



Tenprint Examination

Test No. 23-5141 Summary Report

Each digital sample set contained twelve single-print card pairs, eight questioned tenprint cards, and eight tenprint card standards. Participants were asked to compare the two prints within each single-print pair to determine whether or not they originated from the same source. They were also asked to compare each questioned tenprint card to the standard cards to determine if any shared a common source. Data were returned from 45 participants and are compiled into the following tables:

<u>Report Contents:</u>	<u>Page</u>
<u>Manufacturer's Information</u>	<u>2</u>
<u>Summary Comments</u>	<u>3</u>
<u>Table 1: Single-Print Comparisons</u>	<u>4</u>
<u>Table 2: Tenprint Comparisons</u>	<u>28</u>
<u>Table 3: Additional Comments</u>	<u>44</u>
<u>Appendix: Data Sheet</u>	

This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

Manufacturer's Information

Each digital sample set consisted of single-print card pairs and tenprint cards for comparison. Items Q1-Q12 contained a series of single-print pairs, and Items Q13-Q20 contained tenprint cards for comparison to a pool of standards (A-H). In the first section, participants were asked to compare the single-print pairs to determine if both prints originated from a single source. In the second section, participants were asked to compare the questioned tenprint cards to each standard to determine if any shared a common source.

SAMPLE PREPARATION

Using several anonymized databases containing a limited number of fingerprints, both visual comparison and AFIX comparison software were used to select the single prints and tenprint cards provided in this test.

SINGLE-PRINT PAIRS: For non-matching single-print pairs, prints with similar first and second-level details were chosen, paired together, and designated as either a questioned or standard item in the pair. For each matching item, uniquely collected prints from the same finger of an individual were paired together.

TENPRINT CARDS: For non-matching tenprint card items, cards with similar first and second-level details were chosen and designated as either a questioned item or a comparison standard. For matching items originating from the same source, each card was designated as either a questioned or comparison standard item.

All prints were digitally resized to scale. The test items were then uploaded to the CTS Portal for download by test participants.

VERIFICATION: All predistribution results were consistent with the manufacturer's expected results.

Single-Print Pairs	Same Source?	Tenprint Card	Match to Standard?
Q1	No	Q13	Standard D
Q2	No	Q14	No
Q3	No	Q15	No
Q4	No	Q16	Standard H
Q5	No	Q17	No
Q6	No	Q18	No
Q7	No	Q19	Standard G
Q8	Yes	Q20	Standard A
Q9	No		
Q10	No		
Q11	No		
Q12	No		

Summary Comments

Each digital sample set contained a variety of collected single-prints and tenprint cards for comparison. The one-to-one section contained twelve pairs of single-prints (Q1-Q12). Participants were asked to determine if the two collected prints within each pair originated from a single source. The ten-to-ten section contained eight questioned tenprint cards (Q13-Q20) and a pool of eight standard tenprint cards (A-H). Participants were asked to compare each questioned card to each standard card and determine if any pairing shared a common source. Within the single-print pair section, questioned print Q8 shared a common source with its standard print pair. For the tenprint card comparison section, the following common sources were shared between a questioned tenprint card and a standard tenprint card: Q13 with standard D, Q16 with standard H, Q19 with standard G and Q20 with standard A. (Refer to the Manufacturer's Information for preparation details.)

Of the 45 responding participants, 43 participants reported the expected responses for all twelve single-print pairs and the eight questioned tenprint cards. One participant was unable to determine if questioned tenprint cards Q#17 and Q#18 shared a common source with any of the standard tenprint cards. One participant did not select a response regarding whether the questioned tenprint cards Q#19 and Q#20 shared a common source with one of the standard cards however, reported the consensus letter designation associated the standard tenprint card.

Single-Print Comparisons

Does each pair of the following collected single-print cards originate from the same source?

TABLE 1 - Item Q1

WebCode	Match	WebCode	Match
2AN6VP	No	DT8HNY	No
2CTWN3	No	DYNDEY	No
376ATW	No	E2LC73	No
3C8GC7	No	EGKHZX	No
3GUJPA	No	ELLPCZ	No
3K2L4L	No	GAR3KP	No
3N2UAG	No	GRAWDZ	No
4WRZFN	No	HDN7R3	No
643JED	No	JJ8QCU	No
76EFL4	No	KFB87P	No
76G8DJ	No	KVHFPP	No
78LXHD	No	LF6CZN	No
7E3E93	No	MWMRHB	No
98UPLE	No	MZL4FW	No
AKDT92	No	P3LWMZ	No
ANVJL7	No	PJA8A3	No
BP8AYZ	No	R3WHA7	No
CXBPFT	No	R4MX4F	No
D2T4JT	No	RB72BH	No
DK6TWQ	No	RTC7XU	No
DLGP2V	No	UUUAGB	No

TABLE 1 - Item Q1

WebCode	Match	WebCode	Match
V4EV4K	No		
V7LD3G	No		
WWU3NE	No		

Response Summary - Q1		Total Participants: 45
	<u>Match</u>	<u>Total</u>
	Yes	0
	No	45
	Unable To Determine	0

TABLE 1 - Item Q2

WebCode	Match	WebCode	Match
2AN6VP	No	DYNDEY	No
2CTWN3	No	E2LC73	No
376ATW	No	EGKHZX	No
3C8GC7	No	ELLPCZ	No
3GUJPA	No	GAR3KP	No
3K2L4L	No	GRAWDZ	No
3N2UAG	No	HDN7R3	No
4WRZFN	No	JJ8QCU	No
643JED	No	KFB87P	No
76EFL4	No	KVHFPP	No
76G8DJ	No	LF6CZN	No
78LXHD	No	MWMRHB	No
7E3E93	No	MZL4FW	No
98UPL	No	P3LWMZ	No
AKDT92	No	PJA8A3	No
ANVJL7	No	R3WHA7	No
BP8AYZ	No	R4MX4F	No
CXBPFT	No	RB72BH	No
D2T4JT	No	RTC7XU	No
DK6TWQ	No	UUUAGB	No
DLGP2V	No	V4EV4K	No
DT8HNY	No	V7LD3G	No

TABLE 1 - Item Q2

WebCode	Match	WebCode	Match
WWU3NE	No		

Response Summary - Q2			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	0	
	No	45	
	Unable To Determine	0	

TABLE 1 - Item Q3

WebCode	Match	WebCode	Match
2AN6VP	No	DYNDEY	No
2CTWN3	No	E2LC73	No
376ATW	No	EGKHZX	No
3C8GC7	No	ELLPCZ	No
3GUJPA	No	GAR3KP	No
3K2L4L	No	GRAWDZ	No
3N2UAG	No	HDN7R3	No
4WRZFN	No	JJ8QCU	No
643JED	No	KFB87P	No
76EFL4	No	KVHFPP	No
76G8DJ	No	LF6CZN	No
78LXHD	No	MWMRHB	No
7E3E93	No	MZL4FW	No
98UPLA	No	P3LWMZ	No
AKDT92	No	PJA8A3	No
ANVJL7	No	R3WHA7	No
BP8AYZ	No	R4MX4F	No
CXBPFT	No	RB72BH	No
D2T4JT	No	RTC7XU	No
DK6TWQ	No	UUUAGB	No
DLGP2V	No	V4EV4K	No
DT8HNY	No	V7LD3G	No

TABLE 1 - Item Q3

WebCode	Match	WebCode	Match
WWU3NE	No		

Response Summary - Q3			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	0	
	No	45	
	Unable To Determine	0	

TABLE 1 - Item Q4

WebCode	Match	WebCode	Match
2AN6VP	No	DYNDEY	No
2CTWN3	No	E2LC73	No
376ATW	No	EGKHZX	No
3C8GC7	No	ELLPCZ	No
3GUJPA	No	GAR3KP	No
3K2L4L	No	GRAWDZ	No
3N2UAG	No	HDN7R3	No
4WRZFN	No	JJ8QCU	No
643JED	No	KFB87P	No
76EFL4	No	KVHFPP	No
76G8DJ	No	LF6CZN	No
78LXHD	No	MWMRHB	No
7E3E93	No	MZL4FW	No
98UPL	No	P3LWMZ	No
AKDT92	No	PJA8A3	No
ANVJL7	No	R3WHA7	No
BP8AYZ	No	R4MX4F	No
CXBPFT	No	RB72BH	No
D2T4JT	No	RTC7XU	No
DK6TWQ	No	UUUAGB	No
DLGP2V	No	V4EV4K	No
DT8HNY	No	V7LD3G	No

TABLE 1 - Item Q4

WebCode	Match	WebCode	Match
WWU3NE	No		

Response Summary - Q4			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	0	
	No	45	
	Unable To Determine	0	

TABLE 1 - Item Q5

WebCode	Match	WebCode	Match
2AN6VP	No	DYNDEY	No
2CTWN3	No	E2LC73	No
376ATW	No	EGKHZX	No
3C8GC7	No	ELLPCZ	No
3GUJPA	No	GAR3KP	No
3K2L4L	No	GRAWDZ	No
3N2UAG	No	HDN7R3	No
4WRZFN	No	JJ8QCU	No
643JED	No	KFB87P	No
76EFL4	No	KVHFPP	No
76G8DJ	No	LF6CZN	No
78LXHD	No	MWMRHB	No
7E3E93	No	MZL4FW	No
98UPLA	No	P3LWMZ	No
AKDT92	No	PJA8A3	No
ANVJL7	No	R3WHA7	No
BP8AYZ	No	R4MX4F	No
CXBPFT	No	RB72BH	No
D2T4JT	No	RTC7XU	No
DK6TWQ	No	UUUAGB	No
DLGP2V	No	V4EV4K	No
DT8HNY	No	V7LD3G	No

TABLE 1 - Item Q5

WebCode	Match	WebCode	Match
WWU3NE	No		

Response Summary - Q5			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	0	
	No	45	
	Unable To Determine	0	

TABLE 1 - Item Q6

WebCode	Match	WebCode	Match
2AN6VP	No	DYNDEY	No
2CTWN3	No	E2LC73	No
376ATW	No	EGKHZX	No
3C8GC7	No	ELLPCZ	No
3GUJPA	No	GAR3KP	No
3K2L4L	No	GRAWDZ	No
3N2UAG	No	HDN7R3	No
4WRZFN	No	JJ8QCU	No
643JED	No	KFB87P	No
76EFL4	No	KVHFPP	No
76G8DJ	No	LF6CZN	No
78LXHD	No	MWMRHB	No
7E3E93	No	MZL4FW	No
98UPL	No	P3LWMZ	No
AKDT92	No	PJA8A3	No
ANVJL7	No	R3WHA7	No
BP8AYZ	No	R4MX4F	No
CXBPFT	No	RB72BH	No
D2T4JT	No	RTC7XU	No
DK6TWQ	No	UUUAGB	No
DLGP2V	No	V4EV4K	No
DT8HNY	No	V7LD3G	No

TABLE 1 - Item Q6

WebCode	Match	WebCode	Match
WWU3NE	No		

Response Summary - Q6			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	0	
	No	45	
	Unable To Determine	0	

TABLE 1 - Item Q7

WebCode	Match	WebCode	Match
2AN6VP	No	DYNDEY	No
2CTWN3	No	E2LC73	No
376ATW	No	EGKHZX	No
3C8GC7	No	ELLPCZ	No
3GUJPA	No	GAR3KP	No
3K2L4L	No	GRAWDZ	No
3N2UAG	No	HDN7R3	No
4WRZFN	No	JJ8QCU	No
643JED	No	KFB87P	No
76EFL4	No	KVHFPP	No
76G8DJ	No	LF6CZN	No
78LXHD	No	MWMRHB	No
7E3E93	No	MZL4FW	No
98UPL	No	P3LWMZ	No
AKDT92	No	PJA8A3	No
ANVJL7	No	R3WHA7	No
BP8AYZ	No	R4MX4F	No
CXBPFT	No	RB72BH	No
D2T4JT	No	RTC7XU	No
DK6TWQ	No	UUUAGB	No
DLGP2V	No	V4EV4K	No
DT8HNY	No	V7LD3G	No

TABLE 1 - Item Q7

WebCode	Match	WebCode	Match
WWU3NE	No		

Response Summary - Q7			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	0	
	No	45	
	Unable To Determine	0	

TABLE 1 - Item Q8

WebCode	Match	WebCode	Match
2AN6VP	Yes	DYNDEY	Yes
2CTWN3	Yes	E2LC73	Yes
376ATW	Yes	EGKHZX	Yes
3C8GC7	Yes	ELLPCZ	Yes
3GUJPA	Yes	GAR3KP	Yes
3K2L4L	Yes	GRAWDZ	Yes
3N2UAG	Yes	HDN7R3	Yes
4WRZFN	Yes	JJ8QCU	Yes
643JED	Yes	KFB87P	Yes
76EFL4	Yes	KVHFPP	Yes
76G8DJ	Yes	LF6CZN	Yes
78LXHD	Yes	MWMRHB	Yes
7E3E93	Yes	MZL4FW	Yes
98UPLE	Yes	P3LWMZ	Yes
AKDT92	Yes	PJA8A3	Yes
ANVJL7	Yes	R3WHA7	Yes
BP8AYZ	Yes	R4MX4F	Yes
CXBPFT	Yes	RB72BH	Yes
D2T4JT	Yes	RTC7XU	Yes
DK6TWQ	Yes	UUUAGB	Yes
DLGP2V	Yes	V4EV4K	Yes
DT8HNY	Yes	V7LD3G	Yes

TABLE 1 - Item Q8

WebCode	Match	WebCode	Match
WWU3NE	Yes		

Response Summary - Q8			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	45	
	No	0	
	Unable To Determine	0	

TABLE 1 - Item Q9

WebCode	Match	WebCode	Match
2AN6VP	No	DYNDEY	No
2CTWN3	No	E2LC73	No
376ATW	No	EGKHZX	No
3C8GC7	No	ELLPCZ	No
3GUJPA	No	GAR3KP	No
3K2L4L	No	GRAWDZ	No
3N2UAG	No	HDN7R3	No
4WRZFN	No	JJ8QCU	No
643JED	No	KFB87P	No
76EFL4	No	KVHFPP	No
76G8DJ	No	LF6CZN	No
78LXHD	No	MWMRHB	No
7E3E93	No	MZL4FW	No
98UPLA	No	P3LWMZ	No
AKDT92	No	PJA8A3	No
ANVJL7	No	R3WHA7	No
BP8AYZ	No	R4MX4F	No
CXBPFT	No	RB72BH	No
D2T4JT	No	RTC7XU	No
DK6TWQ	No	UUUAGB	No
DLGP2V	No	V4EV4K	No
DT8HNY	No	V7LD3G	No

TABLE 1 - Item Q9

WebCode	Match	WebCode	Match
WWU3NE	No		

Response Summary - Q9			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	0	
	No	45	
	Unable To Determine	0	

TABLE 1 - Item Q10

WebCode	Match	WebCode	Match
2AN6VP	No	DYNDEY	No
2CTWN3	No	E2LC73	No
376ATW	No	EGKHZX	No
3C8GC7	No	ELLPCZ	No
3GUJPA	No	GAR3KP	No
3K2L4L	No	GRAWDZ	No
3N2UAG	No	HDN7R3	No
4WRZFN	No	JJ8QCU	No
643JED	No	KFB87P	No
76EFL4	No	KVHFPP	No
76G8DJ	No	LF6CZN	No
78LXHD	No	MWMRHB	No
7E3E93	No	MZL4FW	No
98UPLA	No	P3LWMZ	No
AKDT92	No	PJA8A3	No
ANVJL7	No	R3WHA7	No
BP8AYZ	No	R4MX4F	No
CXBPFT	No	RB72BH	No
D2T4JT	No	RTC7XU	No
DK6TWQ	No	UUUAGB	No
DLGP2V	No	V4EV4K	No
DT8HNY	No	V7LD3G	No

TABLE 1 - Item Q10

WebCode	Match	WebCode	Match
WWU3NE	No		

Response Summary - Q10			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	0	
	No	45	
	Unable To Determine	0	

TABLE 1 - Item Q11

WebCode	Match	WebCode	Match
2AN6VP	No	DYNDEY	No
2CTWN3	No	E2LC73	No
376ATW	No	EGKHZX	No
3C8GC7	No	ELLPCZ	No
3GUJPA	No	GAR3KP	No
3K2L4L	No	GRAWDZ	No
3N2UAG	No	HDN7R3	No
4WRZFN	No	JJ8QCU	No
643JED	No	KFB87P	No
76EFL4	No	KVHFPP	No
76G8DJ	No	LF6CZN	No
78LXHD	No	MWMRHB	No
7E3E93	No	MZL4FW	No
98UPLA	No	P3LWMZ	No
AKDT92	No	PJA8A3	No
ANVJL7	No	R3WHA7	No
BP8AYZ	No	R4MX4F	No
CXBPFT	No	RB72BH	No
D2T4JT	No	RTC7XU	No
DK6TWQ	No	UUUAGB	No
DLGP2V	No	V4EV4K	No
DT8HNY	No	V7LD3G	No

TABLE 1 - Item Q11

WebCode	Match	WebCode	Match
WWU3NE	No		

Response Summary - Q11			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	0	
	No	45	
	Unable To Determine	0	

TABLE 1 - Item Q12

WebCode	Match	WebCode	Match
2AN6VP	No	DYNDEY	No
2CTWN3	No	E2LC73	No
376ATW	No	EGKHZX	No
3C8GC7	No	ELLPCZ	No
3GUJPA	No	GAR3KP	No
3K2L4L	No	GRAWDZ	No
3N2UAG	No	HDN7R3	No
4WRZFN	No	JJ8QCU	No
643JED	No	KFB87P	No
76EFL4	No	KVHFPP	No
76G8DJ	No	LF6CZN	No
78LXHD	No	MWMRHB	No
7E3E93	No	MZL4FW	No
98UPL	No	P3LWMZ	No
AKDT92	No	PJA8A3	No
ANVJL7	No	R3WHA7	No
BP8AYZ	No	R4MX4F	No
CXBPFT	No	RB72BH	No
D2T4JT	No	RTC7XU	No
DK6TWQ	No	UUUAGB	No
DLGP2V	No	V4EV4K	No
DT8HNY	No	V7LD3G	No

TABLE 1 - Item Q12

WebCode	Match	WebCode	Match
WWU3NE	No		

Response Summary - Q12			Total Participants: 45
	<u>Match</u>	<u>Total</u>	
	Yes	0	
	No	45	
	Unable To Determine	0	

Tenprint Comparisons

Do any of the Questioned tenprint cards (Q13-Q20) share a common source with any of the standard tenprint cards (A-H)?

TABLE 2 - Item Q13

WebCode	Match	Source	WebCode	Match	Source
2AN6VP	Yes	D	D2T4JT	Yes	D
2CTWN3	Yes	D	DK6TWQ	Yes	D
376ATW	Yes	D	DLGP2V	Yes	D
3C8GC7	Yes	D	DT8HNY	Yes	D
3GUJPA	Yes	D	DYNDEY	Yes	D
3K2L4L	Yes	D	E2LC73	Yes	D
3N2UAG	Yes	D	EGKHZX	Yes	D
4WRZFN	Yes	D	ELLPCZ	Yes	D
643JED	Yes	D	GAR3KP	Yes	D
76EFL4	Yes	D	GRAWDZ	Yes	D
76G8DJ	Yes	D	HDN7R3	Yes	D
78LXHD	Yes	D	JJ8QCU	Yes	D
7E3E93	Yes	D	KFB87P	Yes	D
98UPLF	Yes	D	KVHFPP	Yes	D
AKDT92	Yes	D	LF6CZN	Yes	D
ANVJL7	Yes	D	MWMRHB	Yes	D
BP8AYZ	Yes	D	MZL4FW	Yes	D
CXBPFT	Yes	D	P3LWMZ	Yes	D

TABLE 2 - Item Q13

WebCode	Match	Source	WebCode	Match	Source
PJA8A3	Yes	D			
R3WHA7	Yes	D			
R4MX4F	Yes	D			
RB72BH	Yes	D			
RTC7XU	Yes	D			
UUUAGB	Yes	D			
V4EV4K	Yes	D			
V7LD3G	Yes	D			
WWU3NE	Yes	D			

Response Summary - Q13			Total Participants: 45
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	45	D (45)
	No	0	
	Unable To Determine	0	

TABLE 2 - Item Q14

WebCode	Match	Source	WebCode	Match	Source
2AN6VP	No		DLGP2V	No	
2CTWN3	No		DT8HNY	No	
376ATW	No		DYNDEY	No	
3C8GC7	No		E2LC73	No	
3GUJPA	No		EGKHZX	No	
3K2L4L	No		ELLPCZ	No	
3N2UAG	No		GAR3KP	No	
4WRZFN	No		GRAWDZ	No	
643JED	No		HDN7R3	No	
76EFL4	No		JJ8QCU	No	
76G8DJ	No		KFB87P	No	
78LXHD	No		KVHFPP	No	
7E3E93	No		LF6CZN	No	
98UPLF	No		MWMRHB	No	
AKDT92	No		MZL4FW	No	
ANVJL7	No		P3LWMZ	No	
BP8AYZ	No		PJA8A3	No	
CXBPFT	No		R3WHA7	No	
D2T4JT	No		R4MX4F	No	
DK6TWQ	No		RB72BH	No	

TABLE 2 - Item Q14

WebCode	Match	Source	WebCode	Match	Source
RTC7XU	No				
UUUAGB	No				
V4EV4K	No				
V7LD3G	No				
WWU3NE	No				

Response Summary - Q14			Total Participants: 45
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	0	(N/A for non-associations)
	No	45	
	Unable To Determine	0	

TABLE 2 - Item Q15

WebCode	Match	Source	WebCode	Match	Source
2AN6VP	No		DLGP2V	No	
2CTWN3	No		DT8HNY	No	
376ATW	No		DYNDEY	No	
3C8GC7	No		E2LC73	No	
3GUJPA	No		EGKHZX	No	
3K2L4L	No		ELLPCZ	No	
3N2UAG	No		GAR3KP	No	
4WRZFN	No		GRAWDZ	No	
643JED	No		HDN7R3	No	
76EFL4	No		JJ8QCU	No	
76G8DJ	No		KFB87P	No	
78LXHD	No		KVHFPP	No	
7E3E93	No		LF6CZN	No	
98UPLF	No		MWMRHB	No	
AKDT92	No		MZL4FW	No	
ANVJL7	No		P3LWMZ	No	
BP8AYZ	No		PJA8A3	No	
CXBPFT	No		R3WHA7	No	
D2T4JT	No		R4MX4F	No	
DK6TWQ	No		RB72BH	No	

TABLE 2 - Item Q15

WebCode	Match	Source	WebCode	Match	Source
RTC7XU	No				
UUUAGB	No				
V4EV4K	No				
V7LD3G	No				
WWU3NE	No				

Response Summary - Q15			Total Participants: 45
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	0	(N/A for non-associations)
	No	45	
	Unable To Determine	0	

TABLE 2 - Item Q16

WebCode	Match	Source	WebCode	Match	Source
2AN6VP	Yes	H	DLGP2V	Yes	H
2CTWN3	Yes	H	DT8HNY	Yes	H
376ATW	Yes	H	DYNDEY	Yes	H
3C8GC7	Yes	H	E2LC73	Yes	H
3GUJPA	Yes	H	EGKHZX	Yes	H
3K2L4L	Yes	H	ELLPCZ	Yes	H
3N2UAG	Yes	H	GAR3KP	Yes	H
4WRZFN	Yes	H	GRAWDZ	Yes	H
643JED	Yes	H	HDN7R3	Yes	H
76EFL4	Yes	H	JJ8QCU	Yes	H
76G8DJ	Yes	H	KFB87P	Yes	H
78LXHD	Yes	H	KVHFPP	Yes	H
7E3E93	Yes	H	LF6CZN	Yes	H
98UPLF	Yes	H	MWMRHB	Yes	H
AKDT92	Yes	H	MZL4FW	Yes	H
ANVJL7	Yes	H	P3LWMZ	Yes	H
BP8AYZ	Yes	H	PJA8A3	Yes	H
CXBPFT	Yes	H	R3WHA7	Yes	H
D2T4JT	Yes	H	R4MX4F	Yes	H
DK6TWQ	Yes	H	RB72BH	Yes	H

TABLE 2 - Item Q16

WebCode	Match	Source	WebCode	Match	Source
RTC7XU	Yes	H			
UUUAGB	Yes	H			
V4EV4K	Yes	H			
V7LD3G	Yes	H			
WWU3NE	Yes	H			

Response Summary - Q16			Total Participants: 45
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	45	H (45)
	No	0	
	Unable To Determine	0	

TABLE 2 - Item Q17

WebCode	Match	Source	WebCode	Match	Source
2AN6VP	No		DLGP2V	No	
2CTWN3	No		DT8HNY	No	
376ATW	No		DYNDEY	No	
3C8GC7	No		E2LC73	No	
3GUJPA	No		EGKHZX	No	
3K2L4L	No		ELLPCZ	No	
3N2UAG	No		GAR3KP	No	
4WRZFN	No		GRAWDZ	No	
643JED	No		HDN7R3	No	
76EFL4	No		JJ8QCU	No	
76G8DJ	No		KFB87P	No	
78LXHD	No		KVHFPP	No	
7E3E93	No		LF6CZN	No	
98UPLF	No		MWMRHB	No	
AKDT92	No		MZL4FW	No	
ANVJL7	No		P3LWMZ	No	
BP8AYZ	No		PJA8A3	No	
CXBPFT	No		R3WHA7	No	
D2T4JT	No		R4MX4F	No	
DK6TWQ	UTD		RB72BH	No	

TABLE 2 - Item Q17

WebCode	Match	Source	WebCode	Match	Source
RTC7XU	No				
UUUAGB	No				
V4EV4K	No				
V7LD3G	No				
WWU3NE	No				

Response Summary - Q17			Total Participants: 45
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	0	(N/A for non-associations)
	No	44	
	Unable To Determine	1	

TABLE 2 - Item Q18

WebCode	Match	Source	WebCode	Match	Source
2AN6VP	No		DLGP2V	No	
2CTWN3	No		DT8HNY	No	
376ATW	No		DYNDEY	No	
3C8GC7	No		E2LC73	No	
3GUJPA	No		EGKHZX	No	
3K2L4L	No		ELLPCZ	No	
3N2UAG	No		GAR3KP	No	
4WRZFN	No		GRAWDZ	No	
643JED	No		HDN7R3	No	
76EFL4	No		JJ8QCU	No	
76G8DJ	No		KFB87P	No	
78LXHD	No		KVHFPP	No	
7E3E93	No		LF6CZN	No	
98UPLF	No		MWMRHB	No	
AKDT92	No		MZL4FW	No	
ANVJL7	No		P3LWMZ	No	
BP8AYZ	No		PJA8A3	No	
CXBPFT	No		R3WHA7	No	
D2T4JT	No		R4MX4F	No	
DK6TWQ	UTD		RB72BH	No	

TABLE 2 - Item Q18

WebCode	Match	Source	WebCode	Match	Source
RTC7XU	No				
UUUAGB	No				
V4EV4K	No				
V7LD3G	No				
WWU3NE	No				

Response Summary - Q18			Total Participants: 45
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	0	(N/A for non-associations)
	No	44	
	Unable To Determine	1	

TABLE 2 - Item Q19

WebCode	Match	Source	WebCode	Match	Source
2AN6VP	Yes	G	DLGP2V	Yes	G
2CTWN3	Yes	G	DT8HNY	Yes	G
376ATW	Yes	G	DYNDEY	Yes	G
3C8GC7	Yes	G	E2LC73	Yes	G
3GUJPA	Yes	G	EGKHZX	Yes	G
3K2L4L	Yes	G	ELLPCZ	Yes	G
3N2UAG	Yes	G	GAR3KP	Yes	G
4WRZFN	Yes	G	GRAWDZ	Yes	G
643JED	Yes	G	HDN7R3	Yes	G
76EFL4	Yes	G	JJ8QCU	Yes	G
76G8DJ	Yes	G	KFB87P	Yes	G
78LXHD	Yes	G	KVHFPP	Yes	G
7E3E93	Yes	G	LF6CZN	Yes	G
98UPLF	Yes	G	MWMRHB	Yes	G
AKDT92	Yes	G	MZL4FW	Yes	G
ANVJL7	Yes	G	P3LWMZ	Yes	G
BP8AYZ	Yes	G	PJA8A3	Yes	G
CXBPFT	Yes	G	R3WHA7	Yes	G
D2T4JT	Yes	G	R4MX4F	Yes	G
DK6TWQ	Yes	G	RB72BH	Yes	G

TABLE 2 - Item Q19

WebCode	Match	Source	WebCode	Match	Source
RTC7XU	Yes	G			
UUUAGB		G			
V4EV4K	Yes	G			
V7LD3G	Yes	G			
WWU3NE	Yes	G			

Response Summary - Q19			Total Participants: 45
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	44	G (45)
	No	0	
	Unable To Determine	0	

TABLE 2 - Item Q20

WebCode	Match	Source	WebCode	Match	Source
2AN6VP	Yes	A	DLGP2V	Yes	A
2CTWN3	Yes	A	DT8HNY	Yes	A
376ATW	Yes	A	DYNDEY	Yes	A
3C8GC7	Yes	A	E2LC73	Yes	A
3GUJPA	Yes	A	EGKHZX	Yes	A
3K2L4L	Yes	A	ELLPCZ	Yes	A
3N2UAG	Yes	A	GAR3KP	Yes	A
4WRZFN	Yes	A	GRAWDZ	Yes	A
643JED	Yes	A	HDN7R3	Yes	A
76EFL4	Yes	A	JJ8QCU	Yes	A
76G8DJ	Yes	A	KFB87P	Yes	A
78LXHD	Yes	A	KVHFPP	Yes	A
7E3E93	Yes	A	LF6CZN	Yes	A
98UPLF	Yes	A	MWMRHB	Yes	A
AKDT92	Yes	A	MZL4FW	Yes	A
ANVJL7	Yes	A	P3LWMZ	Yes	A
BP8AYZ	Yes	A	PJA8A3	Yes	A
CXBPFT	Yes	A	R3WHA7	Yes	A
D2T4JT	Yes	A	R4MX4F	Yes	A
DK6TWQ	Yes	A	RB72BH	Yes	A

TABLE 2 - Item Q20

WebCode	Match	Source	WebCode	Match	Source
RTC7XU	Yes	A			
UUUAGB		A			
V4EV4K	Yes	A			
V7LD3G	Yes	A			
WWU3NE	Yes	A			

Response Summary - Q20			Total Participants: 45
	<u>Match</u>	<u>Total</u>	<u>Source</u>
	Yes	44	A (45)
	No	0	
	Unable To Determine	0	

Additional Comments

TABLE 3

WebCode	Additional Comments
---------	---------------------

No Additional Comments were received in this test.

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 23-5141: Tenprint Examination

DATA MUST BE SUBMITTED BY **July 03, 2023, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: FC3K7F

Scenario:

The following prints, including single-print card pairs and tenprint cards, are in need of manual comparison. For the single prints, please compare the like-numbered Questioned and Standard print pairs to determine if they originate from the same source. For the tenprint cards, please compare each Questioned item to the pool of Standard items to determine if any of the Questioned tenprint cards share a common source with any of the Standard tenprint cards.

For the single print pairs, open the like-numbered Questioned and Standard files and compare the two prints.

For the tenprint cards, open a Questioned file and compare it to each Standard file. If a match is found, indicate the letter of the Standard card that was identified as sharing a common source with the Questioned card.

The files within the 'TIF' and 'JPG' folders are the same items, just provided in different formats.

For this test, you are not limited to conducting only on-screen comparisons and may employ any other method you wish. However, because of differences in printing technology, CTS cannot guarantee the quality of images you print from the digital media.

Items Submitted (Sample Pack TPE):

Items Q1-Q12: Twelve single-print card pairs, in TIF and JPG formats.

Items Q13-Q20: Eight questioned tenprint cards, in TIF and JPG formats.

Items A-H: Eight standard tenprint cards for comparison to Q13-Q20, in TIF and JPG formats.

To verify a complete and accurate download, the hash value for the downloaded .ZIP file is as follows:

23-5141_Tenprint Examination.zip MD5 hash value: 3e427749f4994cdb463a4d773448b61e

23-5141_Tenprint Examination.zip SHA1 hash value: 210e2022da1a5198697ff53ad0d456f2ff7b64a7

1.) Does each pair of the following collected single-print cards originate from the same source?

*If "Unable to Determine" is selected, please explain your reasoning in the Additional Comments.

	Yes	No	Unable to Determine*
Q1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Yes	No	Unable to Determine*
Q5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Yes	No	Unable to Determine*
Q9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

2.) Do any of the Questioned tenprint cards (Q13-Q20) share a common source with any of the Standard tenprint cards (A-H)? If so, please identify the letter of the Standard card with which a common source is shared.

*If "Unable to Determine" is selected, please explain your reasoning in the Additional Comments.

	Yes	No	Unable to Determine*
Q13	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q14	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q15	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q16	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>

	Yes	No	Unable to Determine*
Q17	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q18	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q19	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>
Q20	<input type="radio"/> <input type="text"/>	<input type="radio"/>	<input type="radio"/>

3.) Additional Comments

Please note: Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section below must be completed.)
- This participant's data is not intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

Have the laboratory's designated individual complete the following steps **only if your laboratory is accredited in this testing/calibration discipline** by one or more of the following Accreditation Bodies.

Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory.

ANAB Certificate No.
(Include ASCLD/LAB Certificate here)

A2LA Certificate No.

Step 2: Complete the Laboratory Identifying Information in its entirety.

Authorized Contact Person and Title

Laboratory Name

Location (City/State)