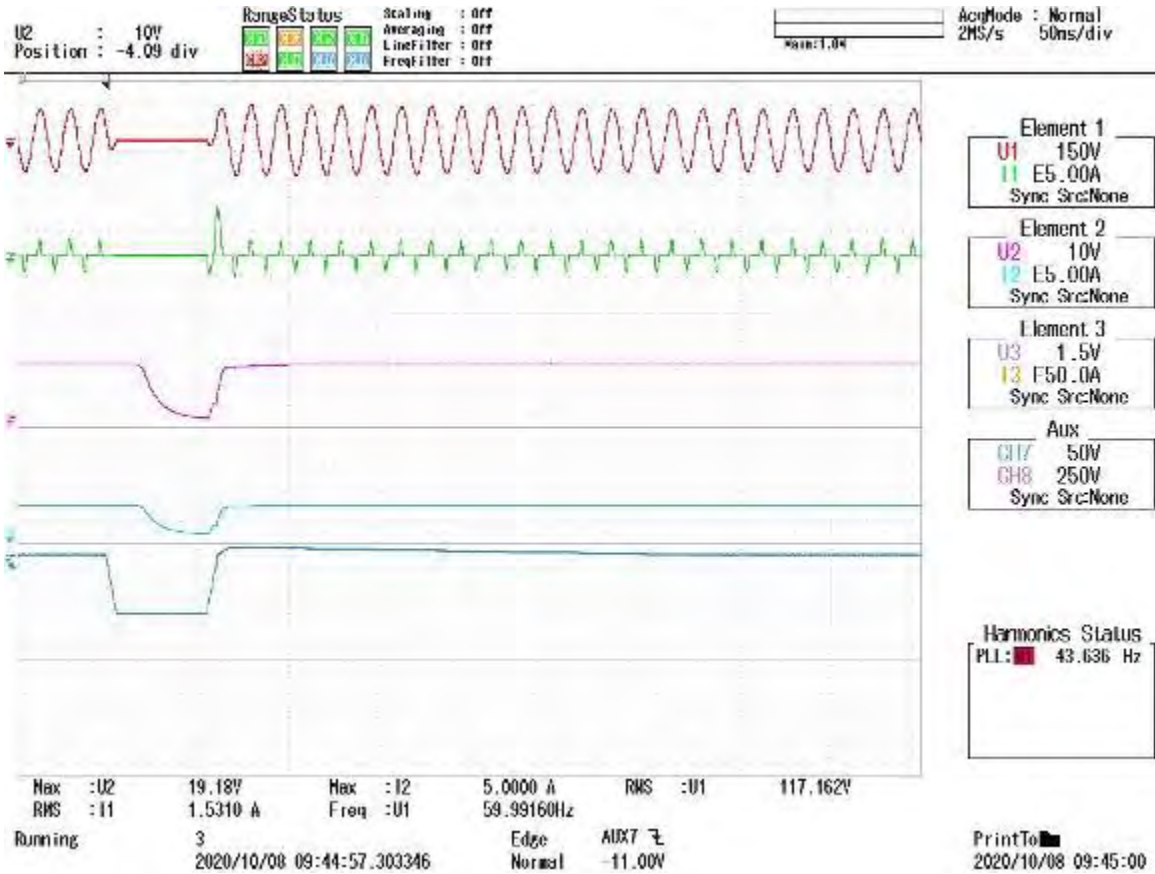


Figure J-52: Condition K

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF201 Power Interrupt

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	57 of 57
Project number	61179	Specification	MIL-HDBK-704-6, SXF201				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

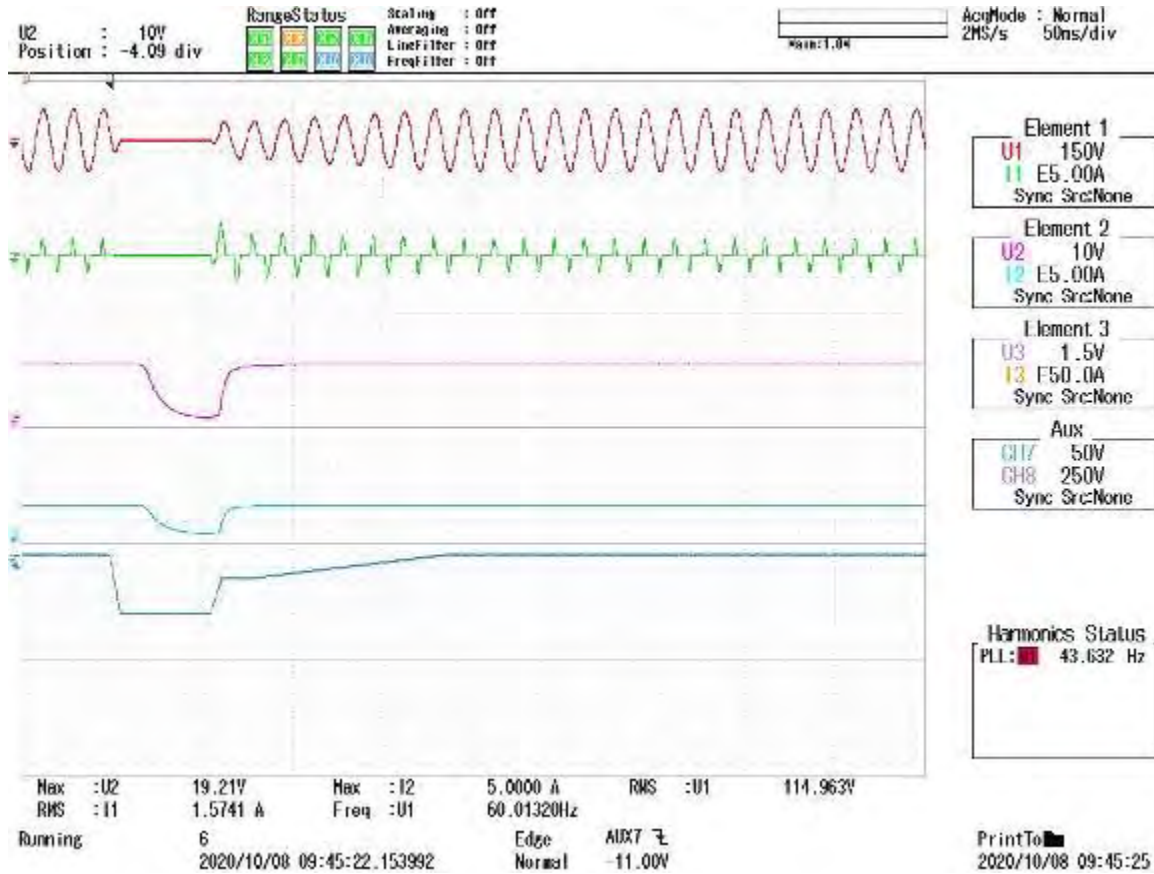


Figure J-53: Condition L

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage

Appendix K: SXF302 Abnormal Voltage Transients



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
360-060	Power scope	X	210-059	Multimeter	X	
230-098	Probe	X	310-094	Arbitrary waveform generator	X	
310-036	Arbitrary waveform generator	N/A	350-153	Amplifier	N/A	
230-121	Probe	X	290-015	Micro-ohmmeter	X	

Power Input AC, SXF302 Abnormal Voltage Transients Test results							
Test condition	Nominal voltage	Transient voltage	Transient duration	EUT mode	Repetitions	Result	Notes
A	115 Vac	180 Vac	8.333 mSec	N/A	N/A	N/A	Figures K-1 through K-3, calibration
B	115 Vac	180 Vac, then decreasing to 147 Vac, then decreasing to 140 Vac, then decreasing to 115 Vac	8.333 mSec, then decreasing over 16.67 mSec, then decreasing over 16.67 mSec, then decreasing over 2 Sec	N/A	N/A	N/A	Figures K-4 through K-8, calibration
C	115 Vac	160 Vac	16.67 mSec	N/A	N/A	N/A	Figures K-9 through K-11, calibration
D	115 Vac	160 Vac, then decreasing to 140 Vac, then decreasing to 115 Vac	16.67 mSec, then decreasing over 16.67 mSec, then decreasing over 2 Sec	N/A	N/A	N/A	Figures K-12 through K-15, calibration
E	115 Vac	180 Vac, 3 times	8.333 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures K-16 through K-19, calibration
F	115 Vac	50 Vac	8.333 mSec	N/A	N/A	N/A	Figures K-20 through K-22, calibration
G	115 Vac	50 Vac, then increasing to 83 Vac, then increasing to 90 Vac, then increasing to 115 Vac	8.333 mSec, then increasing over 16.67 mSec, then increasing over 16.67 mSec, then increasing over 2 Sec	N/A	N/A	N/A	Figures K-23 through K-27, calibration
H	115 Vac	70 Vac	16.67 mSec	N/A	N/A	N/A	Figures K-28 through K-30, calibration
I	115 Vac	70 Vac, then increasing to 90 Vac, then increasing to 115 Vac	16.67 mSec, then increasing over 16.67 mSec, then increasing over 2 Sec	N/A	N/A	N/A	Figures K-31 through K-34, calibration
J	115 Vac	50 Vac, 3 times	8.333 mSec, every 0.5 Sec	N/A	N/A	N/A	Figures K-35 through K-38, calibration
K	115 Vac	50 Vac, then 180 Vac, then decreasing to 147 Vac, then decreasing to 140 Vac, then decreasing to 115 Vac	8.333 mSec, then 8.333 mSec, then decreasing over 16.67 mSec, then decreasing over 16.67 mSec, then decreasing over 2 Sec	N/A	N/A	N/A	Figures K-39 through K-45, calibration
A	115 Vac	180 Vac	8.333 mSec	Operating, 5A load	5	Pass	Figure K-46
B	115 Vac	180 Vac, then decreasing to 147 Vac, then decreasing to 140 Vac, then decreasing to 115 Vac	8.333 mSec, then decreasing over 16.67 mSec, then decreasing over 16.67 mSec, then decreasing over 2 Sec	Operating, 5A load	5	Pass	Figure K-47



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

Power Input AC, SXF302 Abnormal Voltage Transients Test results

Test condition	Nominal voltage	Transient voltage	Transient duration	EUT mode	Repetitions	Result	Notes
C	115 Vac	160 Vac	16.67 mSec	Operating, 5A load	5	Pass	Figure K-48
D	115 Vac	160 Vac, then decreasing to 140 Vac, then decreasing to 115 Vac	16.67 mSec, then decreasing over 16.67 mSec, then decreasing over 2 Sec	Operating, 5A load	5	Pass	Figure K-49
E	115 Vac	180 Vac, 3 times	8.333 mSec, every 0.5 Sec	Operating, 5A load	5	Pass	Figure K-50
F	115 Vac	50 Vac	8.333 mSec	Operating, 5A load	5	Pass	Figure K-51
G	115 Vac	50 Vac, then increasing to 83 Vac, then increasing to 90 Vac, then increasing to 115 Vac	8.333 mSec, then increasing over 16.67 mSec, then increasing over 16.67 mSec, then increasing over 2 Sec	Operating, 5A load	5	Pass	Figure K-52
H	115 Vac	70 Vac	16.67 mSec	Operating, 5A load	5	Pass	Figure K-53
I	115 Vac	70 Vac, then increasing to 90 Vac, then increasing to 115 Vac	16.67 mSec, then increasing over 16.67 mSec, then increasing over 2 Sec	Operating, 5A load	5	Pass	Figure K-54
J	115 Vac	50 Vac, 3 times	8.333 mSec, every 0.5 Sec	Operating, 5A load	5	Pass	Figure K-55
K	115 Vac	50 Vac, then 180 Vac, then decreasing to 147 Vac, then decreasing to 140 Vac, then decreasing to 115 Vac	8.333 mSec, then 8.333 mSec, then decreasing over 16.67 mSec, then decreasing over 16.67 mSec, then decreasing over 2 Sec	Operating, 5A load	5	Pass	Figure K-56

Bonding results

From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet
Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph K-1: EUT identification



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph K-2: Test setup



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

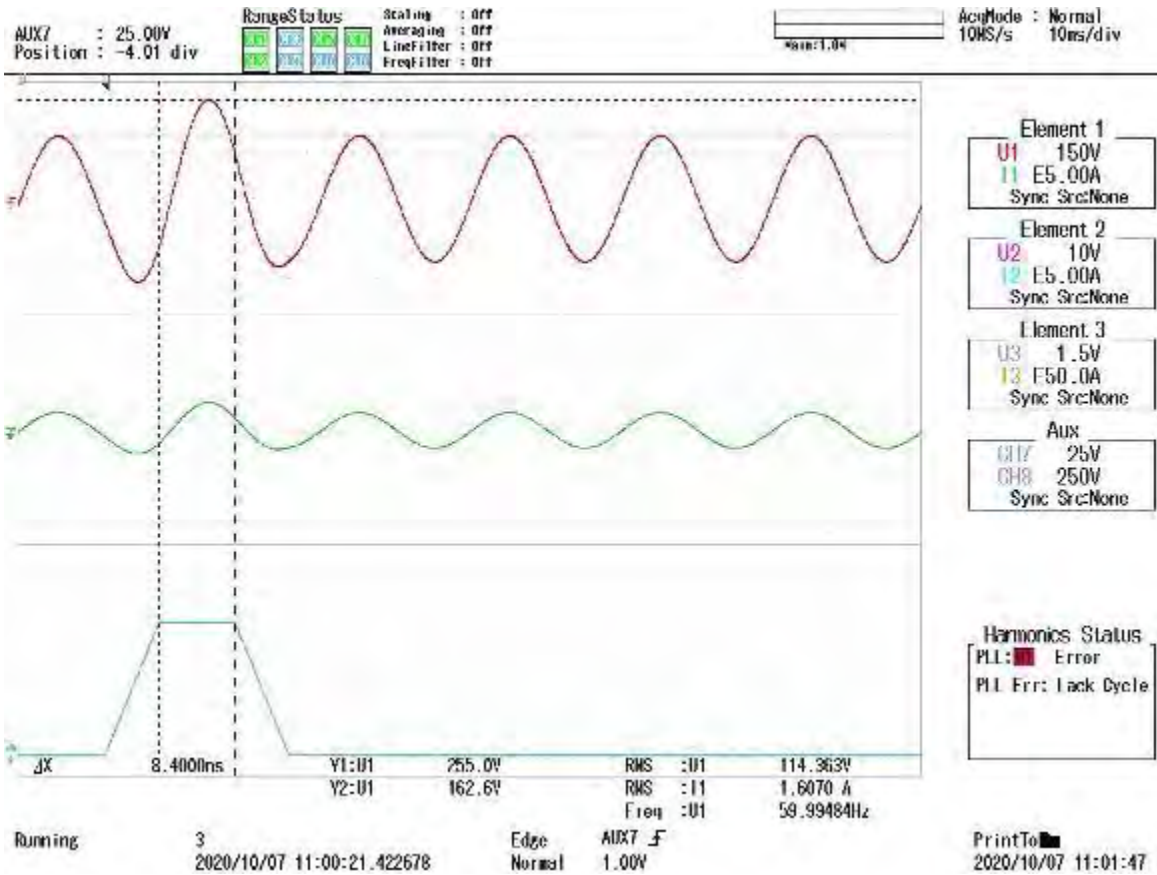


Figure K-1: Condition A, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	6 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

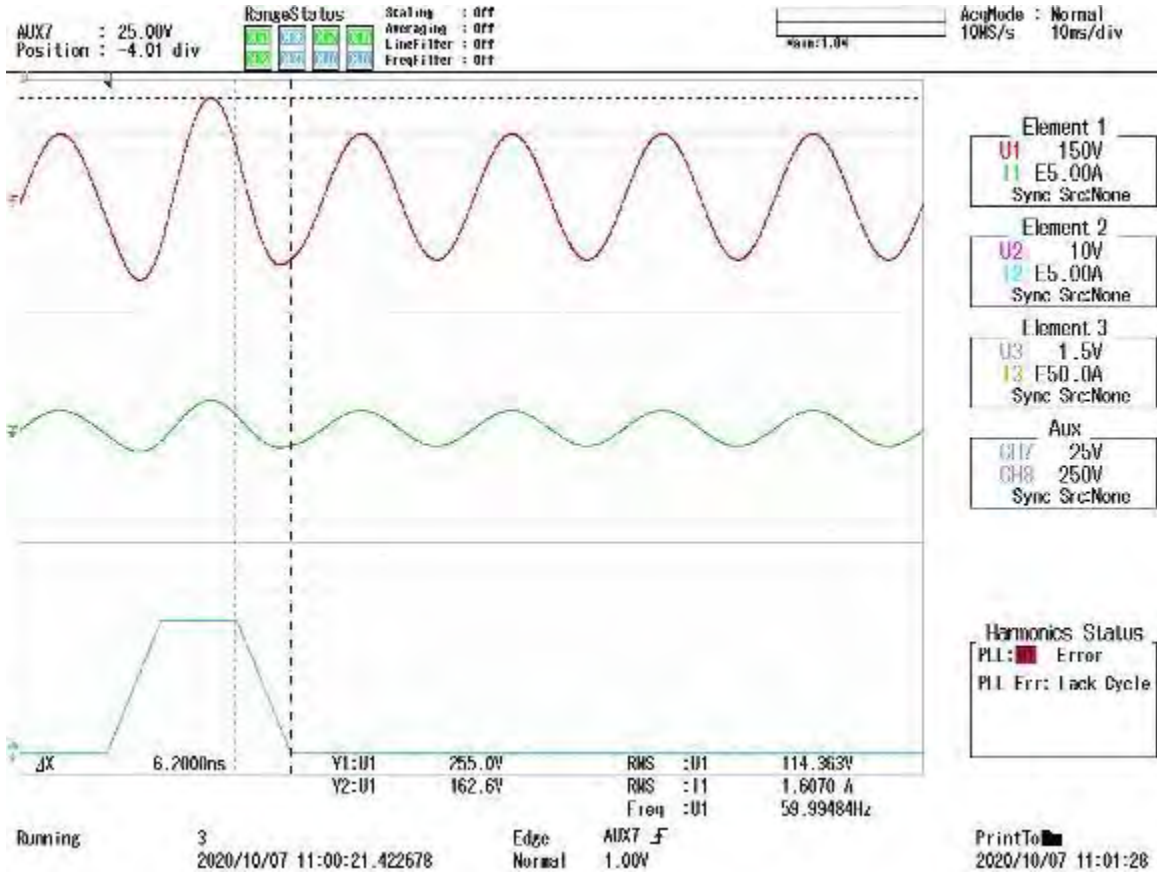


Figure K-2: Condition A, fall time

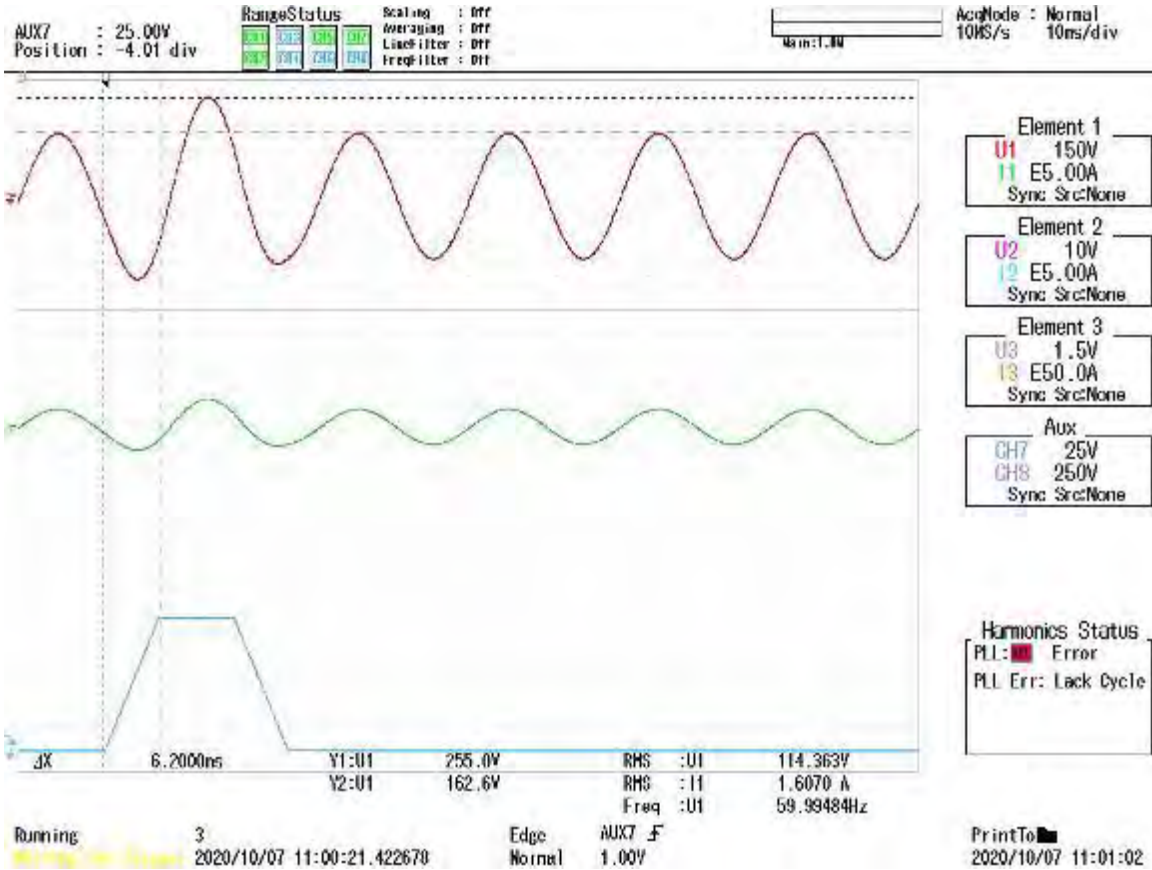
Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	7 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		





Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	8 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

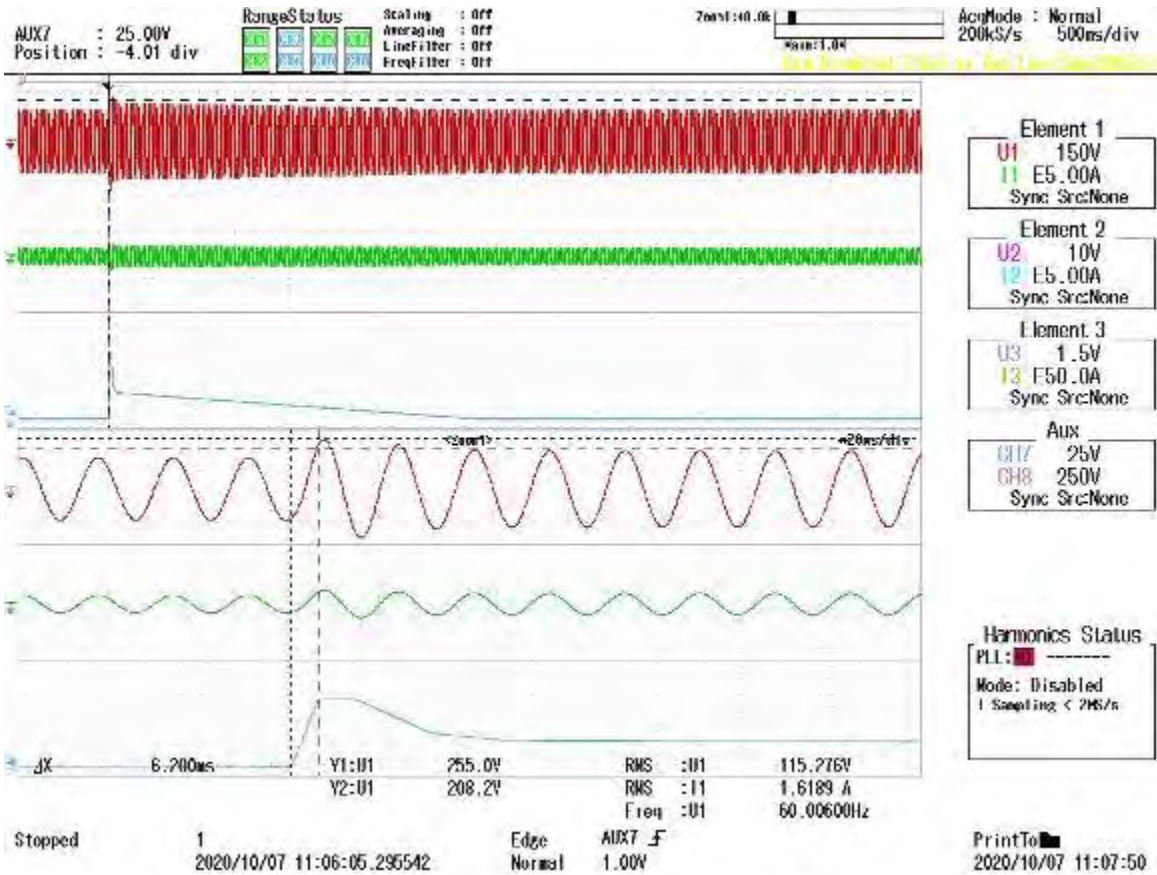


Figure K-4: Condition B, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	9 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

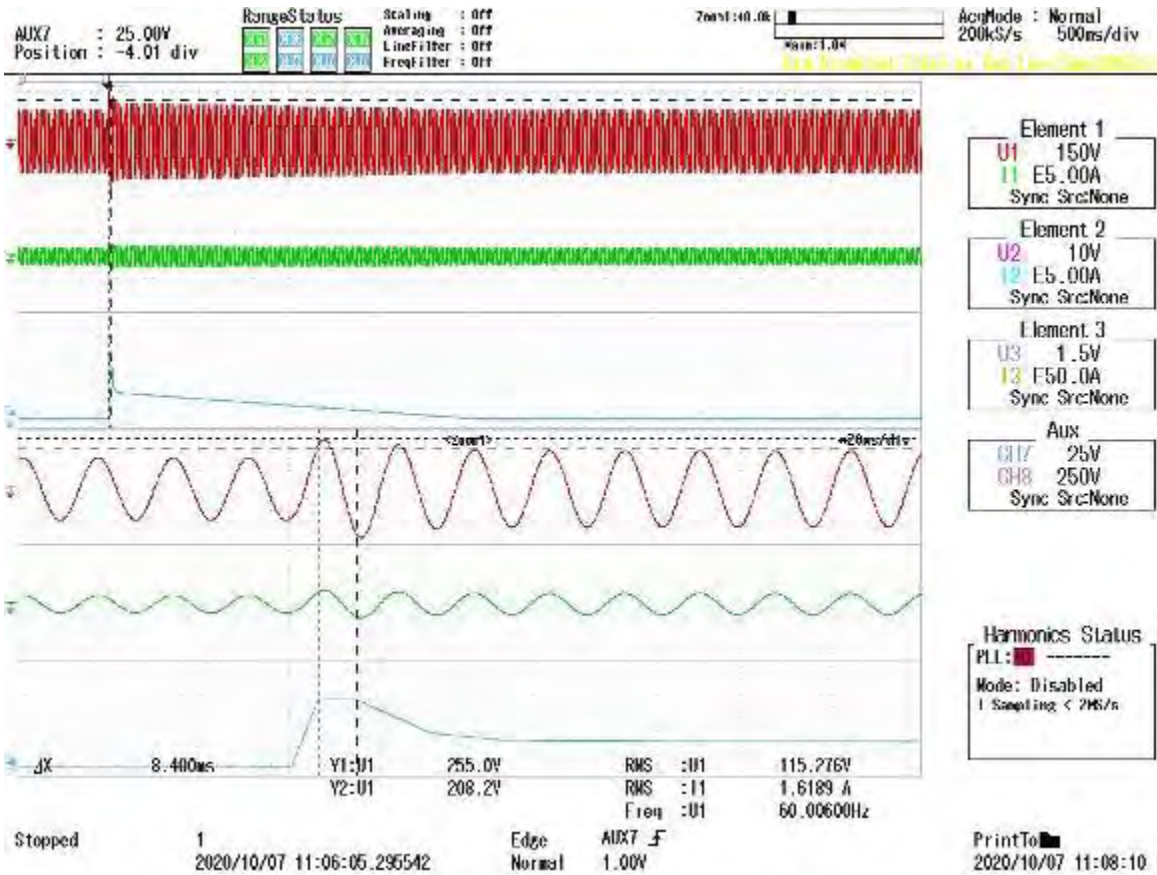


Figure K-5: Condition B, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	10 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

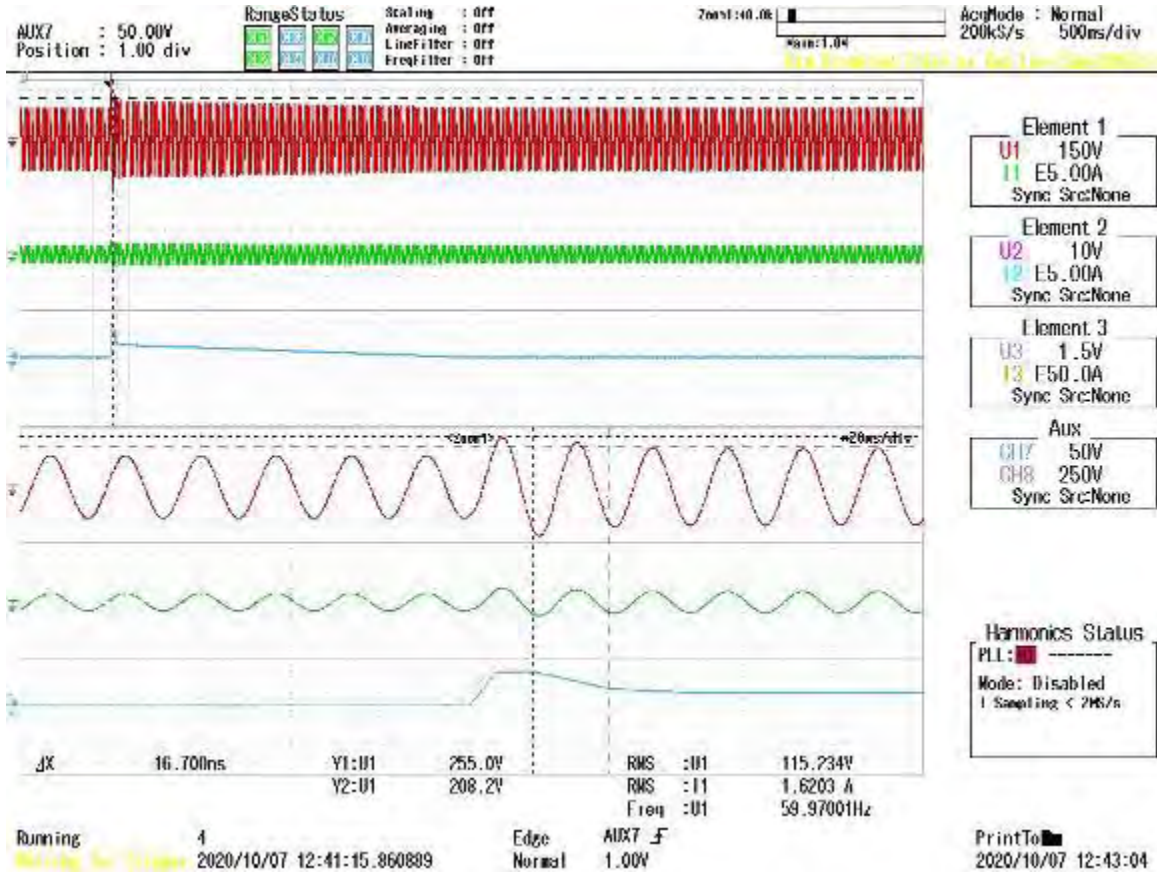


Figure K-6: Condition B, 147 Vac fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	11 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

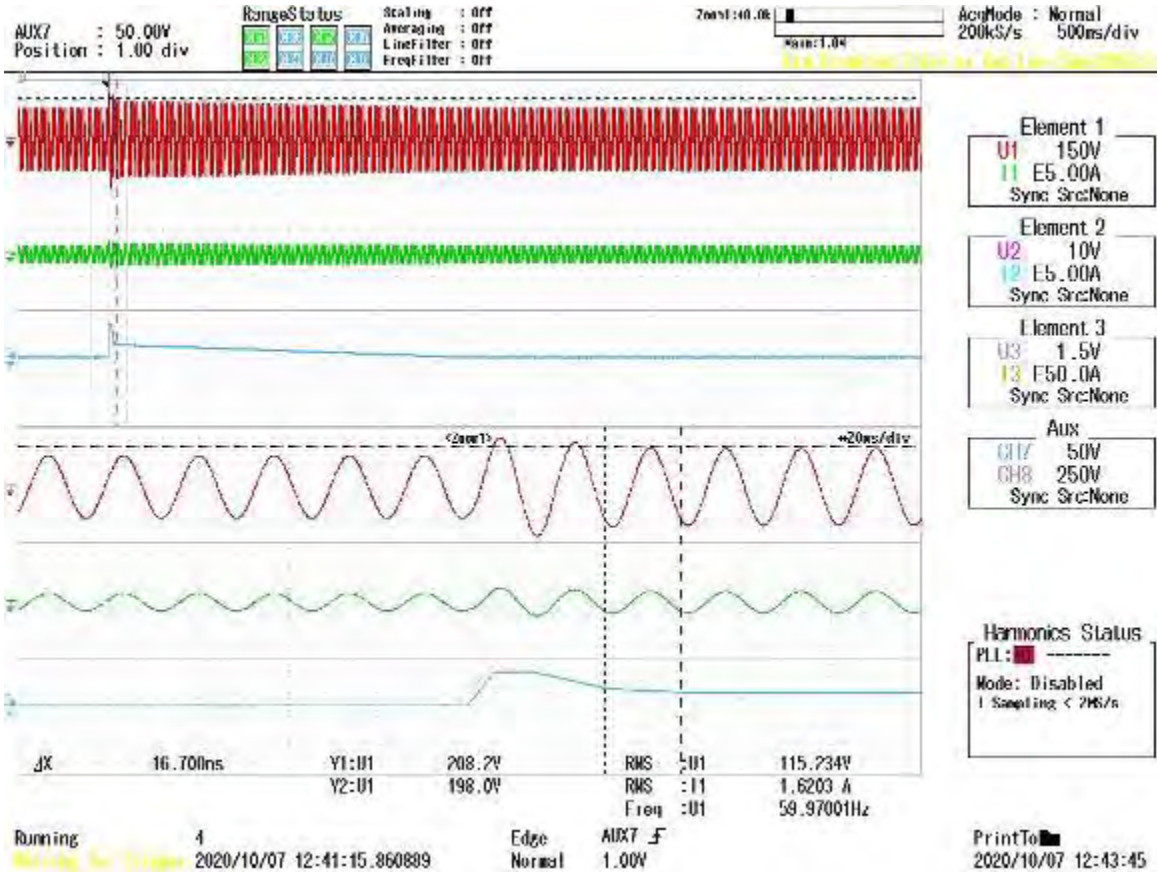


Figure K-7: Condition B, 140 Vac fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	12 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

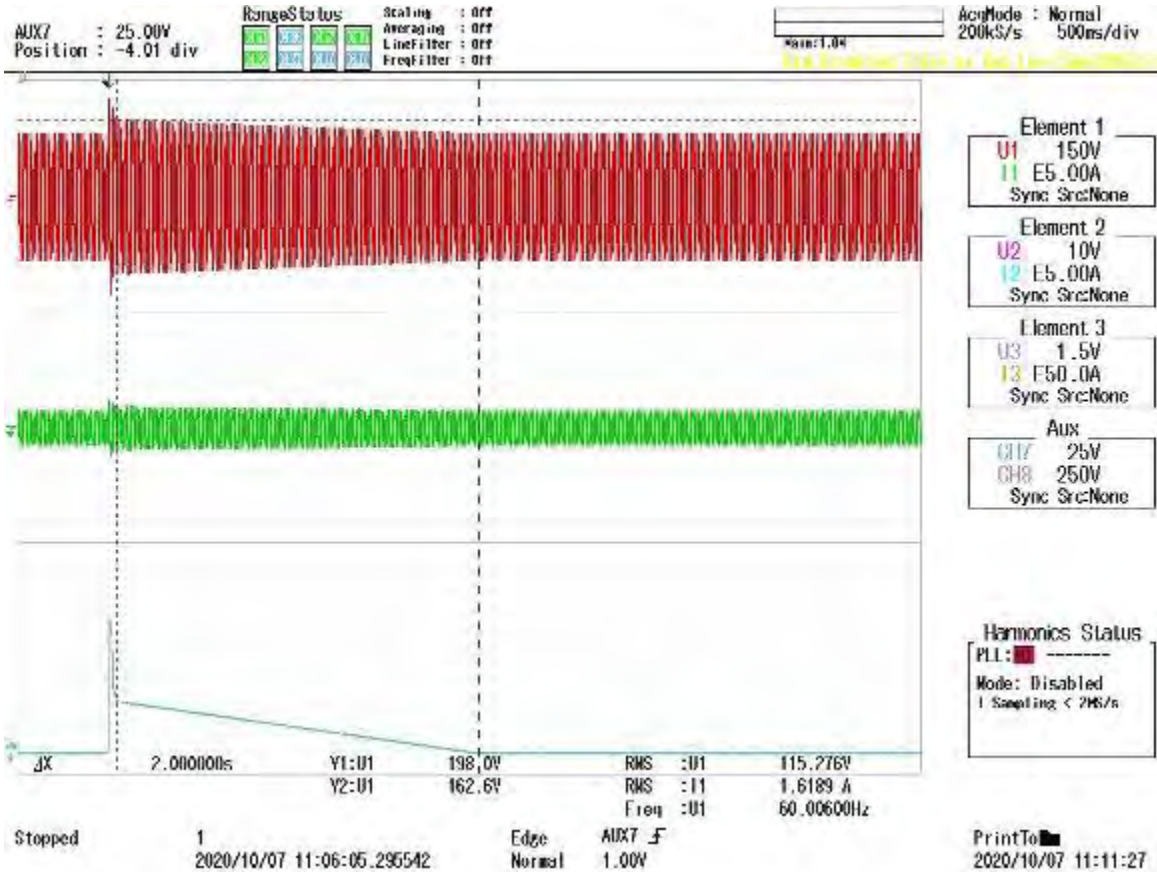


Figure K-8: Condition B, 115 Vac fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	13 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

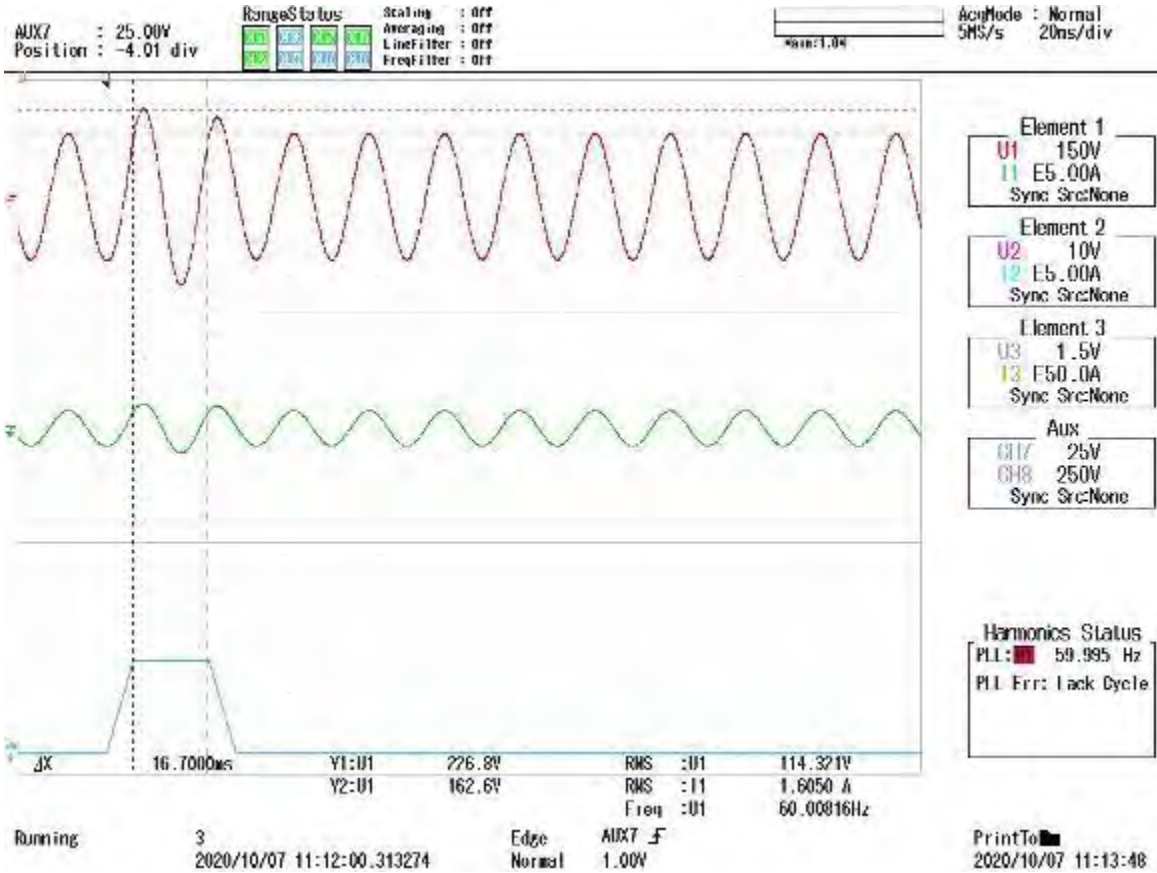


Figure K-9: Condition C, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	14 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

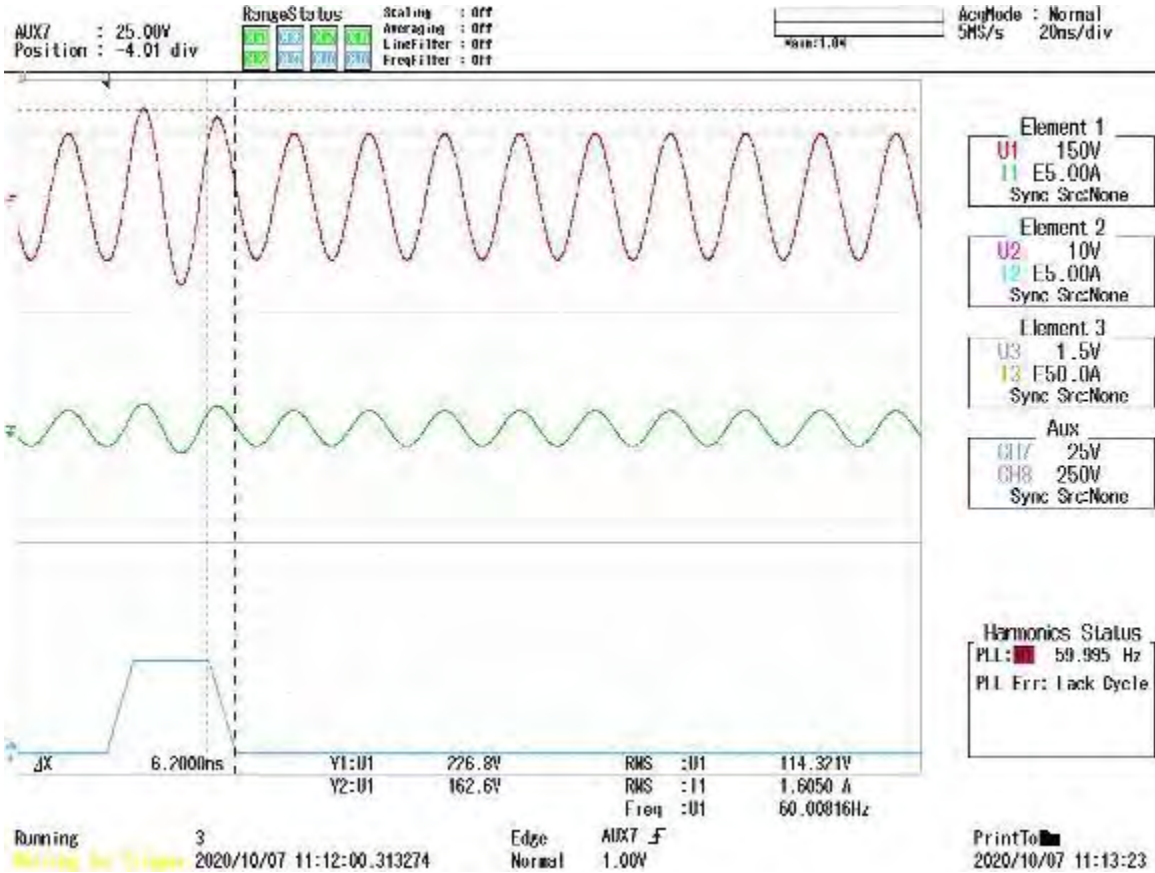


Figure K-10: Condition C, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	15 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

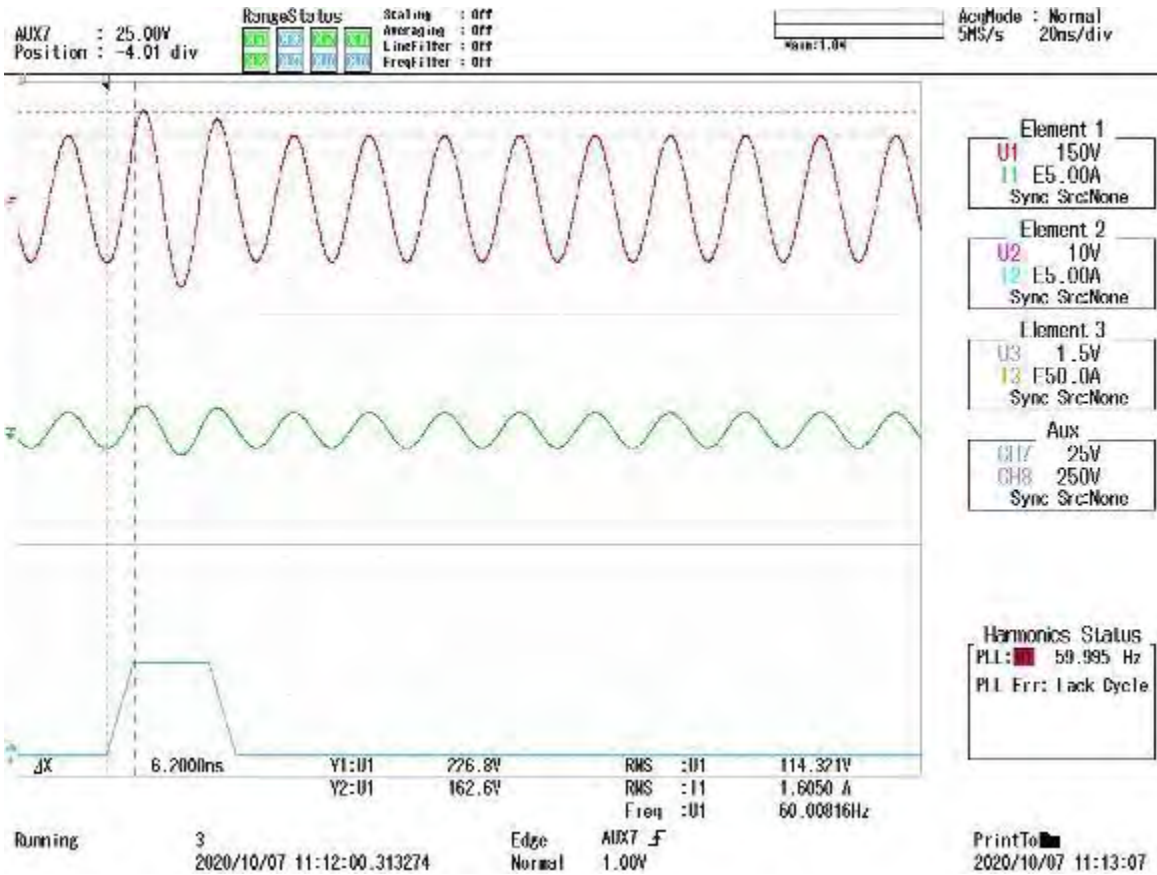


Figure K-11: Condition C, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	16 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

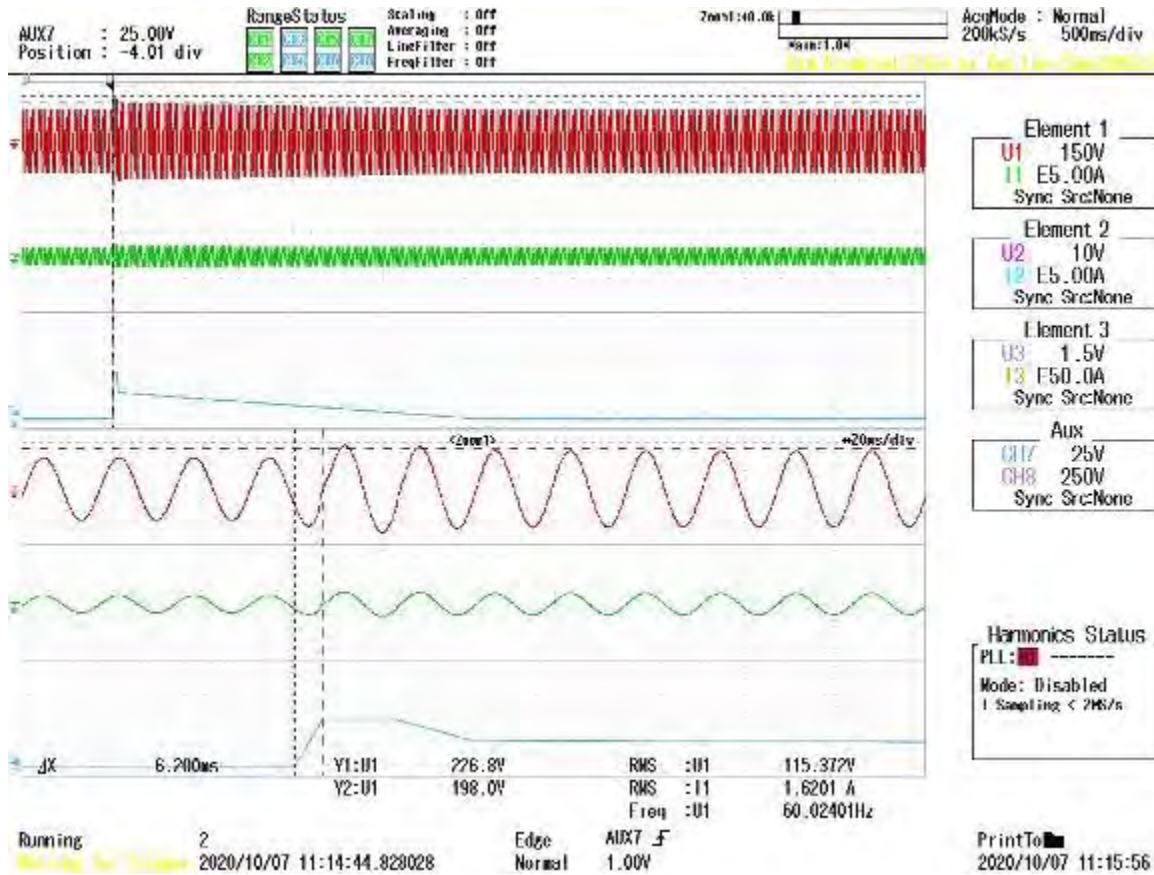


Figure K-12: Condition D, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	17 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

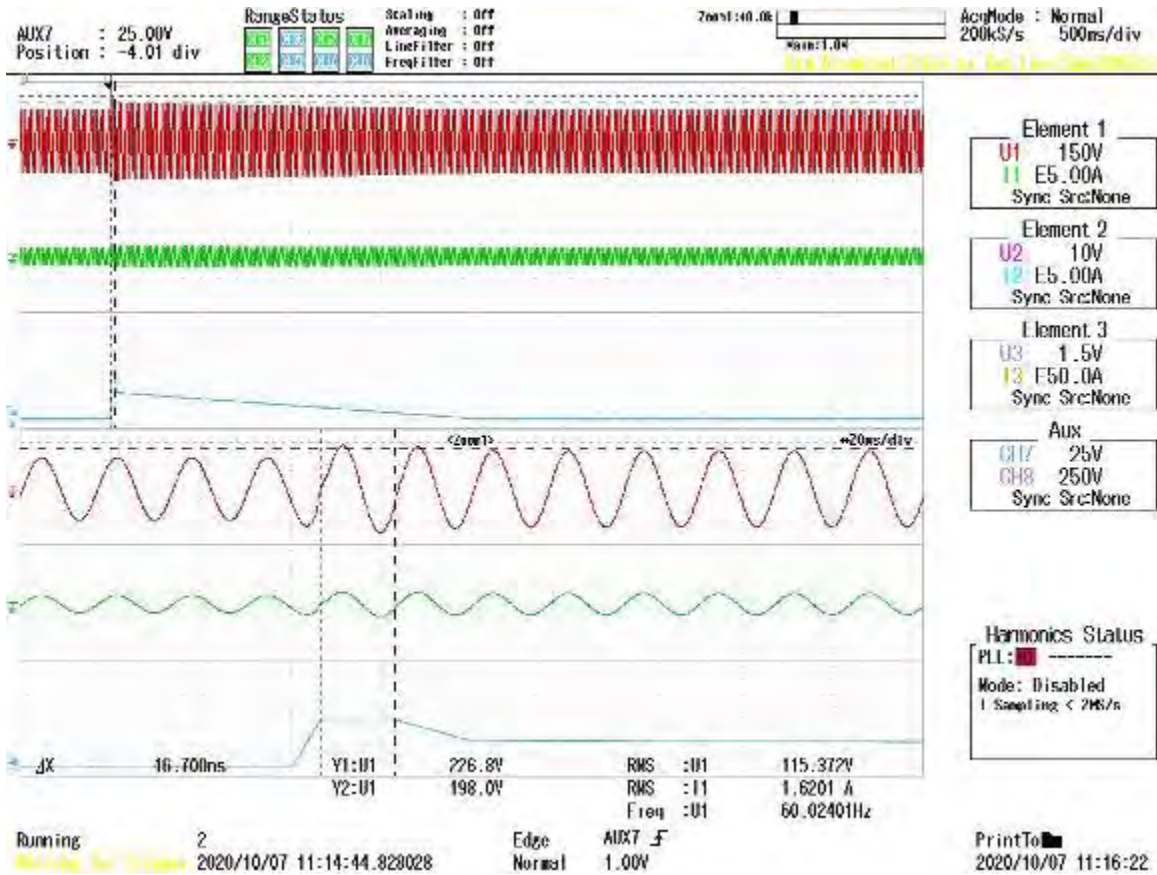


Figure K-13: Condition D, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	18 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

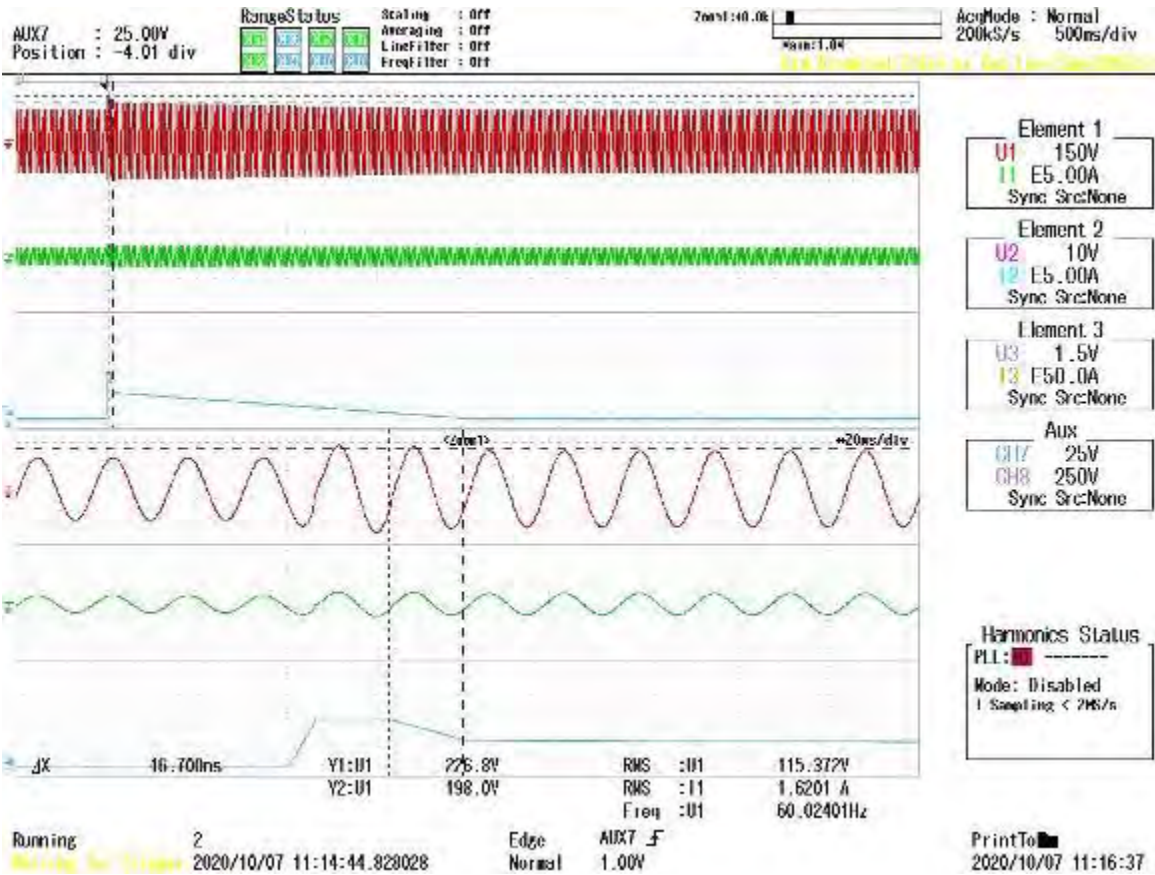


Figure K-14: Condition D, 140 Vac fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	19 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

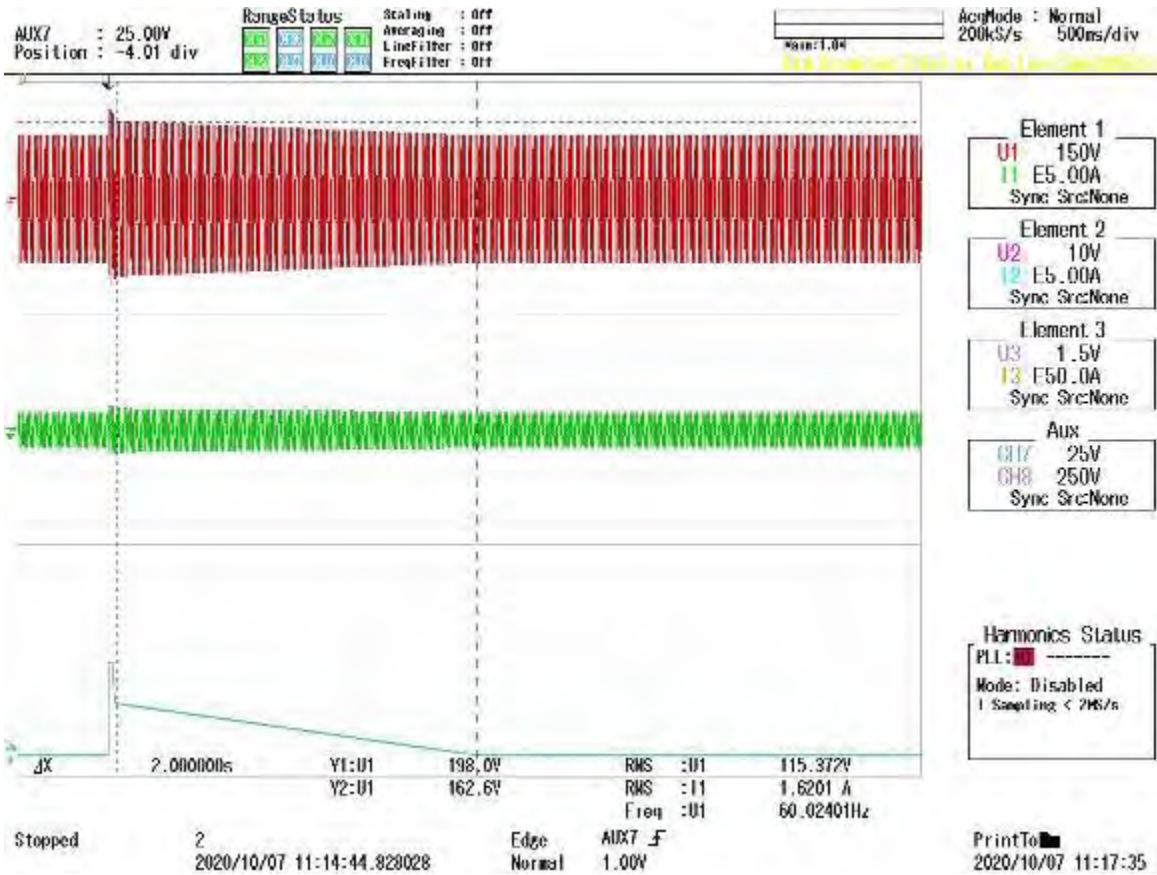


Figure K-15: Condition D, 115 Vac fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	20 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

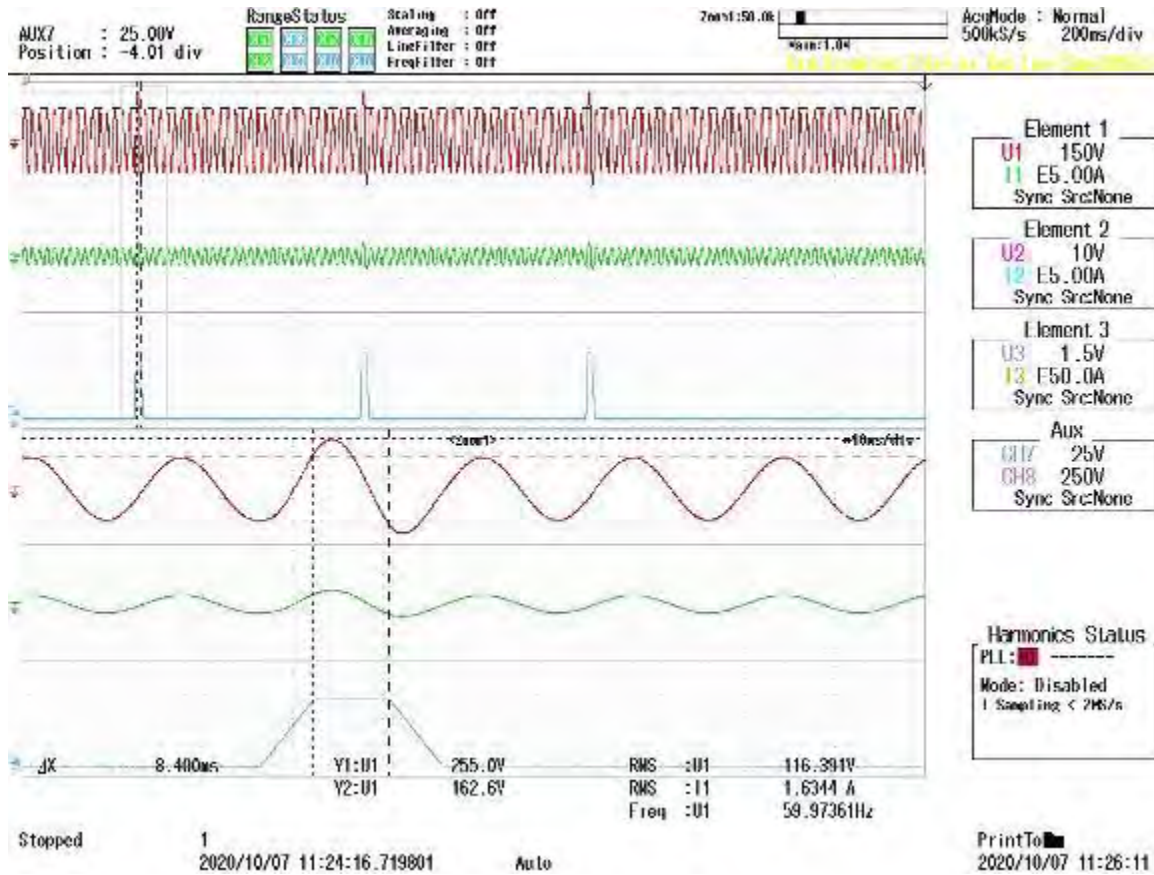


Figure K-16: Condition E, duration

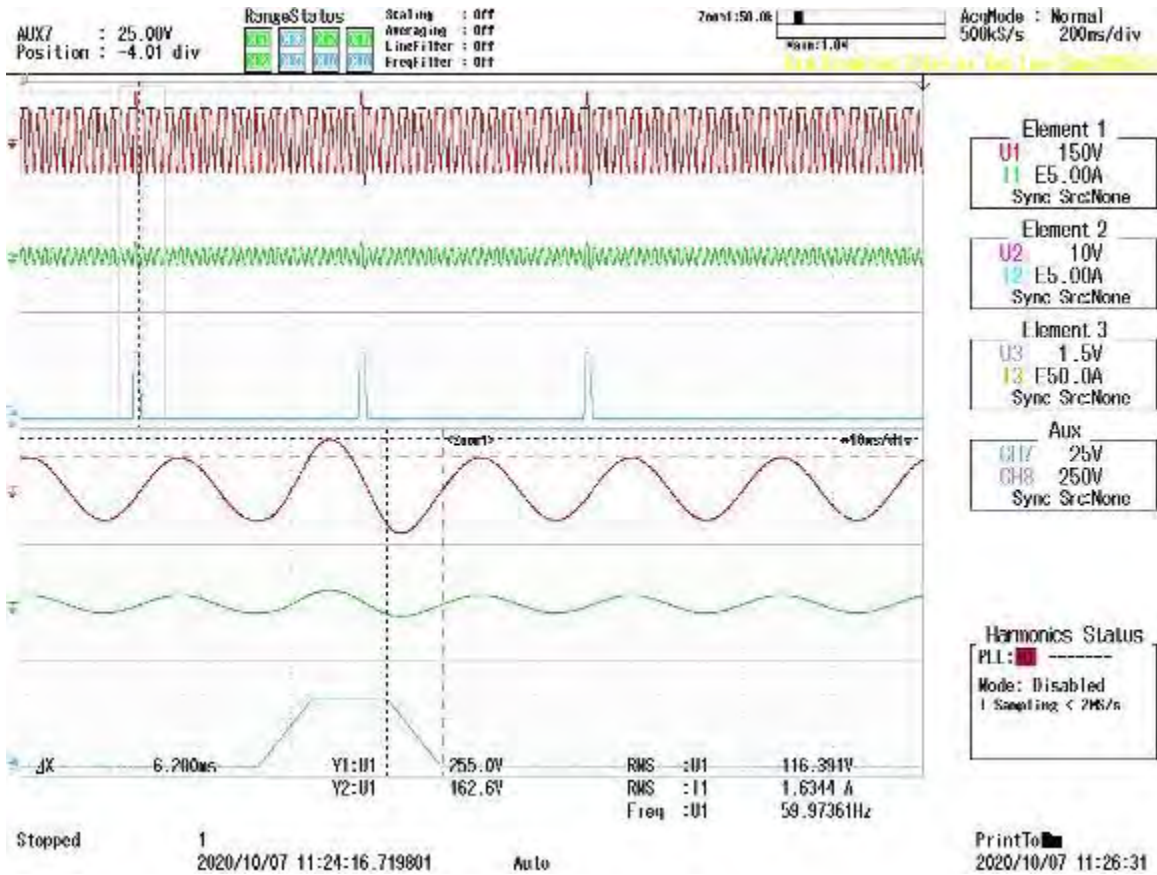
Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	21 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		





Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	22 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

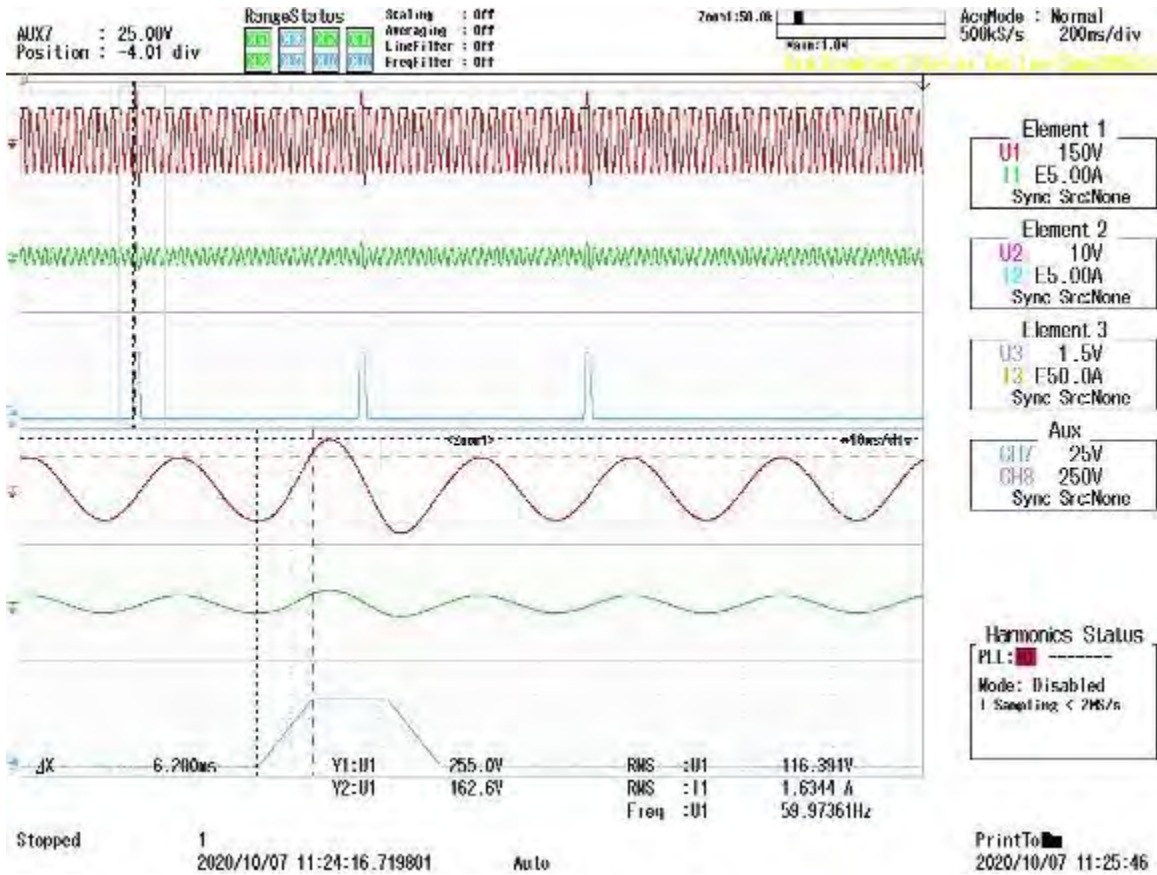


Figure K-18: Condition E, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	23 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

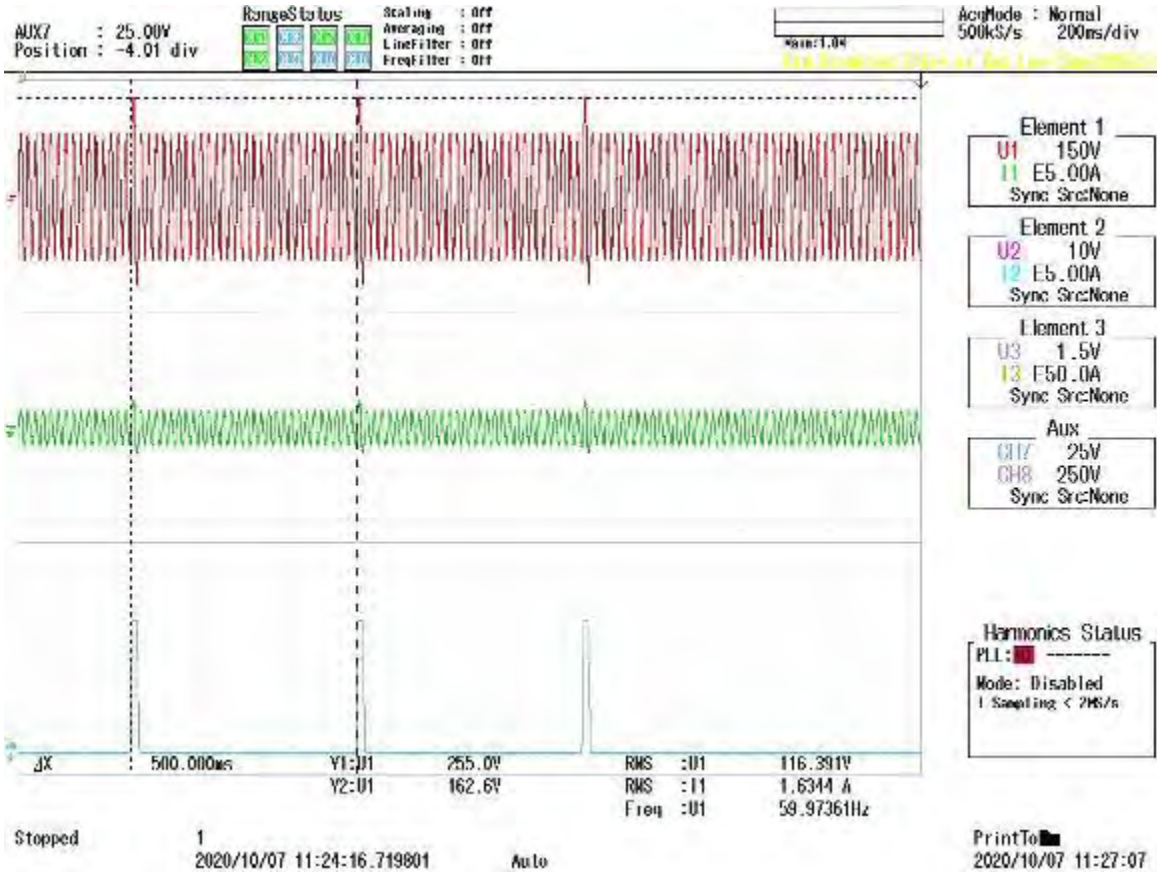


Figure K-19: Condition E, repetition rate

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	24 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

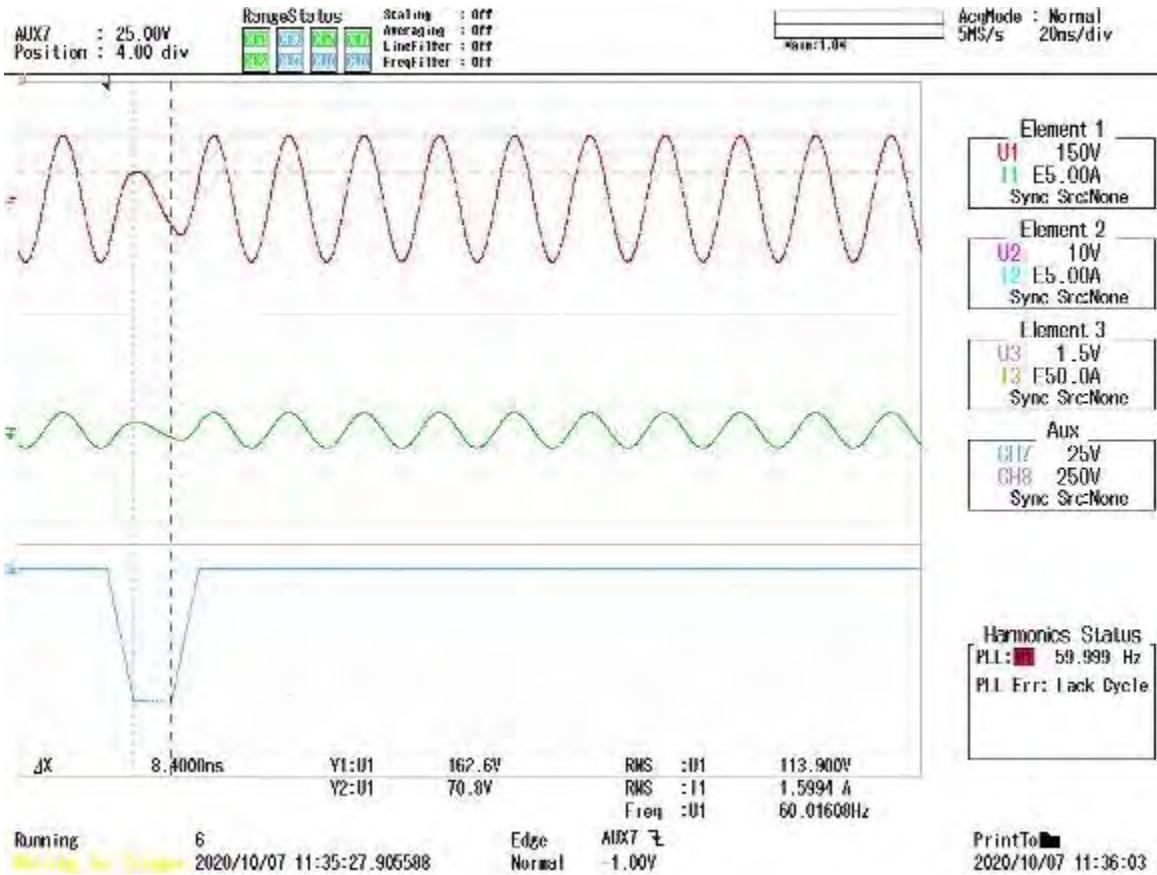


Figure K-20: Condition F, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	25 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

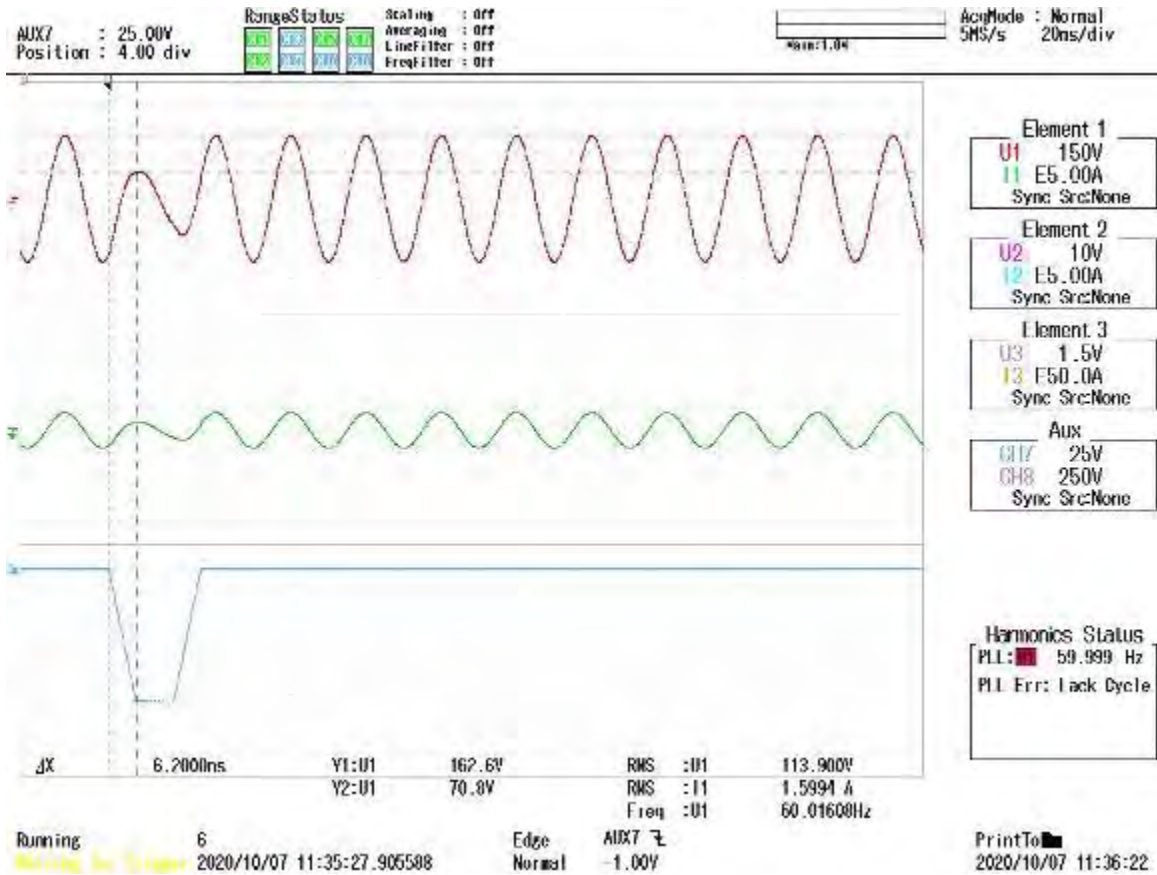


Figure K-21: Condition F, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	26 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

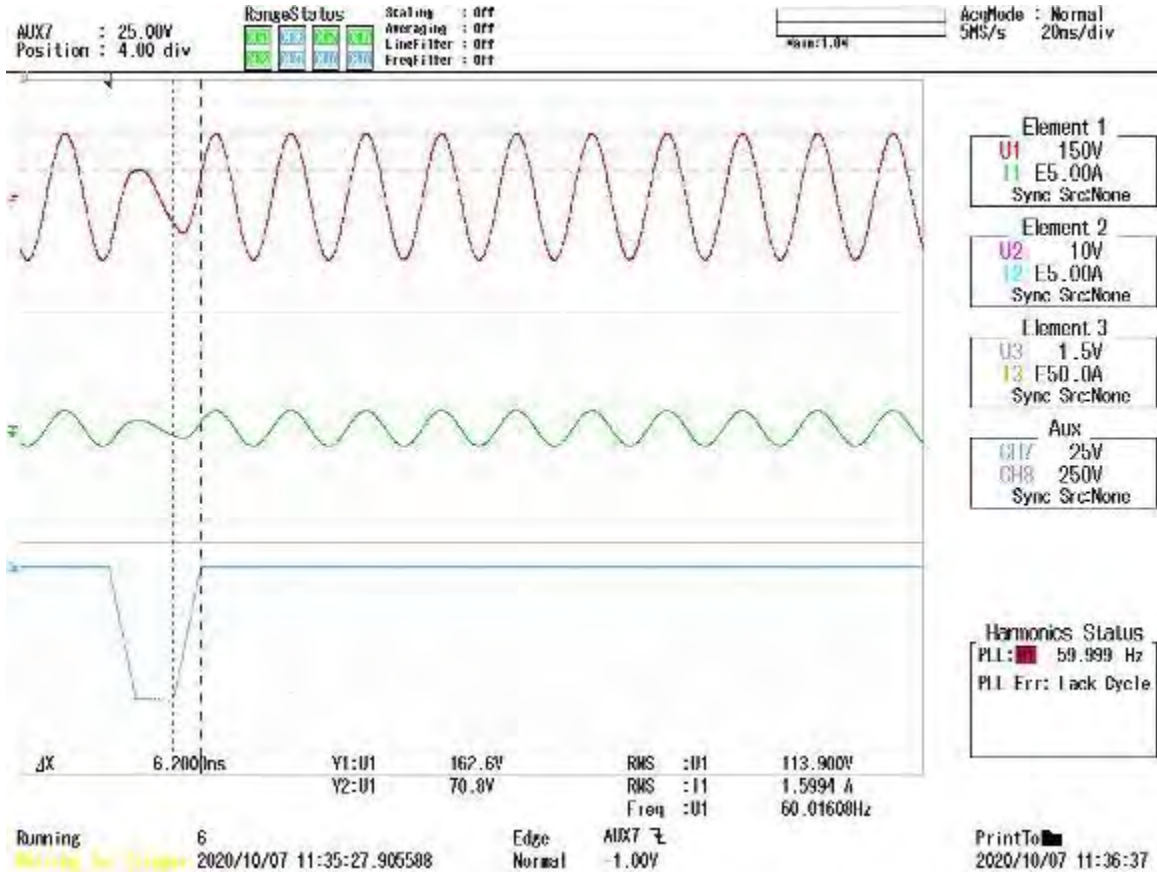


Figure K-22: Condition F, rise time

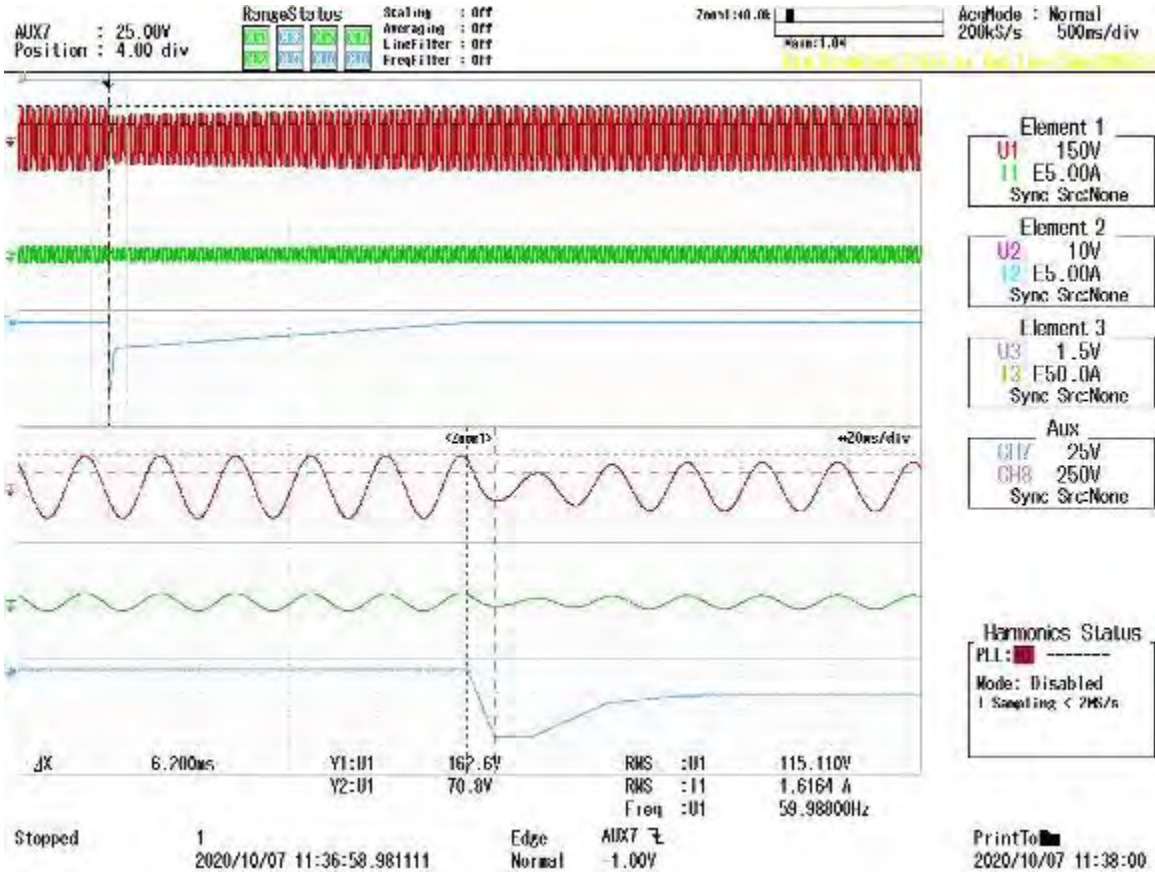
Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	27 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		





Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	28 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

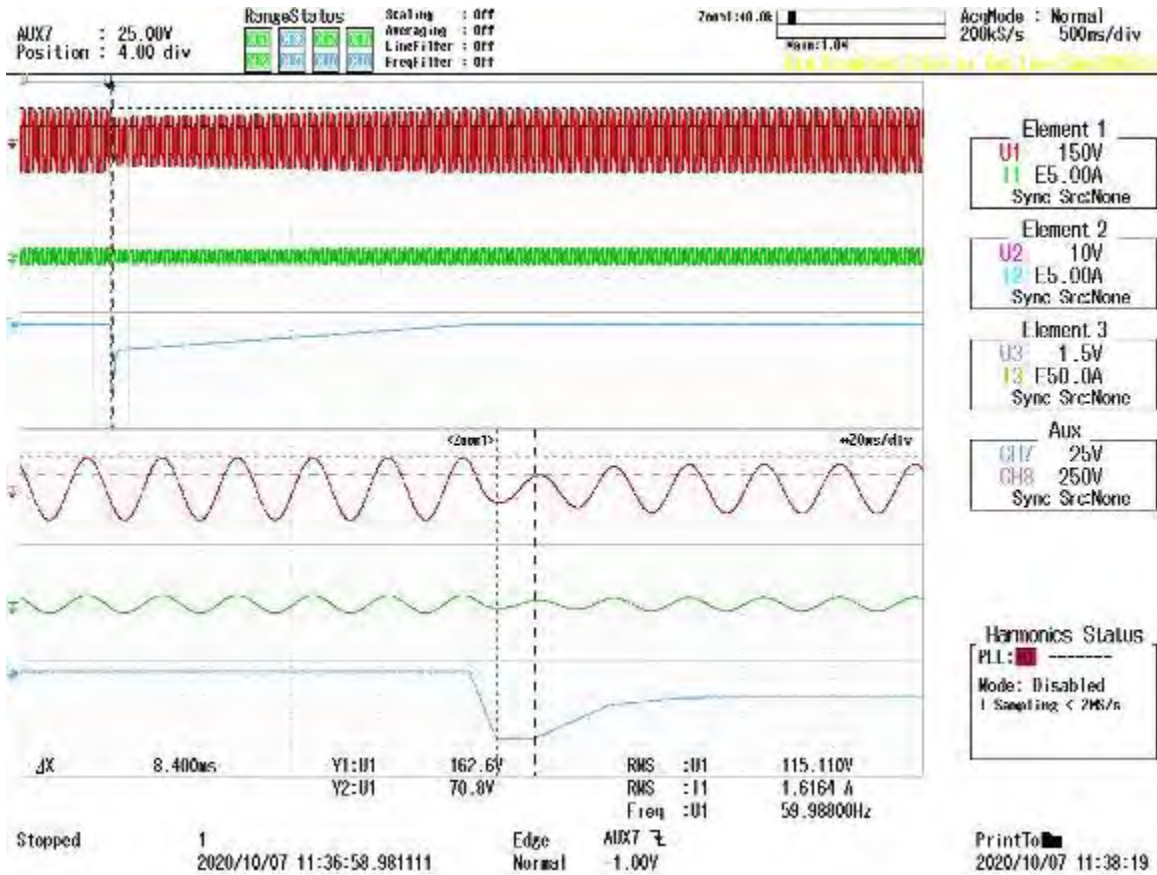


Figure K-24: Condition G, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	29 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

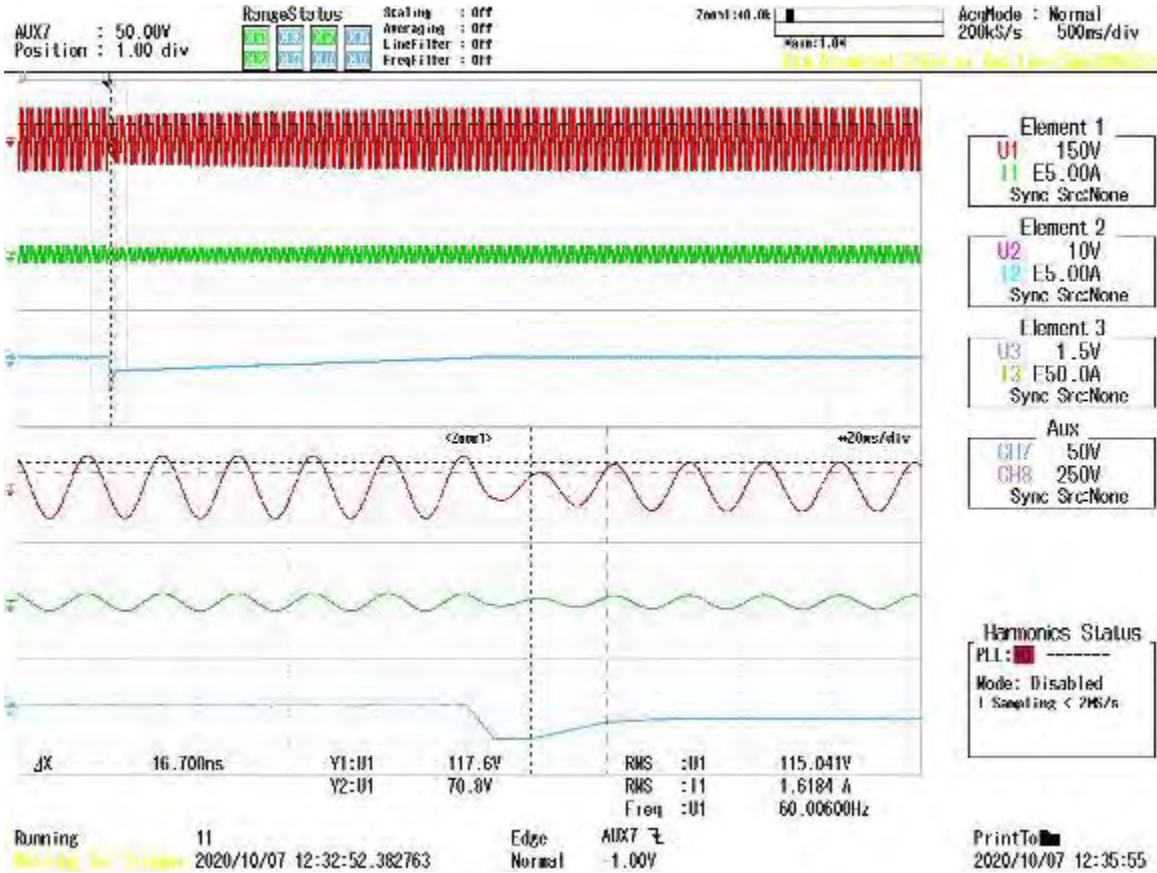


Figure K-25: Condition G, 83 Vac rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	30 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

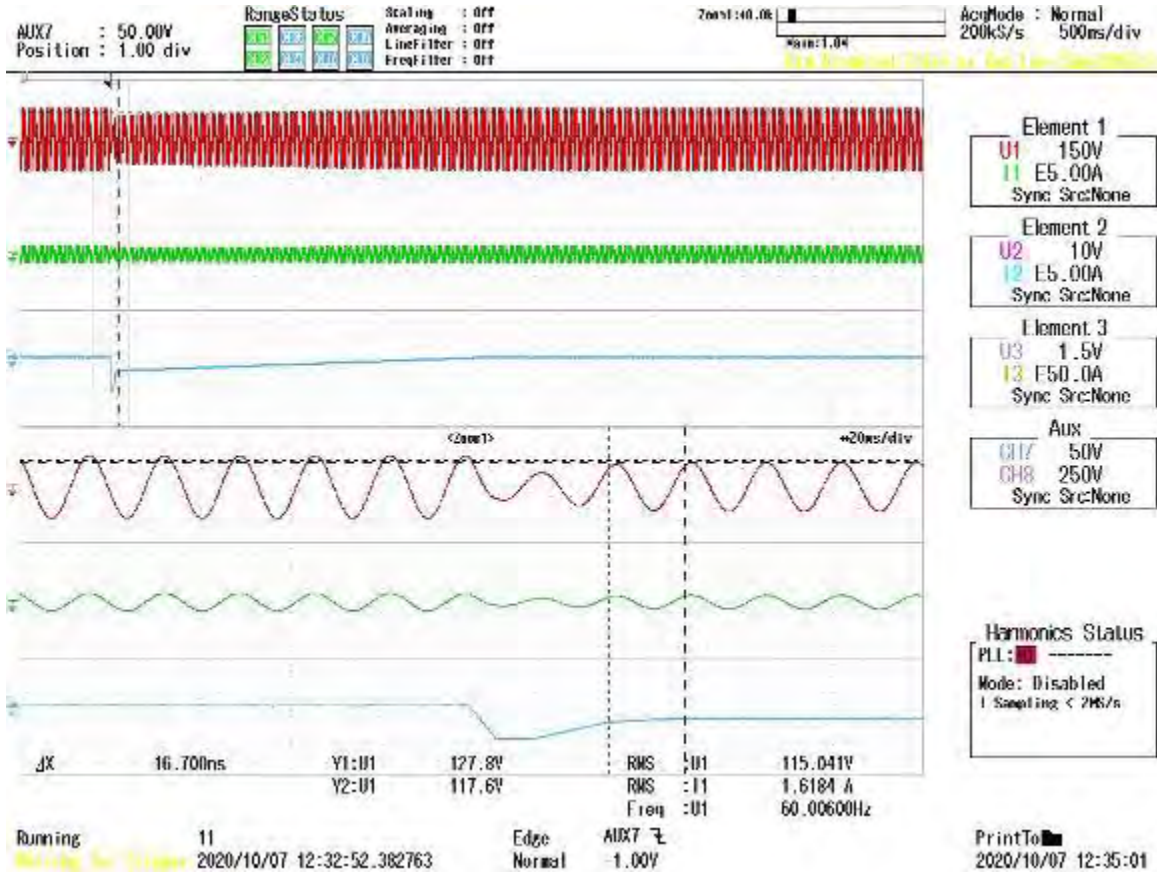


Figure K-26: Condition G, 90 Vac rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	31 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

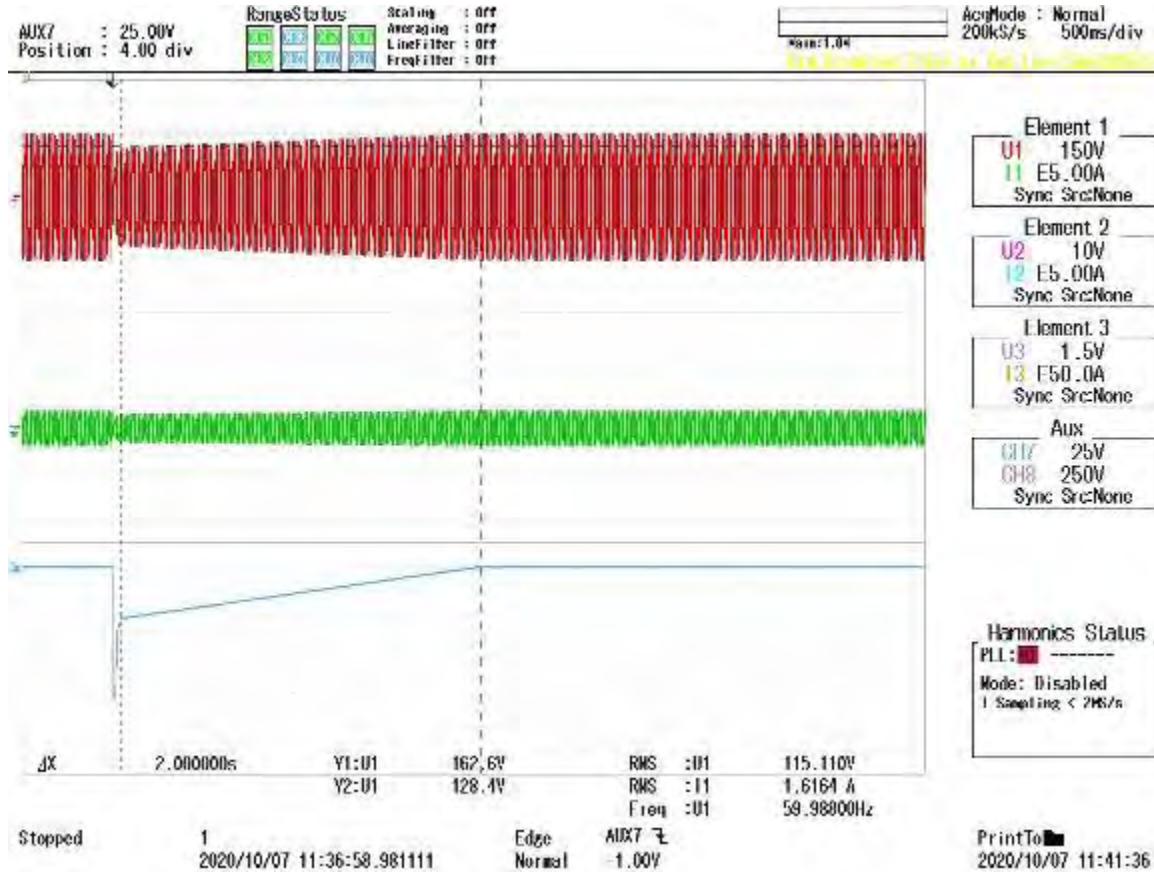


Figure K-27: Condition G, 115 Vac rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	32 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

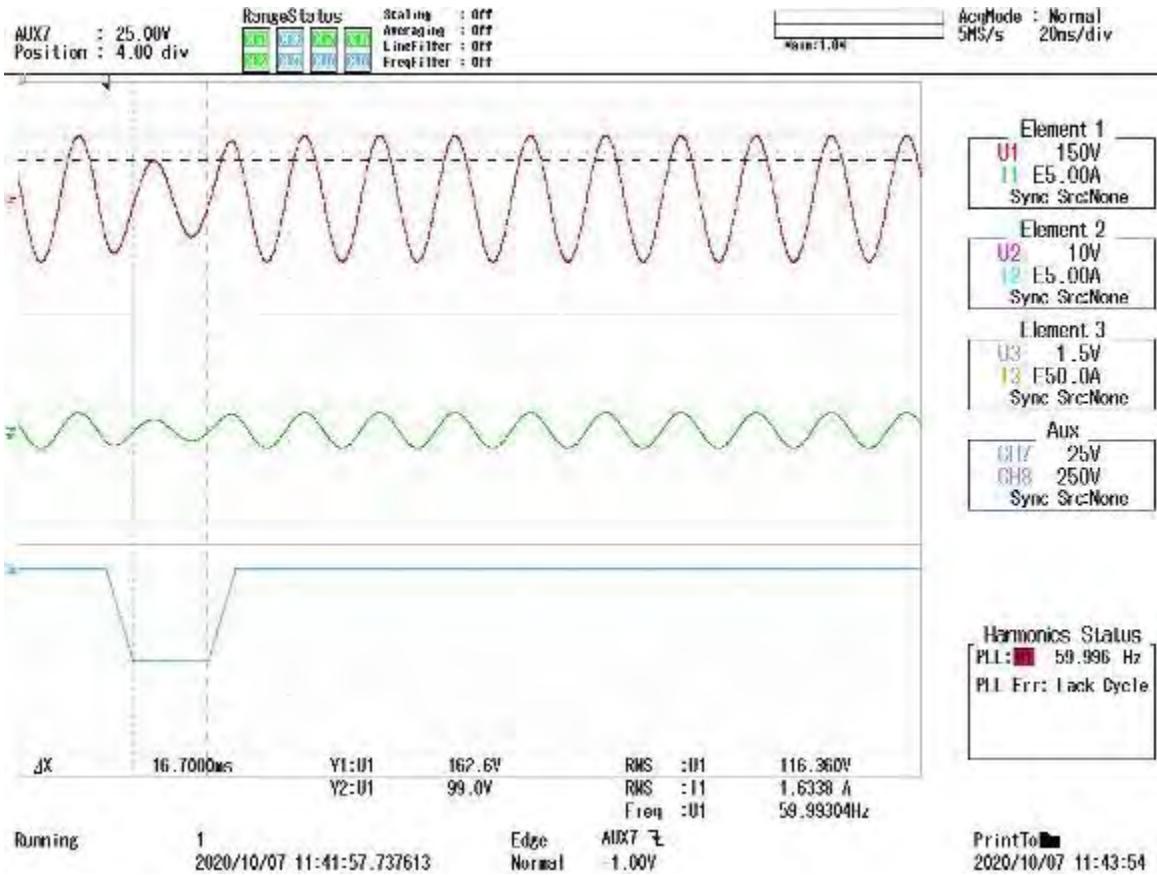


Figure K-28: Condition H, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	33 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

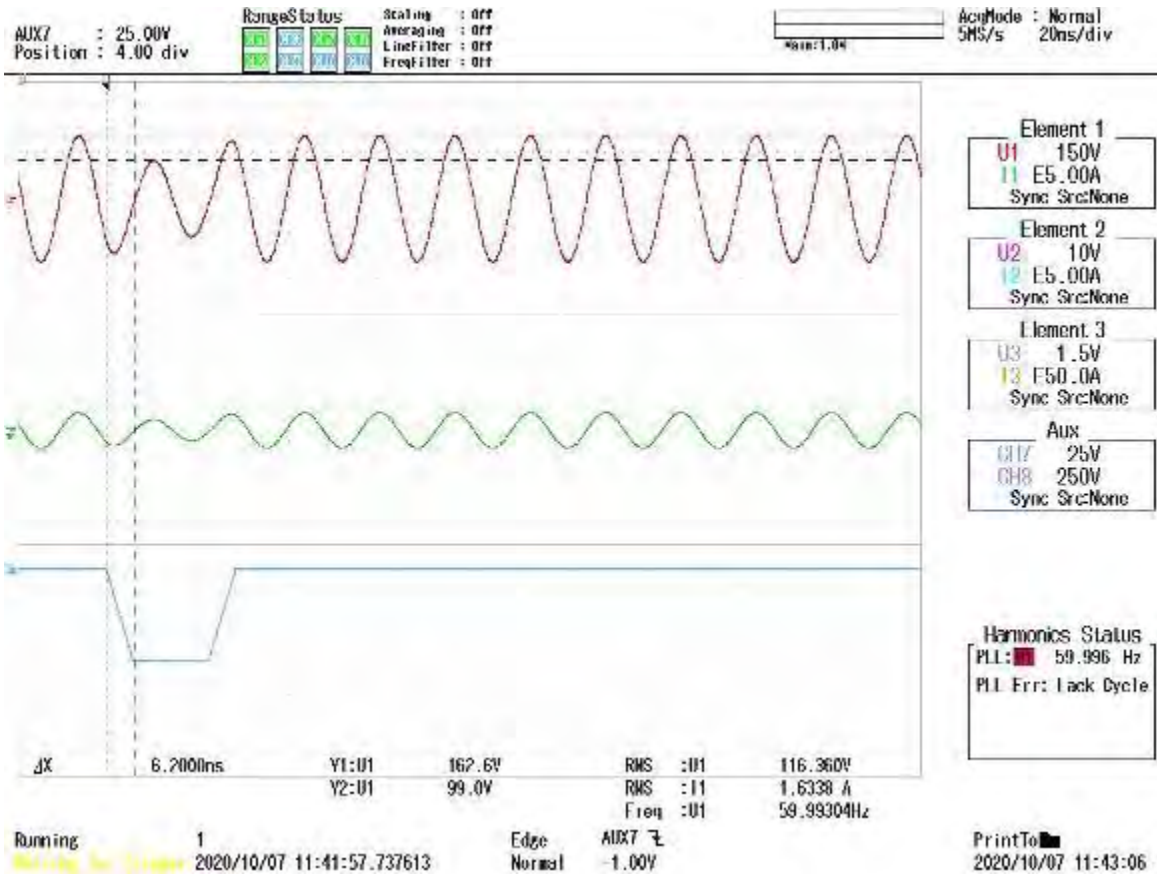


Figure K-29: Condition H, fall

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	34 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

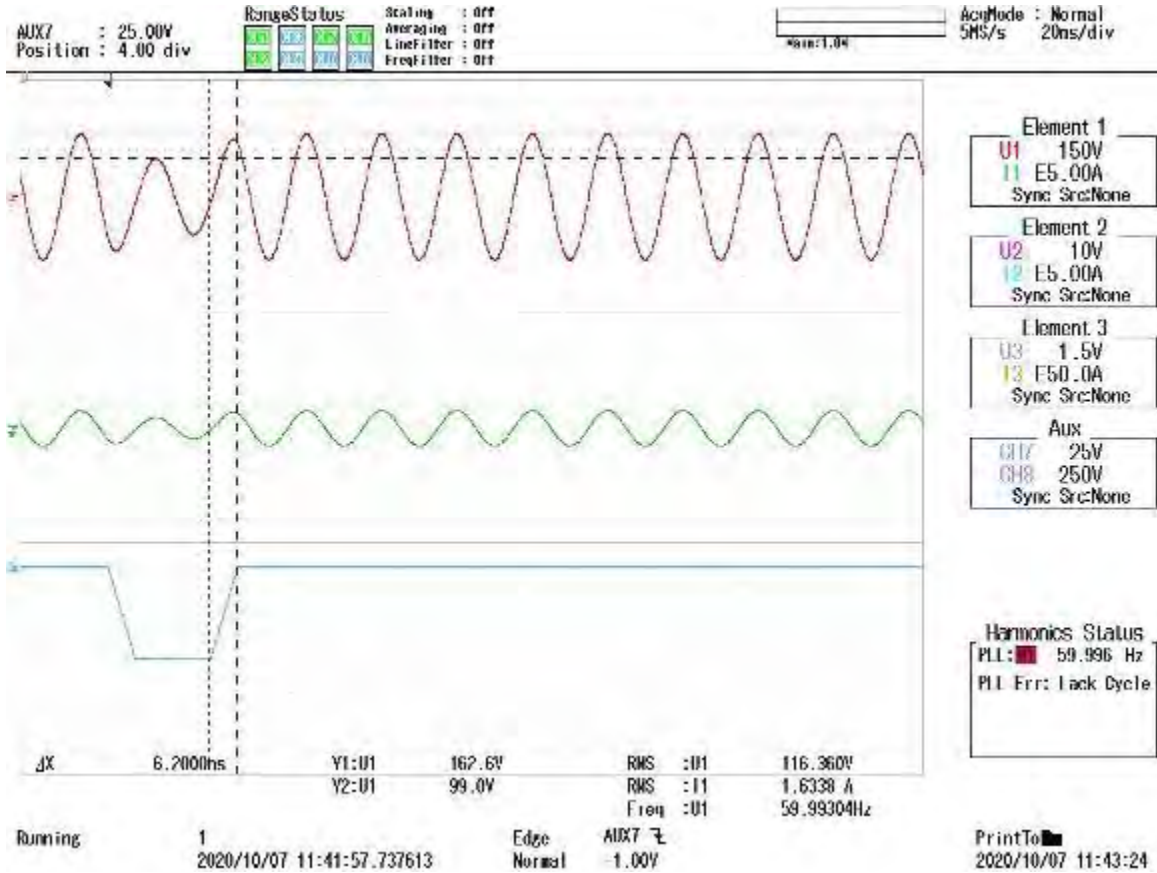


Figure K-30: Condition H, rise

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	35 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

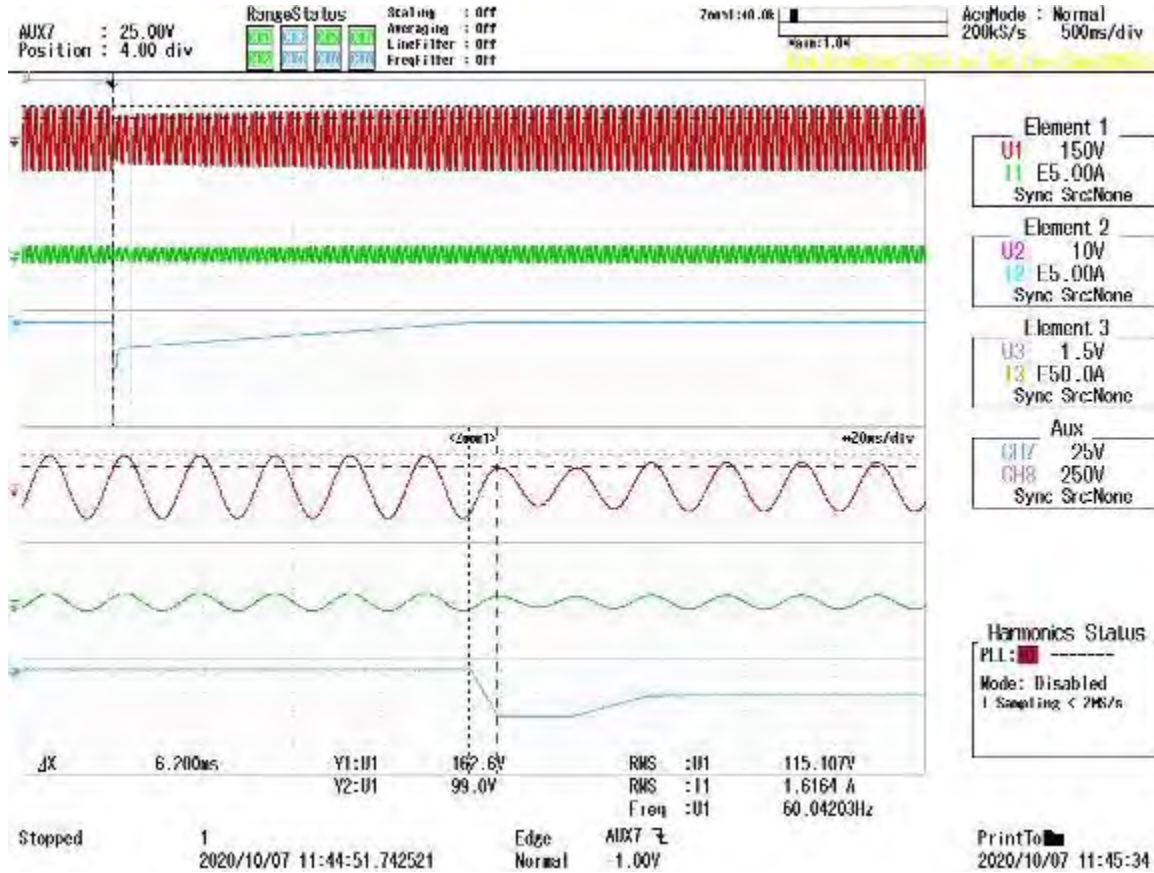


Figure K-31: Condition I, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	36 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

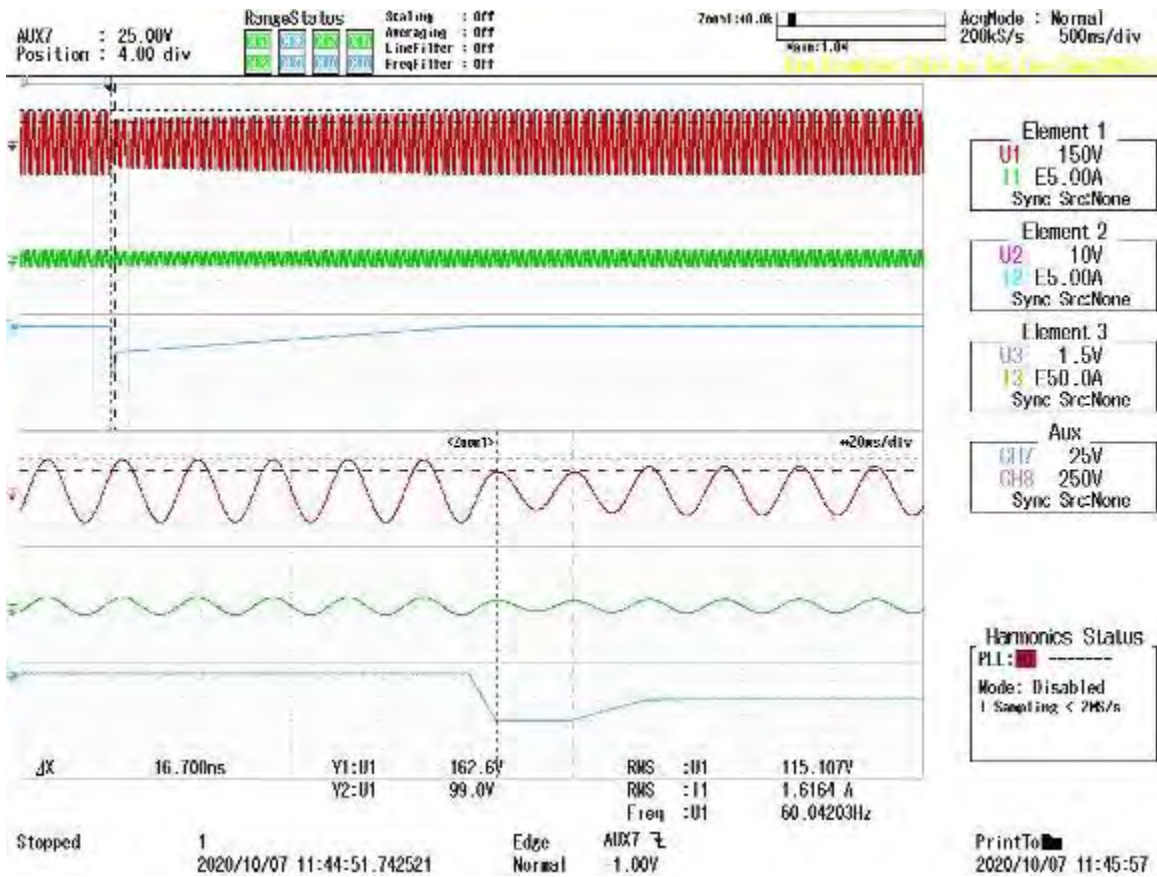


Figure K-32: Condition I, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	37 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

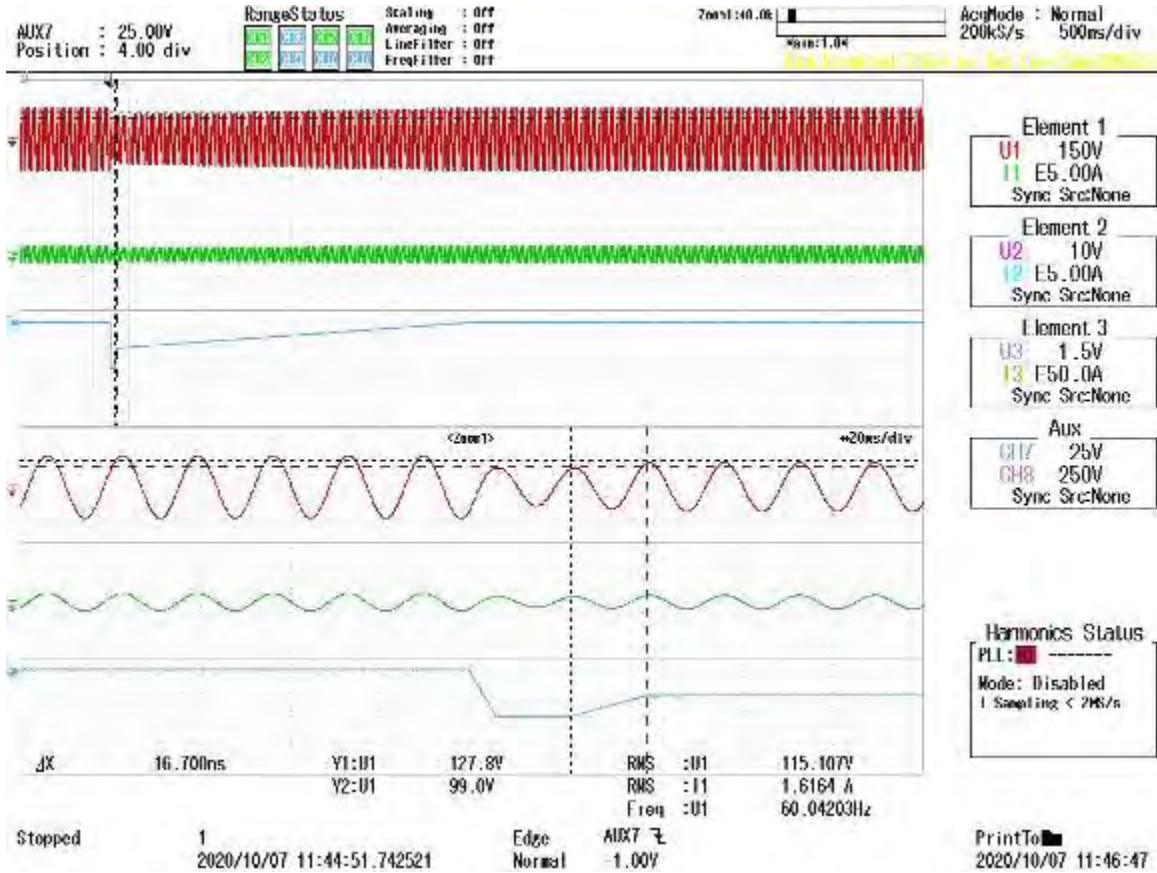


Figure K-33: Condition I, 90 Vac rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	38 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

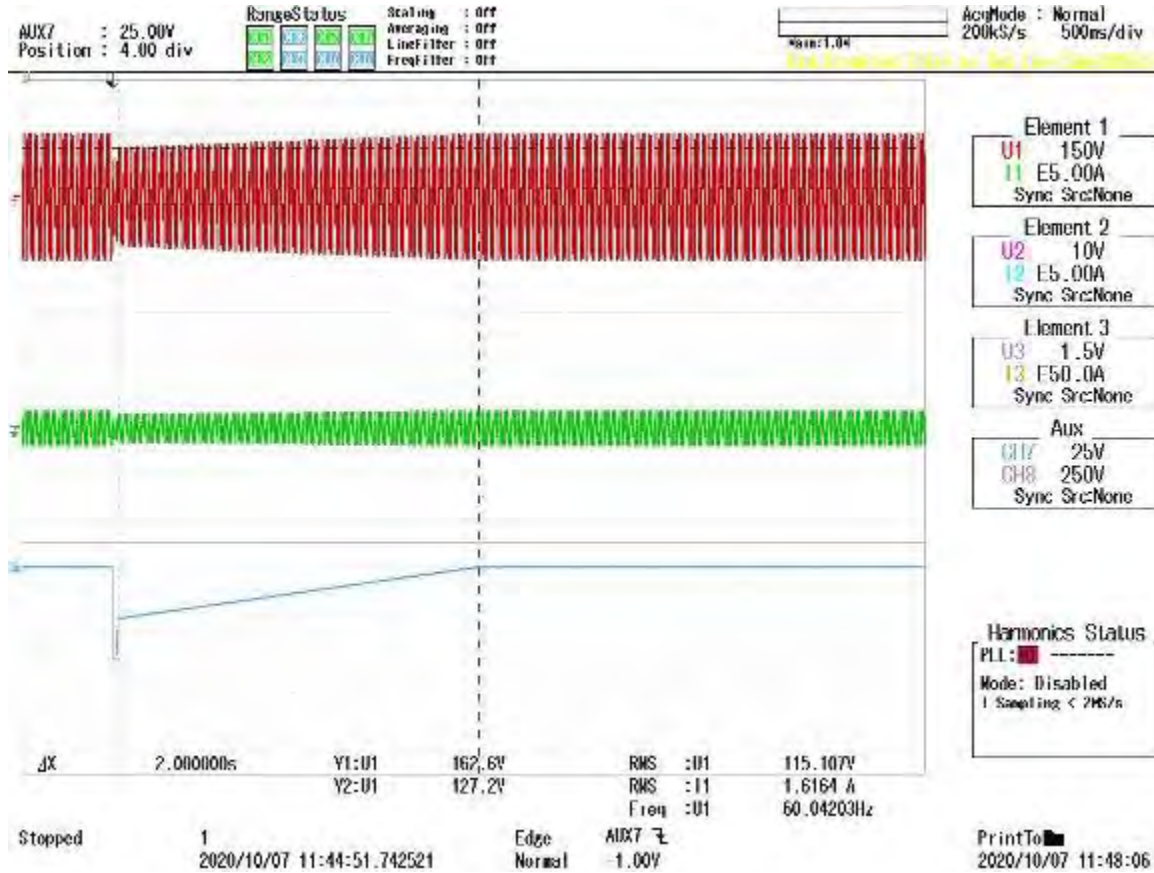


Figure K-34: Condition I, 115 Vac rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	39 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

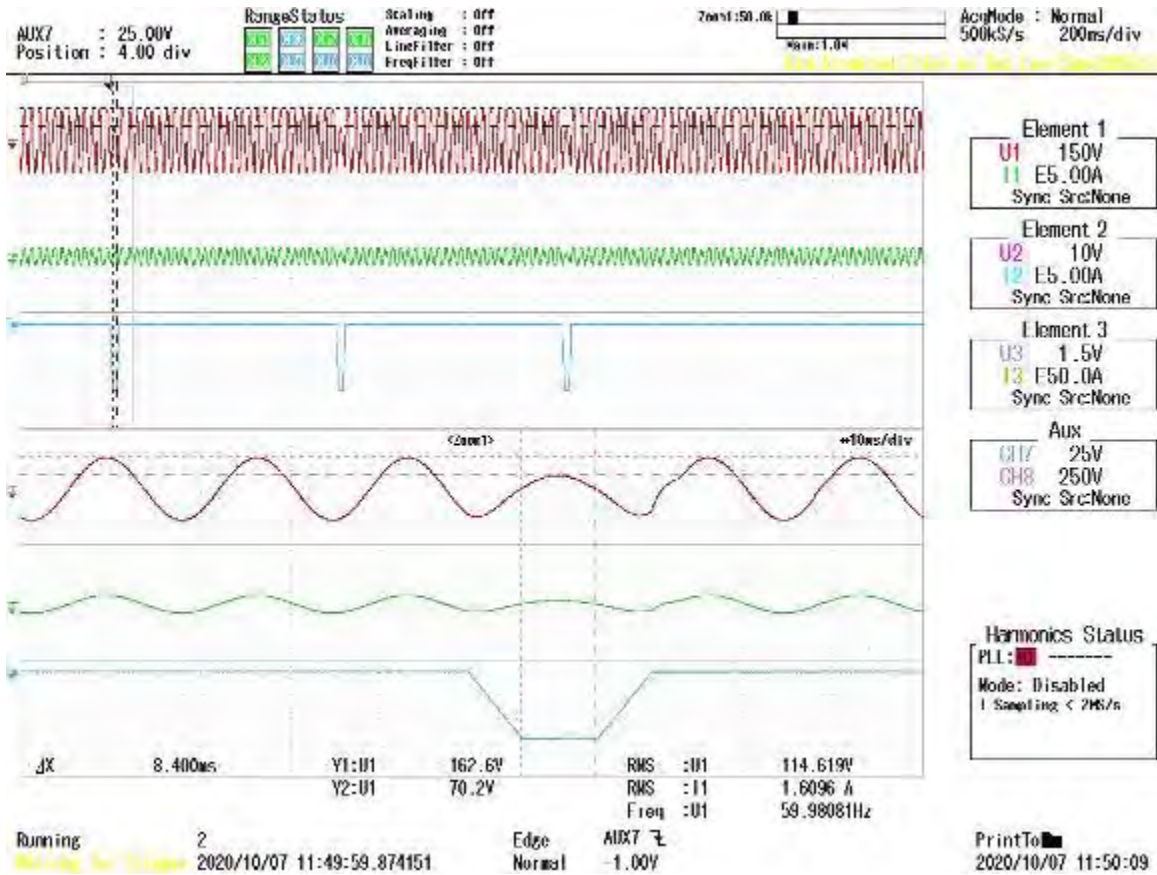


Figure K-35: Condition J, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	40 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

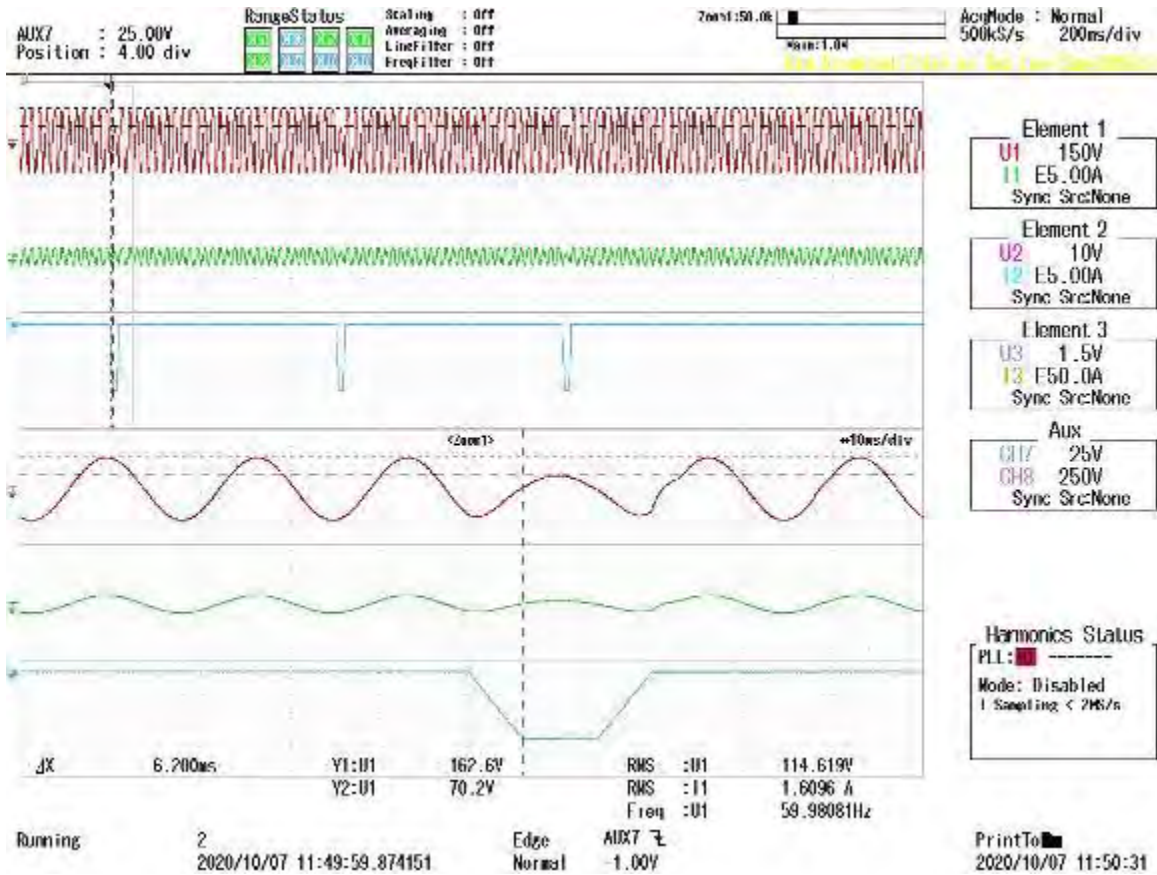
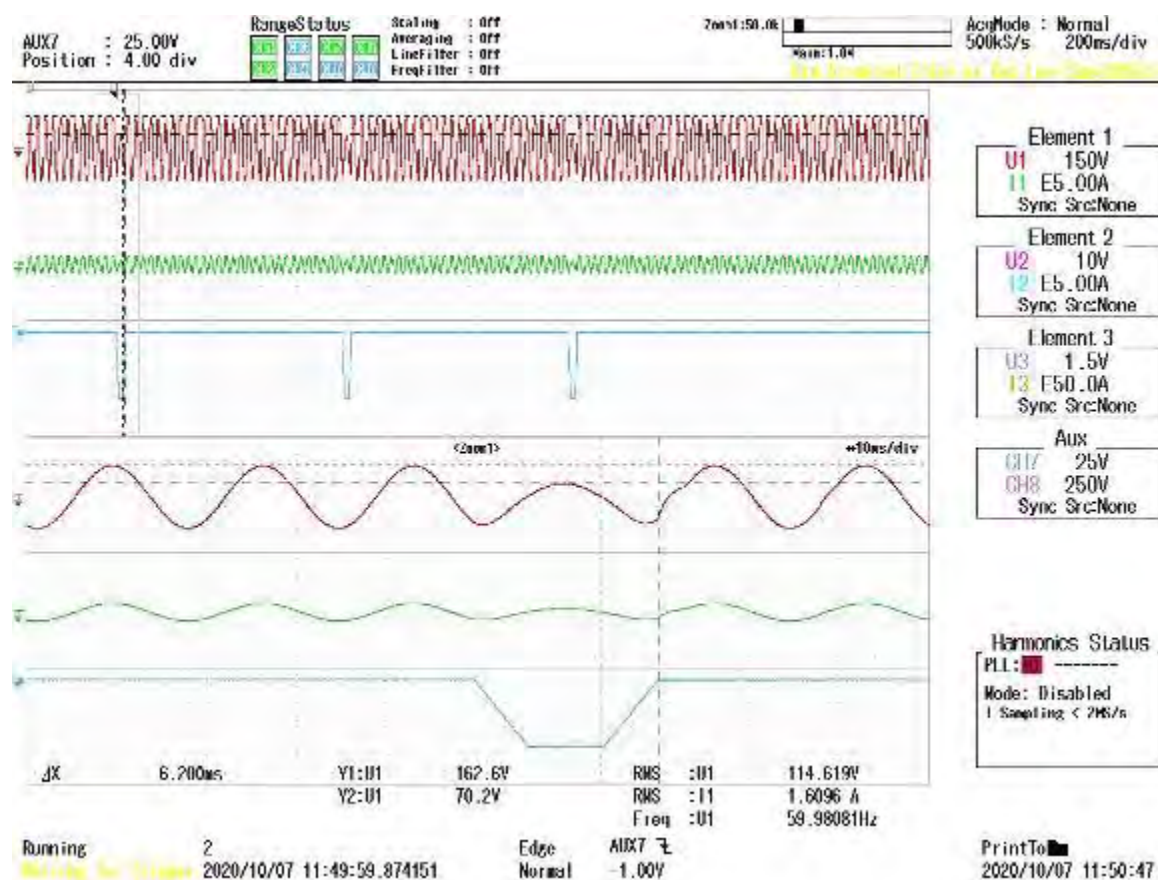


Figure K-36: Condition J, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	41 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	42 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

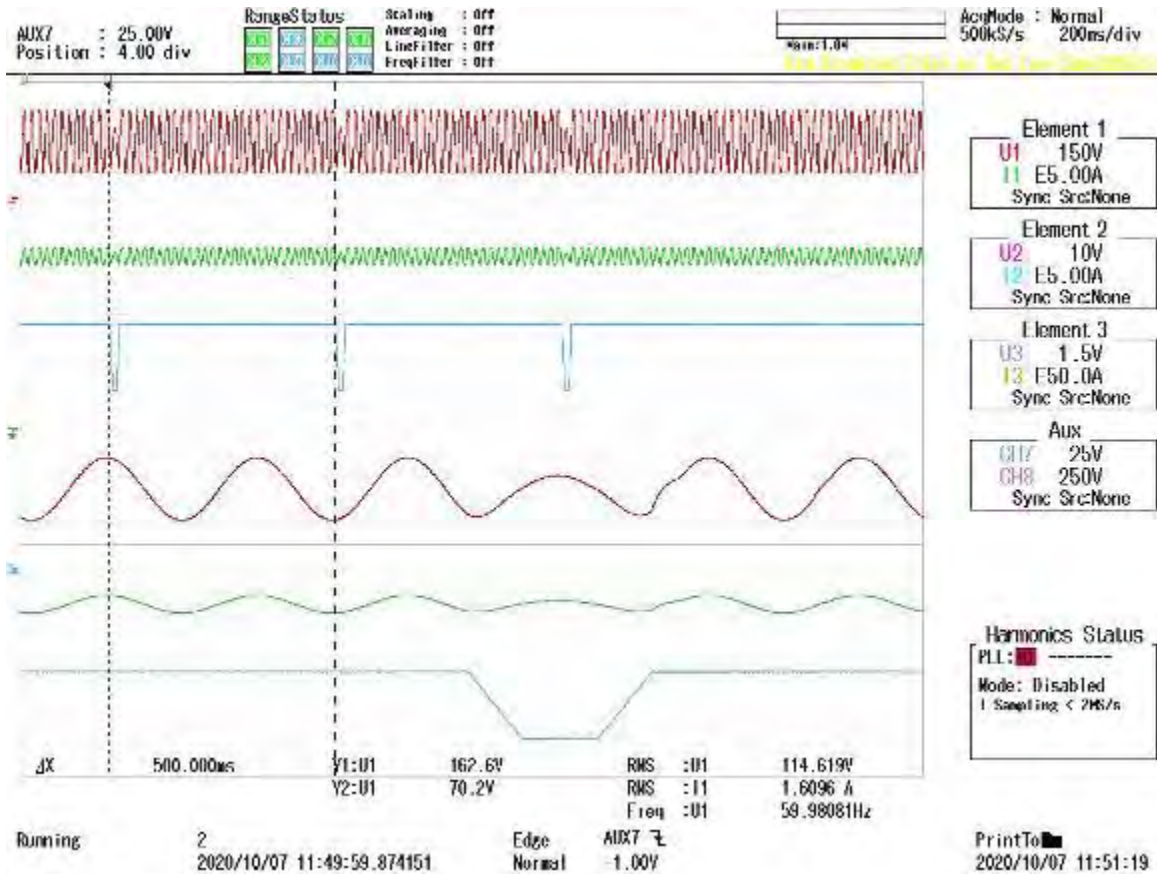


Figure K-38: Condition J, repetition rate

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	43 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

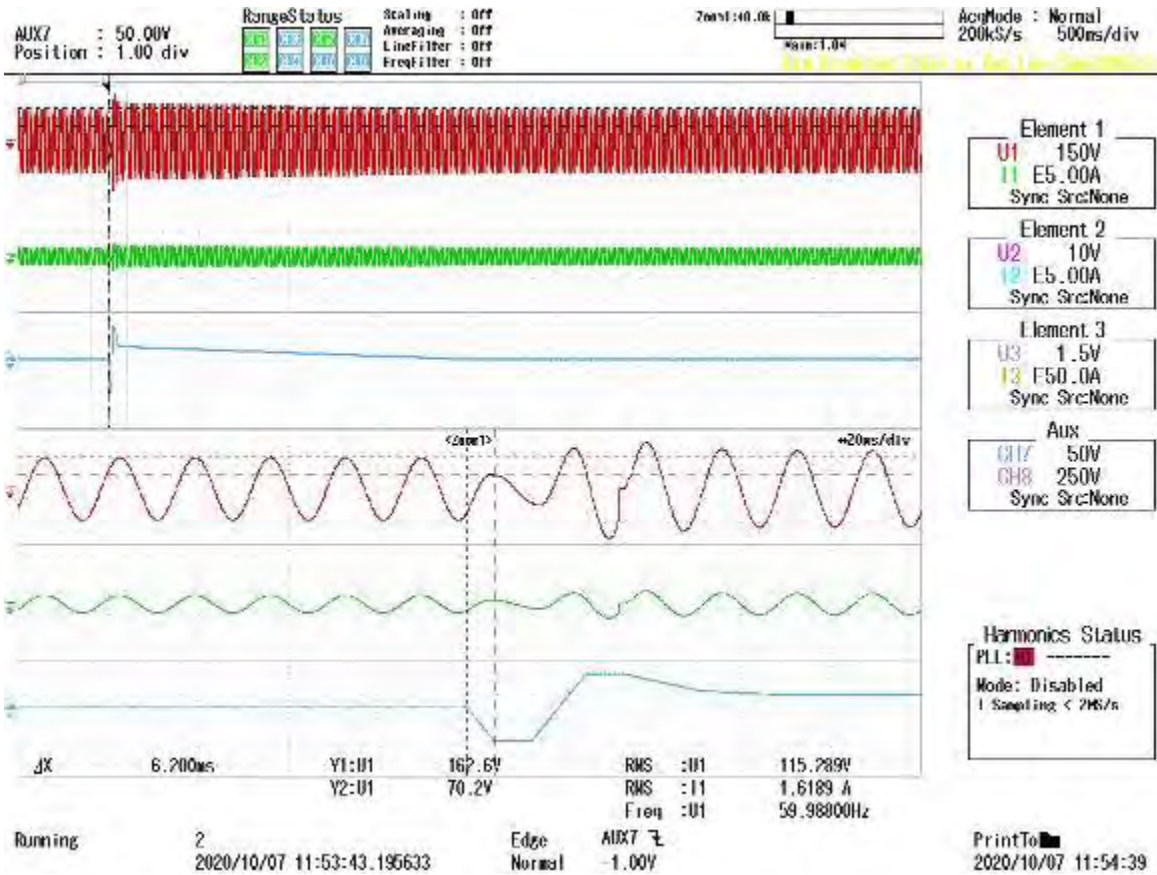


Figure K-39: Condition K, 50 Vac fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	44 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

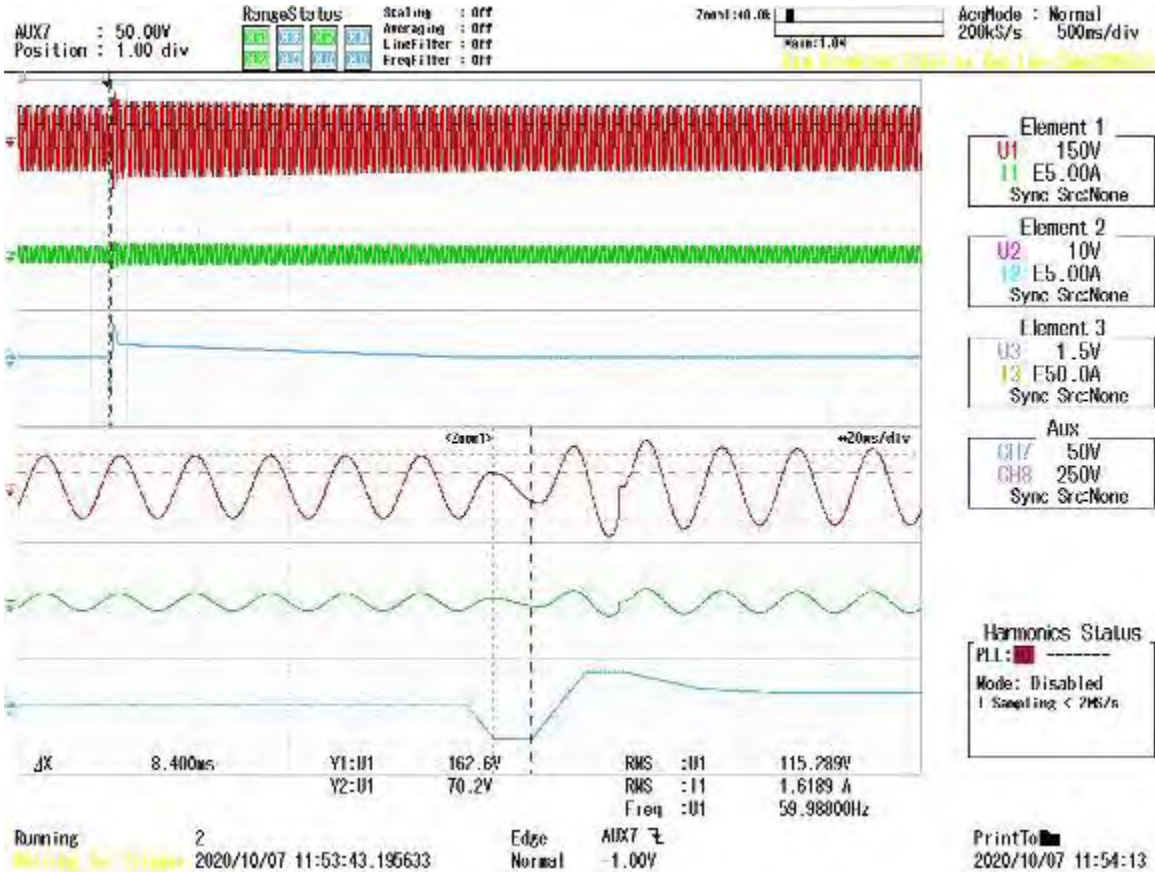


Figure K-40: Condition K, 50 Vac duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	45 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

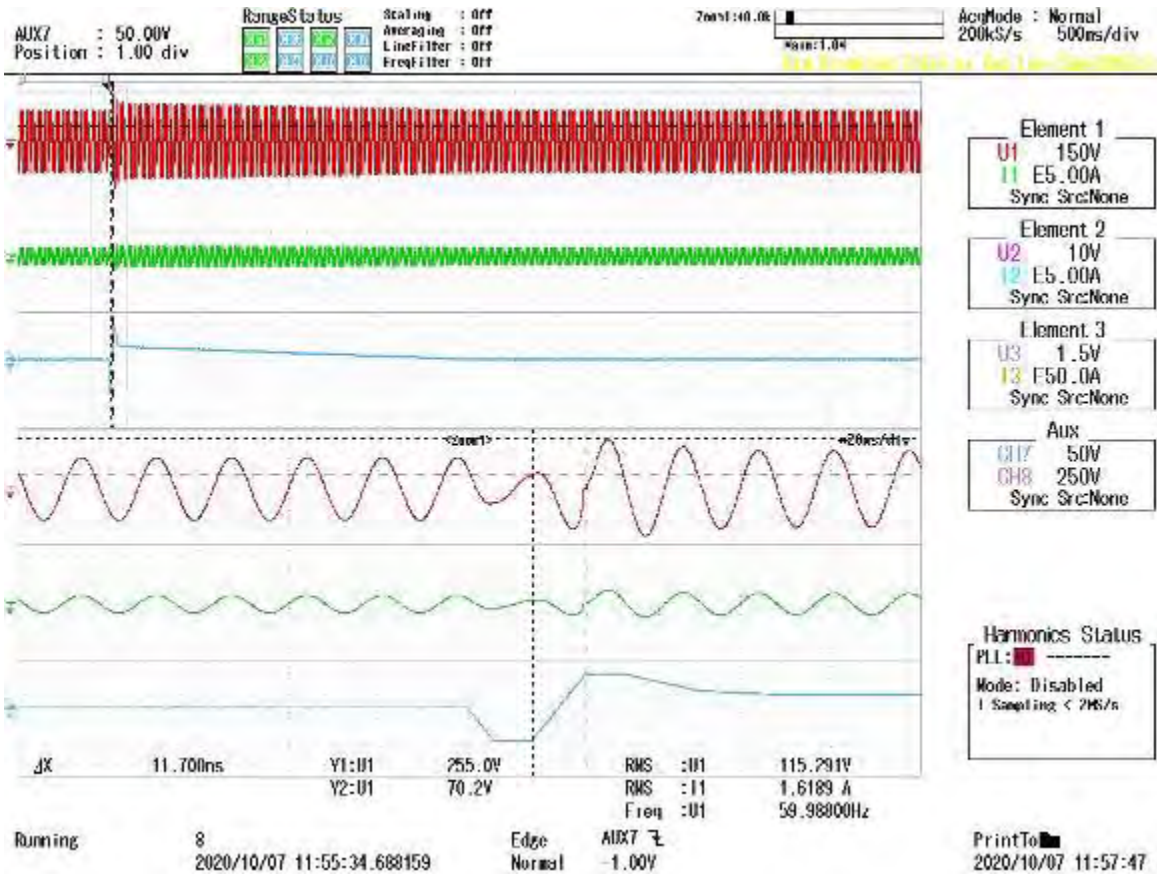


Figure K-41: Condition K, 180 Vac rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	46 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

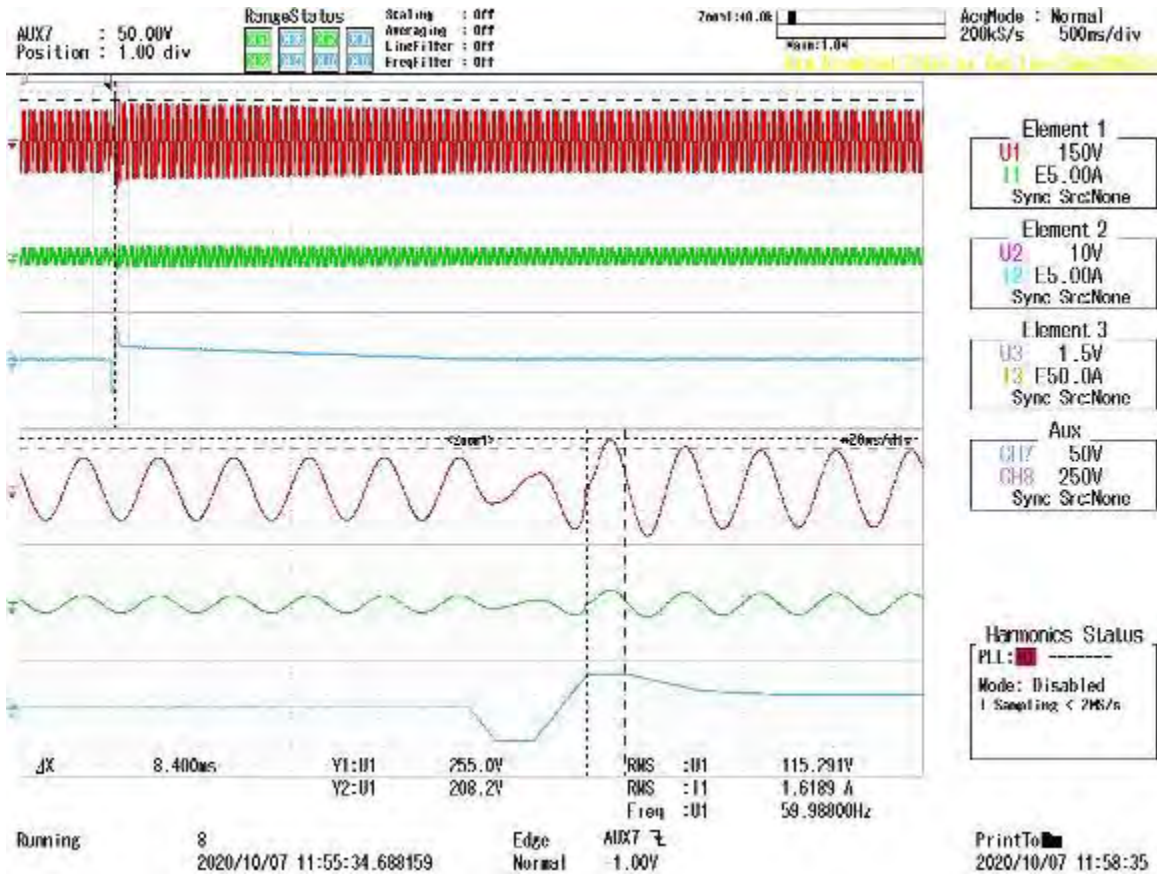


Figure K-42: Condition K, 180 Vac duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	47 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

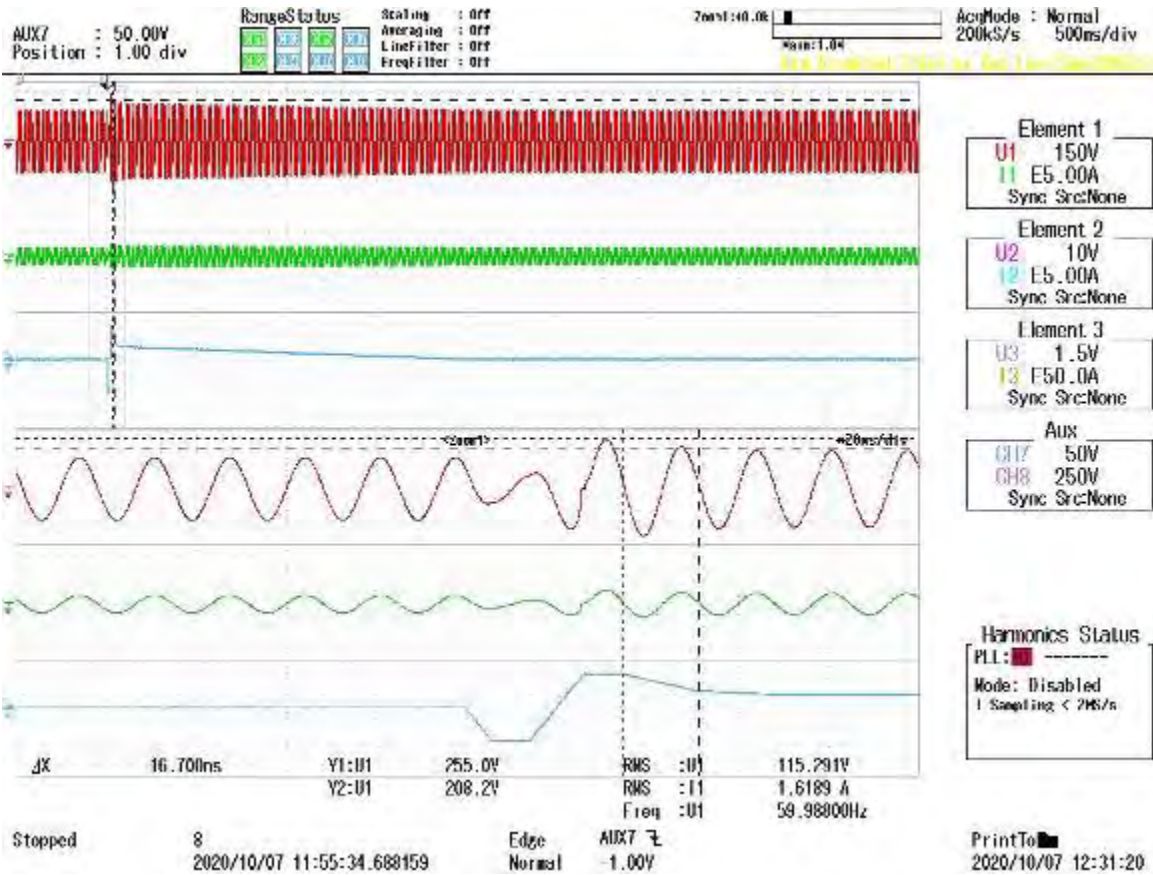


Figure K-43: Condition K, 147 Vac fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	48 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

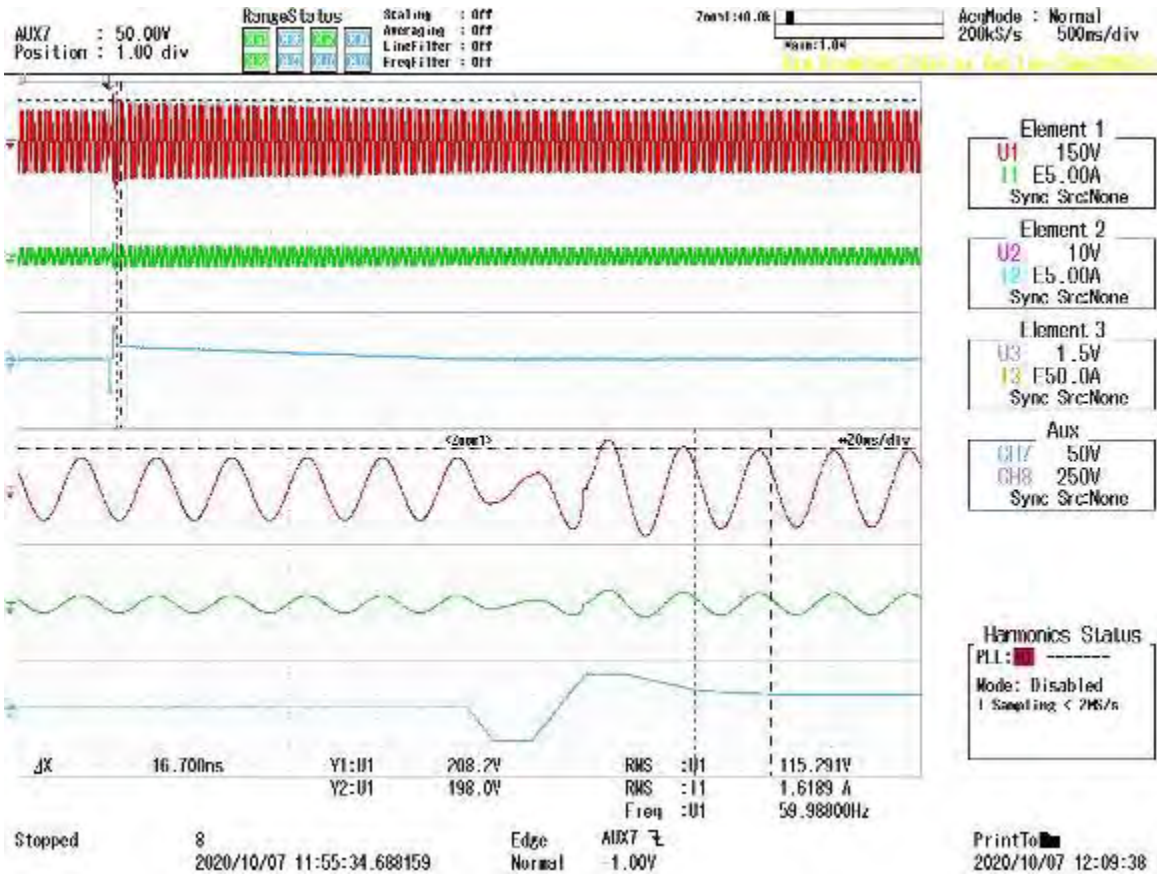


Figure K-44: Condition K, 140 Vac fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	49 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

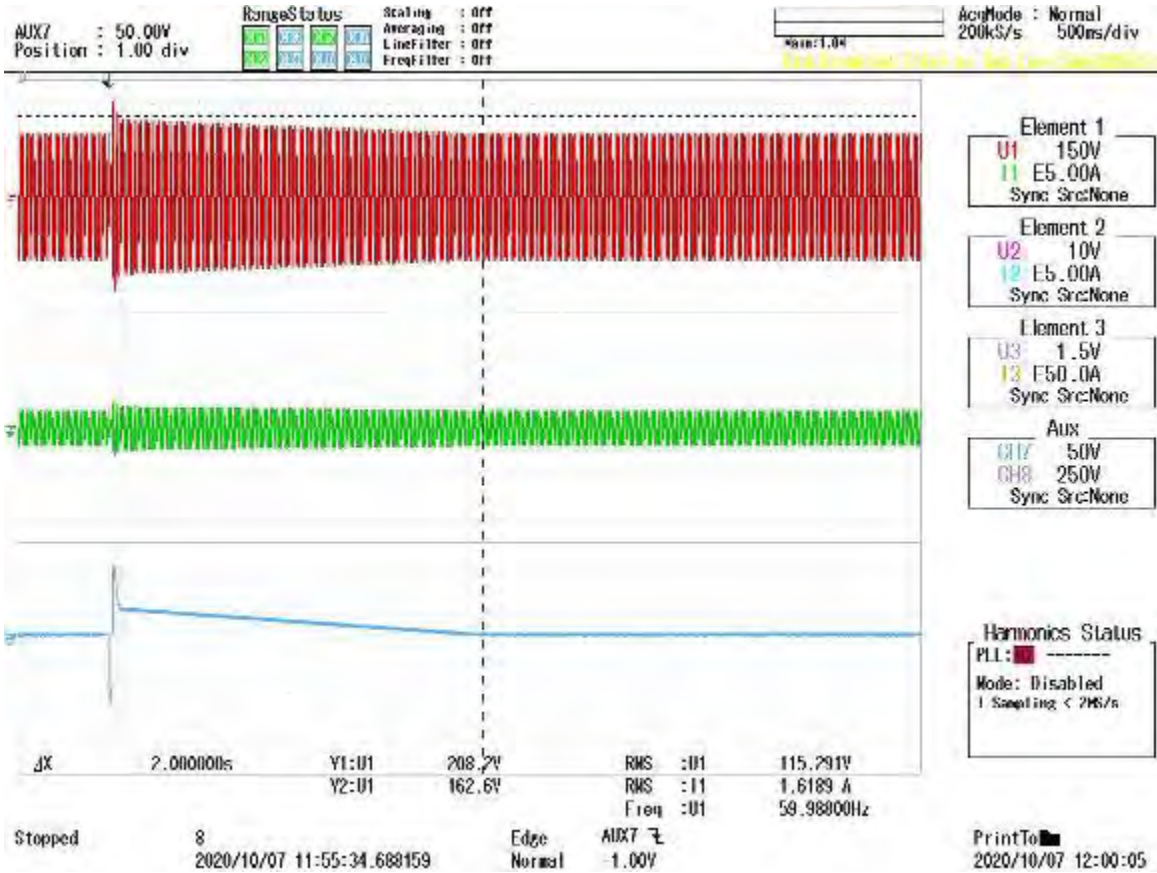
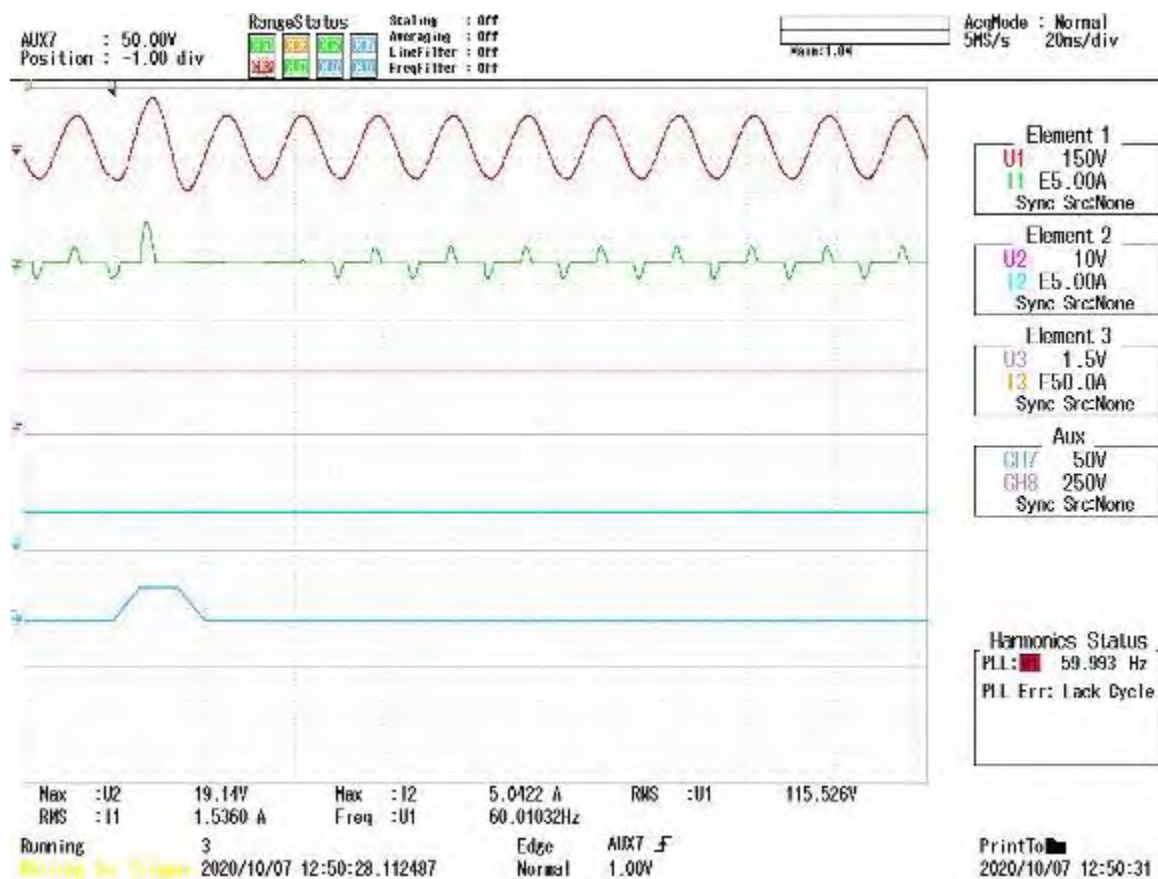


Figure K-45: Condition K, 115 Vac fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	50 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	51 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

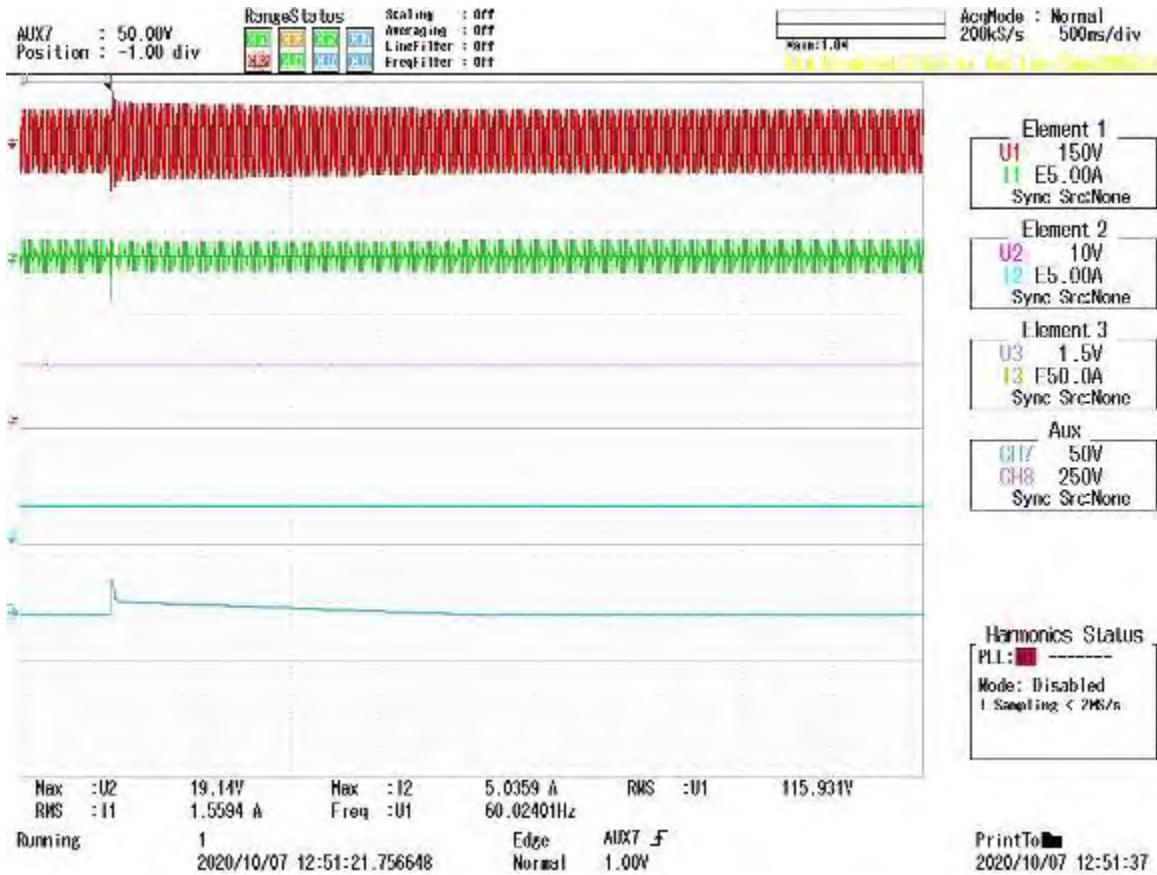
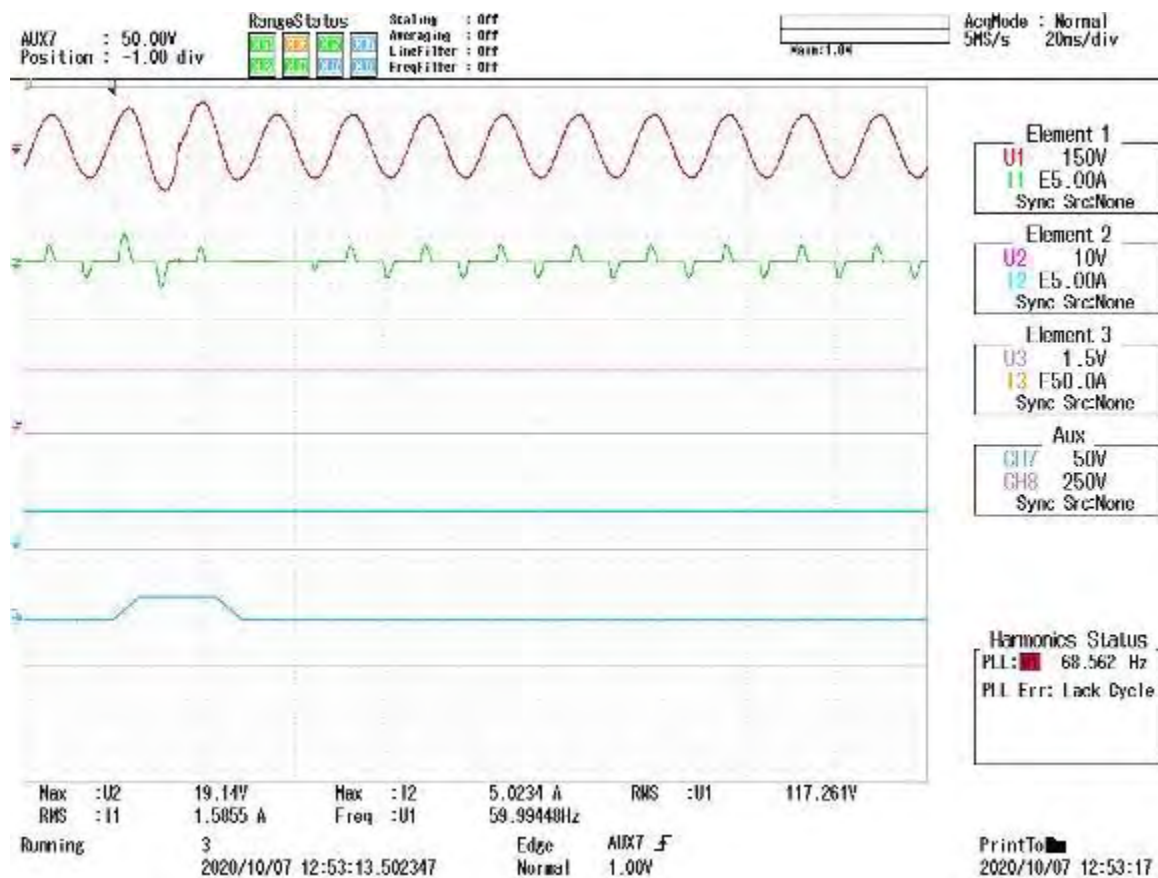


Figure K-47: Condition B

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	52 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	53 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

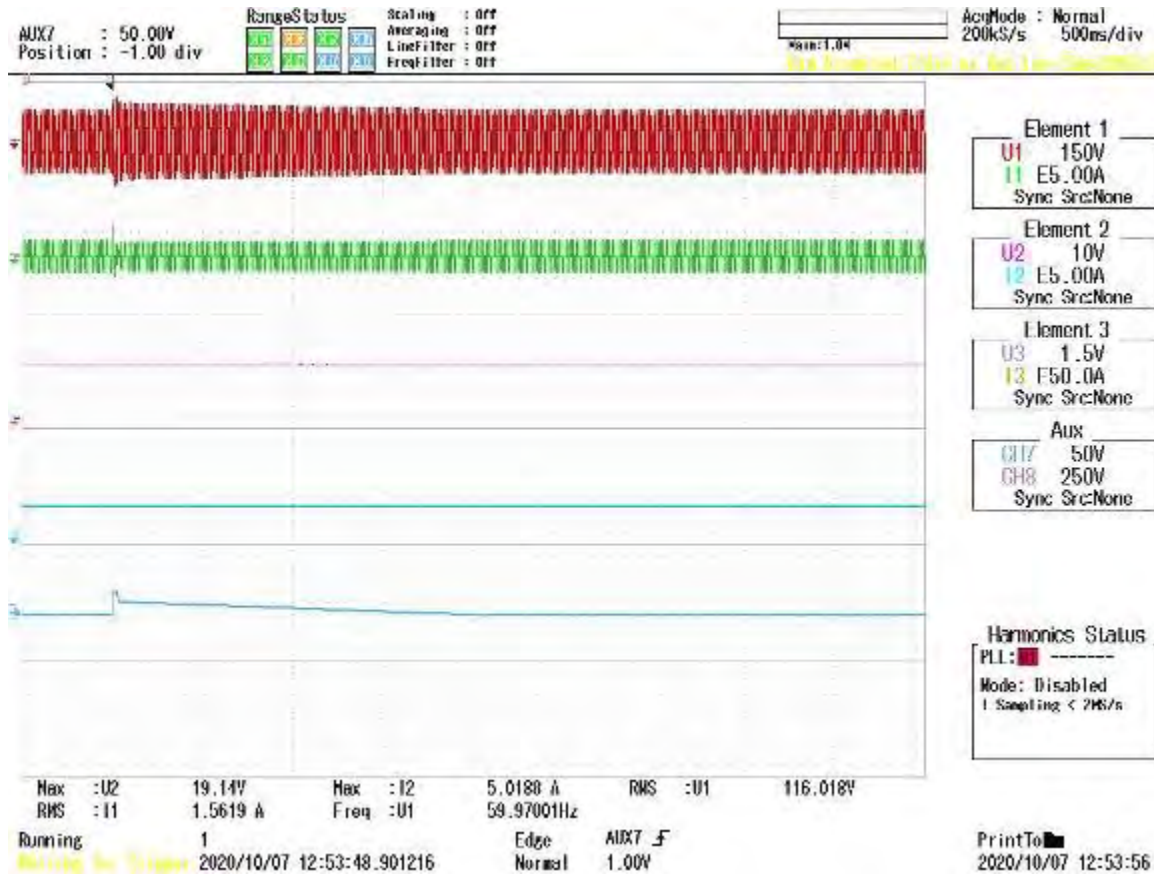


Figure K-49: Condition D

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	54 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

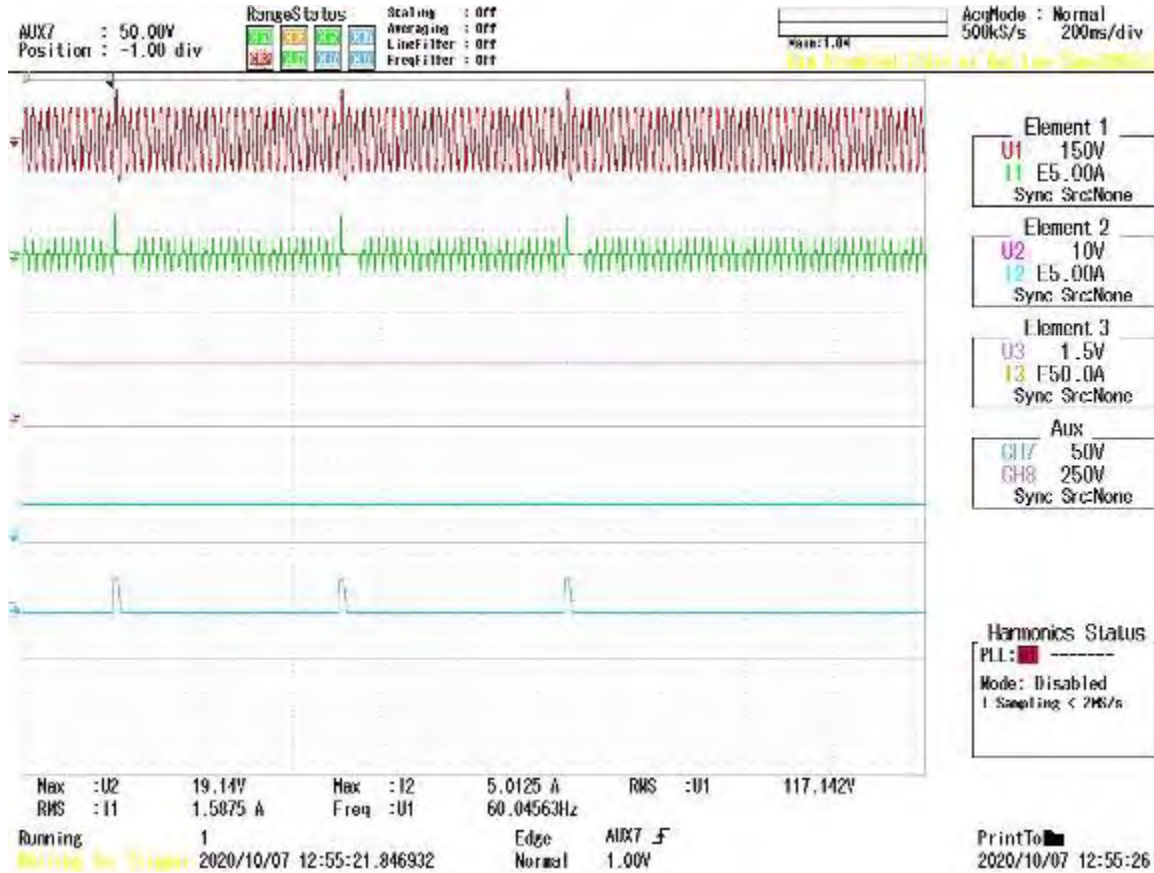


Figure K-50: Condition E

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	55 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

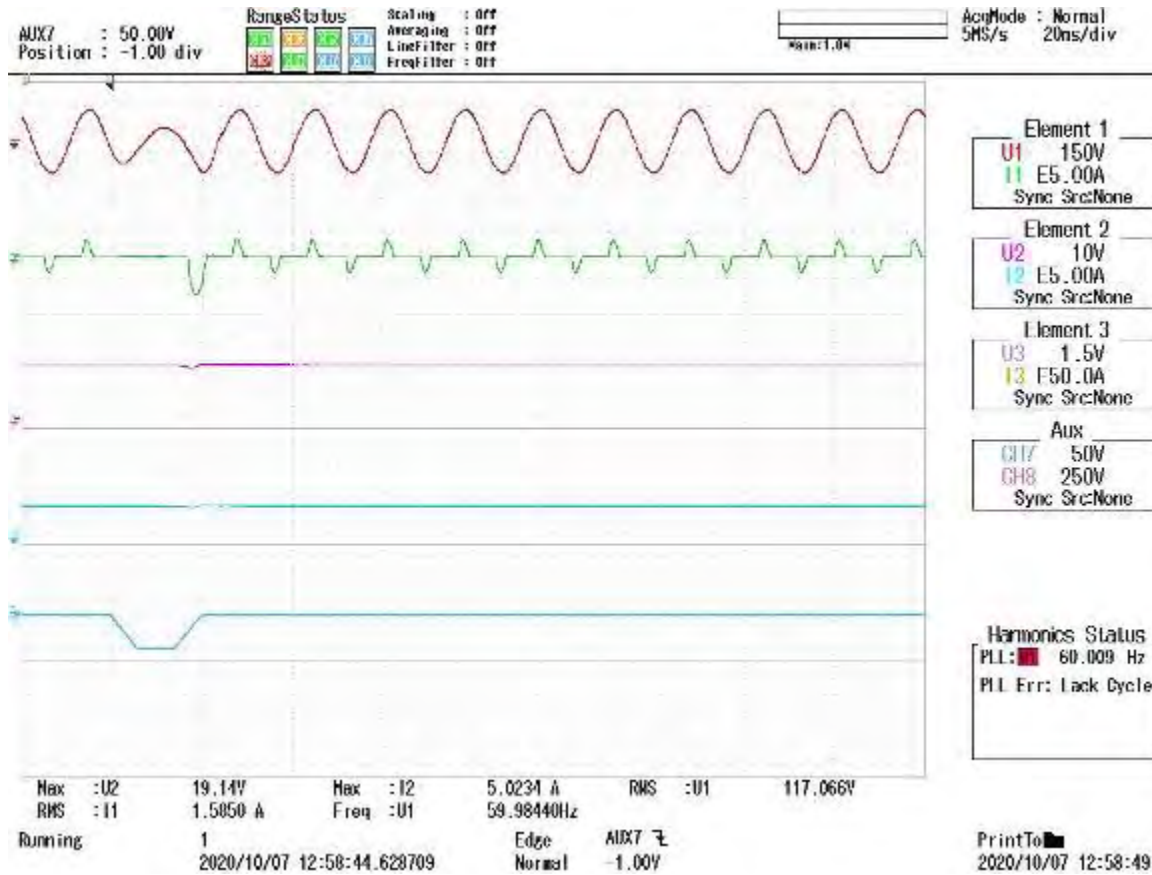


Figure K-51: Condition F

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	56 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

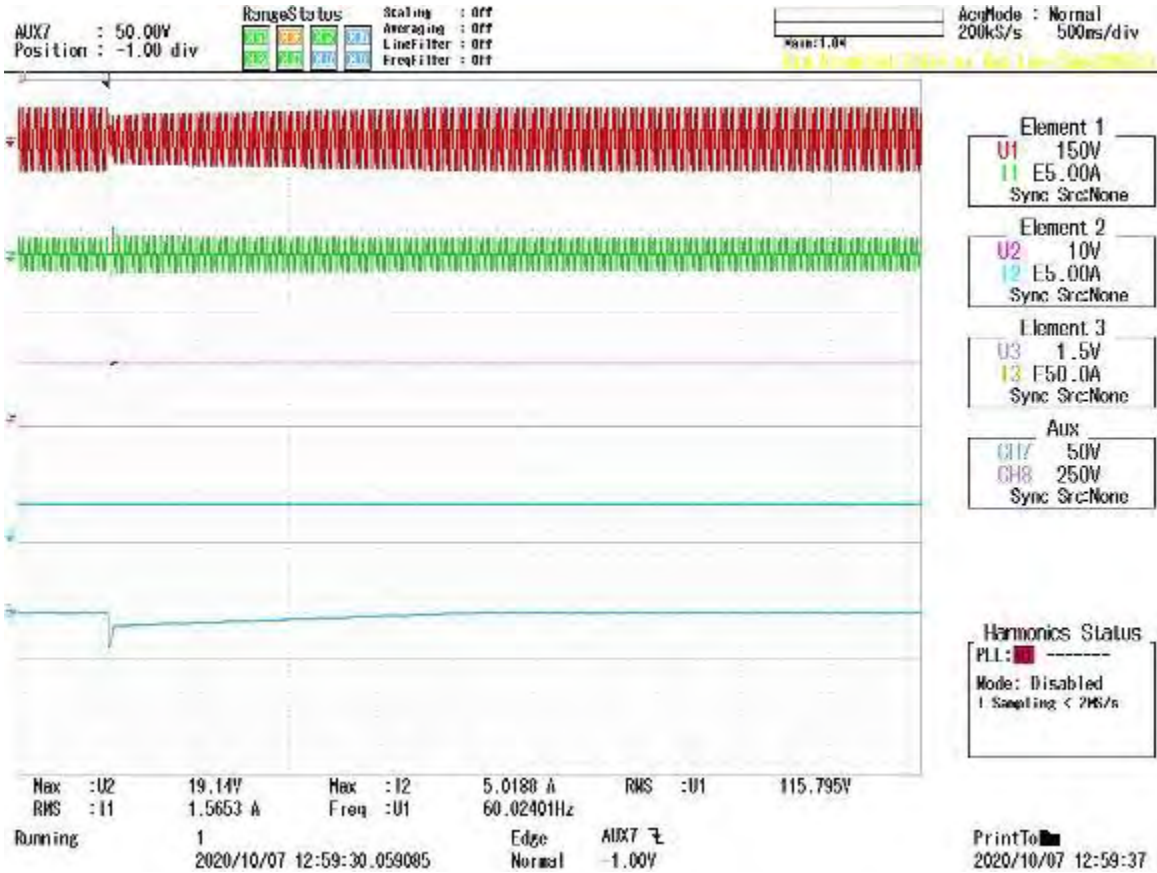


Figure K-52: Condition G

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	57 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

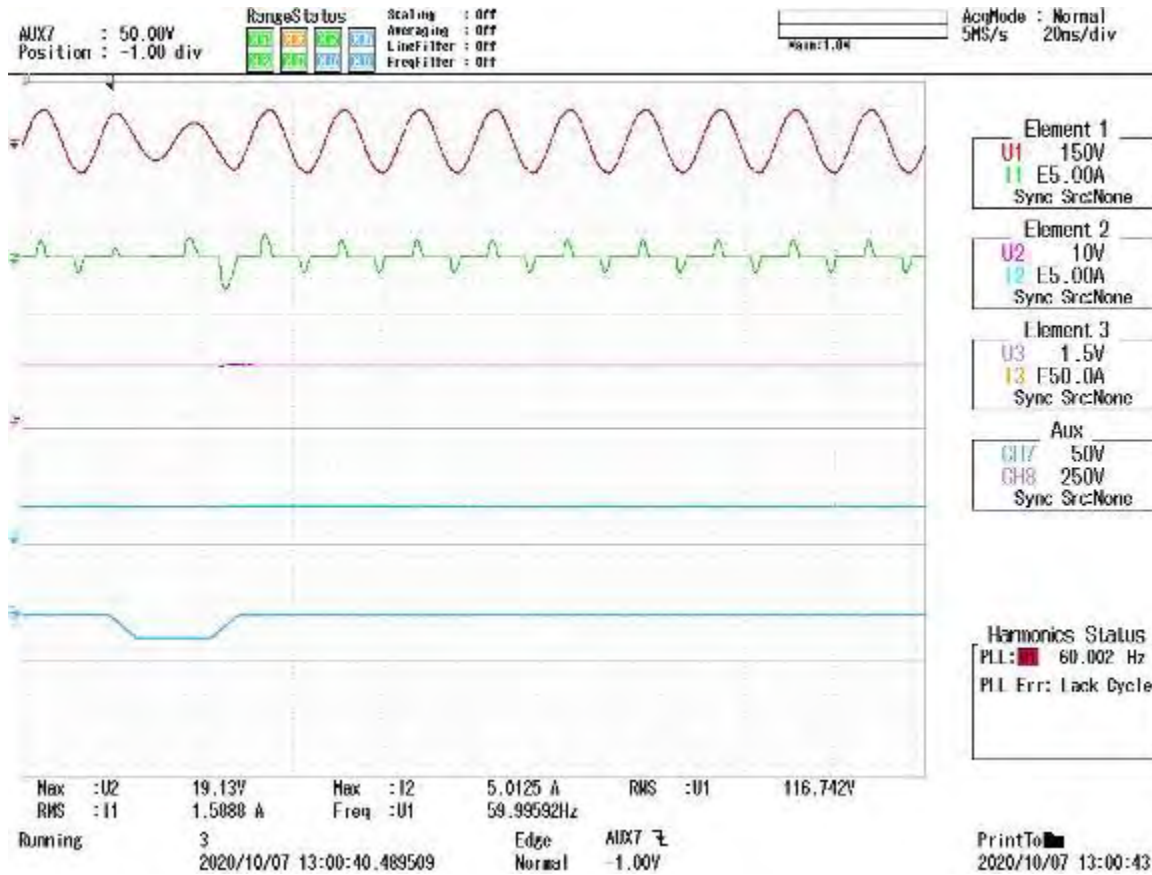


Figure K-53: Condition H

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	58 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

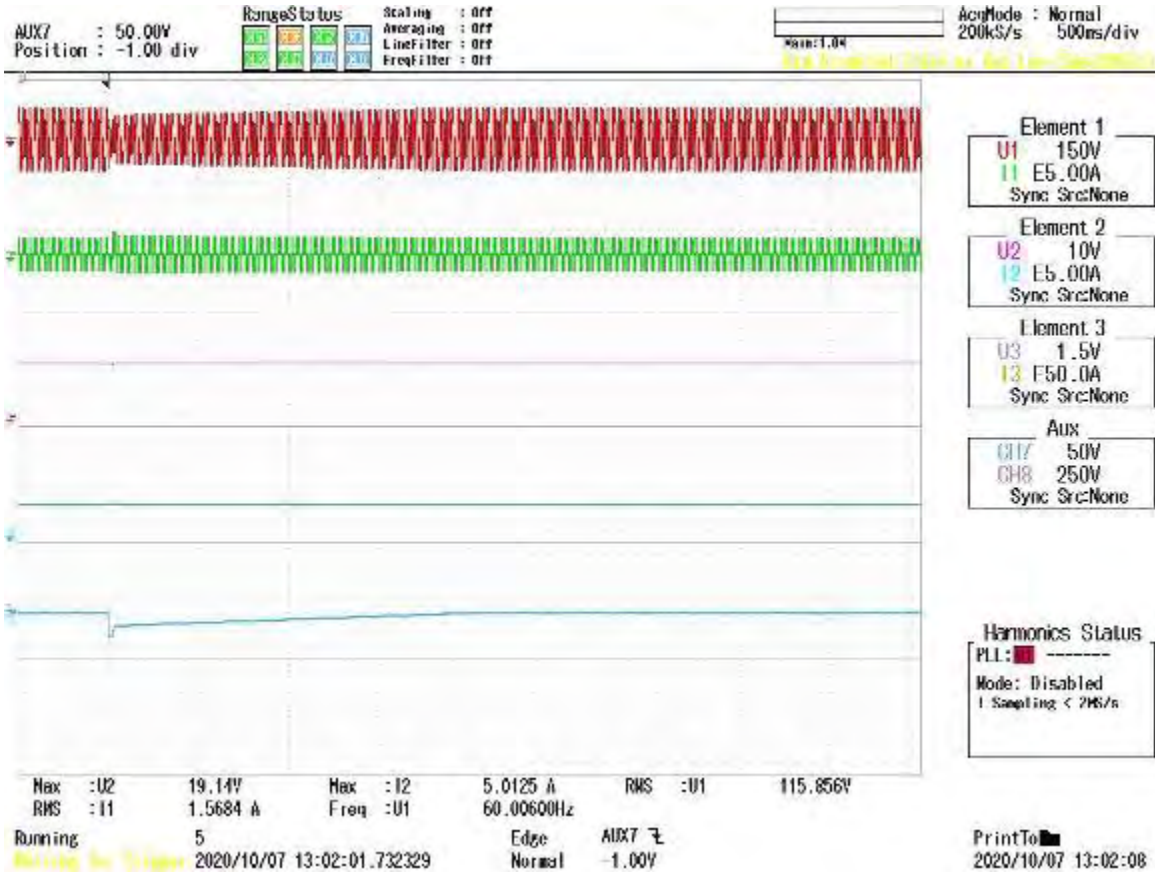


Figure K-54: Condition I

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	59 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

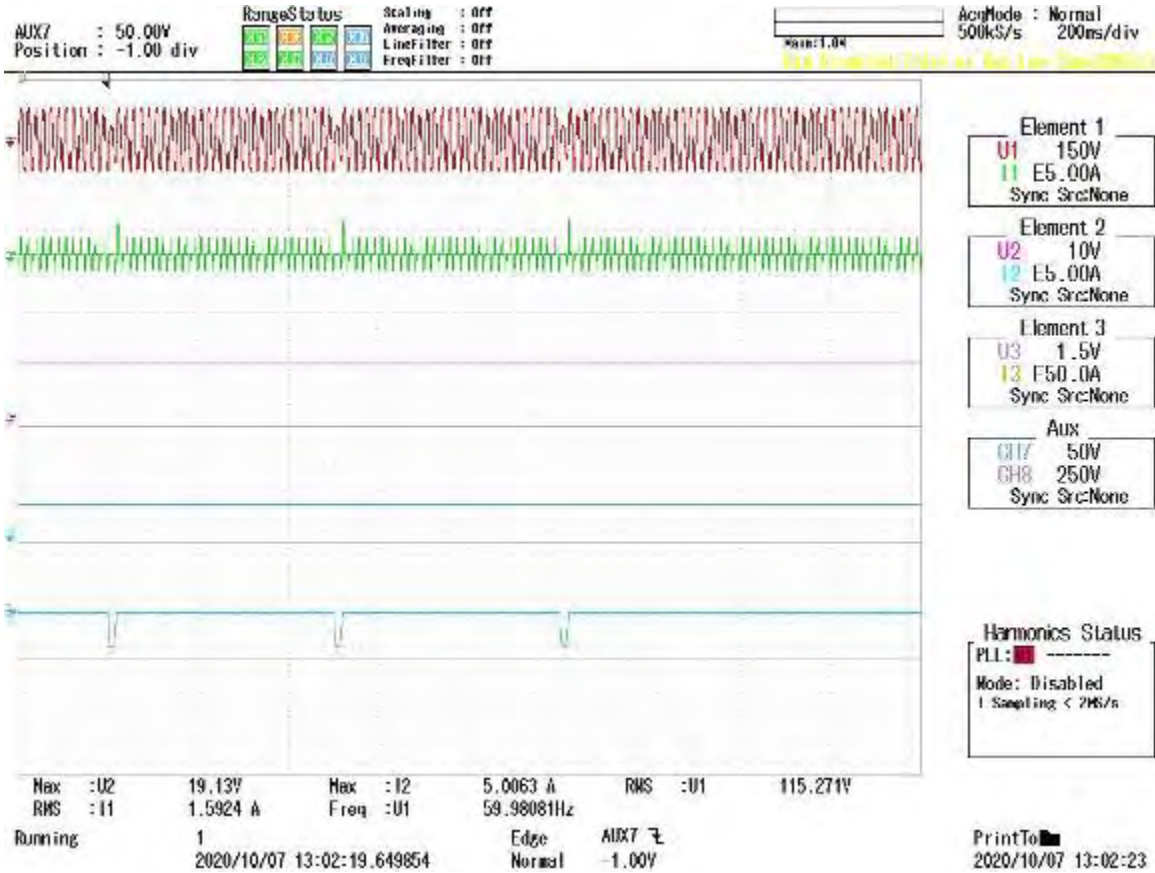


Figure K-55: Condition J

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF302, Abnormal Voltage Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	60 of 60
Project number	61179	Specification	MIL-HDBK-704-6, SXF302				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

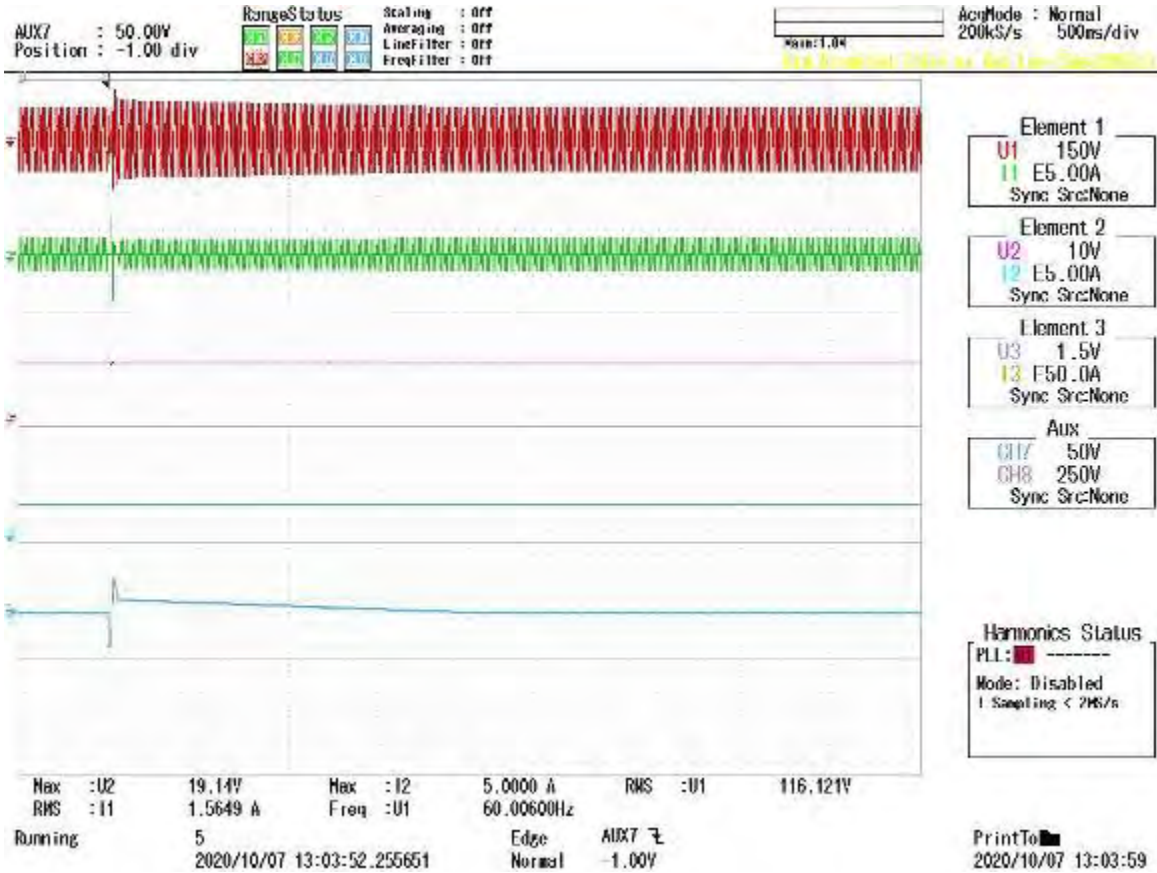


Figure K-56: Condition K

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage

Appendix L: SXF303 Abnormal Frequency Transients



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary	
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?		
360-060	Power scope	X	210-059	Multimeter	X		
230-098	Probe	X	310-094	Arbitrary waveform generator	X		
350-153	Amplifier	N/A	230-121	Probe	X		
290-015	Micro-ohmmeter	X	310-085	Standards waveform generator	N/A		

Power Input AC, SXF303 Abnormal Frequency Transients Test results							
Test condition	Nominal frequency	Transient frequency	Transient duration	EUT mode	Repetitions	Result	Notes
A	60 Hz	61 Hz	8.333 mSec	N/A	N/A	N/A	Figures L-1 through L-4, calibration
B	60 Hz	61 Hz	6.968 Sec	N/A	N/A	N/A	Figures L-1 and L-5 through L-7, calibration
C	60 Hz	50 Hz	8.333 mSec	N/A	N/A	N/A	Figures L-8 through L-11, calibration
D	60 Hz	50 Hz	6.968 Sec	N/A	N/A	N/A	Figures L-8 and L-12 through L-14, calibration
E	60 Hz	50 Hz, then 61 Hz	8.333 mSec, then 8.333 mSec	N/A	N/A	N/A	Figures L-15 through L-20
A	60 Hz	61 Hz	8.333 mSec	Operating, 5A load	5	Pass	Figure L-21
B	60 Hz	61 Hz	6.968 Sec	Operating, 5A load	5	Pass	Figure L-22
C	60 Hz	50 Hz	8.333 mSec	Operating, 5A load	5	Pass	Figure L-23
D	60 Hz	50 Hz	6.968 Sec	Operating, 5A load	5	Pass	Figure L-24
E	60 Hz	50 Hz, then 61 Hz	8.333 mSec, then 8.333 mSec	Operating, 5A load	5	Pass	Figure L-25

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet
Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph L-3: EUT identification



Data sheet
Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph L-4: Test setup



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

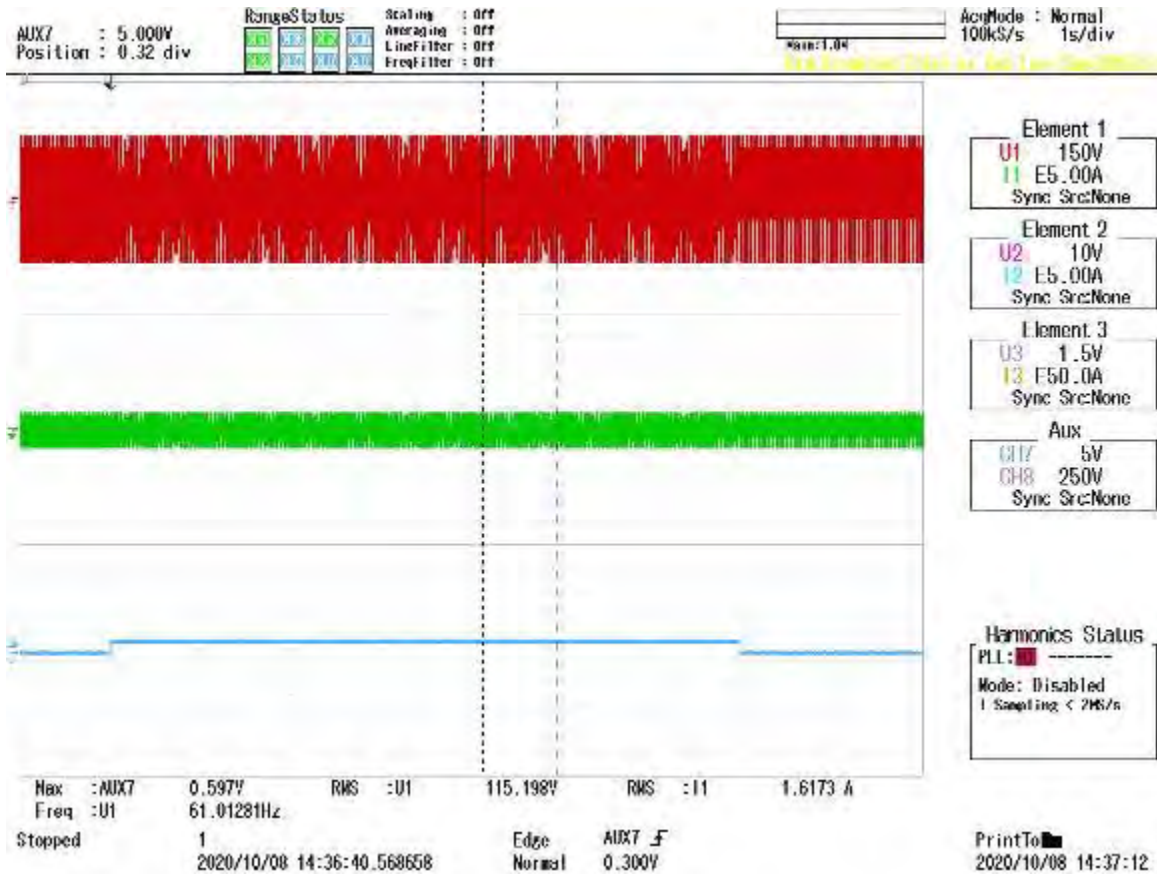


Figure L-57: Conditions A and B, transient frequency

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

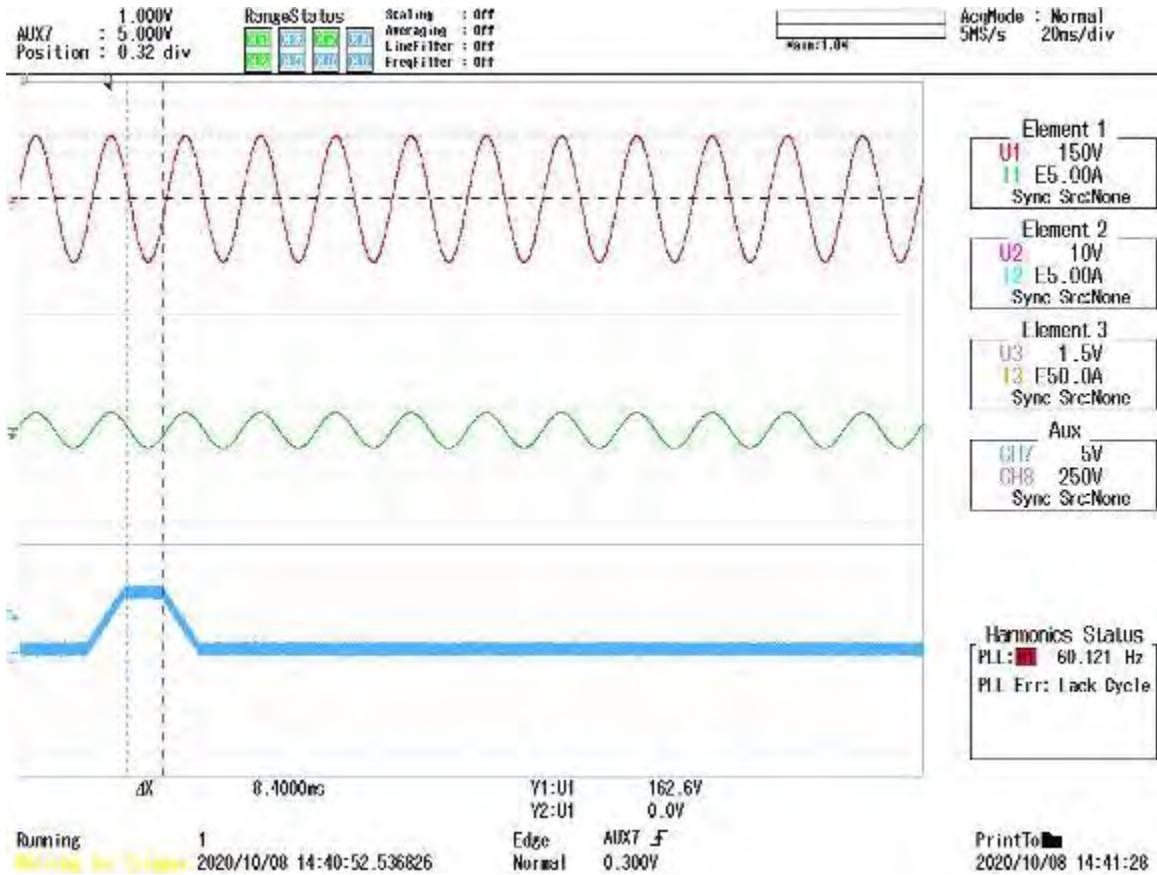


Figure L-58: Condition A, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	6 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

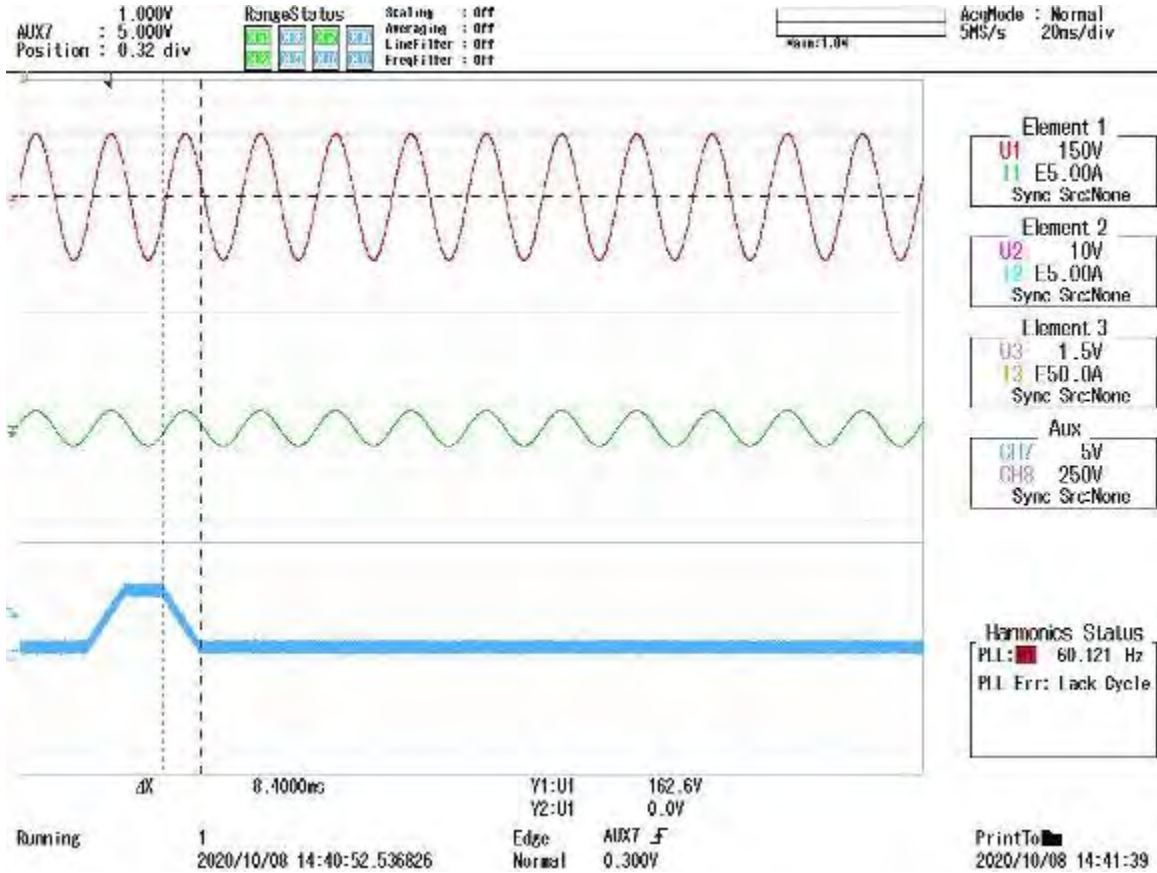


Figure L-59: Condition A, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	7 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

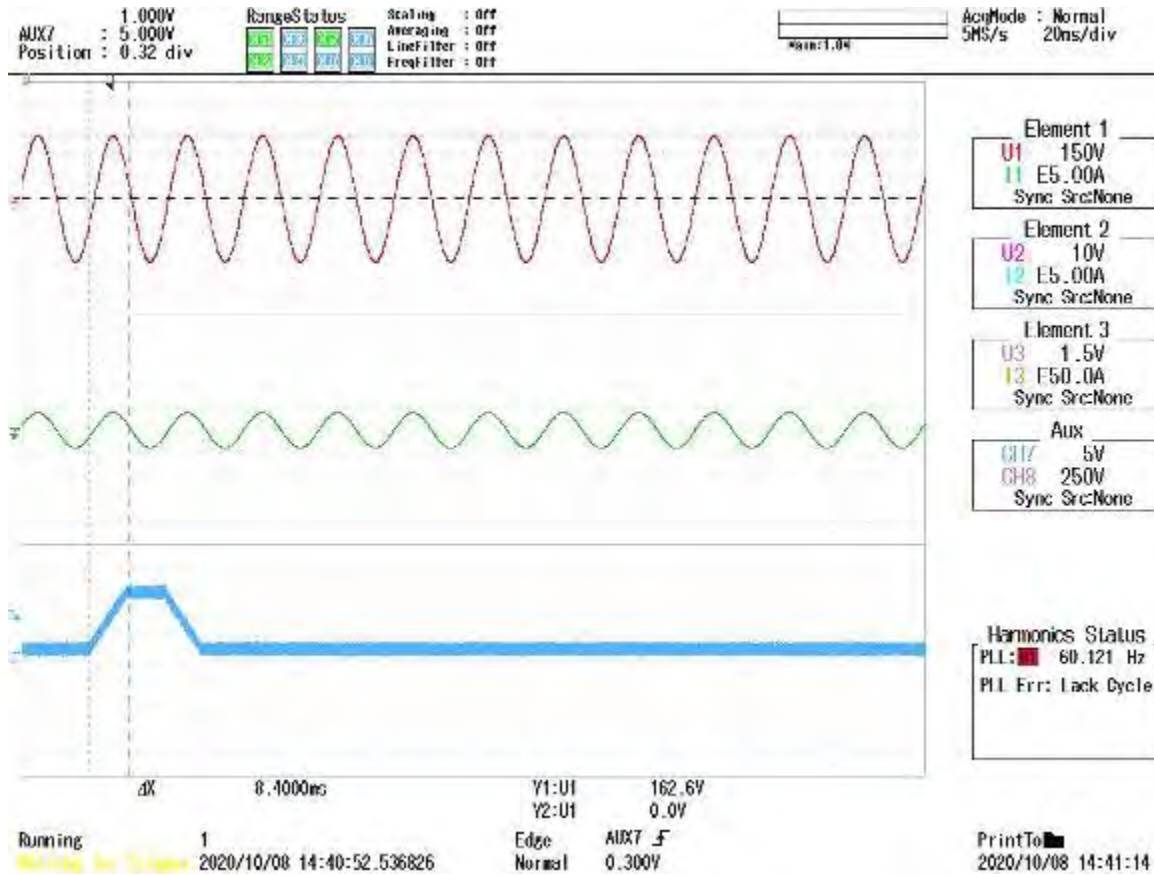


Figure L-60: Condition A, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	8 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

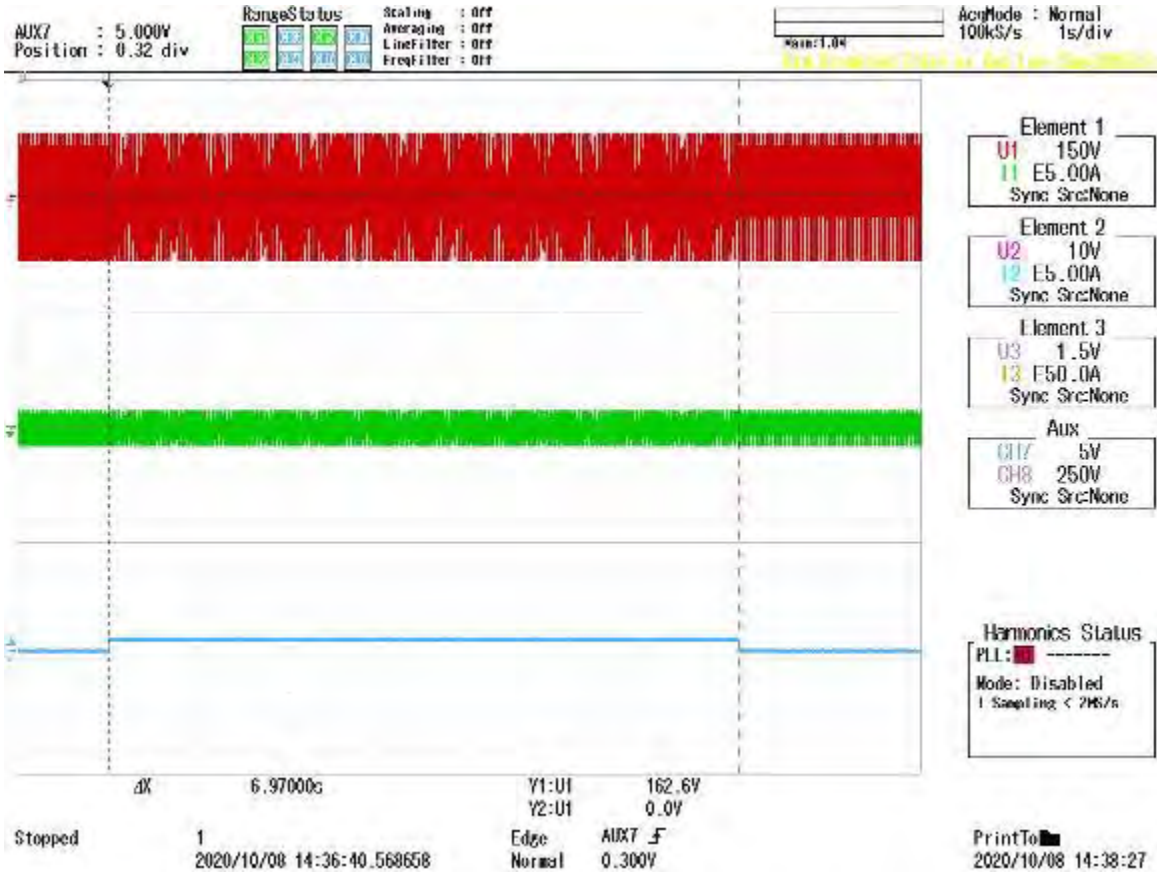


Figure L-61: Condition B, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	9 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

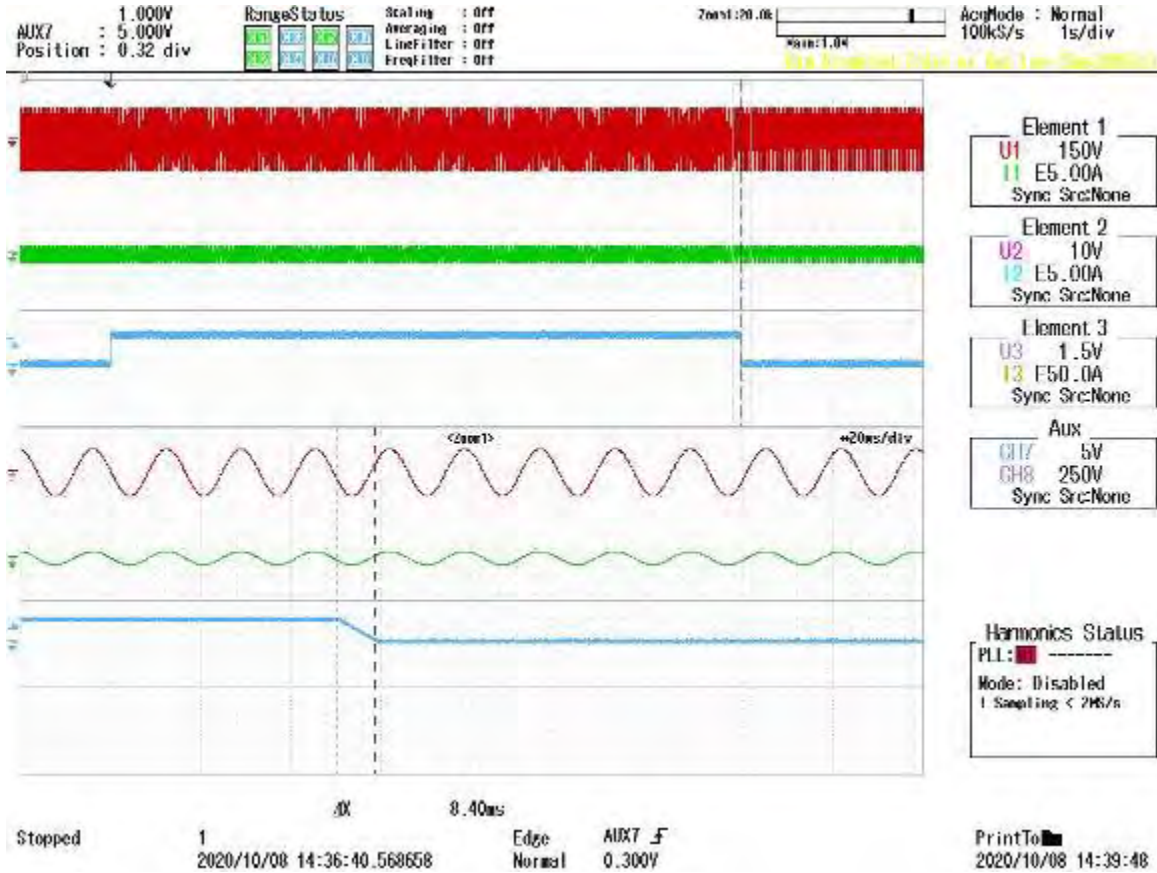


Figure L-62: Condition B, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	10 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

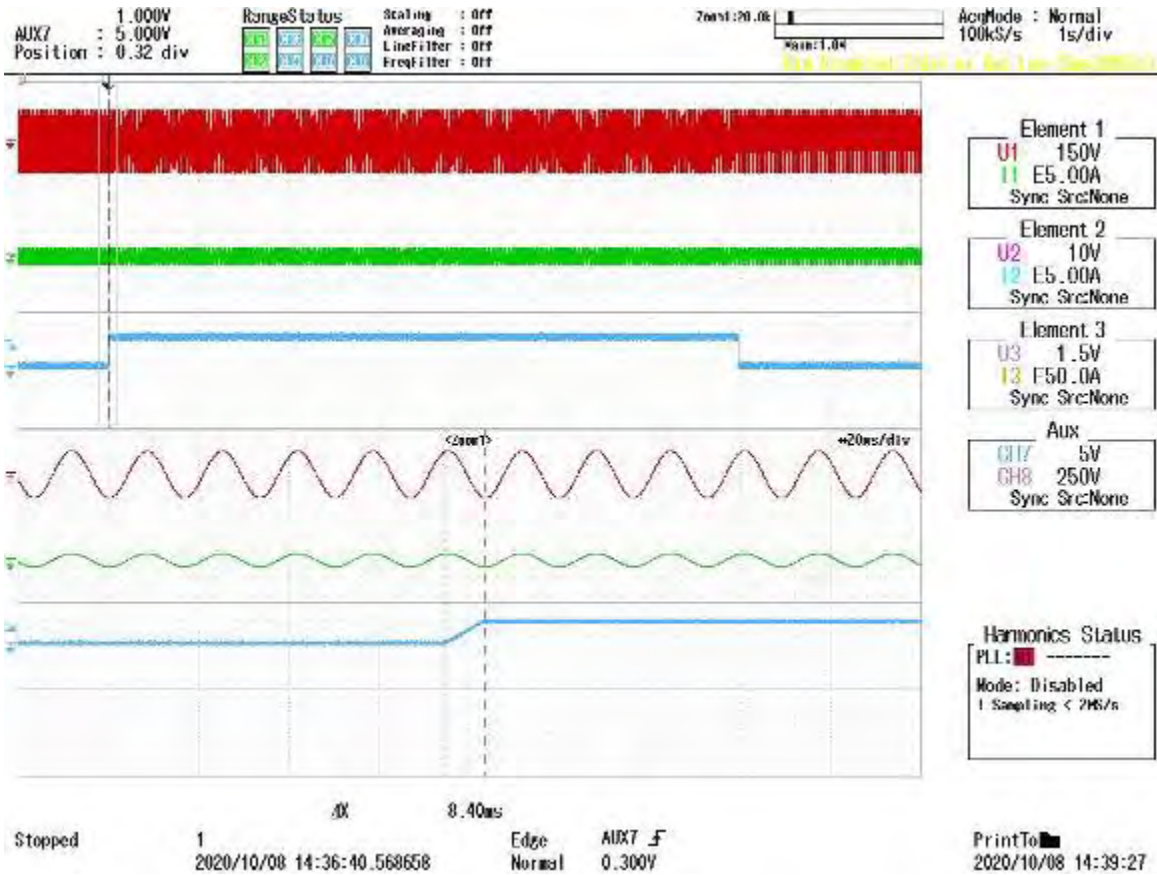


Figure L-63: Condition B, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	11 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

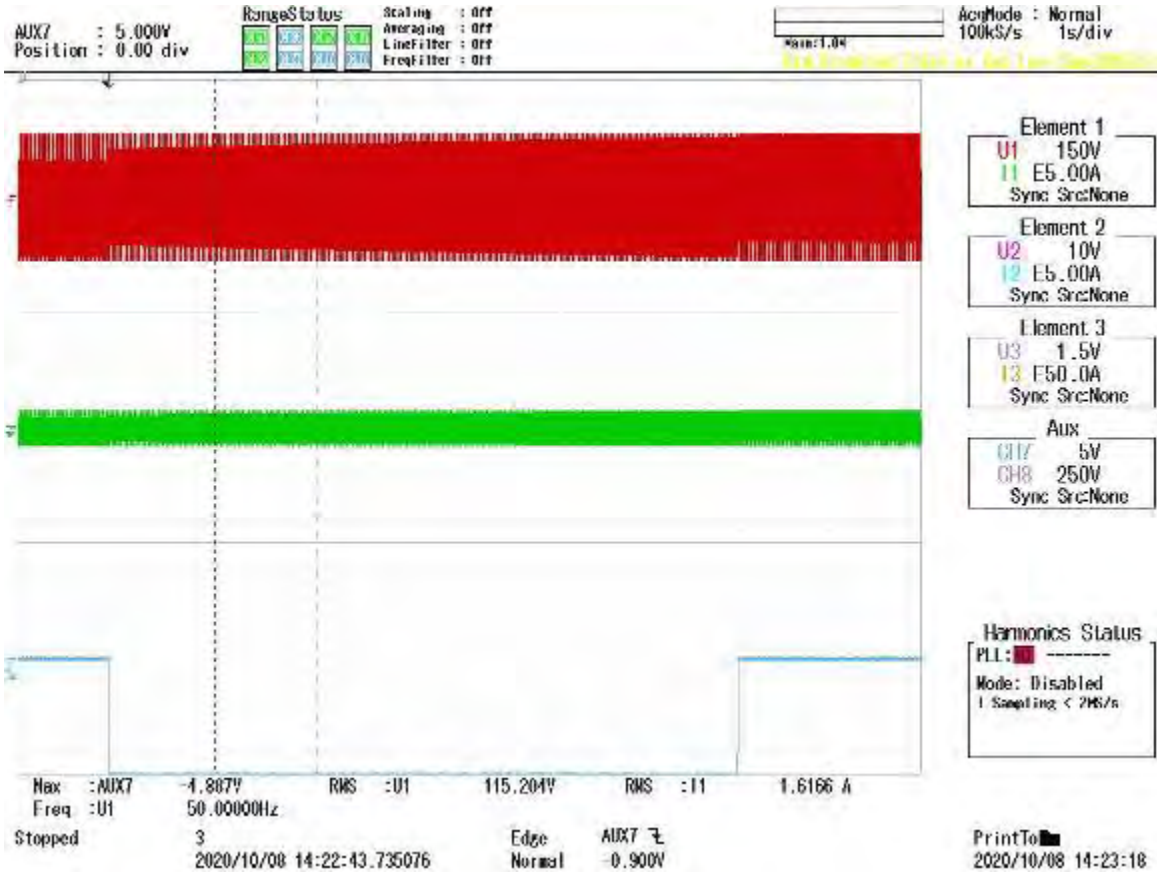


Figure L-64: Conditions C and D, transient frequency

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	12 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

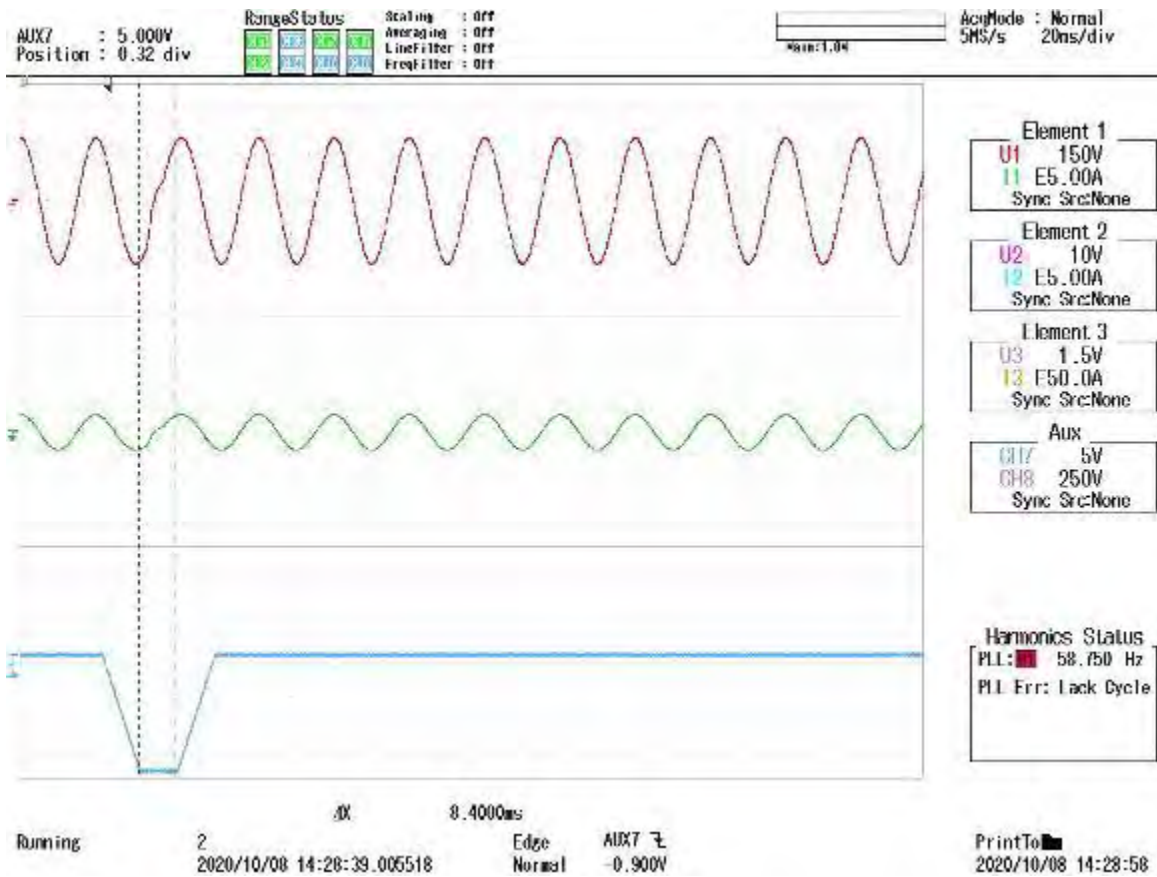


Figure L-65: Condition C, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	13 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

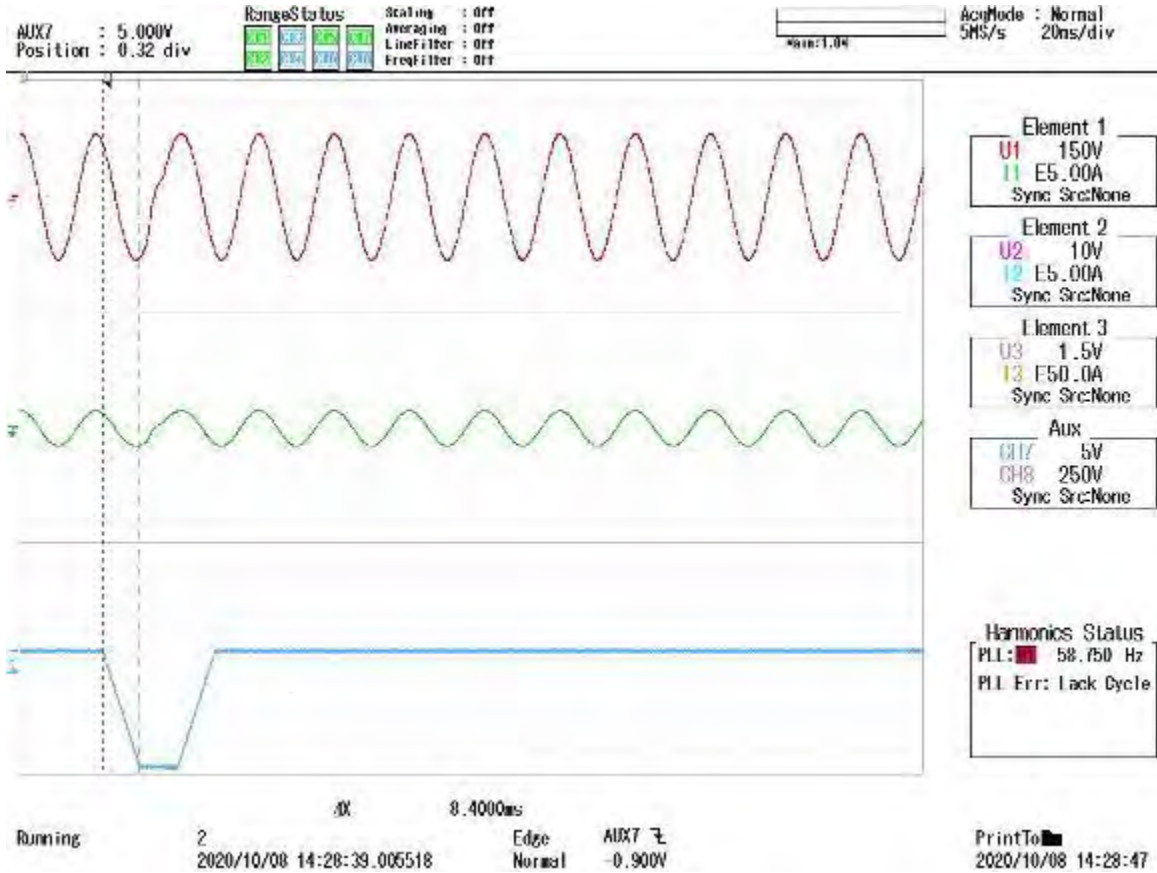


Figure L-66: Condition C, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	14 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

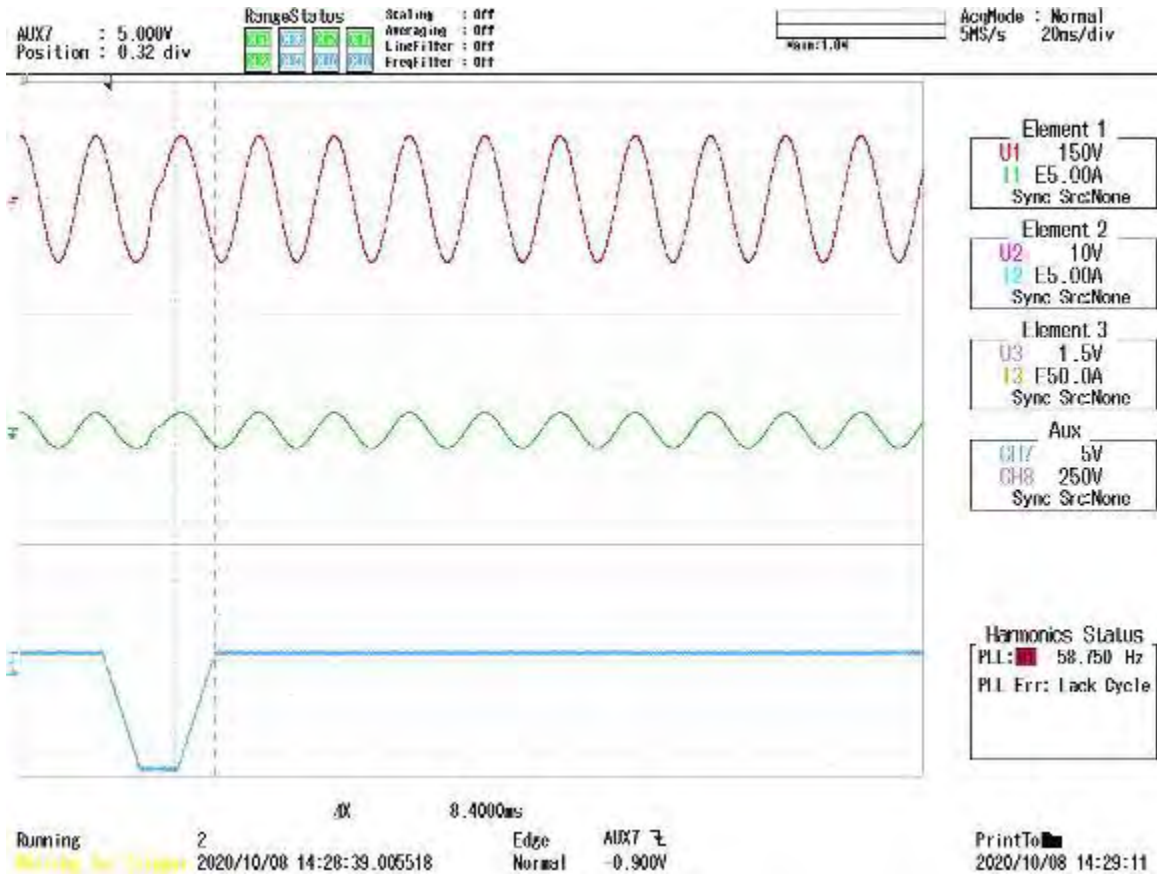


Figure L-67: Condition C, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	15 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

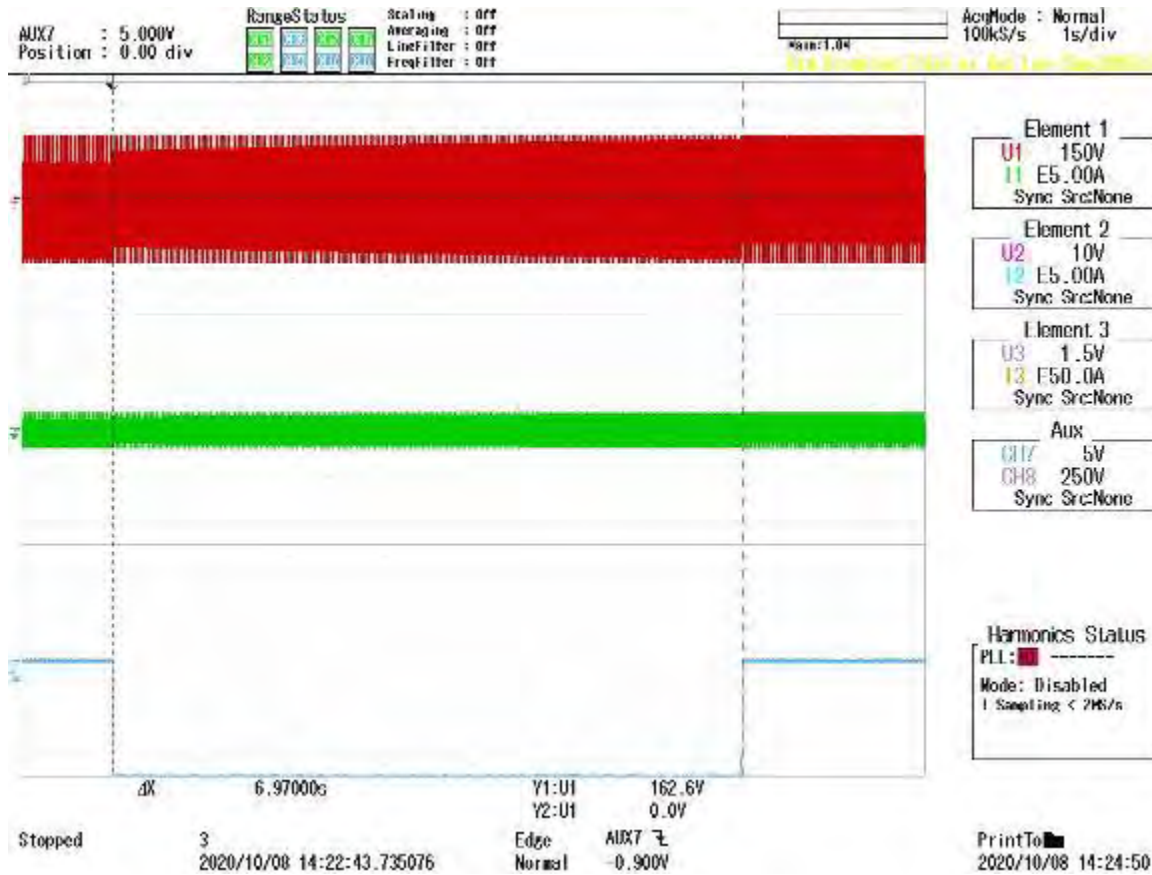


Figure L-68: Condition D, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	16 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

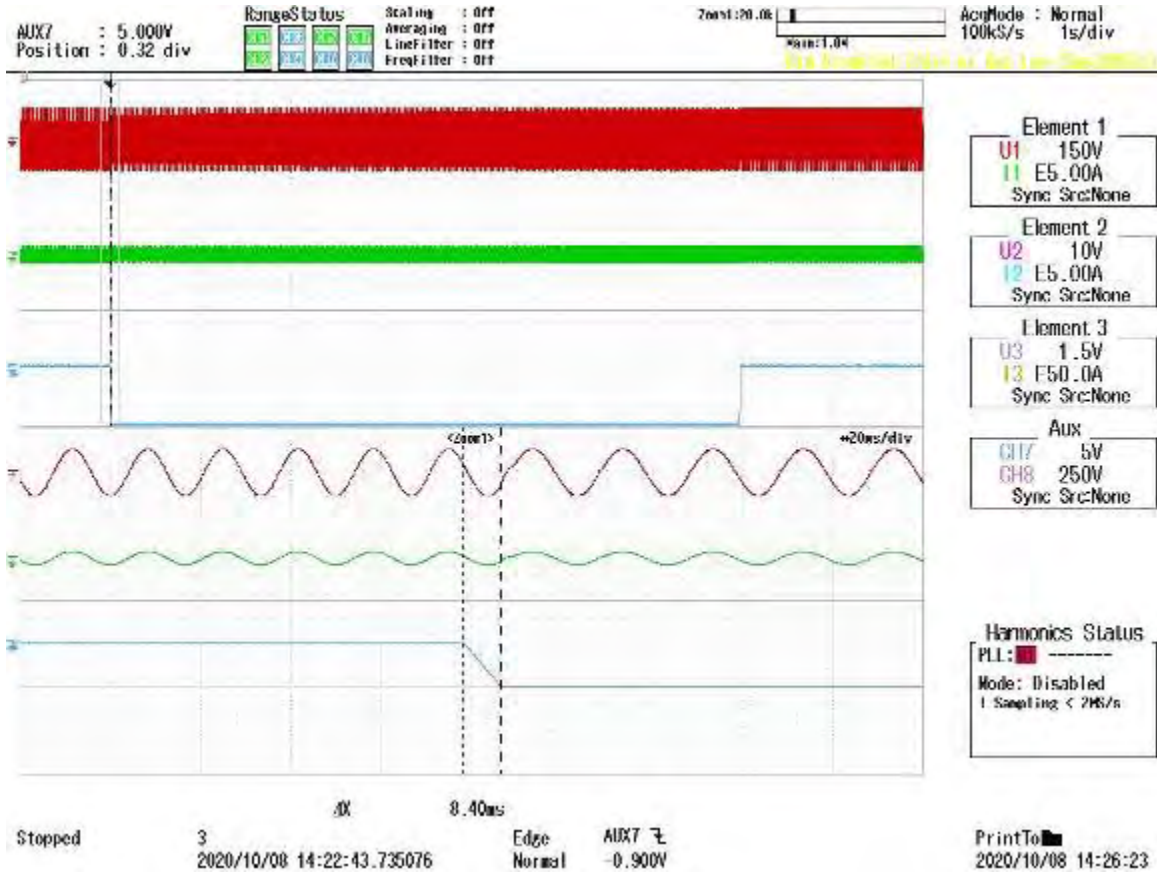


Figure L-69: Condition D, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	17 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

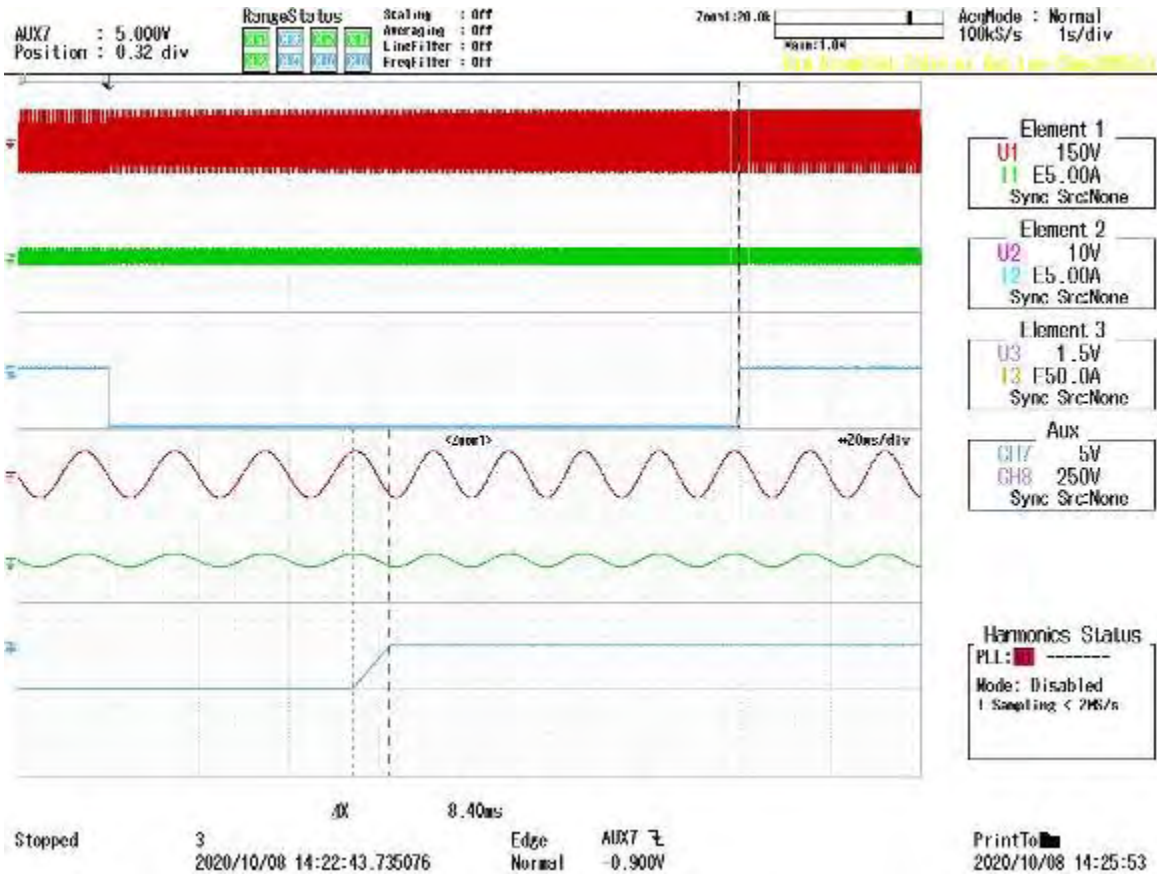


Figure L-70: Condition D, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	18 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

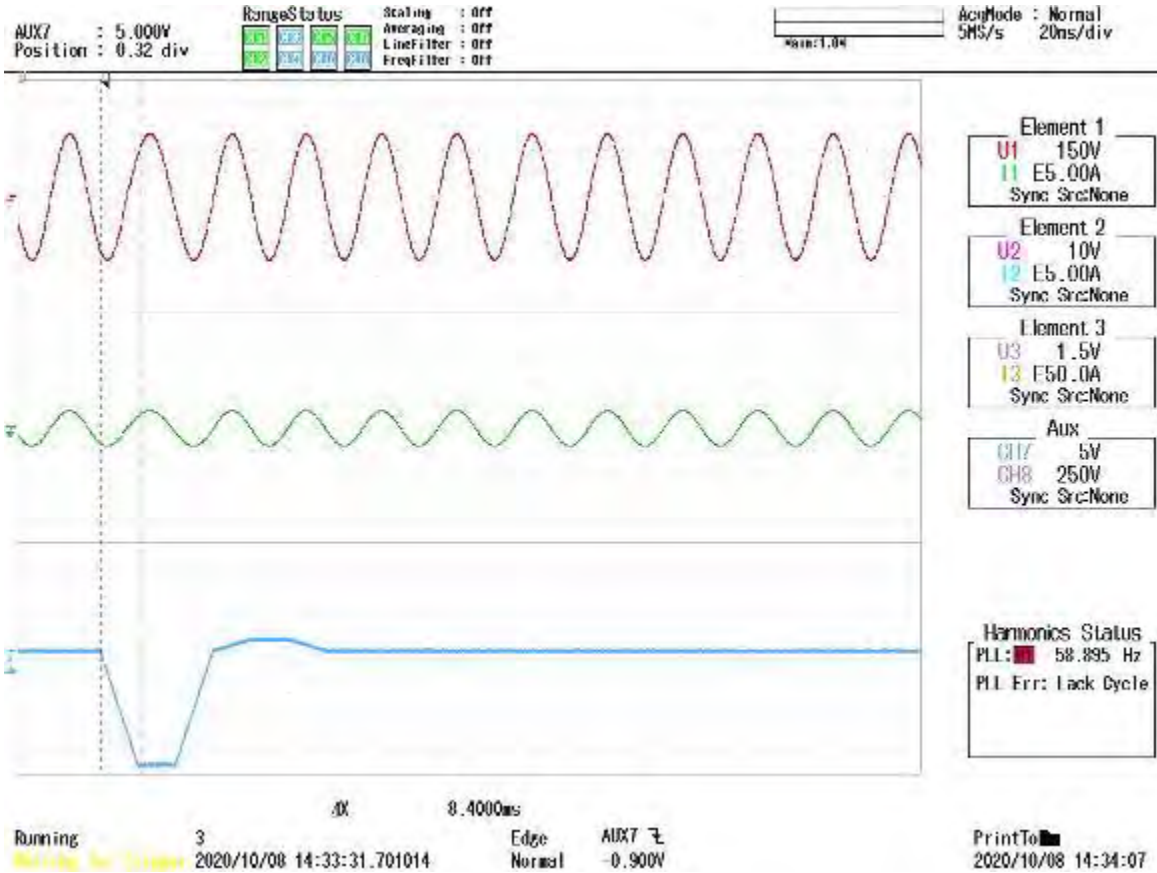
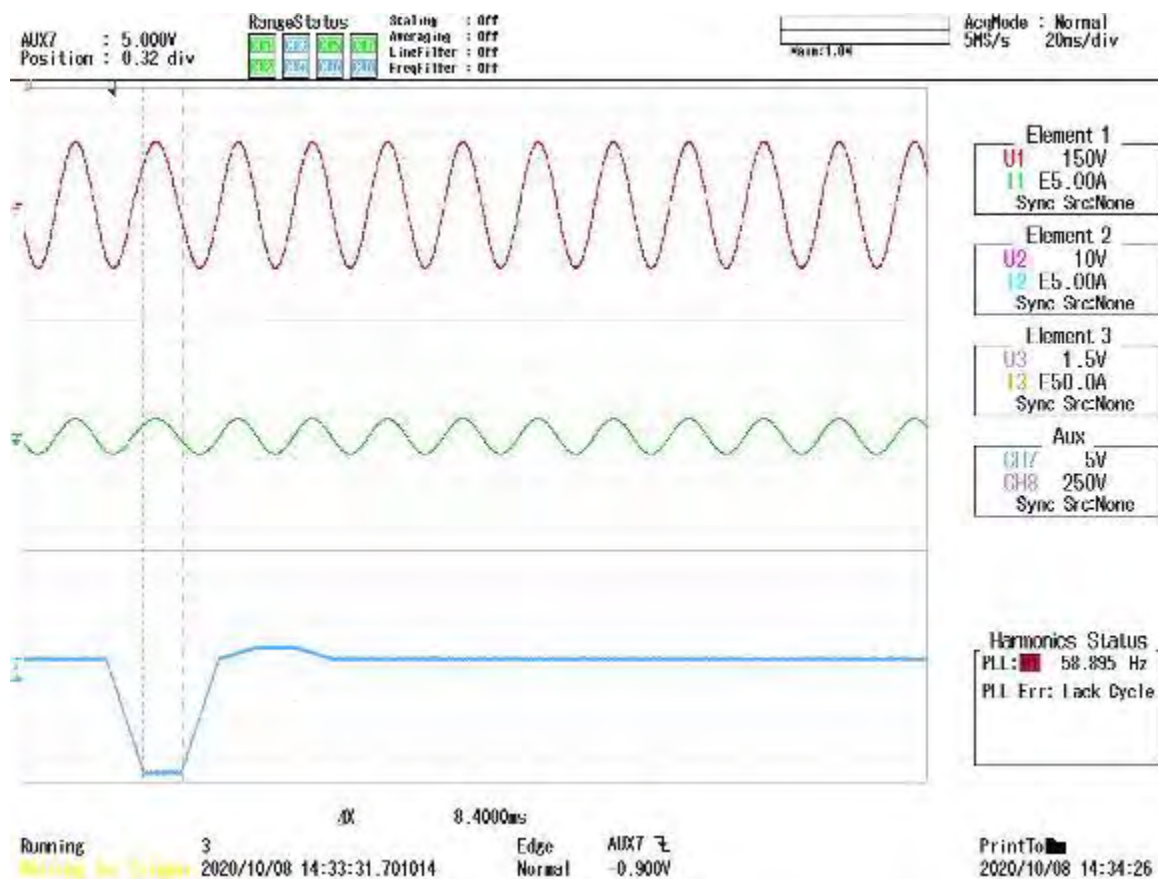


Figure L-71: Condition E, 50 Hz fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	19 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	20 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

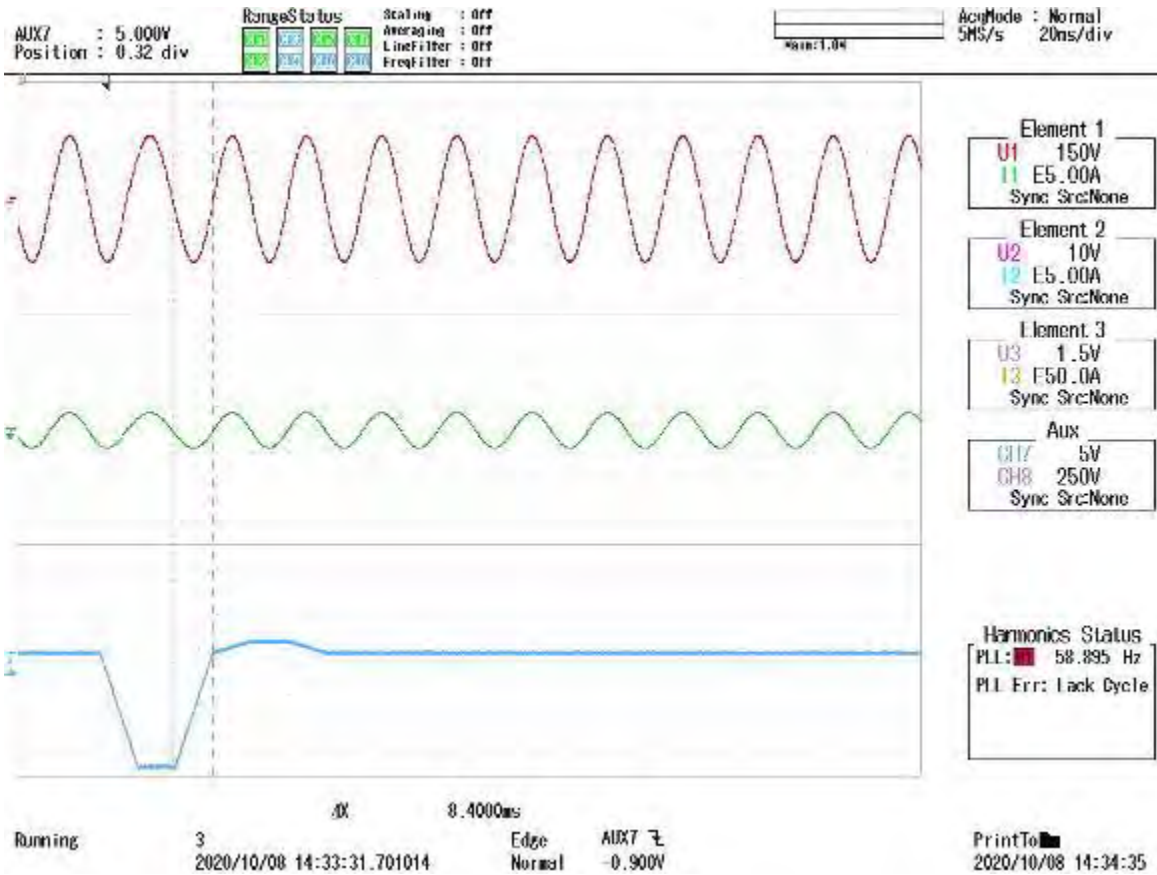


Figure L-73: Condition E, 60 Hz rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	21 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

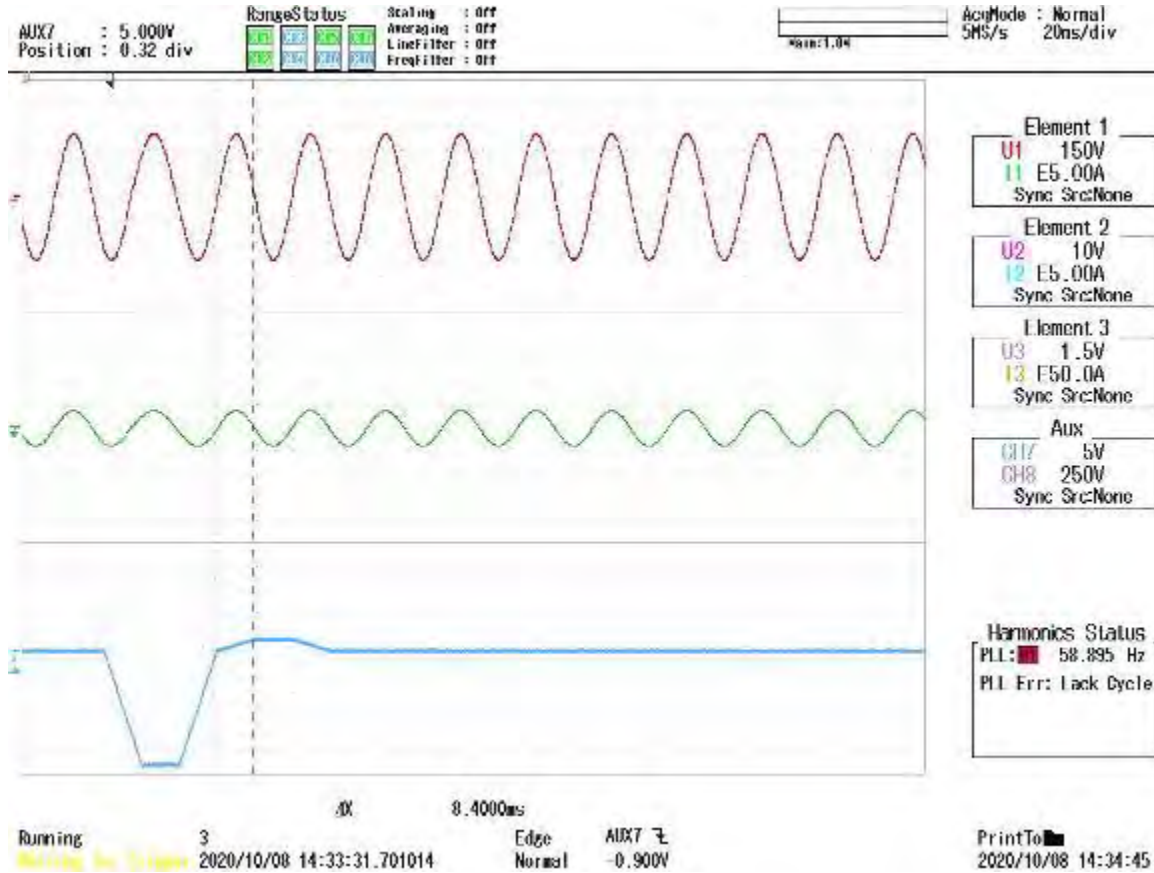
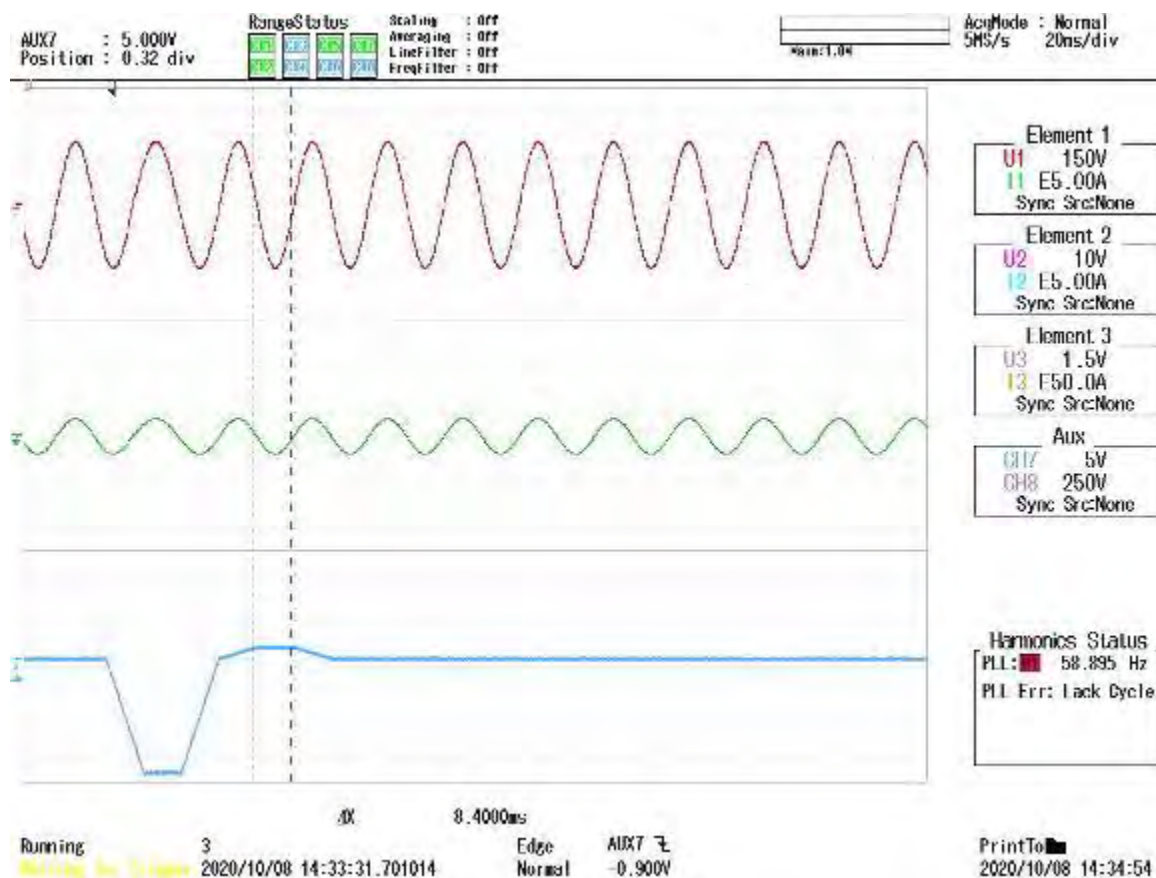


Figure L-74: Condition E, 61 Hz rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage

Power Input AC, SXF303 Abnormal Fregeuency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	22 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	23 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

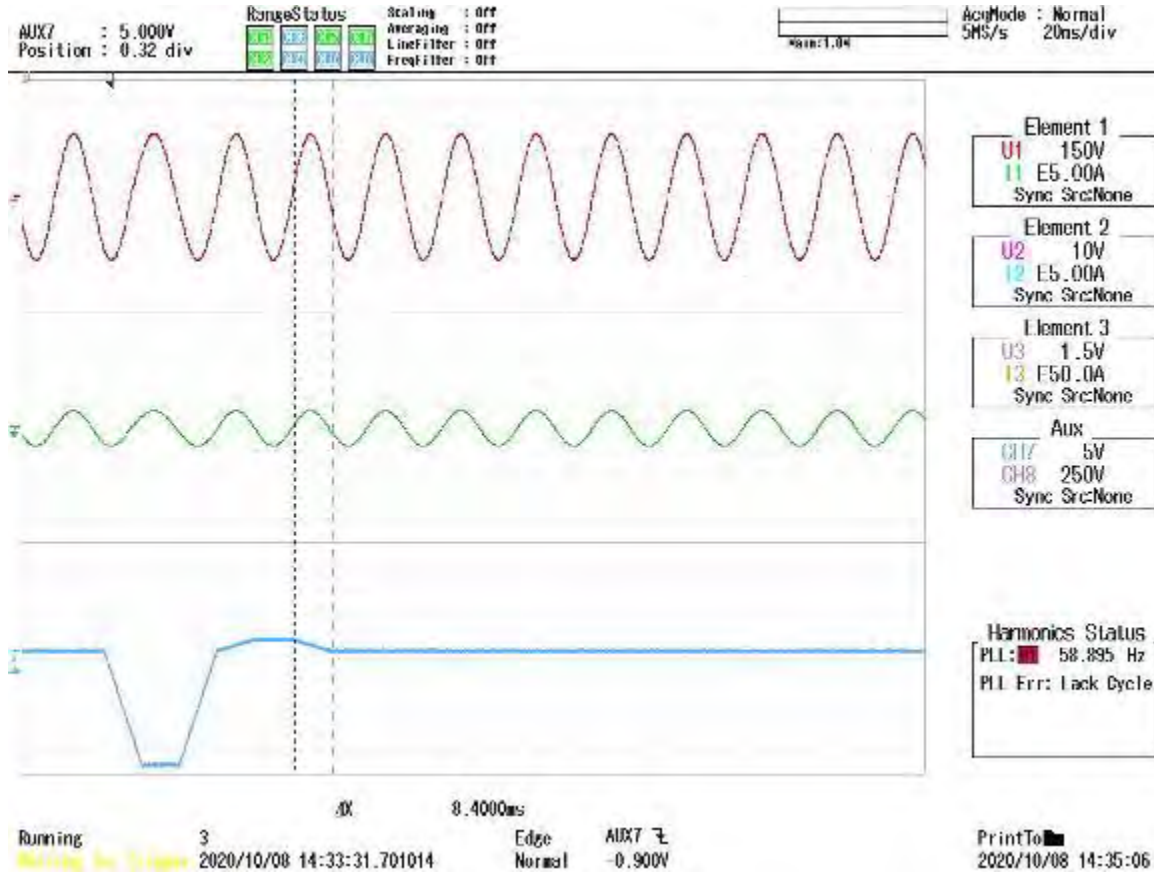


Figure L-76: Condition E, 60 Hz fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	24 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

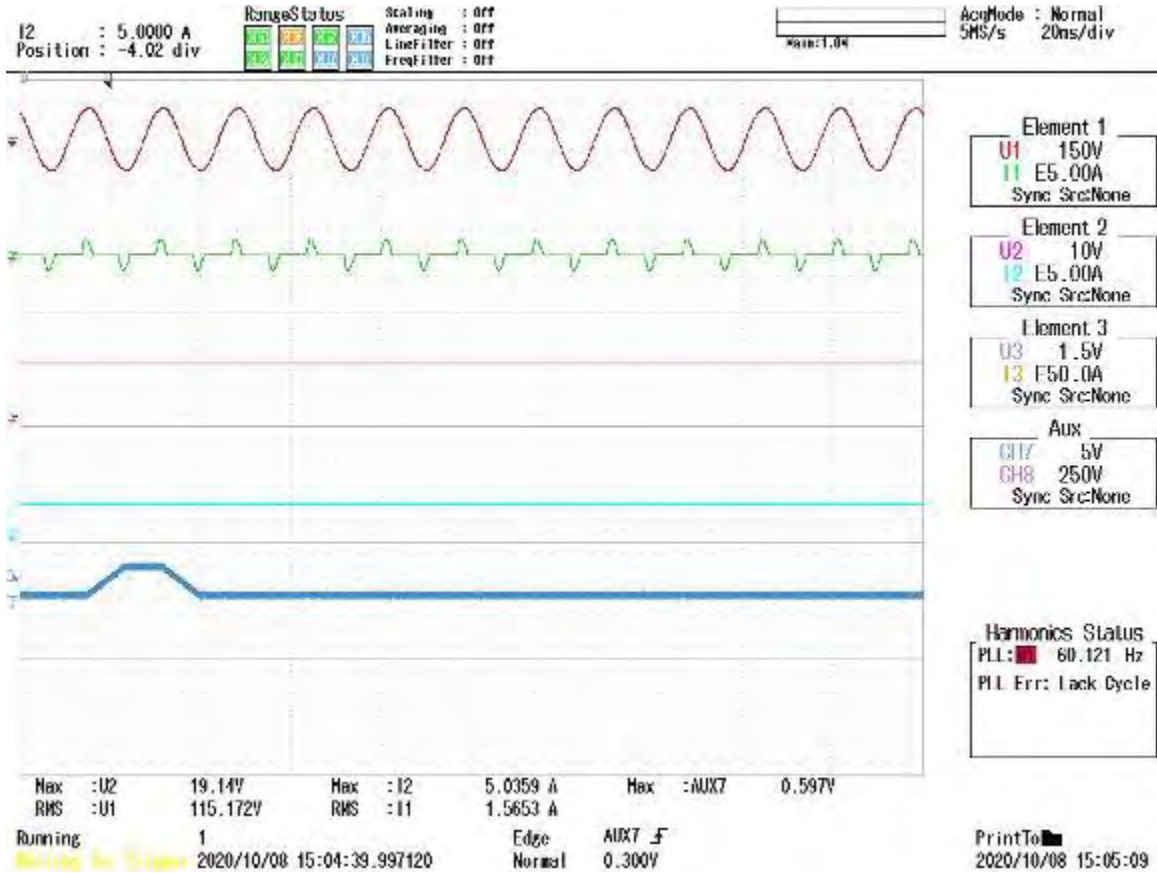


Figure L-77: Condition A

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	25 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Figure L-78: Condition B

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	26 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

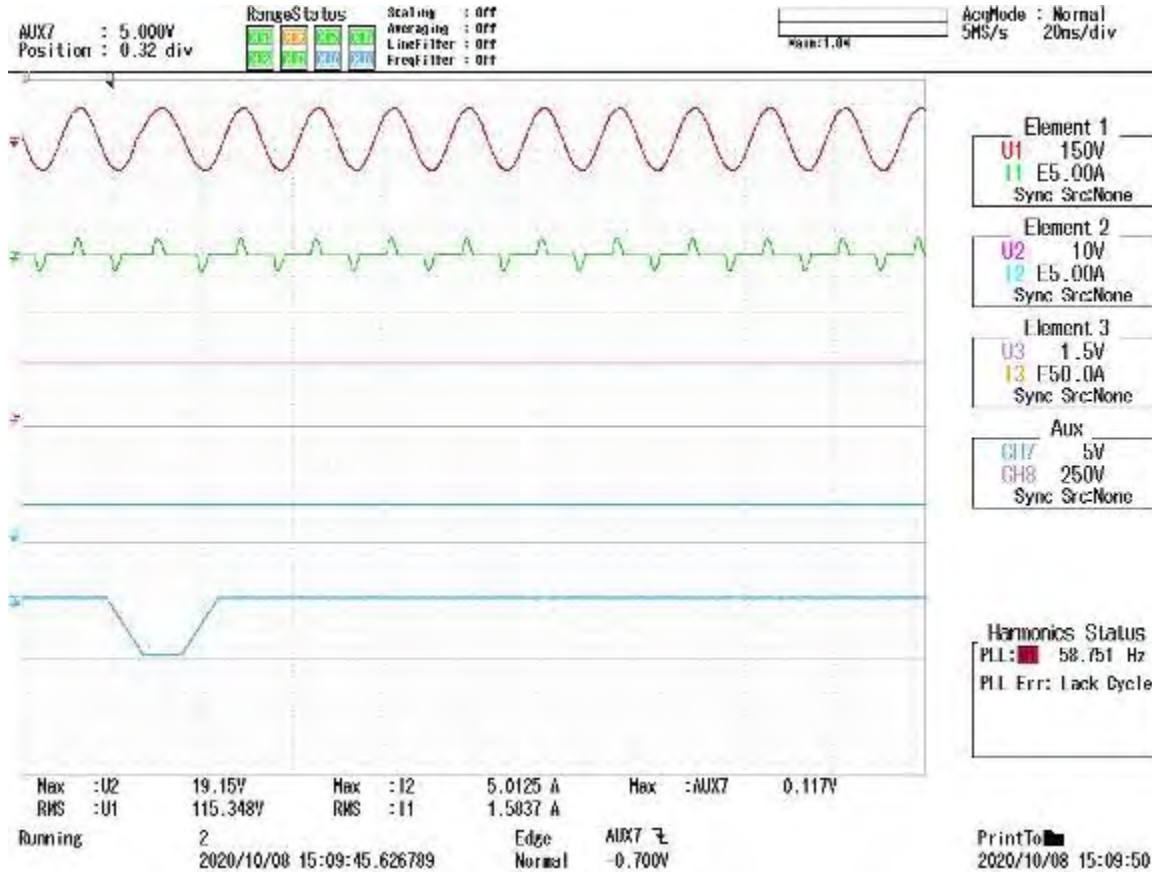
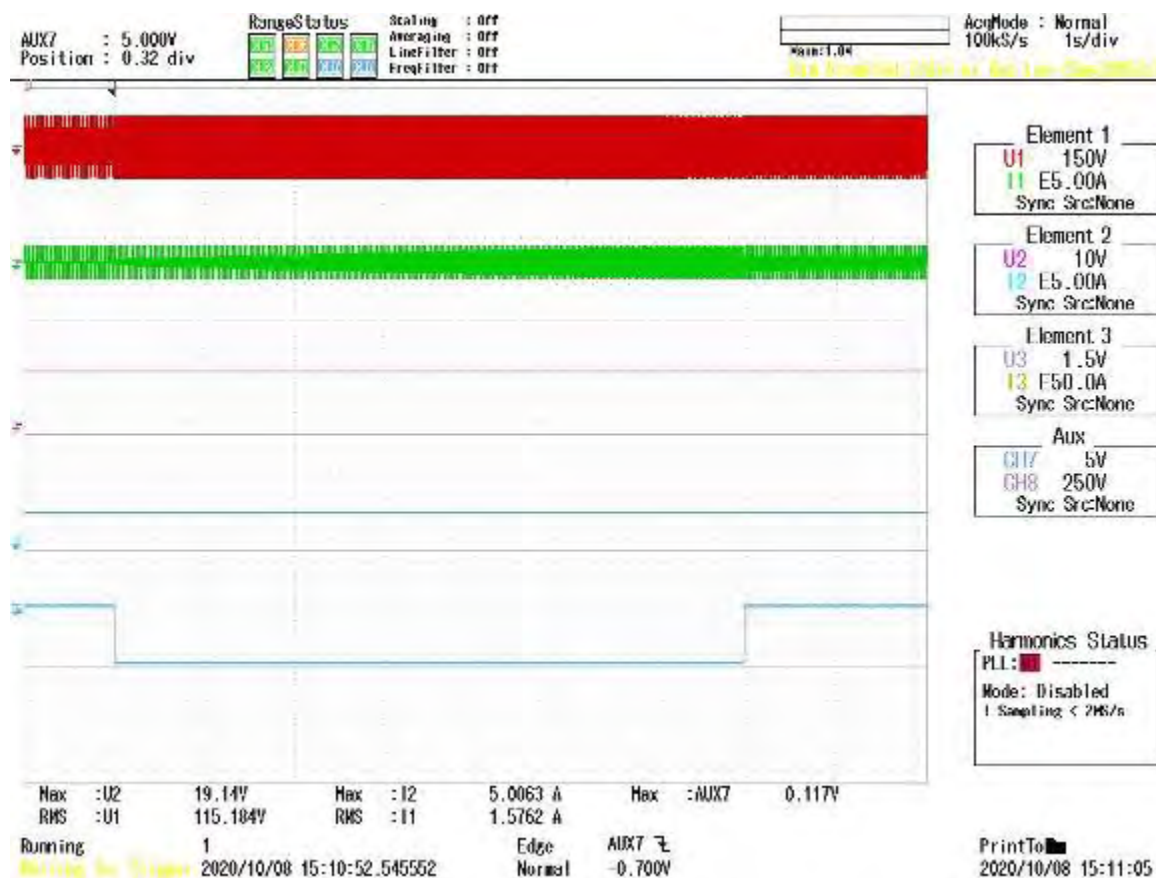


Figure L-79: Condition C

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage

Power Input AC, SXF303 Abnormal Fregeuency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	27 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



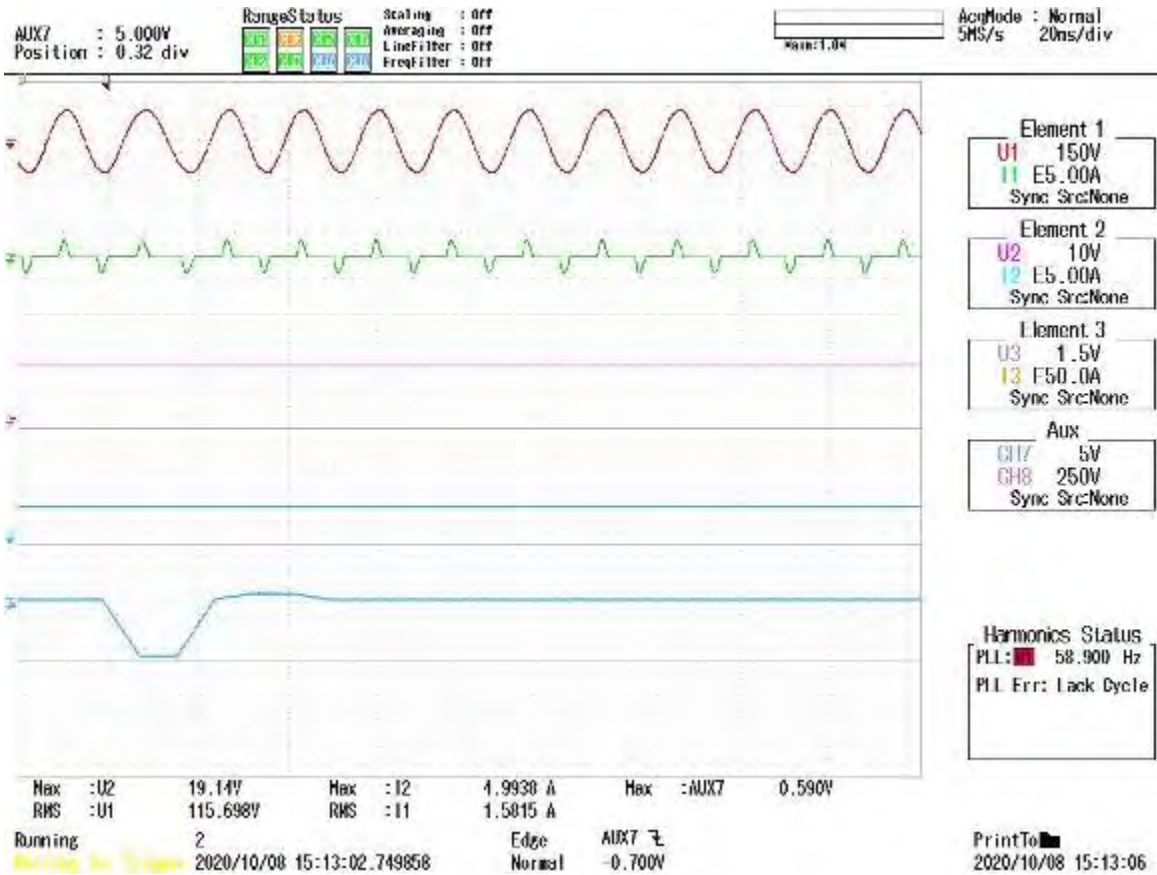
Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF303 Abnormal Frequency Transients

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	28 of 28
Project number	61179	Specification	MIL-HDBK-704-6, SXF303				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Appendix M: SXF601 Power Failure



Data sheet

Power Input AC, SXF601 Power Failure

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
360-060	Power scope	X	210-059	Multimeter	X	
230-098	Probe	X	310-094	Arbitrary waveform generator	X	
310-036	Arbitrary waveform generator	N/A	230-121	Probe	X	
350-153	Amplifier	N/A	290-015	Micro-ohmmeter		

Power Input AC, SXF601 Power Failure Test results						
Condition	Nominal voltage	Duration	EUT mode	Repetitions	Result	Notes
A	115 Vac	100 mSec	N/A	N/A	N/A	Figures M-1 through M-3, calibration
B	115 Vac	500 mSec	N/A	N/A	N/A	Figures M-4 through M-6, calibration
C	115 Vac	2 Sec	N/A	N/A	N/A	Figures M-7 through M-9, calibration
A	115 Vac	100 mSec	Operating, 5A load	5	Pass	Figure M-10
B	115 Vac	500 mSec	Operating, 5A load	5	Pass	Figure M-11
C	115 Vac	2 Sec	Operating, 5A load	5	Pass	Figure M-12

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet
Power Input AC, SXF601 Power Failure

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph M-1: EUT identification



Data sheet
Power Input AC, SXF601 Power Failure

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		



Photograph M-2: Test setup



Data sheet

Power Input AC, SXF601 Power Failure

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

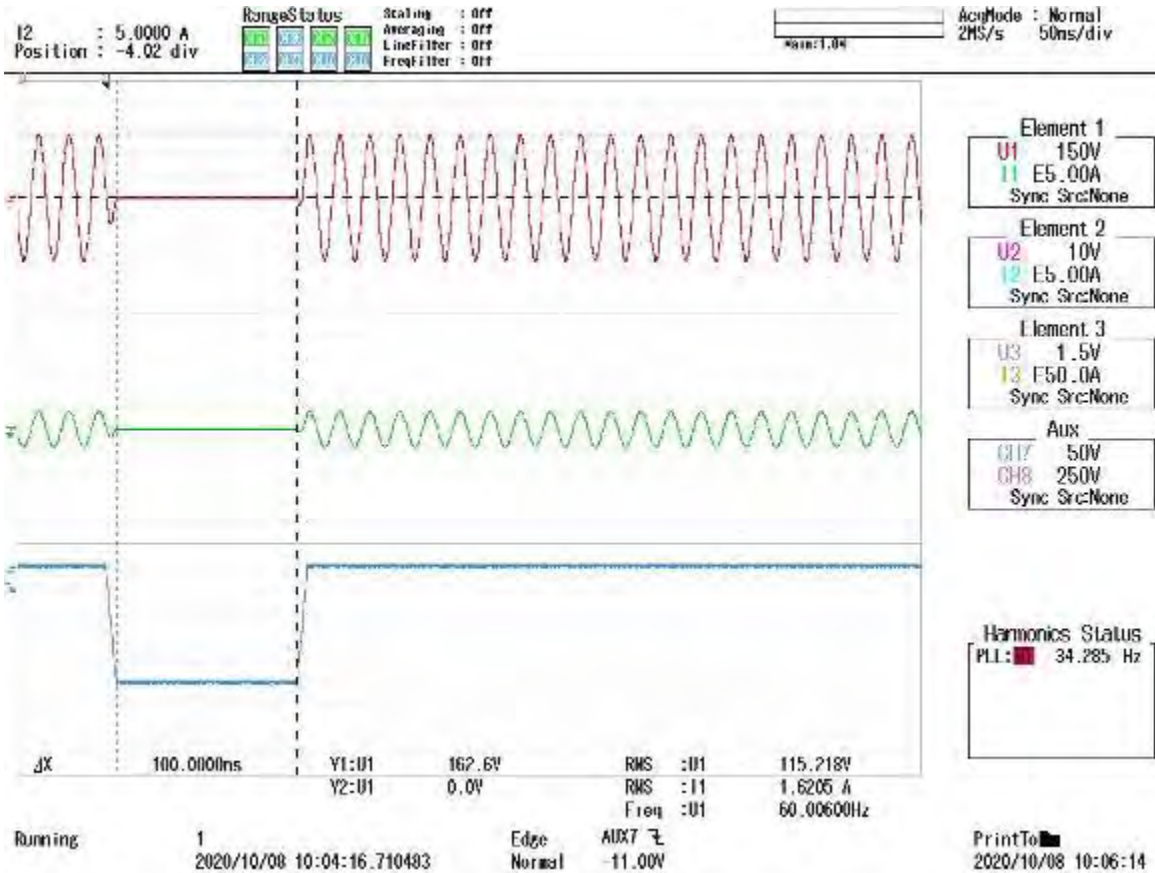


Figure M-1: Condition A, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF601 Power Failure

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

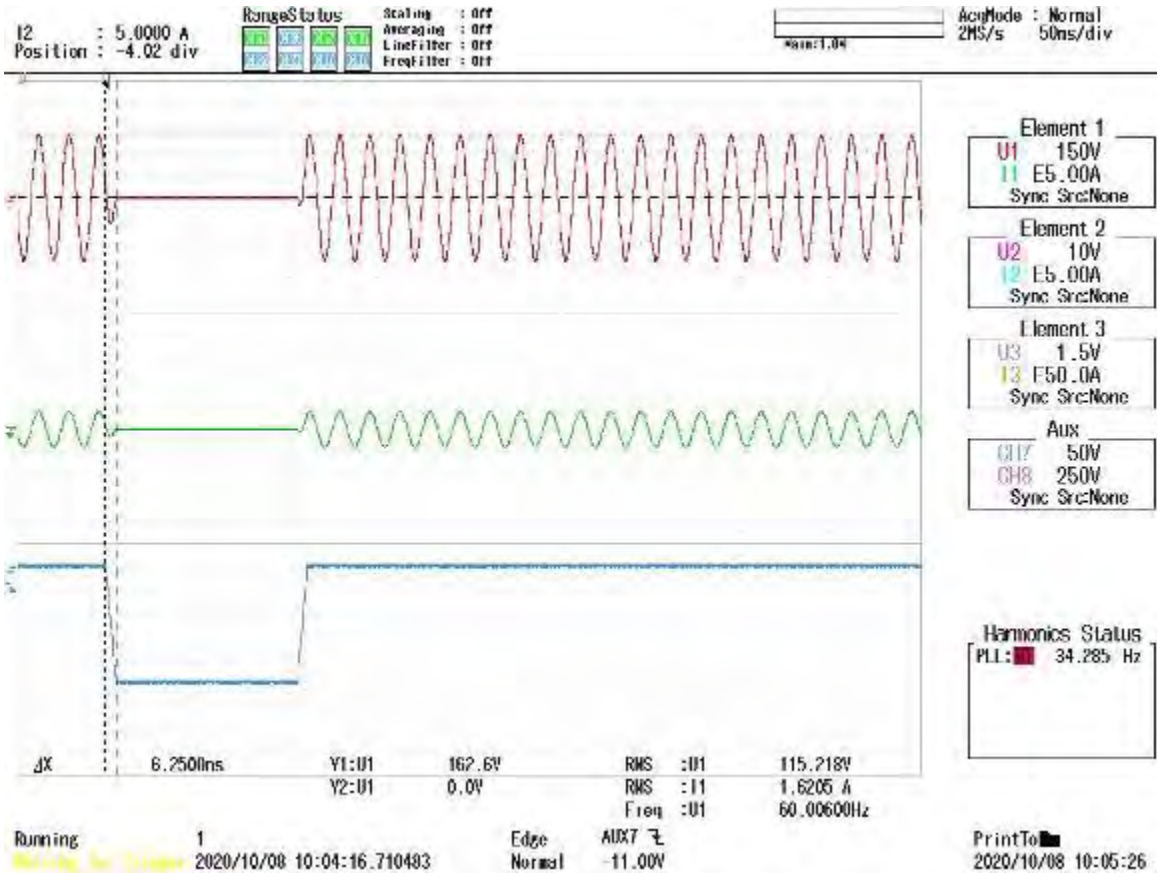


Figure M-2: Condition A, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF601 Power Failure

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	6 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

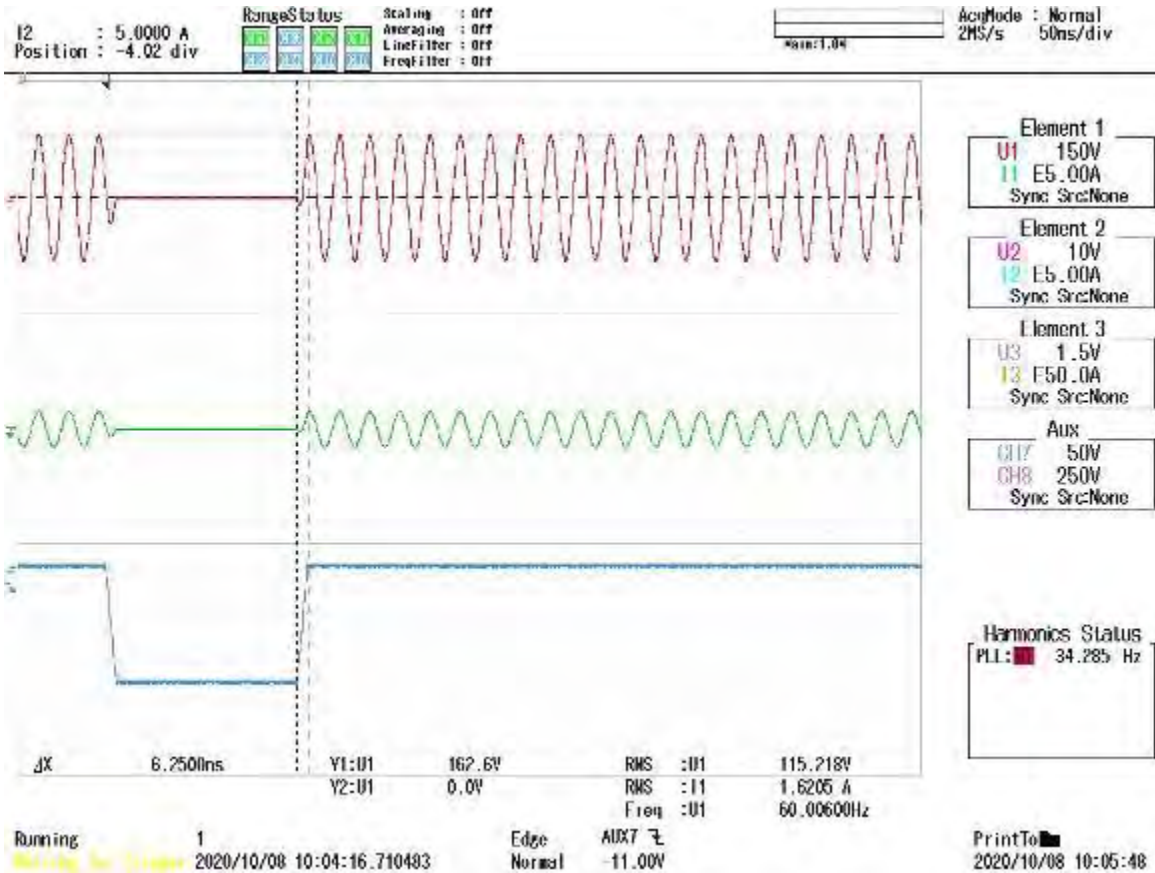


Figure M-3: Condition A, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF601 Power Failure

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	7 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

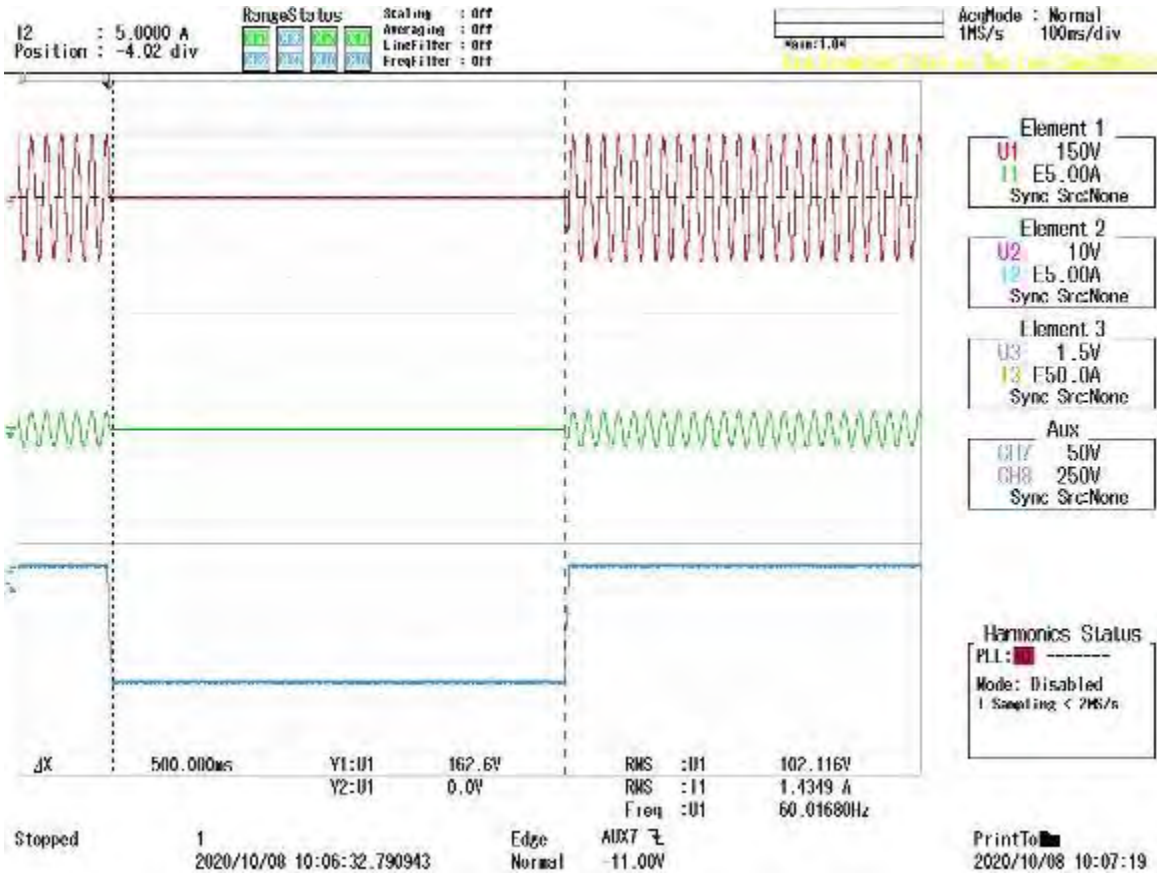


Figure M-4: Condition B, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF601 Power Failure**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	8 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

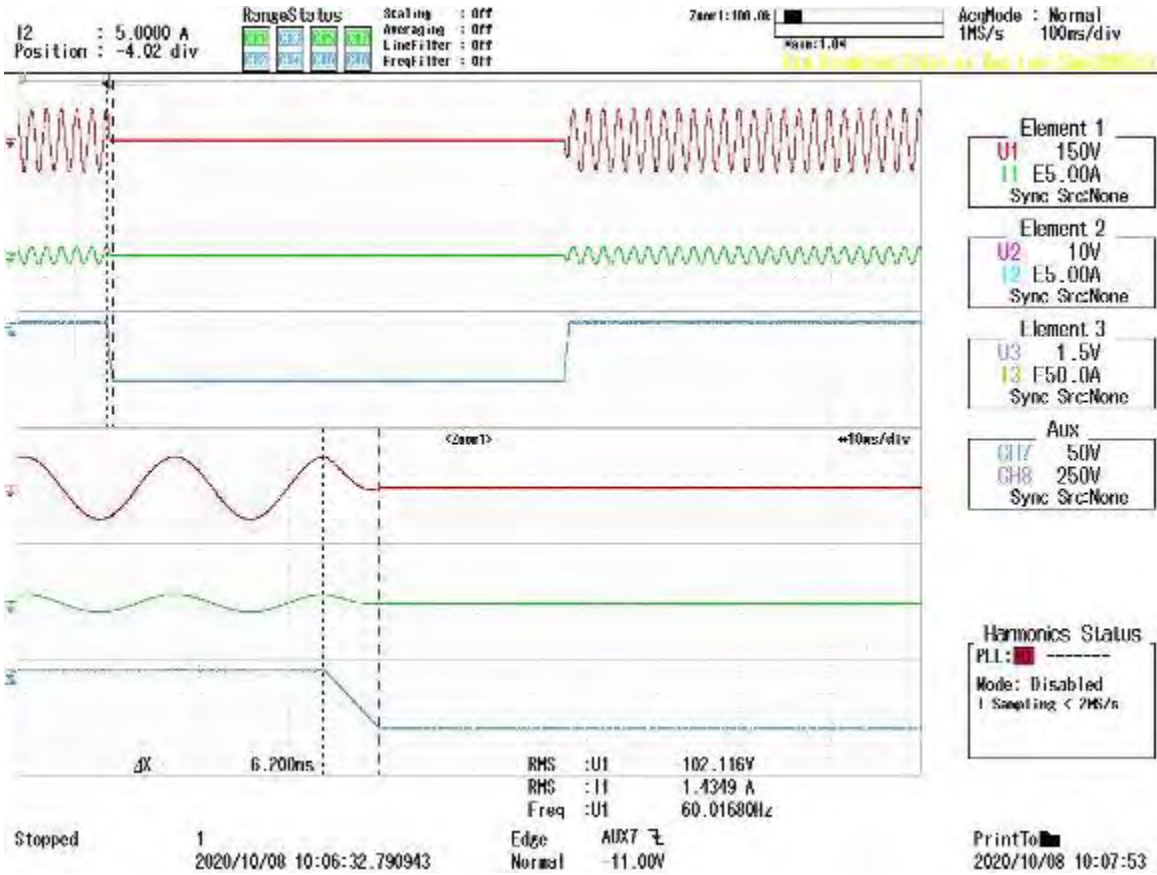


Figure M-5: Condition B, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF601 Power Failure**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	9 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

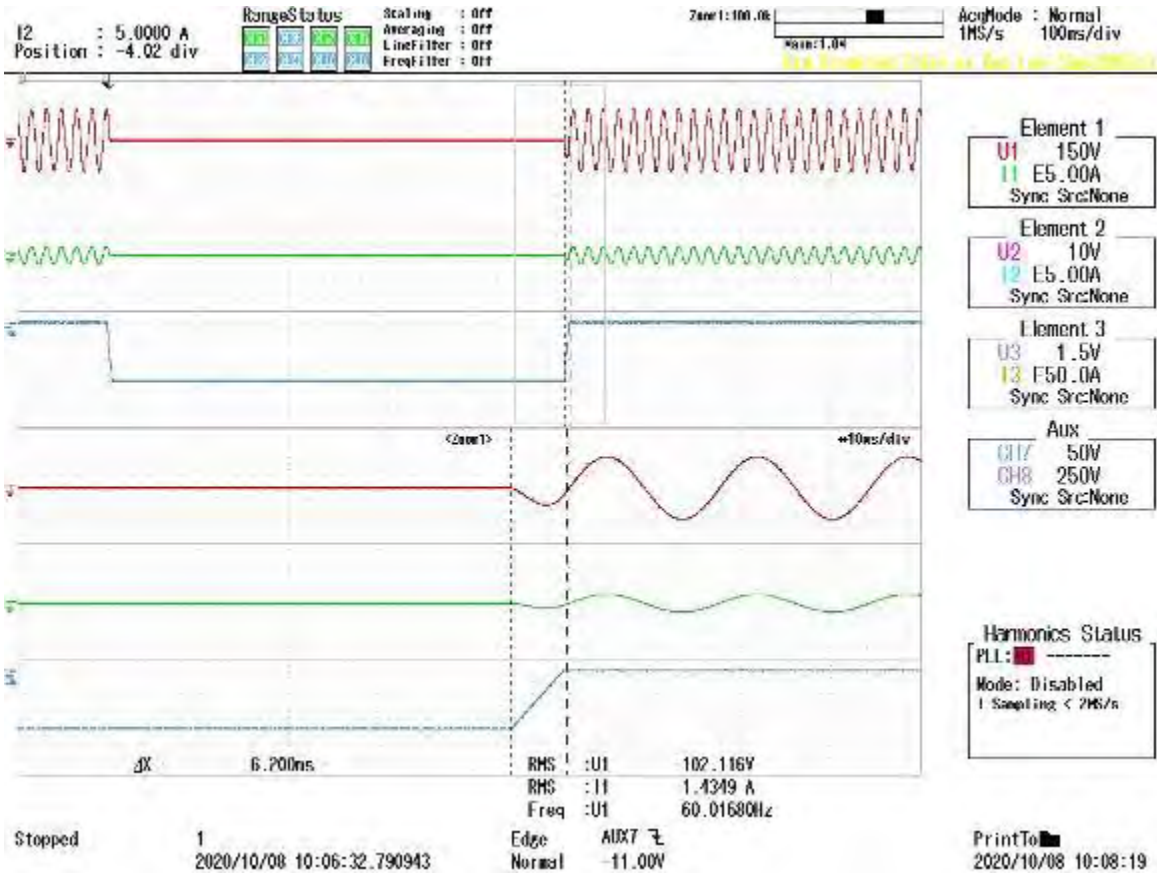


Figure M-6: Condition B, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF601 Power Failure

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	10 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

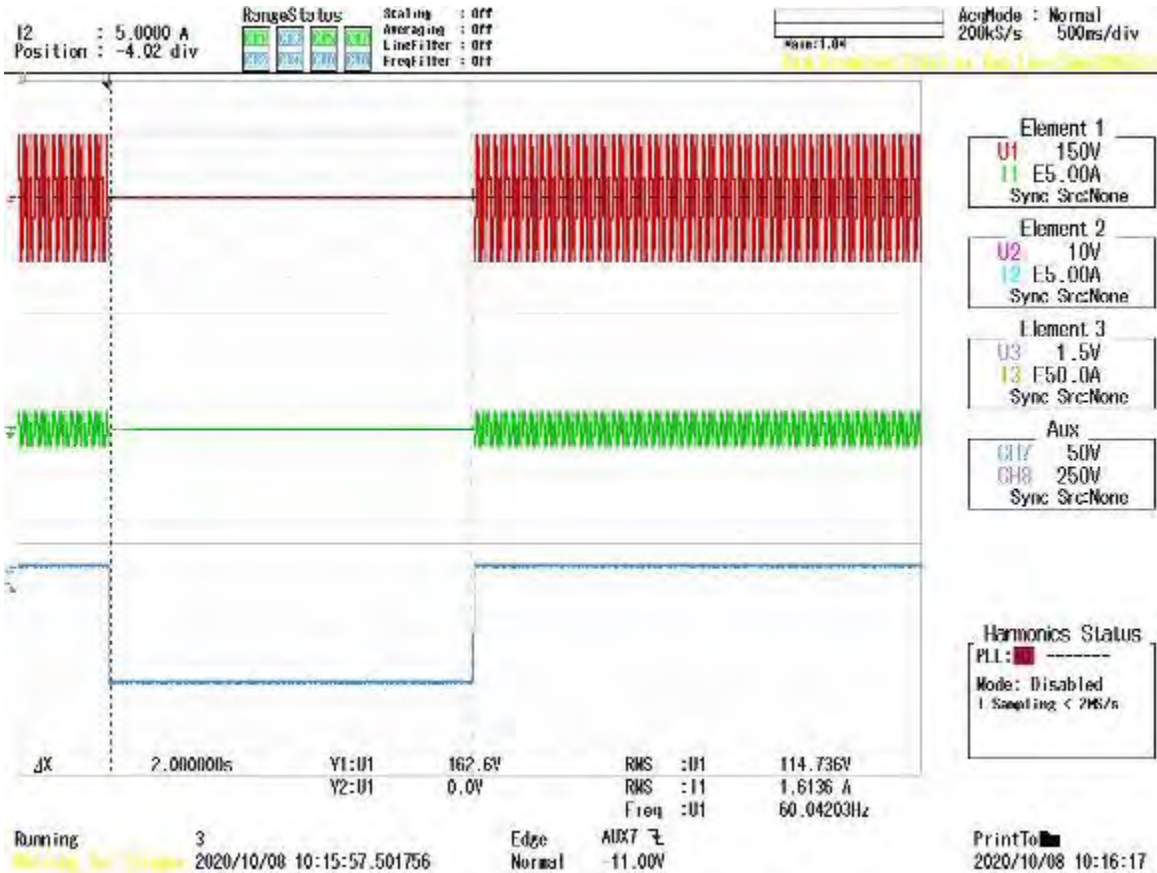


Figure M-7: Condition C, duration

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF601 Power Failure**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	11 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

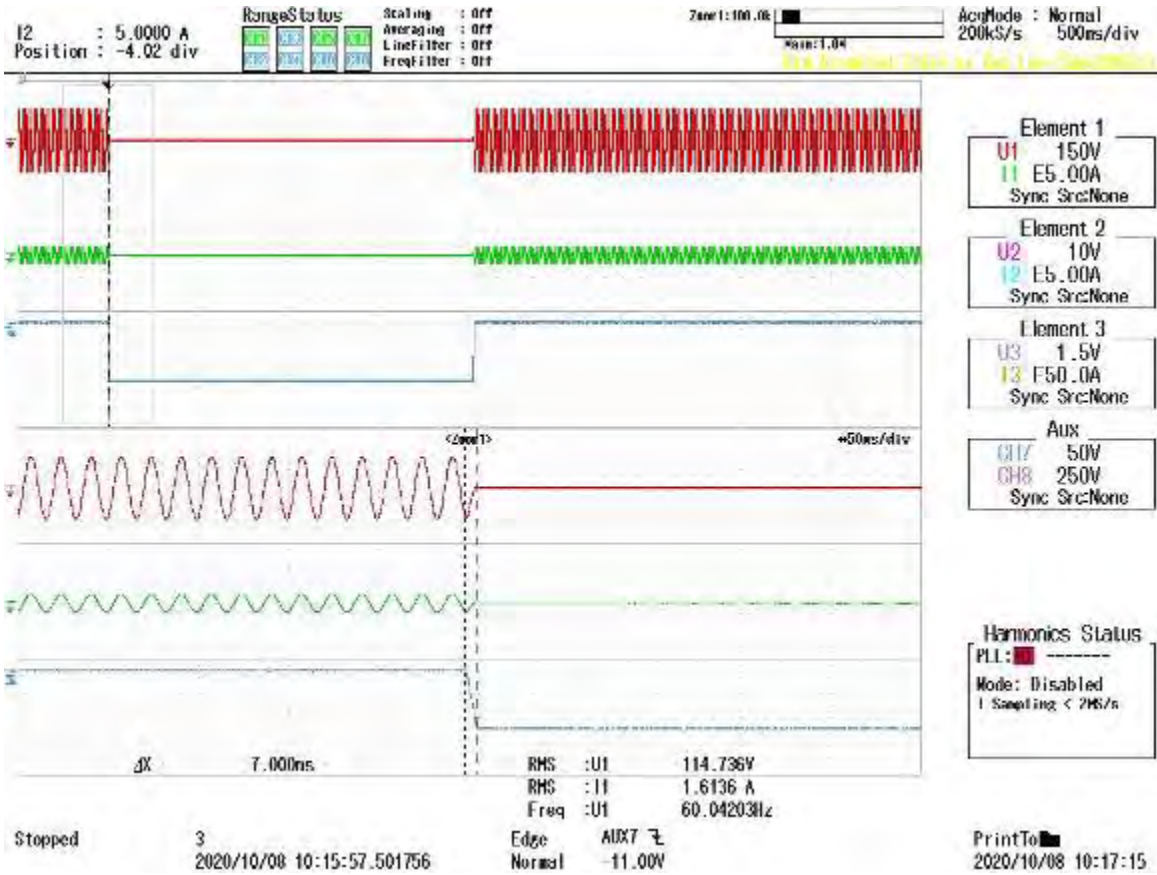


Figure M-8: Condition C, fall time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF601 Power Failure**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	12 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

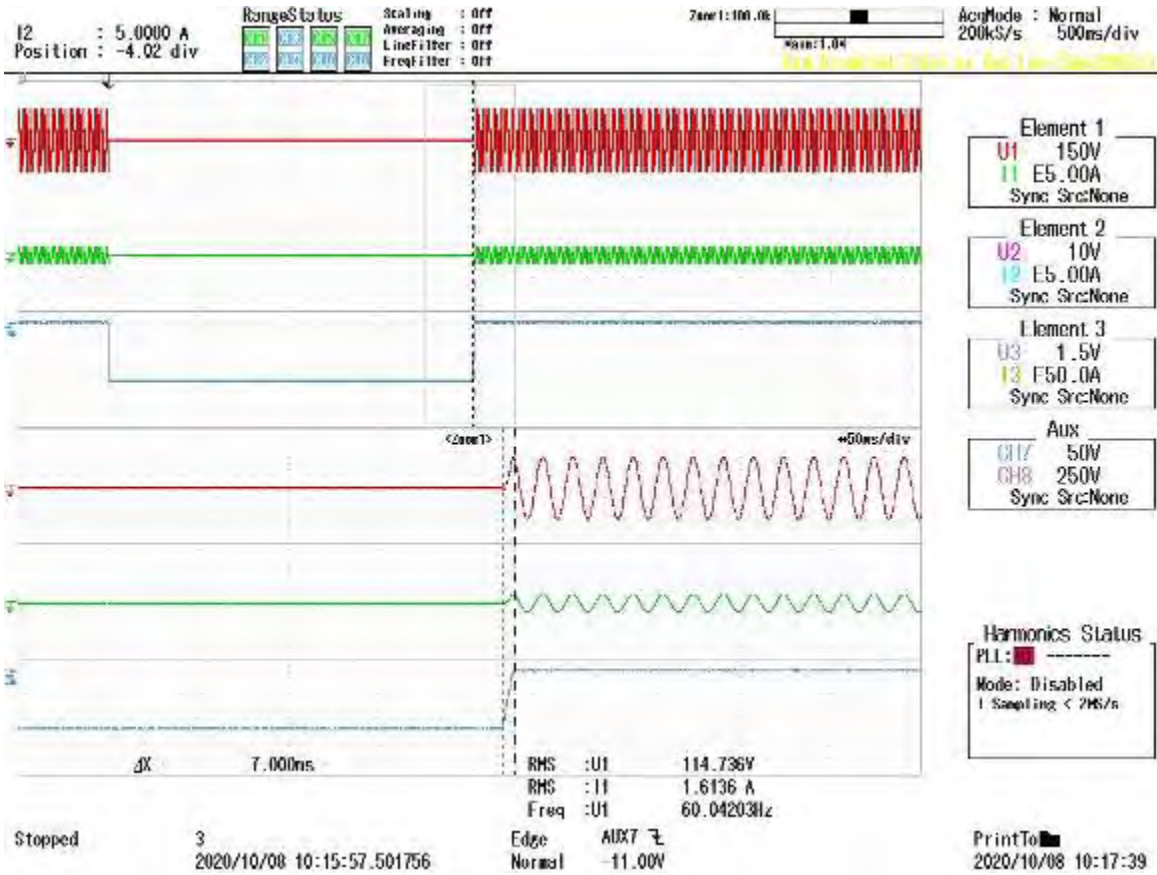


Figure M-9: Condition C, rise time

Channel U1 = voltage; channel I1 = current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF601 Power Failure**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	13 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

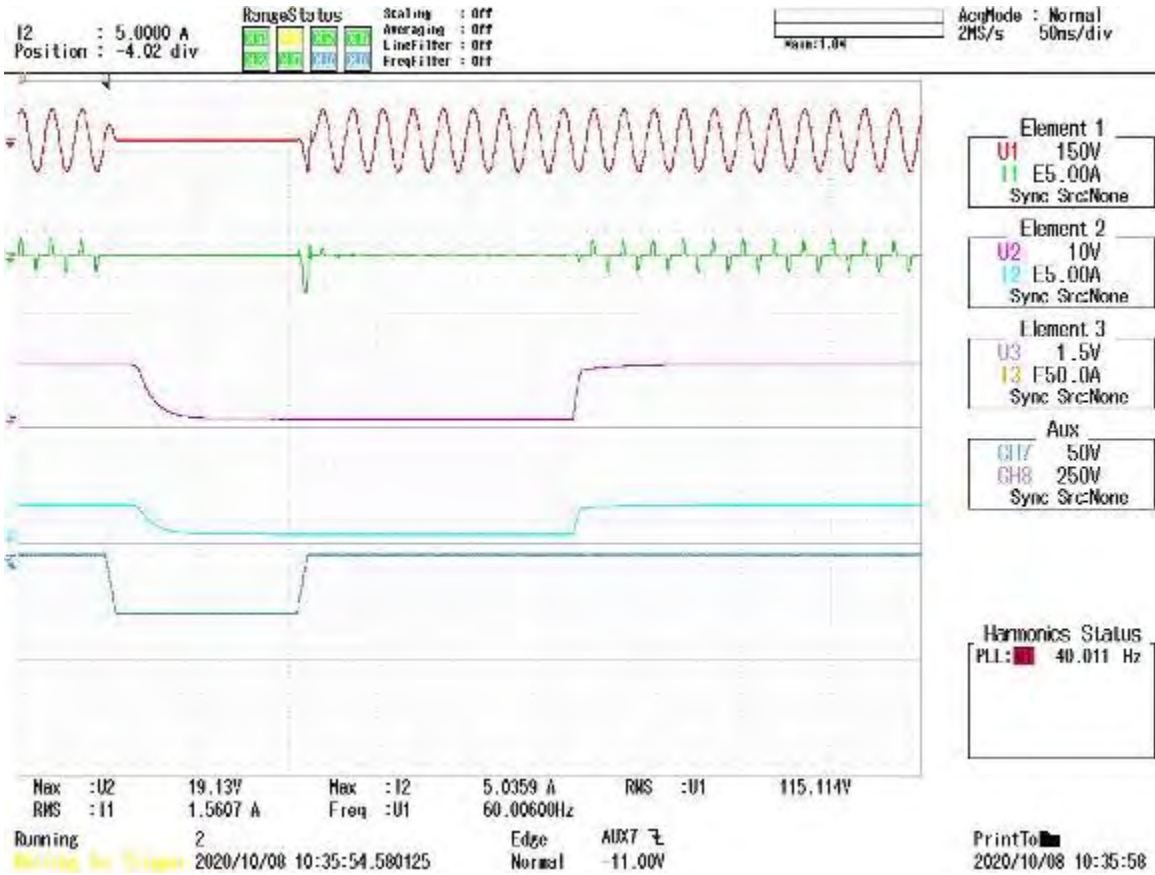


Figure M-10: Condition A

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet **Power Input AC, SXF601 Power Failure**

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	14 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

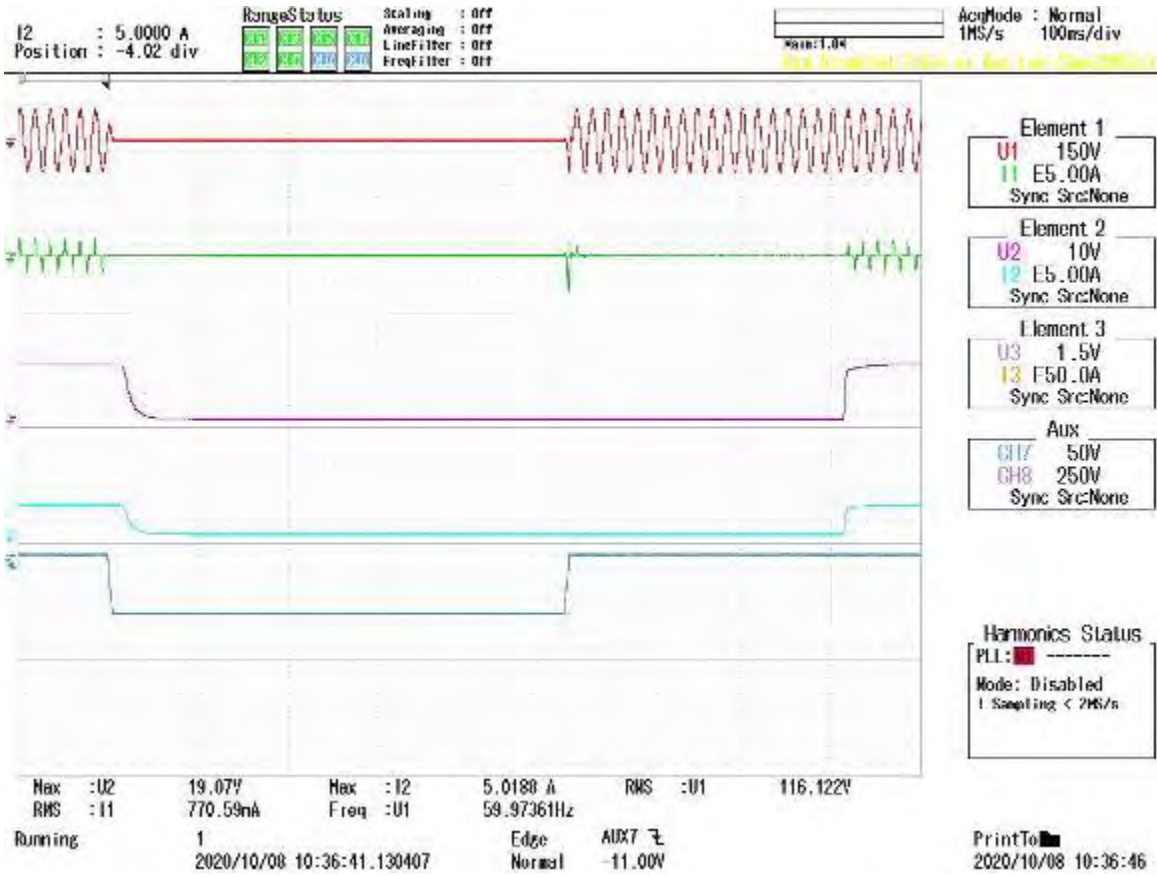


Figure M-11: Condition B

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage



Data sheet

Power Input AC, SXF601 Power Failure

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	15 of 15
Project number	61179	Specification	MIL-HDBK-704-6, SXF601				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/8/2020 to 10/8/2020	Location	Groundplane G4		

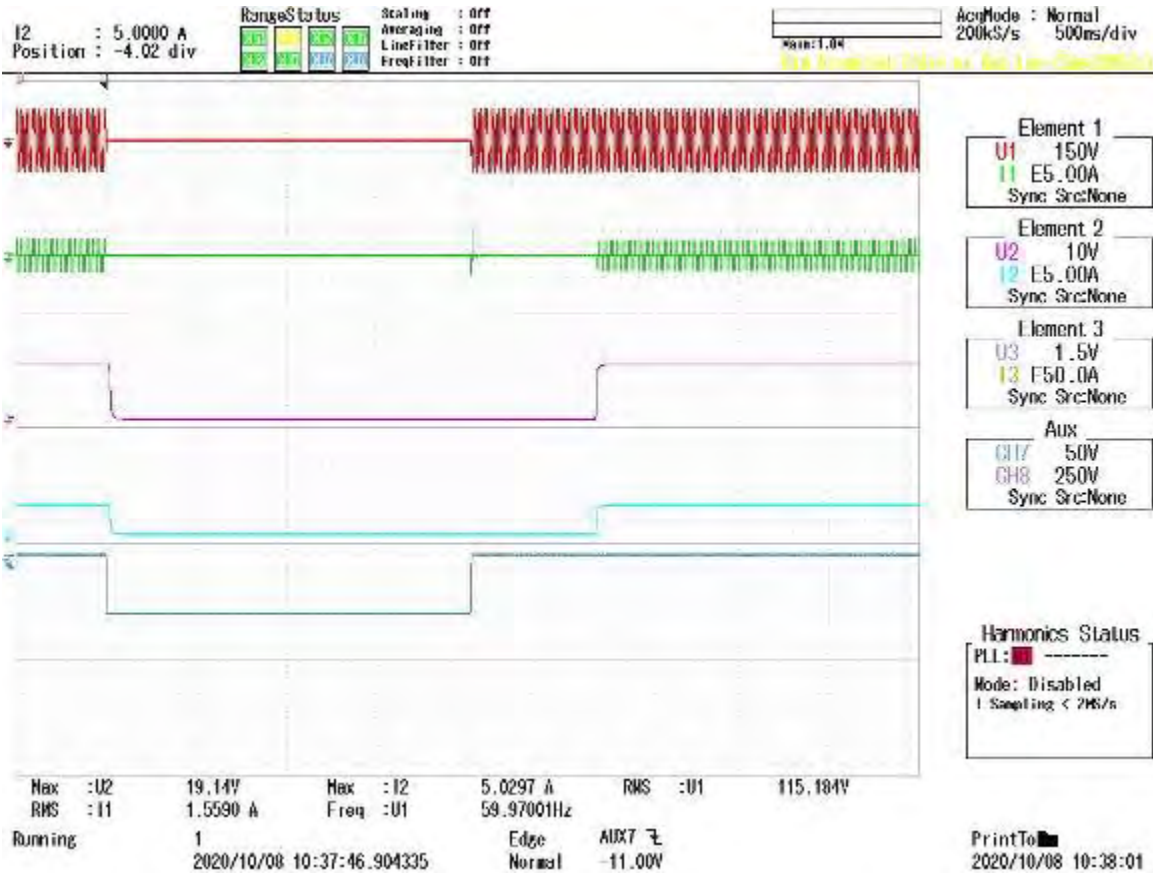


Figure M-12: Condition C

Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current; channel AUX7 = modulation voltage

Appendix N: SXF603 Phase Reversal (Single Phase)



Data sheet

Power Input AC, SXF603 Phase Reversal

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	1 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF603				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

Equipment under test information		
Description	Part number	Serial number
ACMIL1950-ZZZZ	ACMIL1950-5320	N/A

Equipment list						X = within calibration dates, N/A = calibration not necessary
Element ID no.	Equipment description	Cal?	Element ID no.	Equipment description	Cal?	
360-060	Power scope	X	210-059	Multimeter	X	
230-098	Probe	X	230-121	Probe	X	
290-015	Micro-ohmmeter	X				

Power Input AC, SXF603 Phase Reversal Test results						
EUT mode	Input voltage	Input frequency	Test phase configuration	Duration	Result	Notes
Operating	115 Vac	60 Hz	115 Vac high and neutral reversed	30 min	Pass	Figure N-1

Bonding results		
From	To	Milli-ohms
EUT ground lug	Groundplane	3.85



Data sheet
Power Input AC, SXF603 Phase Reversal

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	2 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF603				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

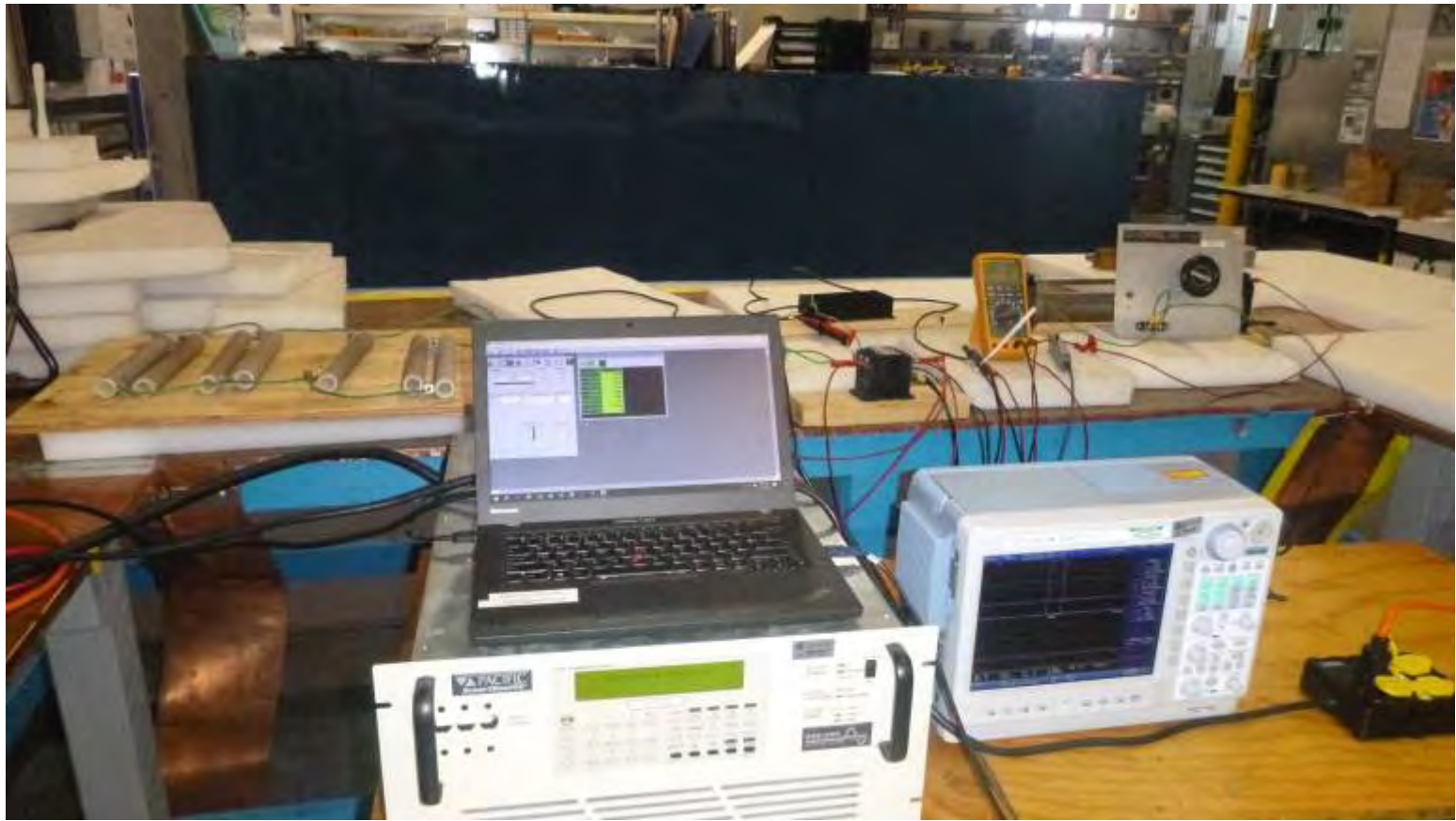


Photograph N-1: EUT identification



Data sheet
Power Input AC, SXF603 Phase Reversal

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	3 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF603				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		

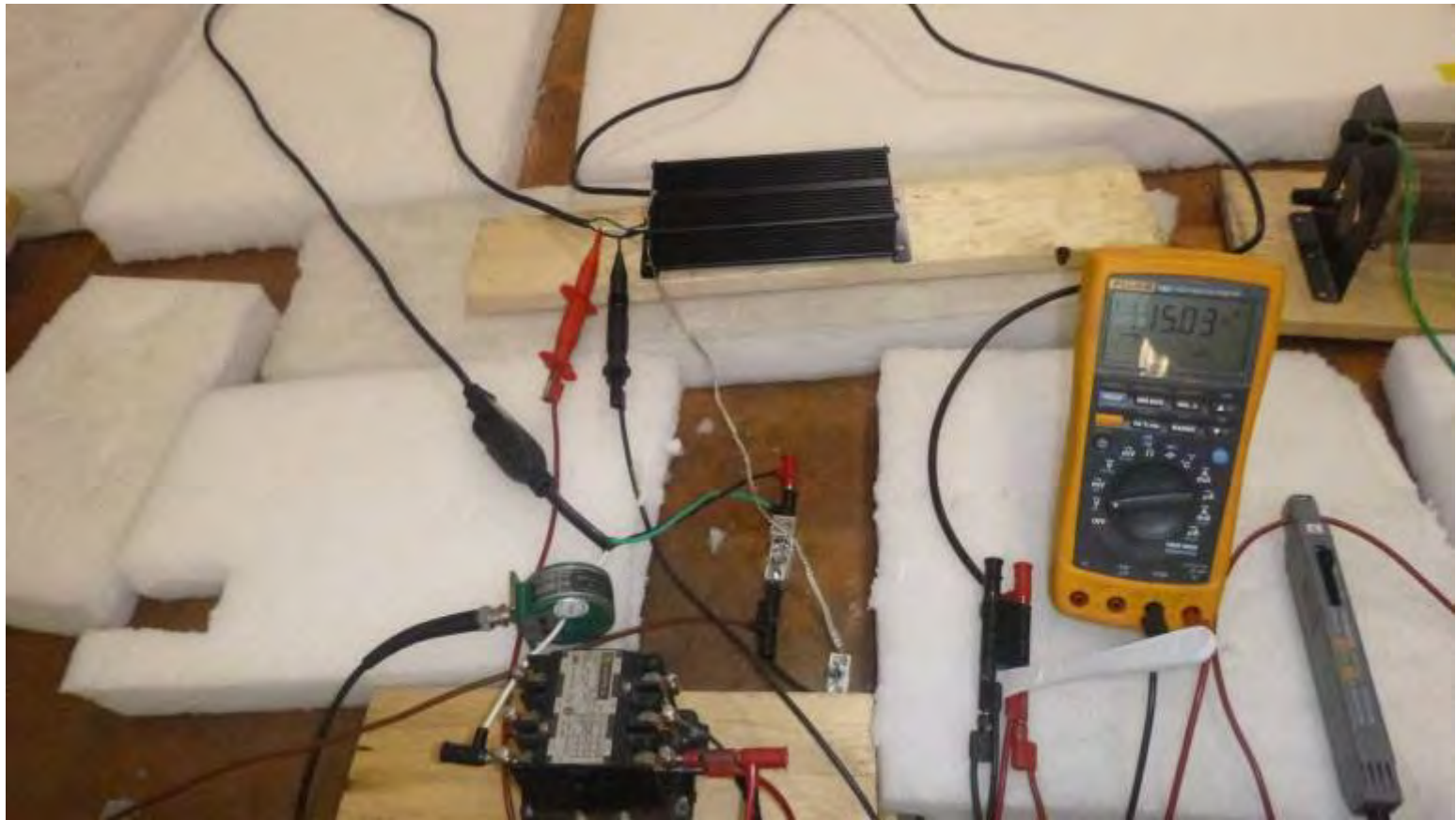


Photograph N-2: Test setup



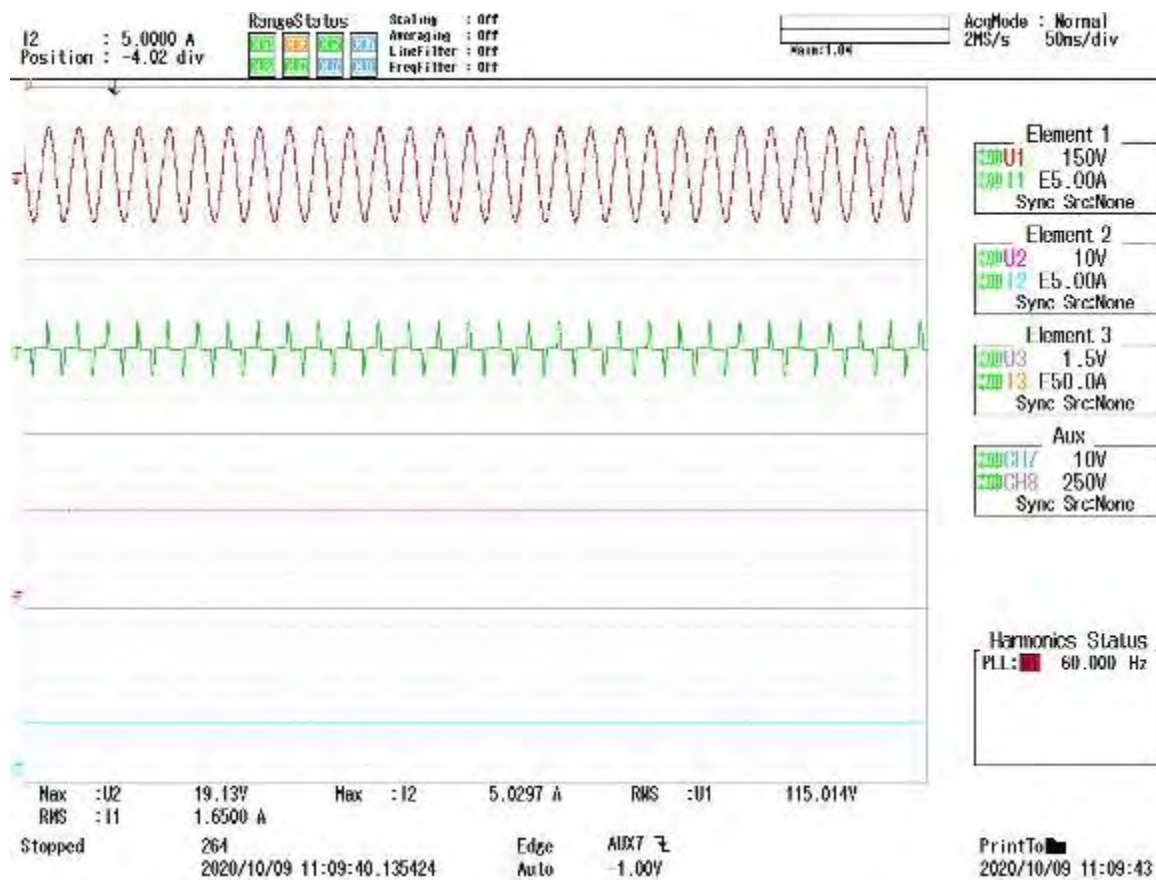
Data sheet
Power Input AC, SXF603 Phase Reversal

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	4 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF603				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		



Photograph N-3: Test setup

Company name	Lind Electronic Design Co., Inc.	Performed by	JTS	Reviewed by		Pages	5 of 5
Project number	61179	Specification	MIL-HDBK-704-6, SXF603				
DUT description	ACMIL1950-ZZZZ	Test date(s)	10/9/2020 to 10/9/2020	Location	Groundplane G4		



Channel U1 = input voltage; channel I1 = input current; channel U2 = output voltage; channel I2 = output current