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Extract Force Test Report for BFX-AT100

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Revision Change History

Revision	Description of Change	Date
1.0	Initial Release	2019/05/31

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Scope

This document describes the performance requirements, validation criteria, and the validation tests which focus on BFX-AT100 product.

Purpose

1. Provide a formal functional demonstration of the product design reliability.
2. Identify any design discrepancies.
3. Reliability assurance of trial samples which are designed and fabricated in accordance with the customer's product specifications.
4. Conduct robustness testing on early production samples in accordance to customer's product testing specification.

Table of Testing Results Summary

NO.	Test Item	Test Result
1	Extract Force Test	HDMI port: Pass USB port: Fail MIC port: Fail

Sample Information



1. Extract Force Test

Purpose: Verify the extract force of HDMI/USB/MIC port.

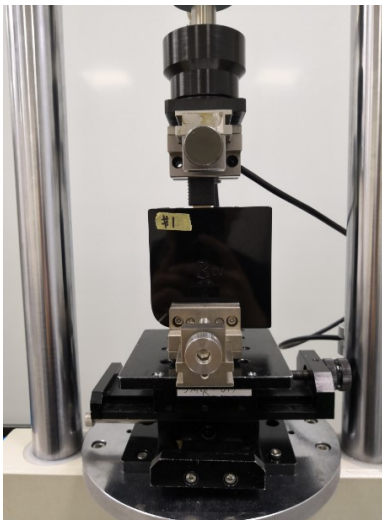
Quantity: 2 units

Test Objective:

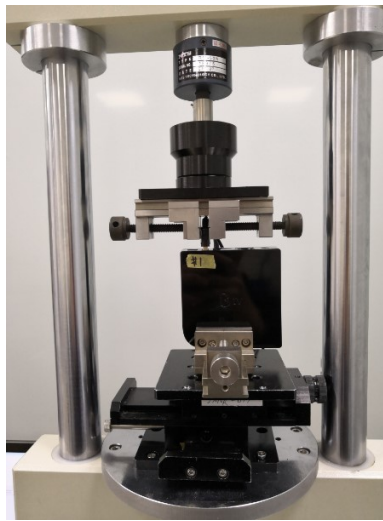
Measure the extract force for 10 times.

Speed: 20mm/min

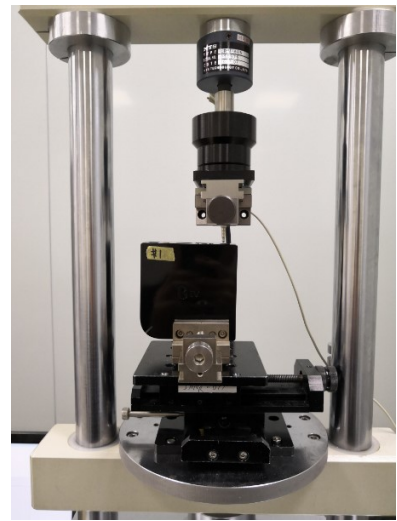
Test Picture:



HDMI port

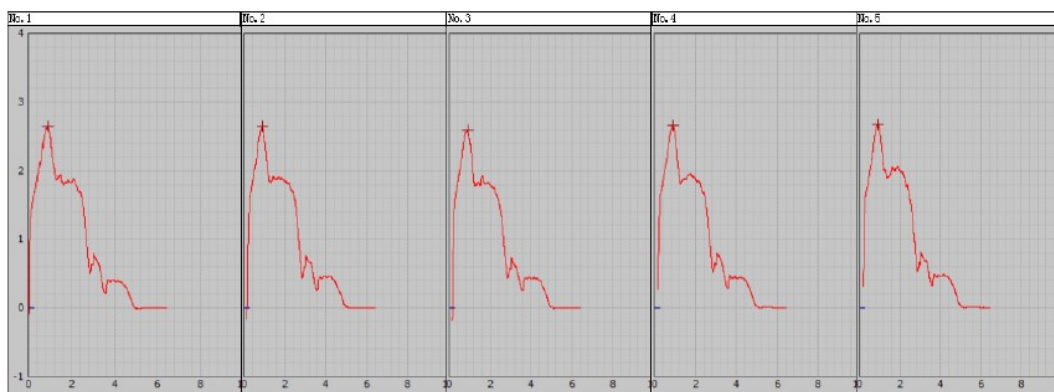


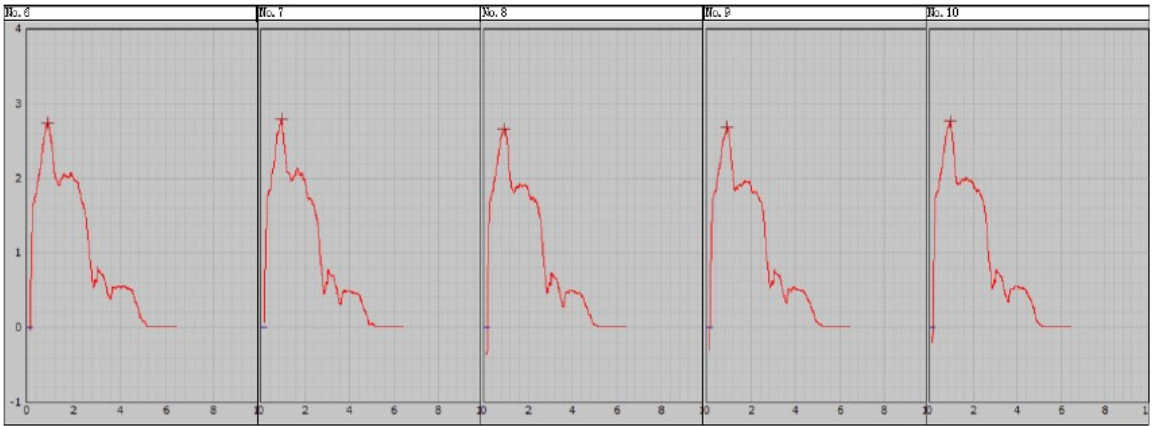
USB port



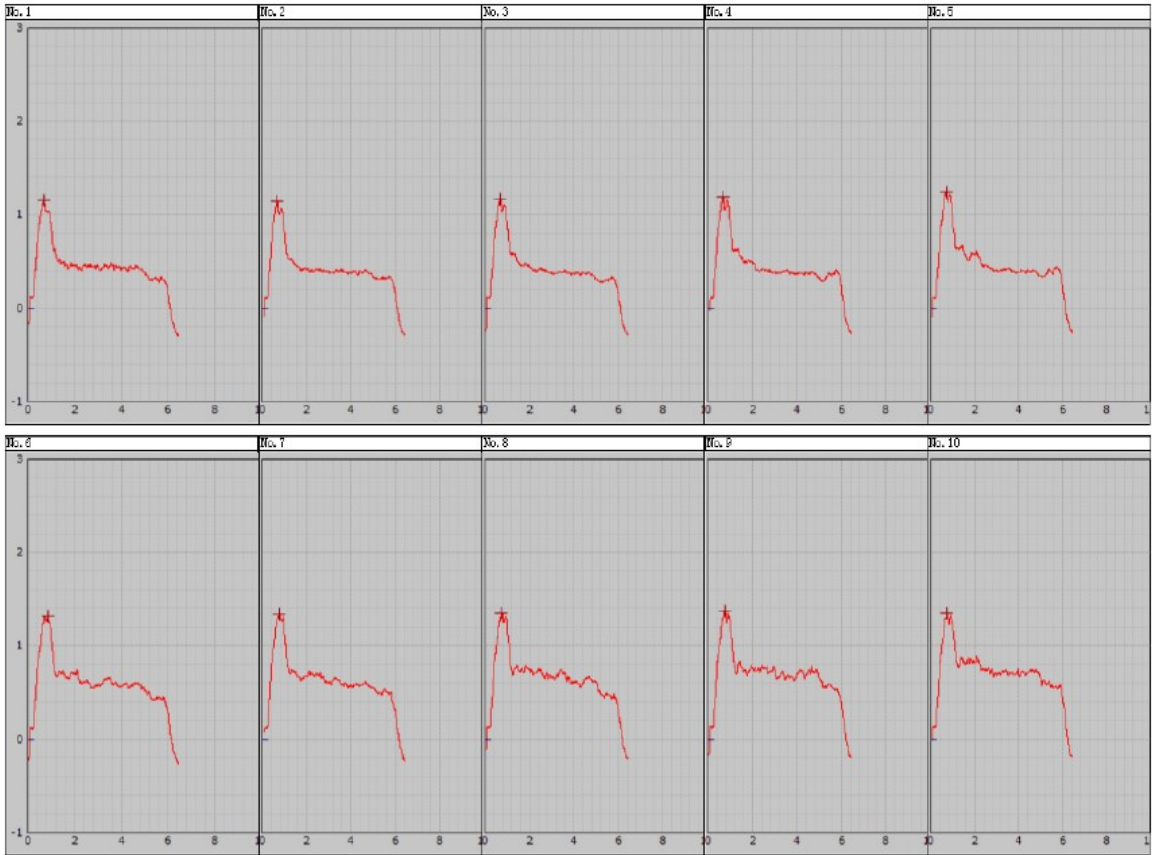
MIC port

HDMI port

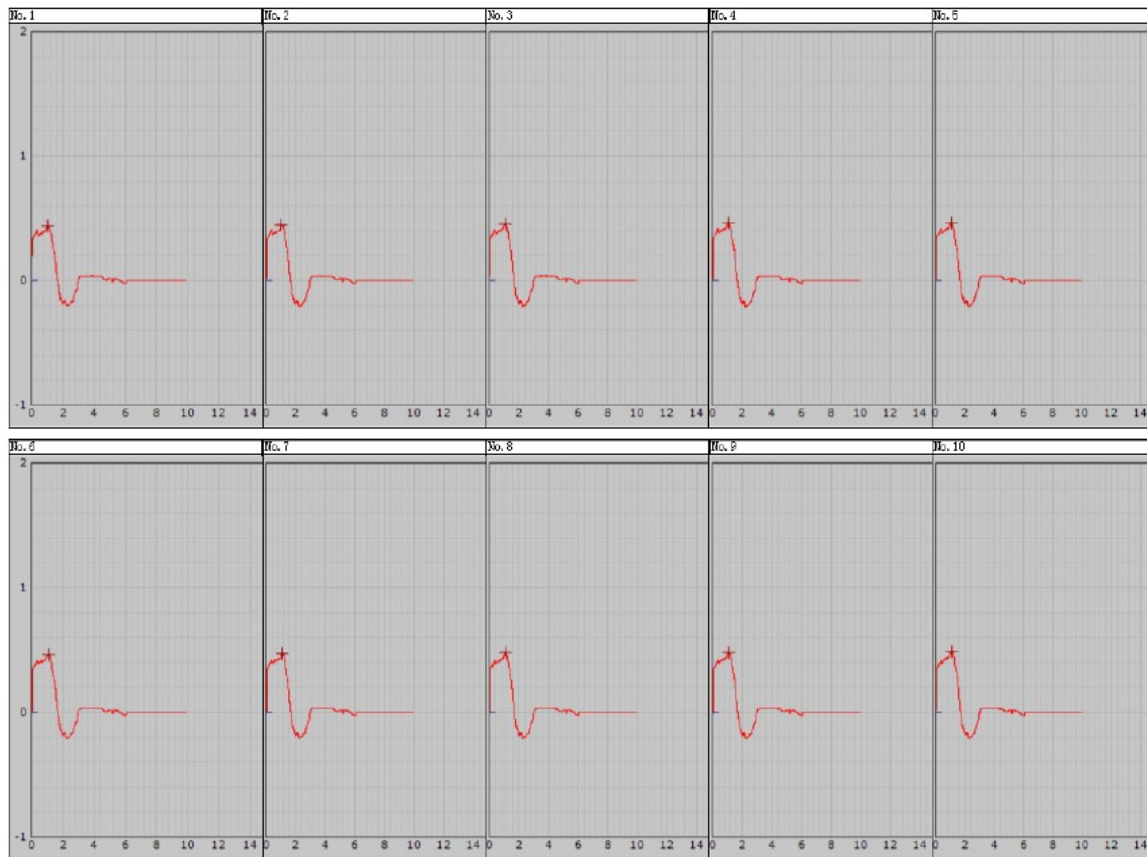




USB port



MIC port



Test Procedure:

1. Fix the UUTs by fixture of Precision Load Tester, make sure both male connector and female connector opposite to each other straightly before test.
2. Measure the extract force for 10 times.
3. Record the data each time.

Pass Criteria:

Extract force (average of 10 times):

HDMI port > 1.34kgf

USB port > 2.2kgf

MIC port > 0.79kgf

Test Result:

HDMI Port				
NO.	Average force(kgf)	Max force(kgf)	Min force(kgf)	Result
1#	1.917	2.07	1.728	Pass
2#	2.683	2.788	2.589	Pass

USB Port				
NO.	Average force(kgf)	Max force(kgf)	Min force(kgf)	Result
1#	1.265	1.37	1.15	Fail
2#	1.271	1.366	1.172	Fail

MIC Port				
NO.	Average force(kgf)	Max force(kgf)	Min force(kgf)	Result
1#	0.465	0.49	0.435	Fail
2#	0.436	0.456	0.421	Fail