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Ron Smith & Associates, Inc. Testing Division

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Summary Report

Latent Print Processing Proficiency Test #23502 Issued: November 20, 2023

On September 4, 2023, Ron Smith and Associates, Inc. (RS&A) shipped the Latent Print Processing Proficiency Test #23502. Participants were required to submit their responses no later than October 13, 2023 in order for them to be included in this summary report.

A total of 93 tests were ordered and shipped, with 69 participants returning their responses. <u>This summary report is based on 276 individual responses (69 participants returning 4 responses each)</u>. The test included four items for latent print processing.

The results presented in this report reflect whether or not the participants' submitted results agree or disagree with the assigned values garnered from pre-distribution testing and outlined in *The Manufacturer's Report* (Appendix 1). The primary purpose of a Summary Report is to provide an overall documentation of all the submitted responses. It is RS&A's intention to go a step further by providing more meaningful statistical results through analyzing the submitted responses in relation to the demographics obtained from each of the examiners participating in this proficiency test. All results and statistics for this test will be outlined through graphs and charts found in the remainder of this report.

Prior to distribution of this test, all the expected responses were determined, by internal and external consensus, to be either "Friction Ridge Detail <u>was</u> Developed" or "Friction Ridge Detail <u>was not</u> Developed". In designing this proficiency test, it is understood that sometimes friction ridge detail may be present on an item during the manufacturing process. For this reason, all items are cleaned prior to being included in a test. Because of the latent nature of the prints, it is possible that some portions of friction ridge detail can be missed in the cleaning process. To satisfy this condition for the test, all developed friction ridge detail has to be photographed in order to be given credit. If the photograph is accepted, the participant will be given credit for the friction ridge development in instances when the expected answer was "Friction Ridge Detail <u>was not</u> Developed".

RS&A strives to maintain the confidentiality of all its clients and participants. All results are obtained and published using randomly generated test codes. RS&A will not release the identity of any participant without the written consent of the participant and/or the agency involved.

For any questions or further information, please contact our Proficiency Testing Coordinator by emailing testing@ronsmithandassociates.com or by calling toll free at 1-866-832-6772.



Test Manufacturer's Information

Latent Print Processing Proficiency Test #23502

This proficiency test consisted of four items labeled as Item #1 (Sunglasses), Item #2 (Lollipop Wrapper), Item #3 (Toy Car) and Item #4 (Paper). The items were similar to those normally encountered in latent print processing casework. The participant was required to process the items for the presence or absence of friction ridge detail. The assigned values are as follows:

Item #	Assigned Value		
Item #1 (Sunglasses)	Friction Ridge Detail <u>Was Not</u> developed		
Item #2 (Lollipop Wrapper)	Friction Ridge Detail <u>Was</u> Developed		
Item #3 (Toy Car)	Friction Ridge Detail <u>Was</u> Developed		
Item #4 (Paper)	Friction Ridge Detail <u>Was</u> Developed		

The assigned values below were determined through the ground truth information and verified through unanimous agreement during pre-distribution testing.

Known Matrix used:

Item 1: N/A, Item 2: Sebaceous oils, Item 3: Sebaceous oils, Item 4: Amino Acids

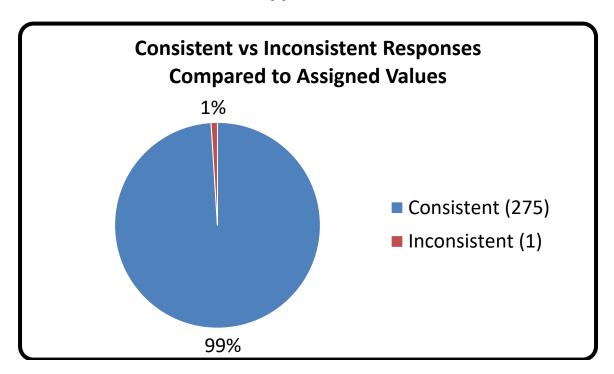
Individual reports will be provided to participants by early November 2023. The final summary report for this test will be posted on the Ron Smith and Associates website by mid November 2023 using the 7 following link: http://www.ronsmithandassociates.com/proficiency/lpprocessing.html

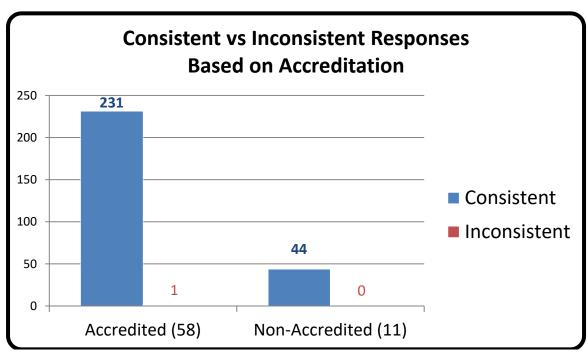
It is recommended to postpone evaluating an individual's performance until after you have received the statistical averages contained in the summary report.

For any questions or further information, contact the Proficiency Testing Coordinator by emailing testing@ronsmithandassociates.com or call toll free at 1-866-832-6772.

Authorized by: Jon Byrd, CEO **Issue Date:** October 23, 2023



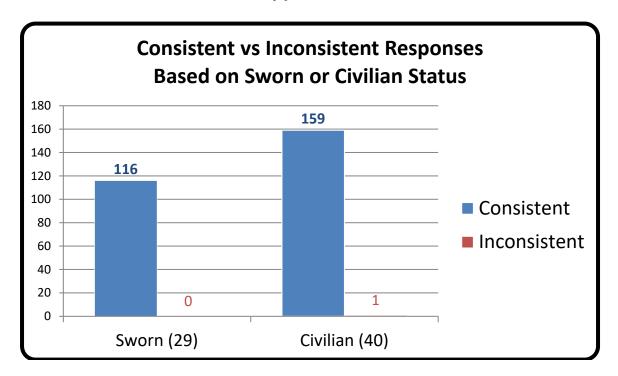


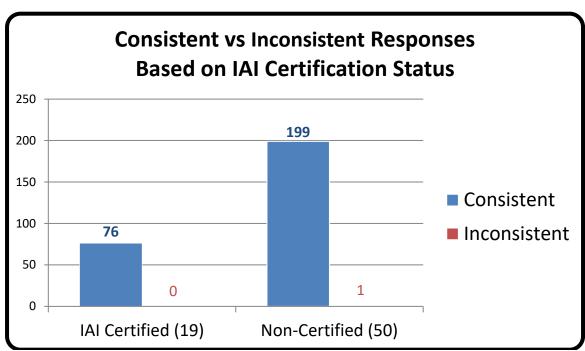


^{*}Numerical values shown are based on **69 participant submissions**, **each with 4 responses**, **equaling 276 total responses**.



^{*}For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

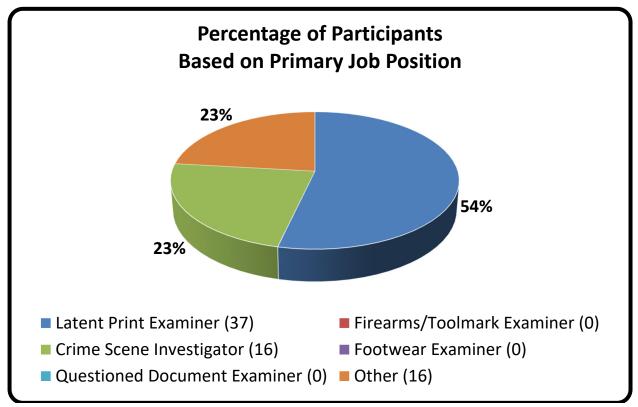


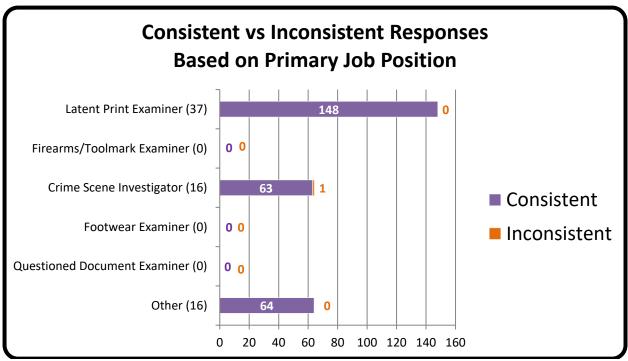


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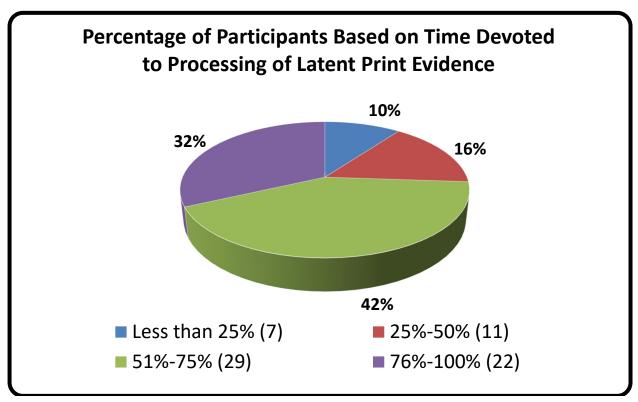


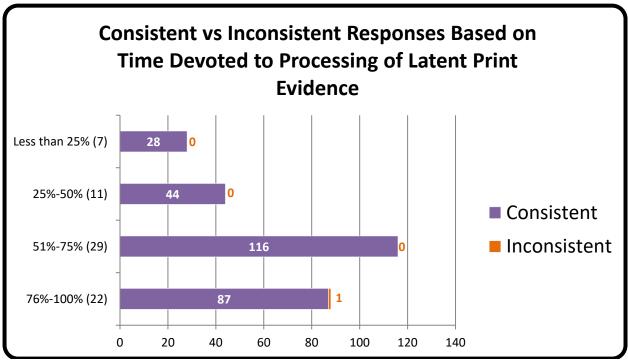


^{*}Numerical values shown are based on **69 participant submissions, each with 4 responses, equaling 276 total responses**.

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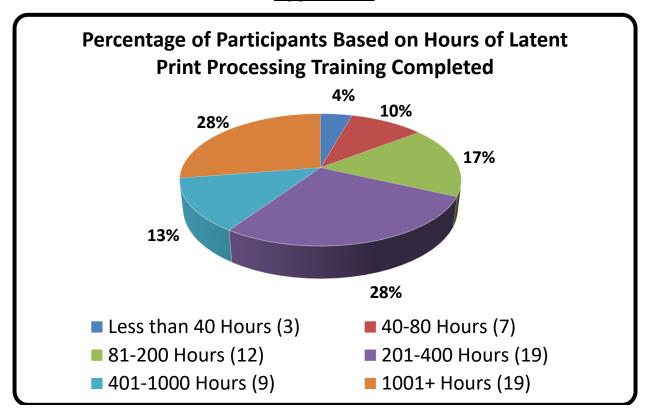


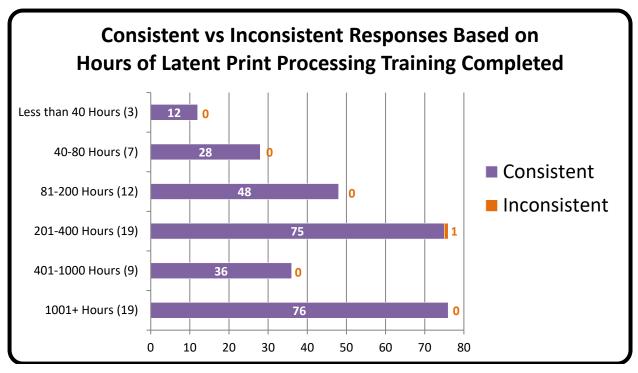


^{**}Numerical values shown are based on **69 participant submissions, each with 4 responses, equaling 276 total responses**.

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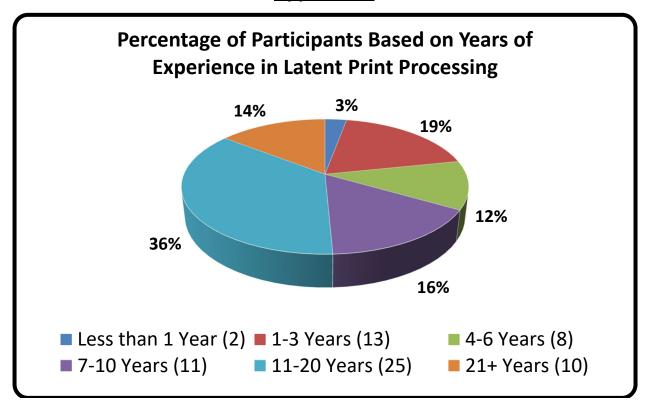


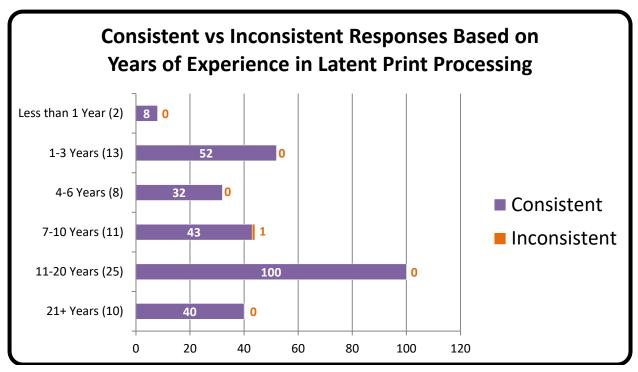


^{*}Numerical values shown are based on **69 participant submissions, each with 4 responses, equaling 276 total responses**.

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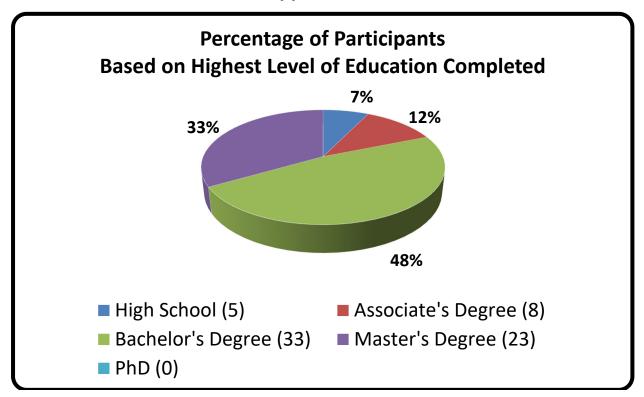


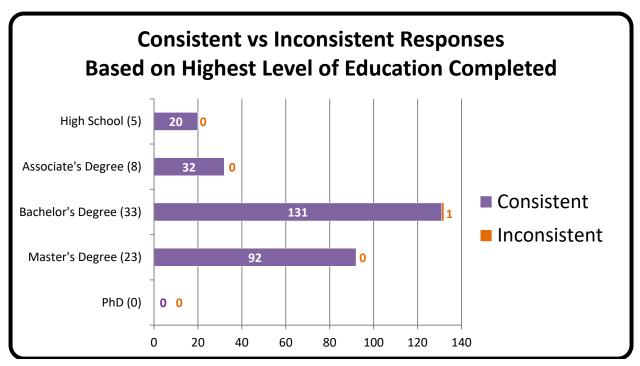


^{*}Numerical values shown are based on **69 participant submissions, each with 4 responses, equaling 276 total responses**.

^{*}For further information, please read *Manufacturer's Additional Observations* on the final page of this report.



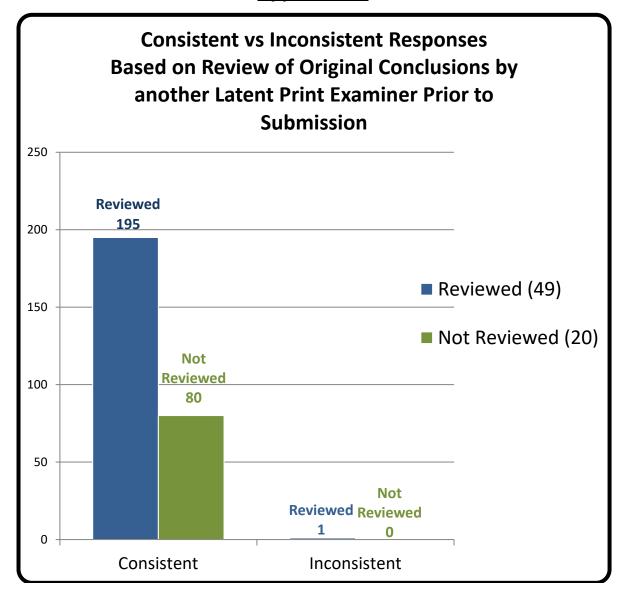




^{*}Numerical values shown are based on **69 participant submissions, each with 4 responses, equaling 276 total responses**.



^{*}For further information, please read *Manufacturer's Additional Observations* on the final page of this report.



^{*}Numerical values shown are based on **69 participant submissions**, **each with 4 responses**, **equaling 276 total** responses.



^{*}For further information, please read *Manufacturer's Additional Observations* on the final page of this report.

Participant Responses Listed by Test Code

	Item #	Item #1	Item #2	Item #3	Item #4
	Assigned Values	Friction Ridge Detail Was or Was Not Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
	4482F23502	Friction Ridge Detail Was Not Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
	9034W23502	Friction Ridge Detail Was Not Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
	7990W23502	Friction Ridge Detail Was Not Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
	5918C23502	Friction Ridge Detail Was Not Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
Code	2980K23502	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
Test Code	2013W23502	Friction Ridge Detail Was Not Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
	6917L23502	Friction Ridge Detail Was Not Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
	8320G23502	Friction Ridge Detail Was Not Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
	1608Y23502	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
	4432H23502	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph



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	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
3405E23502	Was Developed and	Was Developed and	Was Developed and	Was Developed and
	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
6768H23502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
0706023302	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
0453N33503	Was Developed and	Was Developed and	Was Developed and	Was Developed and
8153N23502	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
2702722502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
2783X23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
74.400,00500	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
7142Q23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
3223P23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
852C23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
1098F23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
3233Q23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
7580P23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
2793L23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
1937T23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
3387F23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	pilotograpii	pilotograpii	priotograpii	priotograph



	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
4901H23502	Was Developed and	Was Developed and	Was Developed and	Was Developed and
	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
1252123502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
1232123302	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
2514522502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
2514F23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
20461122502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
3046H23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
450000000	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
4588X23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
5730J23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Developed and	Was Developed and	Was Developed and	Was Developed and
6257O23502	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
8798S23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Not Developed
7670A23502	and Supported with	Supported with	Supported with	and Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
1000/0000	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
4639V23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
1441D23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
3364T23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
9940C23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	hingrograph	photograph	pilotograpii	hingrograhii



	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
3707S23502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
7456E23502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
7430623302	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
70521422502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
7653M23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
4404522502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
4194D23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
0000/00500	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
9339Y23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
40-4-00-00	Was Developed and	Was Developed and	Was Developed and	Was Developed and
1971R23502	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
2543K23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
7612U23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
589Y23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
5456S23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Developed and	Was Developed and	Was Developed and	Was Developed and
3539W23502	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
5560Z23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
7265B23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	P.I.O.COBI apii	p.iotograpii	Priotograpii	hiiotograpii



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	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
7710T23502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
5121L23502	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
3121123302	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
1070033503	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
1870R23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
7647722502	Was Developed and	Was Developed and	Was Developed and	Was Developed and
7617T23502	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
600000000	Was Developed and	Was Developed and	Was Developed and	Was Developed and
608Q23502	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
3683M23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Developed and	Was Developed and	Was Developed and	Was Developed and
7710N23502	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
7305G23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
6270023502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
4731E23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Developed and	Was Developed and	Was Developed and	Was Developed and
8223N23502	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Developed and	Was Developed and	Was Developed and	Was Developed and
2708R23502	Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail	Friction Ridge Detail
	Was Not Developed	Was Developed and	Was Developed and	Was Developed and
7622G23502	and Supported with	Supported with	Supported with	Supported with
	photograph	photograph	photograph	photograph
	photograph	hilotograpii	pilotograpii	hilotograpii



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Totals

Item #	Item #1	Item #2	Item #3	Item #4
Assigned Values	Friction Ridge Detail <u>Was</u> Not or <u>Was</u> Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph	Friction Ridge Detail Was Developed and Supported with photograph
Consistent Responses	69	69	69	68
Inconsistent Responses	0	0	0	1
Percentage of Consistent Reponses	100%	100%	100%	99%

Participant's Additional Comments

Test Code Comments



	Item No 1: In the internal part of the left lens there was an ignition of finger touch without any ridge detail.
4482F23502	Item No 3: When we opened the sealed carboard box the toy car was already split into two separate pieces.
	On the item#2 we've found a third friction ridge with a poor quality that's why we uploaded the
	two best one.
9034W23502	For the item#4 we've found one friction ridge but tried two different methods of revelation
	(Ninhydrine and Indanedione) and have uploaded the results of each one.
	Item#1 - Examined with light sources and then treated with Powder Suspension.
	Item#2 - Examined with light sources and then treated with Superglue. Superglue was then
	secondarily enhanced with Black Magnetic Powder and Basic Red 14 dye.
2980K23502	Item#3 - Examined with light sources and then treated with Superglue. Superglue was then
	secondarily enhanced with Basic Yellow 40 dye.
	Item#4 - Examined with light sources and then treated with DFO, Ninhydrin and Physical Developer
	sequentially.
04501100500	The ridge detail on Item 1 was likely an incidental touch, not intended to be part of the test, but I
8153N23502	documented it anyway.
052622502	Item 1: Very small area of ridge detail visible on outside right eye lens and frame at top outer
852C23502	corner (as worn) - not suitable for recovery after sequential treatments.
7670A23502	Se utilizaron reactivo verificados.
	Item #1 was treated with Cyanoacrylate and additionally with dactyloscopy powder;
	Item #2 was treated with Cyanoacrylate and additionally with Ardrox;
3707S23502	Item #3 was treated with Cyanoacrylate and additionally with Ardrox;
	Item #2 was treated with Ninhydrin.
	Item 1 had some marks that could have been interpreted as possible ridge detail but it was so
7653M23502	minor and insignificant compared to the others which had clear and significant ridge detail that I
	opted to answer "not developed".
	item 2 :
	- photo 1 : detection of a fingerprint, before revelation treatment (optical detection)
	- photo 2 : the same fingerprint, after revelation treatment (lumicyano)
	Observation: The trace in photo 1 is of better quality. The ridges are more contrasted and better
	defined.
	Item 3:
9339Y23502	The fingerprint was visible in optical detection, but difficult to photograph due to the curved shape
	of the support.
	To facilitate shooting, the car has been dismantled.
	Photo 1 represents the trace after revelation treatment with Lumicyano.
	Item 4:
	The treatments used on this support are Indanedione ZnCl and Ninhydrin.
	Photo 1 represents the trace after revelation treatment with Indanedione ZnCl.
	Examination Sequence: (* denotes image uploaded)
	Item 1: Visual > Fluorescence > VMD > White Powder Suspension NO MARKS
	Item 2: Visual > Visible Mark photographed* > Fluorescence > Black Powder Suspension (MARK
5/56533503	NOT FURTHER ENHANCED WITH ANY TREATMENT) Item 3: Visual > Visible Mark photographed* > Fluorescence > VMD (mark further enhanced)* >
5456S23502	Black Powder Suspension
	Item 4: Visual > Fluorescence (mark developed) > Indandione (mark further developed)* >
	Ninhydrin (mark further developed)* > Physical Developer (mark not further developed)
	Images resized down to 2MB .jpg format for upload
	mages resized down to zimb .jpg format for apidad



5121L23502	Regular Dual-Contrast powder QC: Pass +
3121123302	Ninhydrin QC: Pass +
	Item 1 did not disclose any friction ridge detail following treatment / examination.
	Item 2 developed using the superglue fuming process, visually examined using white light and
	recorded using digital photography.
3683M23502	Item 3 developed using the superglue fuming process, visually examined using white light and recorded using digital photography.
	Item 4 developed using Indandione, visually examined using green 532nm laser and recorded using
	digital photography. Sequentially treated using the Ninhydrin process, visually examined using
	white light and recorded using digital photography.

Manufacturer's Additional Observations

Based upon a review of the submitted responses, the following observations were noted:

1) There was only one inconsistent response that could not be supported.

Authorized by: Jon S. Byrd, CEO

Date of Issue: November 20, 2023

