



DNA Parentage Test No. 26-5870/5 Summary Report

Each participant received a sample pack consisting of four blood samples representing a paternity case, which they were asked to analyze using their existing protocols. The test also included a paper kinship exercise where participants were asked to evaluate the provided DNA profiles and determine if an alleged relationship claim was supported. Data were returned from 114 participants: 85 for 26-5870 and 29 for 26-5875, and are compiled into the following tables:

	<u>Page</u>
<u>Manufacturer's Information</u>	<u>2</u>
<u>Summary Comments</u>	<u>5</u>
<u>Table 1: STR Amplification Kit(s) & Results</u>	<u>6</u>
<u>Table 2: Paternity Index Results</u>	<u>82</u>
<u>Table 3: YSTR Amplification Kit(s) & Results</u>	<u>103</u>
<u>Table 4: Additional DNA & PI Results</u>	<u>111</u>
<u>Table 5: Paternity DNA Statistics & Conclusions</u>	<u>112</u>
<u>Table 6: Kinship Likelihood Ratio Results</u>	<u>118</u>
<u>Table 7: Kinship DNA Statistics</u>	<u>164</u>
<u>Table 8: Additional Kinship Statistical Results</u>	<u>166</u>
<u>Table 9: Additional Comments</u>	<u>169</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 sample pack consisted of a collection of known blood samples from four individuals. Participants were asked to analyze these items using their existing protocols.

SAMPLE PREPARATION: All items were prepared from human whole blood which was drawn into EDTA tubes. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried into separate envelopes.

SAMPLE PACK ASSEMBLY: One of each item was placed into a pre-labeled sample pack envelope and sealed. The sealed envelopes were then packaged in pre-labeled heat seal envelopes and sealed. Completed sample packs were stored at -20°C until shipment.

KINSHIP EXERCISE: The test also included a kinship exercise comparing autosomal DNA profiles from two related individuals, presented as a Caucasian Father/Son relationship.

VERIFICATION: Predistribution results were consistent with each other and the manufacturer's preparation information. Concordant allelic results were obtained for all STR loci with the exception of Item 3 Locus D12S391. YSTR concordance could not be confirmed as results were submitted by only one participant.

Item	Donor Information	Volumes per Substrate (μ L)	
		FTA™ Micro Cards (5870)	Swabs (5875)
1	Caucasian Mother	75	100
2	Caucasian Daughter	75	100
3	Caucasian Biological Father	75	100
4	Caucasian Non-Biological Father	75	100

Amelogenin and STR Results

Results compiled from predistribution laboratories and a consensus of at least 10 participants.

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
1	15,16	21,22	10,12	17,18	12,13	*
	8,11	13,15	13,13	15,18	11,12	13,13
	13,17	12,2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	25,2,29.2	7,9	10,11
	18,19	NM	NM	NM	NM	
2	12,15	21,24	10,12	16,18	13,13	*
	8,10	13,15	13,15	18,21	11,12	12,13
	13,13	13,16.2	32,2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	25,2,29.2	7,7	8,10
	17,19	NM	NM	NM	NM	
3	12,13	19,24	10,10	16,17	10,13	*
	8,10	15,16	14,15	18,21‡	12,13	12,12
	13,15	15,2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	15,25.2	7,8	8,8
	16,17	10	18	17	2	
4	12,16	19,20	11,12	14,15	11,12	*
	10,11	13,15	12,14	18,18	11,11	9,12
	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15	2	

YSTR Results

Results compiled from predistribution laboratories and a consensus of at least 10 participants.

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
3	36,37	14	11,14	13	29	26	10	13	13
	15	12	13	19	31	16	17	11	22
	36	12	13	18	17	20	23	10	12
4	37,38	16	11,14	12	30	26	10	11	14
	14	11	11	20	32	14	15	12	23
	40	12	12	18	15	17	23	10	12

NM - Non-Male profile, YSTR results not expected.

* Results were not received from a minimum of 10 participants for the loci indicated.

‡ Approximately 13% of participants reported "21" or "21,21" at D12S391 for Item 3. Further information is provided in the Summary Comments section of this report.

Paternity Indices

Mean Paternity Index results compiled from predistribution laboratories and a consensus of at least 10 participants.

Item - Database

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
FGA	Penta D	Penta E	SE33	TH01	TPOX
vWA					
3PI - FBI Popstats					
1.87-8.89	1.12-10.4	0.412-5.97	1.59-2.40	1.67-6.85	*
1.34-2.13	1.06-1.25	1.42-3.39	0.596-10.5	0.314-1.66	2.55-4.02
2.00-5.34	4.07-42.3	2.11-6.68	2.17-3.42	-	2.14-3.36
2.38-13.2	1.53-4.01	6.72-12.3	2.54-6.85	0.280-3.98	1.62-2.10
1.42-2.59					
3PI - Grand Mean ± 3STD Range**					
1.79-8.21	1.24-9.15	0-11.4	1.47-2.50	1.40-6.33	*
0.671-3.04	0.451-1.94	0-10.6	0-11.0	0.322-1.57	1.52-5.05
2.43-5.34	4.43-46.3	1.92-7.63	0-20.0	-	2.12-3.41
2.92-13.6	1.05-4.80	4.13-14.7	1.65-8.63	0.608-3.87	1.49-2.30
1.29-2.51					
3PI - NIST-STRBASE					
2.37-6.67	2.41-6.71	2.38-4.91	1.38-2.62	1.85-4.98	*
0.298-3.72	0.619-1.77	1.89-3.08	0-9.97	0.655-1.07	2.15-4.38
3.18-5.03	9.69-46.5	2.38-8.00	1.10-4.14	-	2.08-3.43
5.33-13.1	0.576-5.39	3.20-15.4	3.20-7.20	1.27-3.50	1.40-2.46
1.29-2.28					
4PI - Grand Mean ± 3STD Range**					
1.45-7.11	0-0.00164	1.19-2.63	0-0.00338	0-0.0171	*
1.25-2.49	2.10-2.50	0-0.00475	0-0.00459	1.31-2.09	1.34-1.88
0-0.0079	0-0.00188	1.85-8.36	1.08-1.64	-	0.994-1.81
0-0.0233	0-0.000388	0-0.00174	3.06-6.46	1.36-3.65	0-0.000432
0-0.00479					

* Results were not received from a minimum of 10 participants for the loci and database indicated.

**These ranges are provided to allow participants that utilized databases other than the one(s) listed above to review their results. Following AABB guidelines, ranges were determined by taking the grand mean of data submitted for the associated locus and calculating 3 standard deviations above and below that value. Data values are presented in three significant figures. Data values less than zero are presented as "0."

Summary Comments

This test was designed to allow participants to assess their proficiency in the analysis and interpretation of blood samples, along with the determination of paternity. Participants were supplied with four known bloodstains (Items 1 - 4). Item 1 was created from a female (mother) donor. Item 2 was created from a female (daughter) donor. Item 3 was created from a male donor who was the biological father of the Item 2 female, and Item 4 was created from a male donor who was not the biological father of the Item 2 female. Additionally, this test included an exercise where participants evaluated provided DNA profiles and reported both the kinship index and conclusions regarding an alleged relationship. For this test, the claim of a Caucasian Father-Son relationship was supported. Refer to the Manufacturer's Information for preparation details.

Data were returned from 114 participants.

DNA Analysis

For STR results, consistent results were achieved by all but twenty-four participants. The majority of inconsistencies were noted for Item 3, Locus D12S391. For this locus, a total of 15 participants (13%) reported "21" or "21,21" and 97 participants (87%) reported "18,21." Of the participants who reported "21" or "21,21", all but one reported the use of a PowerPlex® kit. Five additional participants documented in their Additional Comments that there may be a potential primer binding site mutation for Item 3, Locus D12S391.

For YSTR results, consistent results were achieved by all but one participant.

Paternity DNA Statistics

All participants reported that the source of Item 3 could not be excluded as the biological father of Item 2. Of the participants that reported probability of paternity values, all reported 99.9% or higher.

Kinship DNA Statistics

Forty-one participants submitted responses to the paper kinship exercise regarding the claim of a Caucasian Father-Son relationship. For the loci likelihood ratio data, eight participants reported extreme data in comparison to the calculated mode at one or more loci. A consensus was achieved, with all participants concluding that the relationship claim was supported.

STR Amplification Kit(s) & Results

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

23XC8V-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
24ZGC3-5870	PowerPlex® Fusion (FBI Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
27XN3V-5870	GlobalFiler™ Express (Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
28T76W-5875	PowerPlex® Fusion 6C (Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	25.2,29.2	7,9	10,11
	18,19					
2F3HB2-5870	PowerPlex® Fusion (PopStats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
2RAM2U-5870	PowerPlex® Fusion 6C					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8	25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

2Z27F3-5870	PowerPlex® Fusion 5C (FBI Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
383HCZ-5875	GlobalFiler™, MiniFiler					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	no result			no result	
3BGCRW-5875	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	no results			no results	
3UXC8T-5870	PowerPlex® 35GY					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8	25.2,29.2	7,9	10,11
	18,19					
43GCTV-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	-			-	
4MUYGN-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

627MDP-5870	PowerPlex® Fusion 6C					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8	25.2,29.2	7,9	10,11
	18,19					
6327EQ-5870	PowerPlex® Fusion					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
63LWFX-5870	PowerPlex® Fusion (FBI Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
6HDTHT-5870	GlobalFiler™ (PopStats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	--			--	
6NL9AP-5875	PowerPlex® F6C					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8	25.2,29.2	7,9	10,11
	18,19					
76ZTGT-5870	VersaPlex® 27PY SystemY (GeneMapper ID-X, 1.6-version)					
	15,16	21,22	10,12	17,18	12,13	14,19
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8		7,9	10,11
	18,19	-	-	-	-	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

79NF3U-5875	PowerPlex® Fusion6C (Familias v 3.4)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	25.2,29.2	7,9	10,11
	18,19					
7AB7YR-5875	Investigator ESSplex SE QS Kit (QIAGEN) (GeneMapper Software 5)					
	15,16	21,22	10,12	17,18		
		13,15	13,13	15,18		13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	
	25,26			25.2,29.2	7,9	
	18,19					
7DXJ6P-5870	GlobalFiler™ Express (DNA view)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	NM			NM	
7EPRXQ-5875	PowerPlex® Fusion 6C (popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	25.2,29.2	7,9	10,11
	18,19					
7M3QJP-5875	PowerPlex® Fusion 6C (eDNA)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	25.2,29.2	7,9	10,11
	18,19					
7TA82Q-5870	GlobalFiler™ (DBLR)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

7VFAU-5875	GlobalFiler™ (PopStats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
7VU9XX-5870	Investigator® 24plex					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
83TXBV-5875	PowerPlex® 5C					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
8DDC4P-5875	PowerPlex® Fusion 6C (FBI Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	25.2,29.2	7,9	10,11
	18,19					
8HTMGU-5870	GlobalFiler™ (DNA VIEW)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
8RTJUV-5870	PowerPlex® Fusion (Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

8UZT8M-5875	GlobalFiler™ Express					
	15,16	21,22	10,12	17,18	12,13	NT
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	NT	NT	25.2,29.2	7,9	10,11
	18,19	NR	NT	NT	NR	
8WJU4U-5870	GlobalFiler™ Express (DNAnView)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	NM			NM	
8Z4LFW-5870	PowerPlex® Fusion (FBI Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
94ZPKN-5875	ESI-17 (Genoproof)					
	15,16	21,22	10,12	17,18		
		13,15	13,13	15,18		12,13
1	13,17	12.2,13	29,32.2	15,17	X,X	
	25,26			25.2,29.2	7,9	
	18,19					
9B4MEL-5870	PowerPlex® Fusion (Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
9KMCNR-5870	Forenseq DNA Signature Prep (DNAnView)					
	15,16	21,22	10,12	17,18	12,13	14,19
	8,NR	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	NR,NR	7,9	10,11
	18,19	NR	NR	NR	NR	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

9KPQLL-5875	GlobalFiler™ Express					
	15,16	21,22	10,12	17,18	12,13	NT
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	NT	NT	25.2,29.2	7,9	10,11
	18,19	NR	NT	NT	NR	
9UXEAR-5870	ForenSeq DNA Signature Prep (DNAMView)					
	15,16	21,22	10,12	17,18	12,13	14,19
	8,NR	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,NR	X,X	10,11
	25,26	9,11	8,8	NR,NR	7,9	10,11
	18,19	NR	NR	NR	NR	
ALFQ7Y-5870	PowerPlex® Fusion					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19	NR				
AN4WCR-5870	GlobalFiler™ Express (DNAMView)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	NM			NM	
AR399R-5870	PowerPlex® Fusion 5C					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
ATYEZK-5870	PowerPlex® Fusion 6C (Popstats NIST 2017)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8	25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

BF2AUQ-5870	PowerPlex® Fusion 6C (Familias v 3.4)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	25.2,29.2	7,9	10,11
	18,19					
BJNMYN-5870	GlobalFiler™ (FBI PopstatsPop.Database)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	-			-	
BJZKPQ-5875	ANDE/FlexPlex27 (FAIRS Claimed Relationship)					
	15,16	21,22	10,12	17,18	12,13	14,19
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26		8	25.2,29.2	7,9	10,11
	18,19					
CQJ4PK-5875	GlobalFiler™ Express					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	-	-	25.2,29.2	7,9	10,11
	18,19	-	-	-	-	
CZCATJ-5870	PowerPlex® Fusion (Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
DQFUGK-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	-
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	-	-	25.2,29.2	7,9	10,11
	18,19	-	-	-	-	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

DRRF7L-5870	PowerPlex® Fusion 5C (KIn CALc 5.0.12)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19	Inconclusive				
E4ZVCH-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
EFAKZL-5870	PowerPlex® 5C (In-house Excel Macro for Parentage Calculations)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
EHZGTL-5875	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	no result			no result	
EJVZUM-5870	GlobalFiler™ Express (DNAMView)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	NM			NM	
ETH2DH-5875	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

EVQ8YJ-5875		PowerPlex® Fusion 6C					
		15,16	21,22	10,12	17,18	12,13	
		8,11	13,15	13,13	15,18	11,12	13,13
1		13,17	12.2,13	29,32.2	15,17	X,X	10,11
		25,26	9,11	8,8	25.2,29.2	7,9	10,11
		18,19					
F6A8JL-5870		GlobalFiler™ (CODIS Popstats)					
		15,16	21,22	10,12	17,18	12,13	
		8,11	13,15	13,13	15,18	11,12	13,13
1		13,17	12.2,13	29,32.2	15,17	X,X	10,11
		25,26			25.2,29.2	7,9	10,11
		18,19	--			--	
FA62GM-5870		PowerPlex® Fusion (Popstats)					
		15,16	21,22	10,12	17,18	12,13	
		8,11	13,15	13	15,18	11,12	13
1		13,17	12.2,13	29,32.2	15,17	X,X	10,11
		25,26	9,11	8		7,9	10,11
		18,19					
FJQ3YH-5870		GlobalFiler™					
		15,16	21,22	10,12	17,18	12,13	
		8,11	13,15	13,13	15,18	11,12	13,13
1		13,17	12.2,13	29,32.2	15,17	X,X	10,11
		25,26			25.2,29.2	7,9	10,11
		18,19	-			-	
FKLL2J-5870		GlobalFiler™					
		15,16	21,22	10,12	17,18	12,13	
		8,11	13,15	13,13	15,18	11,12	13,13
1		13,17	12.2,13	29,32.2	15,17	X,X	10,11
		25,26			25.2,29.2	7,9	10,11
		18,19	-			-	
FZF4ZF-5870		PowerPlex® Fusion					
		15,16	21,22	10,12	17,18	12,13	
		8,11	13,15	13	15,18	11,12	13
1		13,17	12.2,13	29,32.2	15,17	X	10,11
		25,26	9,11	8		7,9	10,11
		18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

GBFZDG-5870	GlobalFiler™ (Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	-			-	
H8QDVD-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
HEAG4F-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	--			--	
HF6Z6G-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	-			-	
HVDQ8L-5870	Investigator® 24plex (Standalone POPSTATS CODIS11)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	N/A				
J6D2RG-5870	Investigator® 24plex GO!					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

J78UKE-5870	GlobalFiler™ (STRSTAT)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
JBPPRD-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
KKLELJ-5870	PowerPlex® Fusion 5C (FBI Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8		7,9	10,11
	18,19					
L8LQFB-5870	PowerPlex® 21					
	15,16	21,22		17,18	12,13	14,19
	8,11	13,15		15,18	11,12	13,13
1	13,17	12.2,13	29,32.2		X,X	10,11
	25,26	9,11	8,8		7,9	10,11
	18,19					
M737Z7-5875	GlobalFiler™ EXPRESS					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
M739PB-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	-			-	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

N2JRTC-5870	PowerPlex® 21					
	15,16	21,22		17,18	12,13	14,19
	8,11	13,15		15,16	11,12	13,13
1	13,17	12.2,13	29,32.2		X,X	10,11
	25,26	9,11	8,8		7,9	10,11
	18,19					
N89BNE-5870	PowerPlex® Fusion (PopStats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
N8TUV8-5870	GlobalFiler™ Express (DNA•VIEW)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	NM			NM	
NKUPRE-5870	PowerPlex® Fusion (Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
NLP9UF-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	Not Detected			Not Detected	
NM73WB-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

NRGDP6-5870	PowerPlex®					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	25.2,29.2	7,9	10,11
	18,19					
NX39Q9-5875	GlobalFiler™ Express					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
NXHRA7-5875	PowerPlex® Fusion 6C (DBLR)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8	25.2,29.2	7,9	10,11
	18,19	NR	NR	NR		
PDBMKC-5870	Investigator® 24plex GO!					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
PE4FDA-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
PEQWJ4-5870	PowerPlex® Fusion 6C					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8	25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

Q2C9Z6-5870 GlobalFiler™ Express (DNAMView)

	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	NM			NM	

QEXK89-5875 PowerPlex® Fusion 6C (Gene Mapper ID-X v. 1.7.2 , Familias 3.3.1)

	15,16	21,22	10,12	17,18	12,13	-
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	25.2,29.2	7,9	10,11
	18,19					

QXWXM2-5875 GlobalFiler™ (Familias3, DNAMView)

	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

RUTDH2-5870 PowerPlex® Fusion 6C

	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8	25.2,29.2	7,9	10,11
	18,19					

TJQE98-5870 VeriFiler Express ([Laboratory Identifying Software])

	15,16	21,22	10,12	17,18	12,13	14,19
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8		7,9	10,11
	18,19					

TLXW73-5870 GlobalFiler™ Express

	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

U49V66-5870	GlobalFiler™ (Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	-			-	
VA9UTZ-5870	GlobalFiler™ Express (DNAView)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	NM			NM	
VGCRMX-5870	PowerPlex® Fusion 6C					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8	25.2,29.2	7,9	10,11
	18,19					
VGTVBX-5870	GlobalFiler™ Express					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
WCFT7-5870	GlobalFiler™ Express (DNA View)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	NM			NM	
W6TJFV-5875	GlobalFiler™, VeriFiler Plus (eDNA)					
	15,16	21,22	10,12	17,18	12,13	14,19
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8	25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

W9WGN4-5875 GlobalFiler™

	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	no results			no results	

WARX2Z-5875 GlobalFiler™ Express

	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

W9WGN4-5875 GlobalFiler™ (Popstats)

	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

WNPZNY-5870 GlobalFiler™

	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

WUB3K4-5870 Investigator® 24plex GO!

	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					

XMTW8-5870 PowerPlex® Fusion (FBI Popstats)

	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

XYZYMZ-5870	GlobalFiler™ (FBI Popstats Population Database)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	---			---	
XZWGP2-5870	GlobalFiler™ (FBI Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	-			-	
Y9LUFA-5870	PowerPlex® Fusion					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19	NR				
YRMZ22-5870	PowerPlex® Fusion (DNAView)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26	9,11	8		7,9	10,11
	18,19					
YWR9XW-5870	Identifiler® Direct					
		21,22		17,18	12,13	
	8,11	13,15			11,12	13,13
1	13,17	12.2,13	29,32.2		X,X	10,11
	25,26				7,9	10,11
	18,19					
YZDL8Z-5875	PowerPlex® Fusion 6C (Popstats)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	9,11	8,8	25.2,29.2	7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

ZAFYA9-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	-
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26	-	-	25.2,29.2	7,9	10,11
	18,19	N/D	-	-	N/D	
ZFNMGV-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2	15,17	X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
ZFYXNY-5870	GlobalFiler™					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19	-			-	
ZRH7V2-5870	GlobalFiler™ (DNA VIEW VER 37.11)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13,13	15,18	11,12	13,13
1	13,17	12.2,13	29,32.2	15,17	X,X	10,11
	25,26			25.2,29.2	7,9	10,11
	18,19					
ZRXB6Y-5870	VeriFiler Express (Gen Analysen)					
	15,16	21,22	10,12	17,18	12,13	
	8,11	13,15	13	15,18	11,12	13
1	13,17	12.2,13	29,32.2		X	10,11
	25,26	9,11	8		7,9	10,11
	18,19	15,18				
ZXNYPW-5870	PowerPlex® 21 (Kinship)					
	15,16	21,22		17,18	12,13	14,19
	8,11	13,15		15,18	11,12	13,13
1	13,17	12.2,13	29,32.2		X,X	10,11
	25,26	9,11	8,8		7,9	10,11
	18,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

23XC8V-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26			25.2,29.2	7	8,10
	17,19					
24ZGC3-5870	PowerPlex® Fusion (FBI Popstats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
27XN3V-5870	GlobalFiler™ Express (Popstats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26			25.2,29.2	7	8,10
	17,19					
28T76W-5875	PowerPlex® Fusion 6C (Popstats)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	25.2,29.2	7,7	8,10
	17,19					
2F3HB2-5870	PowerPlex® Fusion (PopStats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
2RAM2U-5870	PowerPlex® Fusion 6C					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16	25.2,29.2	7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

2Z27F3-5870	PowerPlex® Fusion 5C (FBI Popstats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
383HCZ-5875	GlobalFiler™, MiniFiler					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	no result			no result	
3BGCRW-5875	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	no results			no results	
3UXC8T-5870	PowerPlex® 35GY					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16	25.2,29.2	7	8,10
	17,19					
43GCTV-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	-			-	
4MUYGN-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

627MDP-5870	PowerPlex® Fusion 6C					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16	25.2,29.2	7	8,10
	17,19					
6327EQ-5870	PowerPlex® Fusion					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
63LWFX-5870	PowerPlex® Fusion (FBI Popstats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
6HDTHT-5870	GlobalFiler™ (PopStats)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	--			--	
6NL9AP-5875	PowerPlex® F6C					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16	25.2,29.2	7	8,10
	17,19					
76ZTGT-5870	VersaPlex® 27PY SystemY (GeneMapper ID-X, 1.6-version)					
	12,15	21,24	10,12	16,18	13,13	12,19
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	-	7,7	8,10
	17,19		-	-	-	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

79NF3U-5875	PowerPlex® Fusion6C (Familias v 3.4)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	25.2,29.2	7,7	8,10
	17,19					
7AB7YR-5875	Investigator ESSplex SE QS Kit (QIAGEN) (GeneMapper Software 5)					
	12,15	21,24	10,12	16,18		
		13,15	13,15	18,21		12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	
	19,26			25.2,29.2	7,7	
	17,19					
7DXJ6P-5870	GlobalFiler™ Express (DNA view)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7	8,10
	17,19	NM			NM	
7EPRXQ-5875	PowerPlex® Fusion 6C (popstats)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	25.2,29.2	7,7	8,10
	17,19					
7M3QJP-5875	PowerPlex® Fusion 6C (eDNA)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	25.2,29.2	7,7	8,10
	17,19					
7TA82Q-5870	GlobalFiler™ (DBLR)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

7VFAU-5875	GlobalFiler™ (PopStats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26			25.2,29.2	7	8,10
	17,19					
7VU9XX-5870	Investigator® 24plex					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26			25.2,29.2	7	8,10
	17,19					
83TXBV-5875	PowerPlex® 5C					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
8DDC4P-5875	PowerPlex® Fusion 6C (FBI Popstats)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	25.2,29.2	7,7	8,10
	17,19					
8HTMGU-5870	GlobalFiler™ (DNA VIEW)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					
8RTJUV-5870	PowerPlex® Fusion (Popstats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

8UZT8M-5875	GlobalFiler™ Express					
	12,15	21,24	10,12	16,18	13	NT
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	NT	NT	25.2,29.2	7	8,10
	17,19	NR	NT	NT	NR	
8WJU4U-5870	GlobalFiler™ Express (DNAView)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7	8,10
	17,19	NM			NM	
8Z4LFW-5870	PowerPlex® Fusion (FBI Popstats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
94ZPKN-5875	ESI-17 (Genoproof)					
	12,15	21,24	10,12	16,18		
		13,15	13,15	18,21		12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	
	19,26			25.2,29.2	7,7	
	17,19					
9B4MEL-5870	PowerPlex® Fusion (PopStats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
9KMCNR-5870	Forenseq DNA Signature Prep (DNAView)					
	12,15	21,24	10,12	16,18	13,13	12,19
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,9	8, NR	NR, NR	7,7	8,10
	17,19	NR	NR	NR	NR	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

9KPQLL-5875	GlobalFiler™ Express					
	12,15	21,24	10,12	16,18	13	NT
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	NT	NT	25.2,29.2	7	8,10
	17,19	NR	NT	NT	NR	
9UXEAR-5870	ForenSeq DNA Signature Prep (DNAView)					
	12,15	21,24	10,12	16,18	13,NR	12,19
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,NR	X,X	11,12
	19,26	9,13	8,16	NR,NR	7,7	8,10
	17,19	NR	NR	NR	NR	
ALFQ7Y-5870	PowerPlex® Fusion					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19	NR				
AN4WCR-5870	GlobalFiler™ Express (DNAView)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7	8,10
	17,19	NM			NM	
AR399R-5870	PowerPlex® Fusion 5C					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
ATYEZK-5870	PowerPlex® Fusion 6C (Popstats NIST 2017)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16	25.2,29.2	7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

BF2AUQ-5870	PowerPlex® Fusion 6C (Familias v 3.4)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	25.2,29.2	7,7	8,10
	17,19					
BJNMYN-5870	GlobalFiler™ (FBI PopstatsPop.Database)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	-			-	
BJZKPQ-5875	ANDE/FlexPlex27 (FAIRS Claimed Relationship)					
	12,15	21,24	10,12	16,18	13	12,19
	8,10	13,15	13,15		11,12	13
2	13		32.2	16,17	X	11,12
	19,26		8,16	25.2,29.2	7	8,10
	17,19					
CQJ4PK-5875	GlobalFiler™ Express					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	-	-	25.2,29.2	7,7	8,10
	17,19	-	-	-	-	
CZCATJ-5870	PowerPlex® Fusion (Popstats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
DQFUGK-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	-
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	-	-	25.2,29.2	7,7	8,10
	17,19	-	-	-	-	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

DRRF7L-5870	PowerPlex® Fusion 5C (KIn CALc 5.0.12)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19	Inconclusive				
E4ZVCH-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					
EFAKZL-5870	PowerPlex® 5C (In-house Excel Macro)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
EHZGTL-5875	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	no result			no result	
EJVZUM-5870	GlobalFiler™ Express (DNAMView)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7	8,10
	17,19	NM			NM	
ETH2DH-5875	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

EVQ8YJ-5875	PowerPlex® Fusion 6C					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	25.2,29.2	7,7	8,10
	17,19					
F6A8JL-5870	GlobalFiler™ (CODIS Popstats)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	--			--	
FA62GM-5870	PowerPlex® Fusion (Popstats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
FJQ3YH-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	-			-	
FKLL2J-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	-			-	
FZF4ZF-5870	PowerPlex® Fusion					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

GBFZDG-5870	GlobalFiler™ (Popstats)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	-			-	
H8QDVD-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					
HEAG4F-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	--			--	
HF6Z6G-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	-			-	
HVDQ8L-5870	Investigator® 24plex (Standalone POPSTATS CODIS11)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26			25.2,29.2	7	8,10
	17,19	N/A				
J6D2RG-5870	Investigator® 24plex GO!					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

J78UKE-5870	GlobalFiler™ (STRSTAT)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					
JBPPRD-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26			25.2,29.2	7	8,10
	17,19					
KKLELJ-5870	PowerPlex® Fusion 5C (FBI Popstats)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16		7,7	8,10
	17,19					
L8LQFB-5870	PowerPlex® 21					
	12,15	21,24		16,18	13,13	12,19
	8,10	13,15		18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2		X,X	11,12
	19,26	9,13	8,16		7,7	8,10
	17,19					
M737Z7-5875	GlobalFiler™ EXPRESS					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					
M739PB-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	-			-	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

N2JRTC-5870	PowerPlex® 21					
	12,15	21,24		16,18	13,13	12,19
	8,10	13,15		18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2		X,X	11,12
	19,26	9,13	8,16		7,7	8,10
	17,19					
N89BNE-5870	PowerPlex® Fusion (PopStats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
N8TUV8-5870	GlobalFiler™ Express (DNA•VIEW)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7	8,10
	17,19	NM			NM	
NKUPRE-5870	PowerPlex® Fusion (Popstats)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
NLP9UF-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	(4),7,7	8,10
	17,19	Not Detected			Not Detected	
NM73WB-5870	GlobalFiler™					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

NRGDP6-5870	PowerPlex®					
		12,15	21,24	10,12	16,18	13,13
		8,10	13,15	13,15	18,21	11,12
2		13,13	13,16.2	32.2,32.2	16,17	X,X
		19,26	9,13	8,16	25.2,29.2	7,7
		17,19				8,10
<hr/>						
NX39Q9-5875	GlobalFiler™ Express					
		12,15	21,24	10,12	16,18	13,13
		8,10	13,15	13,15	18,21	11,12
2		13,13	13,16.2	32.2,32.2	16,17	X,X
		19,26			25.2,29.2	7,7
		17,19				8,10
<hr/>						
NXHRA7-5875	PowerPlex® Fusion 6C (DBLR)					
		12,15	21,24	10,12	16,18	13
		8,10	13,15	13,15	18,21	11,12
2		13	13,16.2	32.2	16,17	X
		19,26	9,13	8,16	25.2,29.2	7
		17,19	NR	NR	NR	8,10
<hr/>						
PDBMKC-5870	Investigator® 24plex GO!					
		12,15	21,24	10,12	16,18	13,13
		8,10	13,15	13,15	18,21	11,12
2		13,13	13,16.2	32.2,32.2	16,17	X,X
		19,26			25.2,29.2	7,7
		17,19				8,10
<hr/>						
PE4FDA-5870	GlobalFiler™					
		12,15	21,24	10,12	16,18	13,13
		8,10	13,15	13,15	18,21	11,12
2		13,13	13,16.2	32.2,32.2	16,17	X,X
		19,26			25.2,29.2	7,7
		17,19				8,10
<hr/>						
PEQWJ4-5870	PowerPlex® Fusion 6C					
		12,15	21,24	10,12	16,18	13
		8,10	13,15	13,15	18,21	11,12
2		13	13,16.2	32.2	16,17	X
		19,26	9,13	8,16	25.2,29.2	7
		17,19				8,10

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

Q2C9Z6-5870 GlobalFiler™ Express (DNAMView)

	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7	8,10
	17,19	NM			NM	

QEXK89-5875 PowerPlex® Fusion 6C (Gene Mapper ID-X v. 1.7.2 , Familias 3.3.1)

	12,15	21,24	10,12	16,18	13,13	-
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	25.2,29.2	7,7	8,10
	17,19					

QXWXM2-5875 GlobalFiler™ (Familias3, DNAMView)

	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					

RUTDH2-5870 PowerPlex® Fusion 6C

	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16	25.2,29.2	7	8,10
	17,19					

TJQE98-5870 VeriFiler Express ([Laboratory Identifying Software])

	12,15	21,24	10,12	16,18	13,13	12,19
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16		7,7	8,10
	17,19					

TLXW73-5870 GlobalFiler™ Express

	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26			25.2,29.2	7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

U49V66-5870	GlobalFiler™ (Popstats)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	-			-	
VA9UTZ-5870	GlobalFiler™ Express (DNAView)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7	8,10
	17,19	NM			NM	
VGCRMX-5870	PowerPlex® Fusion 6C					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16	25.2,29.2	7	8,10
	17,19					
VGTVBX-5870	GlobalFiler™ Express					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					
WCFT7-5870	GlobalFiler™ Express (DNA View)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7	8,10
	17,19	NM			NM	
W6TJFV-5875	GlobalFiler™, VeriFiler Plus (eDNA)					
	12,15	21,24	10,12	16,18	13	12,19
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16	25.2,29.2	7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

W9WGN4-5875 GlobalFiler™						
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	no results			no results	
WARX2Z-5875 GlobalFiler™ Express						
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					
WFYEH2-5875 GlobalFiler™ (Popstats)						
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26			25.2,29.2	7	8,10
	17,19					
WNPZNY-5870 GlobalFiler™						
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7	8,10
	17,19					
WUB3K4-5870 Investigator® 24plex GO!						
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19					
XMTW8-5870 PowerPlex® Fusion (FBI Popstats)						
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

XYZYMZ-5870	GlobalFiler™ (FBI Popstats Population Database)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	---			---	
XZWGP2-5870	GlobalFiler™ (FBI Popstats)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26			25.2,29.2	7,7	8,10
	17,19	-			-	
Y9LUFA-5870	PowerPlex® Fusion					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19	NR				
YRMZ22-5870	PowerPlex® Fusion (DNAView)					
	12,15	21,24	10,12	16,18	13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13	13,16.2	32.2	16,17	X	11,12
	19,26	9,13	8,16		7	8,10
	17,19					
YWR9XW-5870	Identifiler® Direct					
		21,24		16,18	13,13	
	8,10	13,15			11,12	12,13
2	13,13	13,16.2	32.2,32.2		X,X	11,12
	19,26				7,7	8,10
	17,19					
YZDL8Z-5875	PowerPlex® Fusion 6C (Popstats)					
	12,15	21,24	10,12	16,18	13,13	
	8,10	13,15	13,15	18,21	11,12	12,13
2	13,13	13,16.2	32.2,32.2	16,17	X,X	11,12
	19,26	9,13	8,16	25.2,29.2	7,7	8,10
	17,19					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

ZAFYA9-5870	GlobalFiler™					
		12,15	21,24	10,12	16,18	13,13
		8,10	13,15	13,15	18,21	11,12
2		13,13	13,16.2	32.2,32.2	16,17	X,X
		19,26	-	-	25.2,29.2	7,7
		17,19	N/D	-	-	N/D
ZFNMGV-5870	GlobalFiler™					
		12,15	21,24	10,12	16,18	13
		8,10	13,15	13,15	18,21	11,12
2		13	13,16.2	32.2	16,17	X
		19,26			25.2,29.2	7
		17,19				
ZFYXNY-5870	GlobalFiler™					
		12,15	21,24	10,12	16,18	13,13
		8,10	13,15	13,15	18,21	11,12
2		13,13	13,16.2	32.2,32.2	16,17	X,X
		19,26			25.2,29.2	7,7
		17,19	-			-
ZRH7V2-5870	GlobalFiler™ (DNA VIEW VER 37.11)					
		12,15	21,24	10,12	16,18	13,13
		8,10	13,15	13,15	18,21	11,12
2		13,13	13,16.2	32.2,32.2	16,17	X,X
		19,26			25.2,29.2	7,7
		17,19				
ZRXB6Y-5870	VeriFiler Express (Gen Analysen)					
		12,15	21,24	10,12	16,18	13
		8,10	13,15	13,15	18,21	11,12
2		13	13,16.2	32.2		X
		19,26	9,13	8,16		7
		17,19				
ZXNYPW-5870	PowerPlex® 21 (Kinship)					
		12,15	21,24		16,18	13,13
		8,10	13,15		18,21	11,12
2		13,13	13,16.2	32.2,32.2		X,X
		19,26	9,13	8,16		7,7
		17,19				

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

23XC8V-5870	GlobalFiler™					
		12,13	19,24	10	16,17	10,13
		8,10	15,16	14,15	18,21	12,13
3		13,15	15.2,16.2	30,32.2	16	X,Y
		19,22			15,25.2	7,8
		16,17	10			2
24ZGC3-5870	PowerPlex® Fusion (FBI Popstats)					
		12,13	19,24	10	16,17	10,13
		8,10	15,16	14,15	18,21	12,13
3		13,15	15.2,16.2	30,32.2	16	X,Y
		19,22	9,13	12,16		7,8
		16,17	10			
27XN3V-5870	GlobalFiler™ (Popstats)					
		12,13	19,24	10	16,17	10,13
		8,10	15,16	14,15	18,21	12,13
3		13,15	15.2,16.2	30,32.2	16	X,Y
		19,22			15,25.2	7,8
		16,17	10			2
28T76W-5875	PowerPlex® Fusion 6C (Popstats)					
		12,13	19,24	10,10	16,17	10,13
		8,10	15,16	14,15	21,21	12,13
3		13,15	15.2,16.2	30,32.2	16,16	X,Y
		19,22	9,13	12,16	15,25.2	7,8
		16,17	10	18	17	
2F3HB2-5870	PowerPlex® Fusion (PopStats)					
		12,13	19,24	10	16,17	10,13
		8,10	15,16	14,15	18,21	12,13
3		13,15	15.2,16.2	30,32.2	16	X,Y
		19,22	9,13	12,16		7,8
		16,17	10			
2RAM2U-5870	PowerPlex® Fusion 6C (KIn CALc 5.0.12)					
		12,13	19,24	10	16,17	10,13
		8,10	15,16	14,15	21	12,13
3		13,15	15.2,16.2	30,32.2	16	X,Y
		19,22	9,13	12,16	15,25.2	7,8
		16,17	10	18	17	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

2Z27F3-5870 PowerPlex® Fusion 5C (FBI Popstats)

	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				

383HCZ-5875 GlobalFiler™, MiniFiler (KinCALc)

	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

3BGCRW-5875 GlobalFiler™

	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

3UXC8T-5870 PowerPlex® 35GY

	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17					

43GCTV-5870 GlobalFiler™ (FBI Popstats)

	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

4MUYGN-5870 GlobalFiler™

	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

627MDP-5870	PowerPlex® Fusion 6C, GlobalFiler™ Express					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17	10	18	17	2	
6327EQ-5870	PowerPlex® Fusion (CODIS PopStats)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
63LWFX-5870	PowerPlex® Fusion (FBI Popstats)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
6HDTHT-5870	GlobalFiler™ (PopStats)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
6NL9AP-5875	PowerPlex® F6C					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17	10	18	17		
76ZTGT-5870	VersaPlex® 27PY SystemY (GeneMapper ID-X, 1.6-version)					
	12,13	19,24	10,10	16,17	10,13	12,19
	8,10	15,16	14,15	21,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	-	7,8	8,8
	16,17	10	18	17	-	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

79NF3U-5875	PowerPlex® Fusion6C (Familias v 3.4)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	21,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	15,25.2	7,8	8,8
	16,17	10	18	17		
7AB7YR-5875	Investigator ESSplex SE QS Kit (QIAGEN) (GeneMapper Software 5)					
	12,13	19,24	10,10	16,17		
		15,16	14,15	18,21		12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	
	19,22			15,25.2	7,8	
	16,17					
7DXJ6P-5870	GlobalFiler™ Express (DNA view)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
7EPRXQ-5875	PowerPlex® Fusion 6C (popstats)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	21,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	15,25.2	7,8	8,8
	16,17	10	18	17		
7M3QJP-5875	PowerPlex® Fusion 6C (eDNA)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	21,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	15,25.2	7,8	8,8
	16,17	10	18	17		
7TA82Q-5870	GlobalFiler™ (DBLR)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

7VFAU-5875	GlobalFiler™ (PopStats)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
7VU9XX-5870	Investigator® 24plex					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10				
83TXBV-5875	PowerPlex® 5C					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
8DDC4P-5875	PowerPlex® Fusion 6C (FBI Popstats)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	21,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	15,25.2	7,8	8,8
	16,17	10	18	17		
8HTMGU-5870	GlobalFiler™ (DNA VIEW)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
8RTJUV-5870	PowerPlex® Fusion (Popstats)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

8UZT8M-5875	GlobalFiler™ Express					
	12,13	19,24	10	16,17	10,13	NT
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	NT	NT	15,25.2	7,8	8
	16,17	10	NT	NT	2	
8WJU4U-5870	GlobalFiler™ Express (DNAView)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
8Z4LFW-5870	PowerPlex® Fusion (FBI Popstats)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
94ZPKN-5875	ESI-17 (Genoproof)					
	12,13	19,24	10,10	16,17		
		15,16	14,15	18,21		12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	
	19,22			15,25.2	7,8	
	16,17					
9B4MEL-5870	PowerPlex® Fusion (PopStats)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
9KMCNR-5870	Forenseq DNA Signature Prep (DNAView)					
	12,13	19,24	10,10	16,17	10,13	12,19
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,NR	X,Y	12,12
	19,22	9,9	12,16	NR,NR	7,8	8,8
	16,17	10	18	17	NR	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

9KPQLL-5875	GlobalFiler™ Express					
	12,13	19,24	10	16,17	10,13	NT
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	NT	NT	15,25.2	7,8	8
	16,17	10	NT	NT	2	
9UXEAR-5870	ForenSeq DNA Signature Prep (DNAMView)					
	12,13	19,24	10,10	16,17	10,13	12,19
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,NR	X,Y	12,12
	19,22	9,13	12,16	NR,NR	7,8	8,8
	16,17	10	18	17	NR	
ALFQ7Y-5870	PowerPlex® Fusion, GlobalFiler™					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17	10			2	
AN4WCR-5870	GlobalFiler™ Express (DNAMView)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
AR399R-5870	PowerPlex® Fusion 5C					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
ATYEZK-5870	PowerPlex® Fusion 6C (Popstats NIST 2017)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	(18),21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17	10	18	17		

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

BF2AUQ-5870	PowerPlex® Fusion 6C (Familias v 3.4)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	21,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	15,25.2	7,8	8,8
	16,17	10	18	17		
BJNMYN-5870	GlobalFiler™ (FBI PopstatsPop.Database)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
BJZKPQ-5875	ANDE/FlexPlex27 (FAIRS Claimed Relationship)					
	12,13	19,24	10	16,17	10,13	12,19
	8,10	15,16			12,13	12
3	13,15	15.2,16.2	30,32.2	16		12
	19,22		12,16	15,25.2	7,8	8
	16,17					
CQJ4PK-5875	GlobalFiler™ Express (Popstats)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	-	-	15,25.2	7,8	8,8
	16,17	10	-	-	2	
CZCATJ-5870	PowerPlex® Fusion (Popstats)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
DQFUGK-5870	GlobalFiler™ (FBI Popstats (Expanded FBI STR 2015))					
	12,13	19,24	10,10	16,17	10,13	-
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	-	-	15,25.2	7,8	8,8
	16,17	10	-	-	2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

DRRF7L-5870	PowerPlex® Fusion 5C (Kln CALc 5.0.12)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	Inconclusive				
E4ZVCH-5870	GlobalFiler™					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
EFAKZL-5870	PowerPlex® 5C (In-house Excel Macro)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
EHZGTL-5875	GlobalFiler™					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
EJVZUM-5870	GlobalFiler™ Express (DNAMView)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
ETH2DH-5875	GlobalFiler™					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

EVQ8YJ-5875 PowerPlex® Fusion 6C (PopStats)						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	21,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	15,25.2	7,8	8,8
	16,17	10	18	17		
F6A8JL-5870 GlobalFiler™ (CODIS Popstats)						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
FA62GM-5870 PowerPlex® Fusion (Popstats)						
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
FJQ3YH-5870 GlobalFiler™ (FBI Population Database)						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
FKLL2J-5870 GlobalFiler™ (Popstats)						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
FZF4ZF-5870 PowerPlex® Fusion (CODIS PopStats)						
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

GBFZDG-5870 GlobalFiler™ (Popstats)						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
H8QDVD-5870 GlobalFiler™						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
HEAG4F-5870 GlobalFiler™ (FBI Popstats)						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
HF6Z6G-5870 GlobalFiler™ (FBI Popstats)						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
HVDQ8L-5870 Investigator® 24plex (Standalone POPSTATS CODIS11)						
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10				
J6D2RG-5870 Investigator® 24plex GO!						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10				

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

J78UKE-5870	GlobalFiler™ (STRSTAT)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
JBPPRD-5870	GlobalFiler™					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
KKLELJ-5870	PowerPlex® Fusion 5C (FBI Popstats)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16		7,8	8
	16,17	10				
L8LQFB-5870	PowerPlex® 21					
	12,13	19,24		16,71	10,13	12,19
	8,10	15,16		18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2		X,Y	12,12
	19,22	9,13	12,16		7,8	8,8
	16,17					
M737Z7-5875	GlobalFiler™ EXPRESS					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
M739PB-5870	GlobalFiler™ (CODIS Popstats)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

N2JRTC-5870	PowerPlex® 21					
	12,13	19,24		16,17	10,13	12,19
	8,10	15,16		18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2		X,Y	12,12
	19,22	9,13	12,16		7,8	8,8
	16,17					
N89BNE-5870	PowerPlex® Fusion (PopStats)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
N8TUV8-5870	GlobalFiler™ Express (DNA•VIEW)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
NKUPRE-5870	PowerPlex® Fusion (Popstats)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				
NLP9UF-5870	GlobalFiler™					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
NM73WB-5870	GlobalFiler™ (CODIS Popstats)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

NRGDP6-5870 PowerPlex®						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	21,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	15,25.2	7,8	8,8
	16,17	10	18	17		
NX39Q9-5875 GlobalFiler™ Express						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
NXHRA7-5875 PowerPlex® Fusion 6C (DBLR)						
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17	10	18	17		
PDBMKC-5870 Investigator® 24plex GO!						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10				
PE4FDA-5870 GlobalFiler™ (Local State Laboratory Software)						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
PEQWJ4-5870 PowerPlex® Fusion 6C (Popstats)						
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	[18],21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17	10	18	17		

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

Q2C9Z6-5870 GlobalFiler™ Express (DNAView)

	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	

QEXK89-5875 PowerPlex® Fusion 6C (Gene Mapper ID-X v. 1.7.2 , Familias 3.3.1)

	12,13	19,24	10,10	16,17	10,13	-
	8,10	15,16	14,15	21,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	15,25.2	7,8	8,8
	16,17	10	18	17		

QXWXM2-5875 GlobalFiler™ (Familias3, DNAView)

	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

RUTDH2-5870 PowerPlex® Fusion 6C (Popstats NIST 2017)

	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	(18),21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17	10	18	17		

TJQE98-5870 VeriFiler Express ([Laboratory Identifying Software])

	12,13	19,24	10,10	16,17	10,13	12,19
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16		7,8	8,8
	16,17				2	

TLXW73-5870 GlobalFiler™ Express

	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

U49V66-5870	GlobalFiler™ (Popstats)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
VA9UTZ-5870	GlobalFiler™ Express (DNAView)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
VGCRMX-5870	PowerPlex® Fusion 6C					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	(18),21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17	10	18	17		
VGTVBX-5870	GlobalFiler™ Express					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
WCFT7-5870	GlobalFiler™ Express (DNA View)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
W6TJFV-5875	GlobalFiler™, VeriFiler (eDNA)					
	12,13	19,24	10	16,17	10,13	12,19
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

W9WGN4-5875 GlobalFiler™						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
WARX2Z-5875 GlobalFiler™ Express						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
W9WGN4-5875 GlobalFiler™ (Popstats)						
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
WNPZNY-5870 GlobalFiler™ (FBI Popstats)						
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
WUB3K4-5870 Investigator® 24plex GO!						
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10				
XMTW8-5870 PowerPlex® Fusion (FBI Popstats)						
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

XYZYMZ-5870 GlobalFiler™ (FBI Popstats Population Database)

	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

XZWGP2-5870 GlobalFiler™ (FBI Popstats)

	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	

Y9LUFA-5870 PowerPlex® Fusion, GlobalFiler™

	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16	15,25.2	7,8	8
	16,17	10			2	

YRMZ22-5870 PowerPlex® Fusion (DNAView)

	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17	10				

YWR9XW-5870 Identifiler® Direct

		19,24		16,17	10,13	
	8,10	15,16			12,13	12,12
3	13,15	15.2,16.2	30,32.2		X,Y	12,12
	19,22				7,8	8,8
	16,17					

YZDL8Z-5875 PowerPlex® Fusion 6C (Popstats)

	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	21,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	9,13	12,16	15,25.2	7,8	8,8
	16,17	10	18	17		

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

ZAFYA9-5870	GlobalFiler™					
	12,13	19,24	10,10	16,17	10,13	-
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22	-	-	15,25.2	7,8	8,8
	16,17	10	-	-	2	
ZFNMGV-5870	GlobalFiler™ (Popstats)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2	16	X,Y	12
	19,22			15,25.2	7,8	8
	16,17	10			2	
ZFYXNY-5870	GlobalFiler™ (FBI Popstats)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
ZRH7V2-5870	GlobalFiler™ (DNA VIEW VER 37.11)					
	12,13	19,24	10,10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2	16,16	X,Y	12,12
	19,22			15,25.2	7,8	8,8
	16,17	10			2	
ZRXB6Y-5870	VeriFiler Express (Gen Analysen)					
	12,13	19,24	10	16,17	10,13	
	8,10	15,16	14,15	18,21	12,13	12
3	13,15	15.2,16.2	30,32.2		X,Y	12
	19,22	9,13	12,16		7,8	8
	16,17				2	
ZXNYPW-5870	PowerPlex® 21 (Kinship)					
	12,13	19,24		16,17	10,13	12,19
	8,10	15,16		18,21	12,13	12,12
3	13,15	15.2,16.2	30,32.2		X,Y	12,12
	19,22	9,13	12,16		7,8	8,8
	16,17					

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

23XC8V-5870	GlobalFiler™					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25			19,29.2	7,9.3
		18,19	10			2
24ZGC3-5870	PowerPlex® Fusion					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25	8,10	5,13		7,9.3
		18,19	10			
27XN3V-5870	GlobalFiler™					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25			19,29.2	7,9.3
		18,19	10			2
28T76W-5875	PowerPlex® Fusion 6C					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25	8,10	5,13	19,29.2	7,9.3
		18,19	10	18	15	
2F3HB2-5870	PowerPlex® Fusion					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25	8,10	5,13		7,9.3
		18,19	10			
2RAM2U-5870	PowerPlex® Fusion 6C					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25	8,10	5,13	19,29.2	7,9.3
		18,19	10	18	15	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

2Z27F3-5870	PowerPlex® Fusion 5C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
383HCZ-5875	GlobalFiler™, MiniFiler (KinCALc)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
3BGCRW-5875	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
3UXC8T-5870	PowerPlex® 35GY					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19					
43GCTV-5870	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
4MUYGN-5870	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,24			19,29.2	7,9.3	11,12
	18,19	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

627MDP-5870	PowerPlex® Fusion 6C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		
6327EQ-5870	PowerPlex® Fusion					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
63LWFX-5870	PowerPlex® Fusion					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
6HDTHT-5870	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
6NL9AP-5875	PowerPlex® F6C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		
76ZTGT-5870	VersaPlex® 27PY SystemY (GeneMapper ID-X, 1.6-version)					
	12,16	19,20	11,12	14,15	11,12	12,18
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	-	7,9.3	11,12
	18,19	10	18	15	-	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

79NF3U-5875	PowerPlex® Fusion6C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		
7AB7YR-5875	Investigator ESSplex SE QS Kit (QIAGEN) (GeneMapper Software 5)					
	12,16	19,20	11,12	14,15		
		13,15	12,14	18,18		9,12
4	12,14	12,14	28,32.2	13,16	X,Y	
	20,25			19,29.2	7,9.3	
	18,19					
7DXJ6P-5870	GlobalFiler™ Express (DNA view)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
7EPRXQ-5875	PowerPlex® Fusion 6C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		
7M3QJP-5875	PowerPlex® Fusion 6C (eDNA)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		
7TA82Q-5870	GlobalFiler™ (DBLR)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

7VFAU-5875	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
7VU9XX-5870	Investigator® 24plex					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10				
83TXBV-5875	PowerPlex® 5C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
8DDC4P-5875	PowerPlex® Fusion 6C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		
8HTMGU-5870	GlobalFiler™ (DNA VIEW)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
8RTJUV-5870	PowerPlex® Fusion					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

8UZT8M-5875	GlobalFiler™ Express					
	12,16	19,20	11,12	14,15	11,12	NT
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	NT	NT	19,29.2	7,9.3	11,12
	18,19	10	NT	NT	2	
8WJU4U-5870	GlobalFiler™ Express (DNAnView)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
8Z4LFW-5870	PowerPlex® Fusion					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
94ZPKN-5875	ESI-17 (Genoproof)					
	12,16	19,20	11,12	14,15		
		13,15	12,14	18,18		9,12
4	12,14	12,14	28,32.2	13,16	X,Y	
	20,25			19,29.2	7,9.3	
	18,19					
9B4MEL-5870	PowerPlex® Fusion					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
9KMCNR-5870	Forenseq DNA Signature Prep (DNAnView)					
	12,16	19,20	11,12	14,15	11,12	12,18
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	NR,NR	9.3,NR	11,12
	18,19	10	18	15	NR	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

9KPQLL-5875	GlobalFiler™ Express					
	12,16	19,20	11,12	14,15	11,12	NT
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	NT	NT	19,29.2	7,9.3	11,12
	18,19	10	NT	NT	2	
9UXEAR-5870	ForenSeq DNA Signature Prep (DNAView)					
	12,16	19,20	11,12	14,15	11,12	12,18
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	NR,NR	7,9.3	11,12
	18,19	10	18	15	NR	
ALFQ7Y-5870	PowerPlex® Fusion					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
AN4WCR-5870	GlobalFiler™ Express (DNAView)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
AR399R-5870	PowerPlex® Fusion 5C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
ATYEZK-5870	PowerPlex® Fusion 6C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

BF2AUQ-5870	PowerPlex® Fusion 6C (Familias v 3.4)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		
BJNMYN-5870	GlobalFiler™ (FBI PopstatsPop.Database)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
BJZKPQ-5875	ANDE/FlexPlex27 (FAIRS Claimed Relationship)					
	12,16		11,12		11	12
	10,11		12,14	18	11	
4			28,32.2			10,12
	20,25		5,13	19,29.2	7,9.3	12
CQJ4PK-5875	GlobalFiler™ Express					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	-	-	19,29.2	7,9.3	11,12
	18,19	10	-	-	2	
CZCATJ-5870	PowerPlex® Fusion					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
DQFUGK-5870	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	-
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	-	-	19,29.2	7,9.3	11,12
	18,19	10	-	-	2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

DRRF7L-5870	PowerPlex® FUision 5C (KIn CALc 5.0.12)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	Inconclusive				
E4ZVCH-5870	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
EFAKZL-5870	PowerPlex® 5C (In-house Excel Macro)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
EHZGTL-5875	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
EJVZUM-5870	GlobalFiler™ Express (DNAView)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
ETH2DH-5875	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

EVQ8YJ-5875		PowerPlex® Fusion 6C				
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11 9,12
4		12,14	12,14	28,32.2	13,16	X,Y 10,12
		20,25	8,10	5,13	19,29.2	7,9.3 11,12
		18,19	10	18	15	
F6A8JL-5870		GlobalFiler™				
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11 9,12
4		12,14	12,14	28,32.2	13,16	X,Y 10,12
		20,25			19,29.2	7,9.3 11,12
		18,19	10			2
FA62GM-5870		PowerPlex® Fusion				
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11 9,12
4		12,14	12,14	28,32.2	13,16	X,Y 10,12
		20,25	8,10	5,13		7,9.3 11,12
		18,19	10			
FJQ3YH-5870		GlobalFiler™				
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11 9,12
4		12,14	12,14	28,32.2	13,16	X,Y 10,12
		20,25			19,29.2	7,9.3 11,12
		18,19	10			2
FKLL2J-5870		GlobalFiler™				
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11 9,12
4		12,14	12,14	28,32.2	13,16	X,Y 10,12
		20,25			19,29.2	7,9.3 11,12
		18,19	10			2
FZF4ZF-5870		PowerPlex® Fusion				
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11 9,12
4		12,14	12,14	28,32.2	13,16	X,Y 10,12
		20,25	8,10	5,13		7,9.3 11,12
		18,19	10			

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

GBFZDG-5870 GlobalFiler™						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
H8QDVD-5870 GlobalFiler™						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
HEAG4F-5870 GlobalFiler™						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
HF6Z6G-5870 GlobalFiler™						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
HVDQ8L-5870 Investigator® 24plex						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10				
J6D2RG-5870 Investigator® 24plex GO!						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10				

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

J78UKE-5870	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
JBPPRD-5870	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
KKLELJ-5870	PowerPlex® Fusion 5C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
L8LQFB-5870	PowerPlex® 21					
	12,16	19,20		14,15	11,12	12,18
	10,11	13,15		18,18	11,11	9,12
4	12,14	12,14	28,32.2		X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19					
M737Z7-5875	GlobalFiler™ EXPRESS					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
M739PB-5870	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

N2JRTC-5870	PowerPlex® 21					
	12,16	19,20		14,15	11,12	12,18
	10,11	13,15		18,18	11,11	9,12
4	12,14	12,14	28,32.2		X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19					
N89BNE-5870	PowerPlex® Fusion					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
N8TUV8-5870	GlobalFiler™ Express (DNA•VIEW)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
NKUPRE-5870	PowerPlex® Fusion					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				
NLP9UF-5870	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
NM73WB-5870	GlobalFiler™					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

NRGDP6-5870 PowerPlex®						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		
NX39Q9-5875 GlobalFiler™ Express						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
NXHRA7-5875 PowerPlex® Fusion 6C						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		
PDBMKC-5870 Investigator® 24plex GO!						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10				
PE4FDA-5870 GlobalFiler™						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
PEQWJ4-5870 PowerPlex® Fusion 6C						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

Q2C9Z6-5870 GlobalFiler™ Express (DNAView)

	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	

QEXK89-5875 PowerPlex® Fusion 6C (Gene Mapper ID-X v. 1.7.2 , Familias 3.3.1)

	12,16	19,20	11,12	14,15	11,12	-
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		

QXWXM2-5875 GlobalFiler™ (Familias3, DNAView)

	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	

RUTDH2-5870 PowerPlex® Fusion 6C

	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		

TJQE98-5870 VeriFiler Express

	12,16	19,20	11,12	14,15	11,12	12,18
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19				2	

TLXW73-5870 GlobalFiler™ Express

	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

U49V66-5870	GlobalFiler™ (Popstats)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
VA9UTZ-5870	GlobalFiler™ Express (DNAView)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
VGCRMX-5870	PowerPlex® Fusion 6C					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10	18	15		
VGTVBX-5870	GlobalFiler™ Express					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
WCFT7-5870	GlobalFiler™ Express (DNA View)					
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
W6TJFV-5875	GlobalFiler™, VeriFiler Plus (eDNA)					
	12,16	19,20	11,12	14,15	11,12	12,18
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13	19,29.2	7,9.3	11,12
	18,19	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

W9WGN4-5875 GlobalFiler™						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
WARX2Z-5875 GlobalFiler™ Express						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
WFYEH2-5875 GlobalFiler™ (Popstats)						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
WNPZNY-5870 GlobalFiler™						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10			2	
WUB3K4-5870 Investigator® 24plex GO!						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18,18	11,11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25			19,29.2	7,9.3	11,12
	18,19	10				
XMTW8-5870 PowerPlex® Fusion						
	12,16	19,20	11,12	14,15	11,12	
	10,11	13,15	12,14	18	11	9,12
4	12,14	12,14	28,32.2	13,16	X,Y	10,12
	20,25	8,10	5,13		7,9.3	11,12
	18,19	10				

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
Item	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

XYZMZ-5870	GlobalFiler™					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25		19,29.2	7,9.3	11,12
		18,19	10			2
XZWGP2-5870	GlobalFiler™					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25		19,29.2	7,9.3	11,12
		18,19	10			2
Y9LUFA-5870	PowerPlex® Fusion					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25	8,10	5,13	7,9.3	11,12
		18,19	10			
YRMZ22-5870	PowerPlex® Fusion (DNAView)					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25	8,10	5,13	7,9.3	11,12
		18,19	10			
YWR9XW-5870	Identifiler® Direct					
			19,20		14,15	11,12
		10,11	13,15			11,11
4		12,14	12,14	28,32.2		X,Y
		20,25			7,9.3	11,12
		18,19				
YZDL8Z-5875	PowerPlex® Fusion 6C (Popstats)					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25	8,10	5,13	19,29.2	7,9.3
		18,19	10	18	15	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

ZAFYA9-5870	GlobalFiler™					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25	-	-	19,29.2	7,9.3
		18,19	10	-	-	2
ZFNMGV-5870	GlobalFiler™					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25			19,29.2	7,9.3
		18,19	10			2
ZFYXNY-5870	GlobalFiler™					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25			19,29.2	7,9.3
		18,19	10			2
ZRH7V2-5870	GlobalFiler™					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18,18	11,11
4		12,14	12,14	28,32.2	13,16	X,Y
		20,25			19,29.2	7,9.3
		18,19	10			2
ZRXB6Y-5870	VeriFiler Express (Gen Analysen)					
		12,16	19,20	11,12	14,15	11,12
		10,11	13,15	12,14	18	11
4		12,14	12,14	28,32.2		X,Y
		20,25	8,10	5,13		7,9.3
		18,19				2
ZXNYPW-5870	PowerPlex® 21 (Kinship)					
		12,16	19,20		14,15	11,12
		10,11	13,15		18,18	11,11
4		12,14	12,14	28,32.2		X,Y
		20,25	8,10	5,13		7,9.3
		18,19				

Paternity Index Results

TABLE 2

WebCode-Test	Population Database(s)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
vWA						

Item 3PI - Paternity Index Results

23XC8V-5870	FBI PopStats					
		4.2088	4.1220	4.3440	2.1487	3.3113
		1.7265	1.1348	2.8852	3.7397	0.80476
3PI		4.2088	25.253	4.5914	3.1566	3.0609
		9.1743			3.5436	2.8852
		1.8706				1.8282
24ZGC3-5870	FBI PopStats					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419		0.84147
3PI		4.0552	32.895	5.5556	2.6157	3.1807
		10.020	2.5419	9.7656		2.7770
		1.7612			2.5786	1.9051
27XN3V-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	3.4831
		5.9737			4.7483	2.5491
		2.2232			1.4824	1.8018
28T76W-5875	FBI PopStats					
		5.6180	6.5531	2.6817	1.7876	4.6253
		1.6276	1.2422	2.3596	8.9047	1.1028
3PI		4.0683	18.182	3.9339	2.8604	3.6036
		6.2112	3.4554	8.1433	5.9032	2.6667
		2.0342			1.6858	2.0610
2F3HB2-5870	FBI PopStats					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419		0.84147
3PI		4.0552	32.895	5.5556	2.6157	3.1807
		10.020	2.5419	9.7656		2.7770
		1.7612			2.5786	1.9051
2RAM2U-5870	NIST-STRBASE					
		4.29	4.34	3.88	2.09	3.504
		1.95	1.15	2.54	7.76	0.841
3PI		4.05	32.8	5.55	2.61	3.18
		10.02	2.54	9.75	5.15	2.77
		1.76			2.57	1.905
2Z27F3-5870	FBI PopStats					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419		0.84147
3PI		4.0552	32.895	5.5556	2.6157	3.1807
		10.020	2.5419	9.7656		2.7770
		1.7612			2.5786	1.9051

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

383HCZ-5875	NIST-STRBASE					
		4.12	4.16	3.49	2.10	3.19
		1.95	1.12	2.52		0.834
3PI		3.63	20.5	4.72	2.59	2.74
		8.67			4.09	2.43
		1.77				1.91
3BGCRW-5875	NIST-STRBASE					
		4.12	4.16	3.49	2.10	3.19
		1.95	1.12	2.52		0.834
3PI		3.63	20.5	4.72	2.59	2.74
		8.67			4.09	2.43
		1.77				1.91
3UXC8T-5870	NIST-STRBASE					
		5.7870	5.1546	3.3047	1.7680	3.0656
		1.6955	1.2234	2.4839	9.9108	0.83963
3PI		4.7755	21.552	5.4825	3.3636	2.9019
		8.6356	3.6075	9.8619	6.0976	1.6955
						2.1450
43GCTV-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737			4.7483	1.4824
		2.2232				1.8018
4MUYGN-5870	FBI PopStats					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419	3.8820	0.84147
3PI		4.0552	32.895	5.5556	2.6157	2.7770
		10.020			5.1546	2.5786
		1.7612				1.9051
627MDP-5870	FBI PopStats					
		4.2088	4.1220	4.3440	2.1487	3.3113
		1.7265	1.1348	2.8852	3.7397	0.80476
3PI		4.2088	25.253	4.5914	3.1566	3.0609
		9.1743	2.4050	11.211	3.5436	2.8852
		1.8706				1.8282
6327EQ-5870	NIST-STRBASE					
		4.30	4.35	3.88	2.10	3.50
		1.95	1.15	2.54		0.841
3PI		4.06	32.9	5.56	2.62	2.78
		10.0	2.54	9.77		2.58
		1.76				1.91

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

63LWFX-5870	FBI PopStats					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419		0.84147
3PI		4.0552	32.895	5.5556	2.6157	2.7770
		10.020	2.5419	9.7656		2.5786
		1.7612				1.9051
<hr/>						
6HDTHT-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737		4.7483		1.4824
		2.2232				1.8018
<hr/>						
6NL9AP-5875	NIST-STRBASE					
		5.6180	6.5531	2.6817	1.7876	4.6253
		1.6276	1.2422	2.3596	8.9047	1.1028
3PI		4.0683	18.182	3.9339	2.8604	2.6667
		6.2112	3.4554	8.1433	5.9032	1.6858
		2.0342				2.0610
<hr/>						
76ZTGT-5870	[Location Identifying Database]					
		5.2301	4.4053	4.4014	1.7259	3.4795
		2.1844	3.4176	2.1304	10.5708	2.0982
3PI		3.2873	17.4825	3.8081	4.1017	3.0303
		10.2459	3.3647	7.0225		2.3552
		1.8308				1.9033
<hr/>						
7AB7YR-5875	Laboratory specific database					
		4.298	4.457	3.882	2.018	
			1.157	2.535	3.882	3.144
3PI		4.466	23.631	4.673	2.616	
		6.983			5.146	3.359
		1.752				
<hr/>						
7DXJ6P-5870	NIST-STRBASE					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419	3.8820	0.8415
3PI		4.0552	32.8947	5.5556	2.6157	2.7770
		10.0200			5.1546	2.5786
		1.7612				1.9051
<hr/>						
7EPRXQ-5875	FBI PopStats					
		5.6180	6.5531	2.6817	1.7876	4.6253
		1.6276	1.2422	2.3596	8.9047	1.1028
3PI		4.0683	18.182	3.9339	2.8604	2.6667
		6.2112	3.4554	8.1433	5.9032	1.6858
		2.0342				2.0610

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

7M3QJP-5875	FBI PopStats					
		4.2992	4.1085	3.8820	2.1487	3.4200
		1.7265	1.1136	2.5419	7.7640	0.7968
3PI		4.0816	19.0114	4.5579	2.6157	3.0609
		8.9127	2.5641	10.4167	5.1546	2.8852
		1.9026				
7TA82Q-5870	NIST-STRBASE					
		4.301	4.352	3.884	2.101	3.507
		1.953	1.154	2.544	3.885	0.842
3PI		4.059	32.69	5.557	2.619	2.780
		10.02		5.161	2.580	1.907
		1.763				
7VFPAU-5875	FBI PopStats, Southwest Hispanic					
		4.2088	4.1220	4.3440	2.1487	3.3113
		1.7265	1.1348	2.8852	3.7397	0.80476
3PI		4.2088	25.253	4.5914	3.1566	3.0609
		9.1743		3.5436	2.8852	1.8282
		1.8706				
7VU9XX-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737		4.7483	1.4824	1.8018
		2.2232				
83TXBV-5875	NIST-STRBASE					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419	3.8820	0.8415
3PI		4.0552	32.8947	5.5556	2.6157	2.7770
		10.0200	2.5419	9.7656	2.5786	1.9051
		1.7612				
8DDC4P-5875	FBI PopStats					
		5.6180	6.5531	2.6817	1.7876	4.6253
		1.6276	1.2422	2.3596	8.9047	1.1028
3PI		4.0683	18.182	3.9339	2.8604	2.6667
		6.2112	3.4554	8.1433	5.9032	1.6858
		2.0342				
8HTMGU-5870	[Location Identifying Database]					
		6.6483	5.8111	2.1641	1.8458	4.7545
		1.8995	1.2315	2.2673	5.6035	1.0926
3PI		3.7357	16.0102	4.0438	3.0289	2.8067
		4.9339		4.7545	1.4636	1.7910
		1.7789				

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

8RTJUV-5870	FBI PopStats					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419		0.84147
3PI		4.0552	32.895	5.5556	2.6157	2.7770
		10.020	2.5419	9.7656		2.5786
		1.7612				
8WJU4U-5870	NIST-STRBASE					
		4.2992	4.3478	3.8819	2.0990	3.5038
		1.9516	1.1534	2.5419	3.8819	0.8414
3PI		4.0551	32.8947	5.5555	2.6157	2.7770
		10.0200		5.1546	2.5786	1.9051
		1.7611				
8Z4LFW-5870	FBI PopStats					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419		0.84147
3PI		4.0552	32.895	5.5556	2.6157	2.7770
		10.020	2.5419	9.7656		2.5786
		1.7612				
94ZPKN-5875	[Location Identifying Database]					
		3.7063	4.5535	4.3074	2.0765	
			1.1882	2.9929	4.3965	2.1555
3PI		4.2642	33.5526	6.1893	2.7127	
		8.3333			4.7222	2.6898
		1.7857				
9B4MEL-5870	NIST-STRBASE					
		4.30	4.35	3.88	2.10	3.50
		1.95	1.15	2.54		0.841
3PI		4.06	32.9	5.56	2.62	2.78
		10.0	2.54	9.77		2.58
		1.76				
9KMCNR-5870	NIST-STRBASE					
		4.3	4.35	3.88	2.1	3.5
		2.71	1.15	2.54	3.88	0.841
3PI		4.06	32.8	5.55	1	2.78
		10	4.51	1		2.58
		1.91				
9UXEAR-5870	NIST-STRBASE					
		4.3	4.35	3.93	2.1	1
		2.71	1.15	2.6	3.88	0.841
3PI		4.06	32.8	5.55	1	2.78
		10	2.54	9.76		2.58
		1.91				

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

ALFQ7Y-5870	NIST-STRBASE					
	4.2992	4.3478	3.8819	2.0990	3.5038	
	1.9516	1.1534	2.5419	3.8819	0.8414	3.1806
3PI	4.0551	32.8947	5.5555	2.6157		2.7770
	10.0200	2.5419	9.7656		2.5786	1.9051
	1.7611					
AN4WCR-5870	NIST-STRBASE					
	4.2992	4.3478	3.8819	2.0990	3.5038	
	1.9516	1.1534	2.5419	3.8819	0.8414	3.1806
3PI	4.0551	32.8947	5.5555	2.6157		2.7770
	10.0200			5.1546	2.5786	1.9051
	1.7611					
AR399R-5870	FBI PopStats					
	4.2088	4.1220	4.3440	2.1487	3.3113	
	1.7265	1.1348	2.8852	3.7397	0.80476	2.9274
3PI	4.2088	25.253	4.5914	3.1566		3.0609
	9.1743	2.4050	11.211		2.8852	1.8282
	1.8706					
ATYEZK-5870	Popstats NIST 2017					
	5.6180	6.5531	2.6817	1.7876	4.6253	
	1.6276	1.2422	2.3596		1.1028	3.6036
3PI	4.0683	18.182	3.9339	2.8604		2.6667
	6.2112	3.4554	8.1433	5.9032	1.6858	2.0610
	2.0342					
BF2AUQ-5870	NIST-STRBASE					
	4.2976	4.3494	3.8817	2.0988	3.5049	
	1.9514	1.1534	2.5423	7.7634	0.8415	3.1806
3PI	4.0562	32.8182	5.5538	2.6159		2.7769
	10.0278	2.5423	9.7568	5.1571	2.5786	1.9050
	1.7609					
BJNMYN-5870	FBI PopStats					
	6.7385	7.4627	2.1887	1.8825	5.2247	
	1.6329	1.1484	2.0492	5.6497	1.2080	3.4831
3PI	2.9851	17.422	3.6657	2.6969		2.5491
	5.9737			4.7483	1.4824	1.8018
	2.2232					
BJZKPQ-5875	NIST General Population Database					
	5.7877	5.1542	3.3046	1.7679	3.0651	2.3333
	1.6956	1.2231			0.8395	0.0028
3PI	4.7742		5.4815	3.3636		2.9020
	8.6333		9.8667	6.0941	1.6956	2.1451
	1.9079					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

CQJ4PK-5875	FBI PopStats					
		4.2088	4.1220	4.3440	2.1487	3.3113
		1.7265	1.1348	2.8852	3.7397	0.80476
3PI		4.2088	25.253	4.5914	3.1566	3.0609
		9.1743				2.8852
		1.8706				1.8282
CZCATJ-5870	NIST-STRBASE					
		4.30	4.35	3.88	2.10	3.50
		1.95	1.15	2.54		0.841
3PI		4.06	32.9	5.56	2.62	2.78
		10.0	2.54	9.77		2.58
		1.76				1.91
DQFUGK-5870	FBI PopStats					
		4.2088	4.1220	4.3440	2.1487	3.3113
		1.7265	1.1348	2.8852	3.7397	0.80476
3PI		4.2088	25.253	4.5914	3.1566	3.0609
		9.1743			3.5436	2.8852
		1.8706				1.8282
DRRF7L-5870	NIST-STRBASE					
		5.61	6.55	2.68	1.78	4.62
		1.62	1.24	2.36	4.45	1.10
3PI		4.06	18.15	3.93	2.86	2.66
		6.21	3.45	8.13		1.68
		2.03				2.06
E4ZVCH-5870	[Location Identifying Database]					
		4.4957	4.9346	3.8540	1.9628	3.1059
		2.0230	1.1604	2.5756	4.4370	0.8585
3PI		3.4967	40.6154	6.2857	3.1712	3.1592
		6.5185			4.5128	2.7789
		1.9701				1.8721
EFAKZL-5870	NIST-STRBASE					
		4.298	4.349	3.882	2.099	3.505
		1.951	1.153	2.542	3.882	0.841
3PI		4.056	32.818	5.554	2.616	2.777
		10.028	2.542	9.757		2.579
		1.761				1.905
EHZGTL-5875	NIST-STRBASE					
		4.12	4.16	3.49	2.10	3.19
		1.95	1.12	2.52		0.834
3PI		3.63	20.5	4.72	2.59	2.74
		8.67			4.09	2.43
		1.77				1.91

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

EJVZUM-5870	NIST-STRBASE					
		4.2992	4.3478	3.8819	2.0990	3.5038
		1.9516	1.1534	2.5419	3.8819	0.8414
3PI		4.0551	32.8947	5.5555	2.6157	2.7770
		10.0200			5.1546	2.5786
		1.7611				1.9051
ETH2DH-5875	FBI PopStats					
		4.21326E+00	4.12618E+00	4.34705E+00	2.15171E+00	3.31364E+00
		1.72943E+00	1.13658E+00	2.88911E+00	3.74635E+00	8.06059E-01
3PI		4.21290E+00	2.51033E+01	4.59481E+00	3.16159E+00	3.06625E+00
		9.17476E+00			3.54935E+00	2.88827E+00
		1.87327E+00				1.83140E+00
EVQ8YJ-5875	FBI PopStats					
		5.6180	6.5531	2.6817	1.7876	4.6253
		1.6276	1.2422	2.3596	8.9047	1.1028
3PI		4.0683	18.182	3.9339	2.8604	2.6667
		6.2112	3.4554	8.1433	5.9032	1.6858
		2.0342				2.0610
F6A8JL-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737			4.7483	1.4824
		2.2232				1.8018
FA62GM-5870	FBI PopStats					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419		0.84147
3PI		4.0552	32.895	5.5556	2.6157	2.7770
		10.020	2.5419	9.7656		2.5786
		1.7612				1.9051
FJQ3YH-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737			4.7483	1.4824
		2.2232				1.8018
FKLL2J-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737			4.7483	1.4824
		2.2232				1.8018

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

FZF4ZF-5870	NIST-STRBASE					
		4.30	4.35	3.88	2.10	3.50
		1.95	1.15	2.54		0.841
3PI		4.06	32.9	5.56	2.62	2.78
		10.0	2.54	9.77		2.58
		1.76				1.91
<hr/>						
GBFZDG-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737		4.7483	1.4824	1.8018
		2.2232				
<hr/>						
H8QDVD-5870	FBI PopStats					
		4.21326E+00	4.12618E+00	4.34705E+00	2.15171E+00	3.31364E+00
		1.72943E+00	1.13658E+00	2.88911E+00	3.74635E+00	8.06059E-01
3PI		4.21290E+00	2.51033E+01	4.59481E+00	3.16159E+00	3.06625E+00
		9.17476E+00		3.54935E+00	2.88827E+00	1.83140E+00
		1.87327E+00				
<hr/>						
HEAG4F-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737		4.7483	1.4824	1.8018
		2.2232				
<hr/>						
HF6Z6G-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737		4.7483	1.4824	1.8018
		2.2232				
<hr/>						
HVDQ8L-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737		4.7483	1.4824	1.8018
		2.2232				
<hr/>						
J6D2RG-5870	NIST-STRBASE					
		5.7870	5.1546	3.3047	1.7680	3.0656
		1.6955	1.2234	2.4839	4.9554	0.83963
3PI		4.7755	21.552	5.4825	3.3636	2.9019
		8.6356		6.0976	1.6955	2.1450
		1.9077				

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

J78UKE-5870	[Location Identifying Database]					
	4.08	3.79	21.2	1.93	3.04	
	1.83	1.22	21.2	10.0	0.87	3.61
3PI	3.73	27.17	4.91	42.4		3.11
	8.11			10.6	2.82	1.95
	2.07					
JBPPRD-5870	NIST-STRBASE					
	4.30	4.35	3.88	2.10	3.50	
	1.95	1.15	2.54	3.88	0.84	3.18
3PI	4.06	32.89	5.56	2.62		2.78
	10.02			5.15	2.58	1.91
	1.76					
KKLELJ-5870	FBI PopStats					
	4.2992	4.3478	3.8820	2.0991	3.5039	
	1.9516	1.1534	2.5419		0.84147	3.1807
3PI	4.0552	32.895	5.5556	2.6157		2.7770
	10.020	2.5419	9.7656		2.5786	1.9051
	1.7612					
L8LQFB-5870	National Caucasian Database					
	3.808	4.4028		1.9774	3.0017	1.9341
	1.8383	1.1516		4.384	0.859	3.3497
3PI	4.1941	37.0425	5.3281			3.1383
	7.2629	2.5126	10.4626		2.6861	1.8594
	1.9077					
M737Z7-5875	NIST-STRBASE					
	2.15	2.2	2.4	1	3.5	
	5.4	2.4	1.3	3.4	0.93	1.6
3PI	4	16.44	5.55	1.3		1.4
	5			6	2.6	0.95
	0.9					
M739PB-5870	FBI PopStats					
	6.7385	7.4627	2.1887	1.8825	5.2247	
	1.6329	1.1484	2.0492	5.6497	1.2080	3.4831
3PI	2.9851	17.422	3.6657	2.6969		2.5491
	5.9737			4.7483	1.4824	1.8018
	2.2232					
N2JRTC-5870	NIST-STRBASE					
	4.2992	4.3478		2.0991	3.5039	2.1115
	1.9516	1.1534		3.8820	0.8415	3.1807
3PI	4.0552	32.8947	5.5556			2.7770
	10.0200	5.5419	9.7656		2.5786	1.9051
	1.7612					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

N89BNE-5870	FBI PopStats					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419		0.84147
3PI		4.0552	32.895	5.5556	2.6157	2.7770
		10.020	2.5419	9.7656		2.5786
		1.7612				1.9051
N8TUV8-5870	NIST-STRBASE					
		4.30	4.35	3.88	2.10	3.50
		1.95	1.15	2.54	3.88	0.841
3PI		4.06	32.9	5.56	2.62	2.78
		10.0			5.15	2.58
		1.76				1.91
NKUPRE-5870	FBI PopStats					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419		0.84147
3PI		4.0552	32.895	5.5556	2.6157	2.7770
		10.020	2.5419	9.7656		2.5786
		1.7612				1.9051
NLP9UF-5870	NIST-STRBASE					
		5.7870	5.1546	3.3046	1.7680	3.0656
		1.6954	1.2233	2.4838		0.8396
3PI		4.7755	21.5517	5.4824	3.3636	2.9019
		8.6355			6.0975	1.6954
		1.9076				2.1450
NM73WB-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737			4.7483	1.4824
		2.2232				1.8018
NX39Q9-5875	FBI PopStats					
		4.2088	4.1220	4.3440	2.1487	3.3113
		1.7265	1.1348	2.8852	3.7397	0.08476
3PI		4.2088	25.253	4.5914	3.1566	3.0609
		9.1743				2.8852
		1.8706				1.8282
PDBMKC-5870	NIST-STRBASE					
		5.78	5.15	3.30	1.76	3.06
		1.69	1.22	2.48	4.95	0.839
3PI		4.77	21.5	5.48	3.36	2.90
		8.63			6.09	1.69
		1.90				2.14

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

PE4FDA-5870	Government/local database					
	4.08	3.79	21.2	1.93	3.04	
	1.83	1.22	21.2	10.0	0.87	3.61
3PI	3.73	27.17	4.91	42.4		3.11
	8.11			10.6	2.82	1.95
	2.07					
PEQWJ4-5870	Popstats NIST 2017					
	5.6180	6.5531	2.6817	1.7876	4.6253	
	1.6276	1.2422	2.3596		1.1028	3.6036
3PI	4.0683	18.182	3.9339	2.8604		2.6667
	6.2112	3.4554	8.1433	5.9032	1.6858	2.0610
	2.0342					
Q2C9Z6-5870	NIST-STRBASE					
	4.2992	4.3478	3.8819	2.0990	3.5038	
	1.9516	1.1534	2.5419	3.8819	0.8414	3.1806
3PI	4.0551	32.8947	5.5555	2.6157		2.7770
	10.0200			5.1546	2.5786	1.9051
	1.7611					
QEXK89-5875	NIST-STRBASE					
	3.86304108	4.786301929	4.41732373	1.996328553	3.124933906	
	1.907122207	1.155345658	2.425463326	8.804946179	0.8369443107	3.289626904
3PI	3.70508749	23.22207905	0.046817348551	2.964178724		3.102187598
	6.952104729	2.484827349	11.95907545	4.856194547	3.043317734	1.849866416
	1.813697481					
QXWXM2-5875	NIST-STRBASE					
	3.9E+00	4.2E+00	3.4E+00	2.1E+00	3.3E+00	
	1.9E+00	1.1E+00	2.6E+00	3.8E+00	8.2E-01	3.1E+00
3PI	3.7E+00	2.1E+01	4.4E+00	2.6E+00		2.7E+00
	8.8E+00			3.9E+00	2.4E+00	1.9E+00
	1.8E+00					
RUTDH2-5870	Popstats NIST 2017					
	5.6180	6.5531	2.6817	1.7876	4.6253	
	1.6276	1.2422	2.3596		1.1028	3.6036
3PI	4.0683	18.182	3.9339	2.8604		2.6667
	6.2112	3.4554	8.1433	5.9032	1.6858	2.0610
	2.0342					
TJQE98-5870	[Location Identifying Database]					
	7.14	6.95	1.96	1.66	4.54	1.59
	1.66	0.98	2.38	5.39	1.03	2.43
3PI	3.33	16.66	3.12	2.46		2.56
	4.54	2.96	15.38		1.31	1.72
	1.56					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

TLXW73-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	3.4831
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737			4.7483	1.4824
		2.2232				1.8018
<hr/>						
U49V66-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	3.4831
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737			4.7483	1.4824
		2.2232				1.8018
<hr/>						
VA9UTZ-5870	NIST-STRBASE					
		4.30	4.35	3.88	2.10	3.50
		1.95	1.15	2.54	3.88	3.18
3PI		4.06	32.9	5.56	2.62	2.78
		10.0			5.15	2.58
		1.76				1.91
<hr/>						
VGCRMX-5870	Popstats NIST 2017					
		5.6180	6.5531	2.6817	1.7876	4.6253
		1.6276	1.2422	2.3596		1.1028
3PI		4.0683	18.182	3.9339	2.8604	2.6667
		6.2112	3.4554	8.1433	5.9032	1.6858
		2.0342				2.0610
<hr/>						
VGTVBX-5870	Popstats\POPDATA\FBI\NIST 2017					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419	3.8820	0.84147
3PI		4.0552	32.895	5.5556	2.6157	2.7770
		10.020			5.1546	2.5786
		1.7612				1.9051
<hr/>						
WCFT7-5870	NIST-STRBASE					
		4.2992	4.3478	3.8819	2.0990	3.5038
		1.9516	1.1534	2.5419	3.8819	0.8414
3PI		4.0551	32.8947	5.5555	2.6157	2.7770
		10.0200			5.1546	2.5786
		1.7611				1.9051
<hr/>						
W6TJFV-5875	NIST-STRBASE					
		4.2992	4.3478	3.8820	2.0991	3.5039
		1.9516	1.1534	2.5419	3.8820	0.8415
3PI		4.0552	32.8947	5.5556	2.6157	2.7770
		10.0200	2.5419	9.7656	5.1546	2.5786
		1.7612				1.9051

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

W9WGN4-5875 NIST-STRBASE						
	4.12	4.16	3.49	2.10	3.19	
	1.95	1.12	2.52		0.834	3.11
3PI	3.63	20.5	4.72	2.59		2.74
	8.67			4.09	2.43	1.91
	1.77					
WARX2Z-5875 FBI PopStats						
	4.2088	4.1220	4.3440	2.1487	3.3113	
	1.7265	1.1348	2.8852	3.7397	0.80476	2.9274
3PI	4.2088	25.253	4.5914	3.1566		3.0609
	9.1743				2.8852	1.8282
	1.8706					
WNPZNY-5870 FBI PopStats						
	4.2088	4.1220	4.3440	2.1487	3.3113	
	1.7265	1.1348	2.8852	3.7397	0.80476	2.9274
3PI	4.2088	25.253	4.5914	3.1566		3.0609
	9.1743			3.5436	2.8852	1.8282
	1.8706					
WUB3K4-5870 NIST-STRBASE						
	5.7870	5.1546	3.3047	1.7680	3.0656	
	1.6955	1.2234	2.4839	4.9554	0.83963	3.8941
3PI	4.7755	21.552	5.4825	3.3636		2.9019
	8.6356			6.0976	1.6955	2.1450
	1.9077					
XMTTW8-5870 FBI PopStats						
	4.2992	4.3478	3.8820	2.0991	3.5039	
	1.9516	1.1534	2.5419		0.84147	3.1807
3PI	4.0552	32.895	5.5556	2.6157		2.7770
	10.020	2.5419	9.7656		2.5786	1.9051
	1.7612					
XYZYMZ-5870 FBI PopStats						
	6.7385	7.4627	2.1887	1.8825	5.2247	
	1.6329	1.1484	2.0492	5.6497	1.2080	3.4831
3PI	2.9851	17.422	3.6657	2.6969		2.5491
	5.9737			4.7483	1.4824	1.8018
	2.2232					
XZWGP2-5870 FBI PopStats						
	6.7385	7.4627	2.1887	1.8825	5.2247	
	1.6329	1.1484	2.0492	5.6497	1.2080	3.4831
3PI	2.9851	17.422	3.6657	2.6969		2.5491
	5.9737			4.7483	1.4824	1.8018
	2.2232					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

Y9LUFA-5870	NIST-STRBASE					
		4.2992	4.3478	3.8819	2.0990	3.5038
		1.9516	1.1534	2.5419	3.8819	3.1806
3PI		4.0551	32.8947	5.5555	2.6157	2.7770
		10.0200	2.5419	9.7656		2.5786
		1.7611				1.9051
YRMZ22-5870	NIST Promega					
		4.298	4.349	3.882	2.099	3.505
		1.951	1.153	2.542	3.882	3.181
3PI		4.056	32.818	5.554	2.616	2.777
		10.028	2.542	9.757		2.579
		1.761				1.905
YWR9XW-5870	Identifiler (Caucasian)					
			4.2553		2.1949	3.2321
		1.8369	1.1790			3.3080
3PI		4.1051	29.0698	6.9832		3.0479
		8.1169				2.2957
		2.0408				1.8762
YZDL8Z-5875	FBI PopStats					
		5.6180	6.5531	2.6817	1.7876	4.6253
		1.6276	1.2422	2.3596	8.9047	1.1028
3PI		4.0683	18.182	3.9339	2.8604	2.6667
		6.2112	3.4554	8.1433	5.9032	1.6858
		2.0342				2.0610
ZAFYA9-5870	NIST-STRBASE					
		4.2976	4.3494	3.8817	2.0988	3.5049
		1.9514	1.1534	2.5423	3.8817	3.1806
3PI		4.0562	32.8182	5.5538	2.6159	2.7769
		10.0278			5.1571	2.5786
		1.7610				1.9050
ZFNMGV-5870	NIST-STRBASE					
		5.6180	6.5531	2.6817	1.7876	4.6253
		1.6276	1.2422	2.3596		1.1028
3PI		4.0683	18.182	3.9339	2.8604	2.6667
		6.2112			5.9032	1.6858
		2.0342				2.0610
ZFYXNY-5870	FBI PopStats					
		6.7385	7.4627	2.1887	1.8825	5.2247
		1.6329	1.1484	2.0492	5.6497	1.2080
3PI		2.9851	17.422	3.6657	2.6969	2.5491
		5.9737			4.7483	1.4824
		2.2232				1.8018

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 3PI - Paternity Index Results

ZRH7V2-5870	[Location Identifying Database]					
	6.64	5.81	2.16	1.84	4.75	
	1.89	1.23	2.26	5.60	1.09	3.41
3PI	3.73	16.01	4.04	3.02		2.80
	4.93			4.75	1.46	1.79
	1.77					
ZRXB6Y-5870	NIST-STRBASE					
	4.30	4.35	3.88	2.10	3.50	
	1.95	1.15	2.54	3.88	0.84	3.18
3PI	4.06	32.8	5.55			2.78
	10.0	2.54	9.76		2.58	1.91
	1.76					
ZXNYPW-5870	NIST-STRBASE					
	5.7870	5.1546		1.7680	3.0562	2.3277
	1.6984	1.2234		4.9554	0.8403	3.8941
3PI	4.7755	21.5517	5.4825			2.9019
	8.6356	3.6101	9.8619		1.6955	2.1450
	1.9077					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 4PI - Paternity Index Results

383HCZ-5875	NIST-STRBASE					
	4.12	0	1.81	0	0	
	1.95	2.20	0	0	1.64	1.60
4PI	0	0	4.72	1.33		1.41
	0			4.09	2.43	0
	0					
3BGCRW-5875	NIST-STRBASE					
	4.12	0	1.81	0	0	
	1.95	2.20	0		1.64	1.60
4PI	0	0	4.72	1.33		1.41
	0			4.09	2.43	0
	0					
4MUYGN-5870	FBI PopStats					
	4.2992		1.9410			
	1.9516	2.3068			1.6829	1.5903
4PI			5.5556	1.3079		1.3885
				5.1546	2.5786	
7AB7YR-5875	Laboratory specific database					
	4.298	0	1.941	0		
		2.315	0	0		1.572
4PI	0	0	4.673	1.308		
	0			5.146	3.359	
	0					
7DXJ6P-5870	NIST-STRBASE					
	4.2992	0.0010	1.9410	0.0020	0.0010	
	1.9516	2.3068	0.0028	0.0028	1.6829	1.5903
4PI	0.0030	0.0010	5.5556	1.3079		1.3885
	0.0041			5.1546	2.5786	0.0001
	0.0030					
7M3QJP-5875	FBI PopStats					
	4.2992	0.0000	1.9410	0.0000	0.0000	
	1.7265	2.2272	0.0000	0.0000	1.5936	1.4780
4PI	0.0000	0.0000	4.5579	1.3079		1.5305
	0.0000	0.0000	0.0000	5.1546	2.8852	0.0000
	0.0000					
83TXBV-5875	NIST-STRBASE					
	4.2992	0.0000	1.9410	0.0000	0.0000	
	1.9516	2.3068	0.0000	0.0000	1.6829	1.5903
4PI	0.0000	0.0000	5.5556	1.3079		1.3885
	0.0000	0.0000	0.0000		2.5786	0.0000
	0.0000					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 4PI - Paternity Index Results

8HTMGU-5870 [Location Identifying Database]

	6.6483	0	1.0820	0	0	
	1.8995	2.4631	0	0	2.1852	1.7091
4PI	0	0	4.0438	1.5144		1.4033
	0			4.7545	1.4636	0
	0					

8WJU4U-5870 NIST-STRBASE

	4.2992	0.0010	1.9409	0.0020	0.0010	
	1.9516	2.3068	0.0028	0.0028	1.6829	1.5903
4PI	0.0030	0.0010	5.5555	1.3078		1.3885
	0.0041			5.1546	2.5786	0.0001
	0.0030					

AN4WCR-5870 NIST-STRBASE

	4.2992	0.0010	1.9409	0.0020	0.0010	
	1.9516	2.3068	0.0028	0.0028	1.6829	1.5903
4PI	0.0030	0.0010	5.5555	1.3078		1.3885
	0.0041			5.1546	2.5786	0.0001
	0.0030					

BF2AUQ-5870 NIST-STRBASE

	4.2976	0	1.9408	0	0	
	1.9514	2.3067	0	0	1.6829	1.5903
4PI	0	0	5.5538	1.3080		1.3885
	0	0	0	5.1571	2.5786	0
	0					

BJZKPQ-5875 NIST General Population Database

	0		2.5146		0	2.3333
	0.8478		0.0017		1.7209	
4PI			5.4815			0.7255
	0		0	5.3402	1.6956	0

DRRF7L-5870 NIST-STRBASE

	5.61	0.00	1.34	0.00	0.00	
	1.62	2.48	0.00	0.00	2.20	1.80
4PI	0.00	0.00	3.93	1.43		1.33
	0.00	0.00	0.00		1.68	0.00
	0.00					

E4ZVCH-5870 [Location Identifying Database]

	4.4957	0	1.9270	0	0	
	2.0230	2.3209	0	0	1.7171	1.7483
4PI	0	0	6.2857	1.5856		1.5796
	0			4.5128	2.7789	0
	0					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 4PI - Paternity Index Results

EFKZL-5870	NIST-STRBASE					
	4.298	0.000	1.941	0.000	0.000	
	1.951	2.307	0.000	0.000	1.683	1.590
4PI	0.000	0.000	5.554	1.308		1.388
	0.000	0.000	0.000		2.579	0.000
	0.000					
EHZGTL-5875	NIST-STRBASE					
	4.12	0.000	1.81	0.000	0.000	
	1.95	2.20	0.000	0.000	1.64	1.60
4PI	0.000	0.000	4.72	1.33		1.41
	0.000			4.09	2.43	0.000
	0.000					
EJVZUM-5870	NIST-STRBASE					
	4.2992	0.0010	1.9409	0.0020	0.0010	
	1.9516	2.3068	0.0028	0.0028	1.6829	1.5903
4PI	0.0030	0.0010	5.5555	1.3078		1.3885
	0.0041			5.1546	2.5786	0.0001
	0.0030					
ETH2DH-5875	FBI PopStats					
	4.21326E+00	0.00000E+00	2.17352E+00	0.00000E+00	0.00000E+00	
	1.72943E+00	2.27315E+00	0.00000E+00	0.00000E+00	1.61212E+00	1.46633E+00
4PI	0.00000E+00	0.00000E+00	4.59481E+00	1.58080E+00		1.53312E+00
	0.00000E+00			3.54935E+00	2.88827E+00	0.00000E+00
	0.00000E+00					
H8QDVD-5870	FBI PopStats					
	4.21326E+00	0.00000E+00	2.17352E+00	0.00000E+00	0.00000E+00	
	1.72943E+00	2.27315E+00	0.00000E+00	0.00000E+00	1.61212E+00	1.46633E+00
4PI	0.00000E+00	0.00000E+00	4.59481E+00	1.58080E+00		1.53312E+00
	0.00000E+00			3.54935E+00	2.88827E+00	0.00000E+00
	0.00000E+00					
JBPPRD-5870	NIST-STRBASE					
	4.30	0	1.94	0	0	
	1.95	2.31	0	0	1.68	1.59
4PI	0	0	5.56	1.31		1.39
	0			5.15	2.58	0
	0					
N2JRTC-5870	NIST-STRBASE					
	4.2992	0		0	0	2.1115
	1.9516	2.3068		0	1.6829	1.5903
4PI	0	0	5.5556			1.3885
	0	0	0		2.5786	0
	0					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 4PI - Paternity Index Results

N8TUV8-5870	NIST-STRBASE					
	4.30	0.00100	1.94	0.00200	0.00100	
	1.95	2.31	0.00280	0.00280	1.68	1.59
4PI	0.00300	0.00100	5.56	1.31		1.39
	0.00413			5.15	2.58	0.000140
	0.00300					
Q2C9Z6-5870	NIST-STRBASE					
	4.2992	0.0012	1.9409	0.0020	0.0010	
	1.9516	2.3068	0.0028	0.0028	1.6829	1.5903
4PI	0.0036	0.0011	5.5555	1.3078		1.3885
	0.0048			5.1546	2.5786	0.0007
	0.0034					
QEXK89-5875	NIST-STRBASE					
	3.86304108	0.000638787662	2.20869342	0.00051966900	0.000938465560	
		39		581	74	
	1.907072629	2.309951065	0.0005519315651	0.00068948444	1.673367369	1.644978119
			5	325		
4PI	0.000907573789	0.001834722177	0.046817348551	1.482252607		1.551426704
	65	4				
	0.001653061232	0.000406941063	0.0019018717262	4.856194547	3.043317734	0.0000277516039
	1	50				17
	0.000726453298					
	56					
QXWXM2-5875	NIST-STRBASE					
	3,9E+00	2,1E-07	1,7E+00	2,4E-03	1,6E-04	
	1,9E+00	2,2E+00	2,5E-03	1,2E-04	1,6E+00	1,5E+00
4PI	5,1E-03	6,0E-06	4,4E+00	1,3E+00		1,4E+00
	4,00E-04			3,9E+00	2,4E+00	4,9E-07
	1,8E-04					
VA9UTZ-5870	NIST-STRBASE					
	4.30	0.00100	1.94	0.00200	0.00100	
	1.95	2.31	0.00280	0.00280	1.68	1.59
4PI	0.00300	0.00100	5.56	1.31		1.39
	0.00413			5.15	2.58	0.000140
	0.00300					
VVCFT7-5870	NIST-STRBASE					
	4.2992	0.0010	1.9409	0.0020	0.0010	
	1.9516	2.3068	0.0028	0.0028	1.6829	1.5903
4PI	0.0030	0.0010	5.5555	1.3078		1.3885
	0.0041			5.1546	2.5786	0.0001
	0.0030					
W6TJFV-5875	NIST-STRBASE					
	4.2992	0.0000	1.9410	0.0000	0.0000	2.1231
	1.9516	2.3068	0.0000	0.0000	1.6829	1.5903
4PI	0.0000	0.0000	5.5556	1.3079		1.3885
	0.0000	0.0000	0.0000	5.1546	2.5786	0.0000
	0.0000					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

Item 4PI - Paternity Index Results

W9WGN4-5875 NIST-STRBASE

	4.12	0	1.81	0	0	
	1.95	2.20	0		1.64	1.60
4PI	0	0	4.72	1.33		1.41
	0			4.09	2.43	0
	0					

YRMZ22-5870 NIST Promega

	4.298	0.000	1.941	0.000	0.000	
	1.951	2.307	0.000	0.000	1.683	1.590
4PI	0.000	0.000	5.554	1.308		1.388
	0.000	0.000	0.000		2.579	0.000
	0.000					

YWR9XW-5870 Identifiler (Caucasian)

		0		0	0	
	1.8369	2.3579			1.6502	1.6540
4PI	0	0	6.9832			1.5239
	0				2.2957	0
	0					

ZRXB6Y-5870 NIST-STRBASE

	4.30	0.00	1.94	0.00	0.03	
	1.95	2.31	0.00	0.00	1.68	1.59
4PI	0.01	0.00	5.55			1.39
	0.04	0.00	0.00		2.58	0.00
	0.00					

ZXNYPW-5870 NIST-STRBASE

	5.7870	0		0	0	2.3277
	1.6984	2.4468		0	1.6807	1.9470
4PI	0	0	5.4825			1.4510
	0	0	0		1.6955	0
	0					

YSTR Amplification Kit(s) & Results

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3 - YSTR Results									
23XC8V-5870	Yfiler® Plus								
	36,37	14	11,14	13	29	26	10	13	13
3	15	12	13	19	31	16	17	11	22
	36	12		18	17	20	23		12
27XN3V-5870	Yfiler® Plus								
	36,37	14	11,14	13	29	26	10	13	13
3	15	12	13	19	31	16	17	11	22
	36	12		18	17	20	23		12
3UXC8T-5870	Powerplex 35GY								
			11,14			26	10		
3		12		19		16	17		22
							23	10	
4MUYGN-5870	PowerPlex® Y 23								
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		22
		12	13	18	17		23	10	12
6327EQ-5870	Yfiler®								
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
79NF3U-5875	PowerPlex® Y 23								
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		22
		12	13	18	17		23	10	12
7DXJ6P-5870	Yfiler®								
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
7TA82Q-5870	Yfiler® Plus								
	36,37	14	11,14	13	29	26	10	13	13
3	15	12	13	19	31	16	17	11	22
	36	12		18	17	20	23		12
8HTMGU-5870	Yfiler® Plus								
	36,37	14	11,14	13	29	26	10	13	13
3	15	12	13	19	31	16	17	11	22
	36	12		18	17	20	23		12

TABLE 3

WebCode-Test		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3 - YSTR Results									
8WJU4U-5870	Yfiler®								
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
9KMCNR-5870	Forenseq DNA Signature Prep								
	36,37	14	11,14	13	29	26	10	13	NR
3	15	12	13	19	NR	NR	NR	11	22
	NR	12	13	18	17	NR	23	10	12
9UXEAR-5870	ForenSeq DNA Signature Prep								
	36,37	14	11,14	13	29	26	10	NR	NR
3	15	12	13	19	NR	NR	NR	11	22
	NR	12	13	18	17	NR	23	10	12
ALFQ7Y-5870	Yfiler®								
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
AN4WCR-5870	Yfiler®								
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
AR399R-5870	Yfiler®								
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
BF2AUQ-5870	Investigator Argus Y-28 QS								
		14	11,14	13	29	26	10	13	13
3	15	12	13	19	31	16	17	11	22
	36	12	13	18	17	20	23	10	12
DQFUGK-5870	Yfiler® Plus								
	36,37	14	11,14	13	29	26	10	13	13
3	15	12	13	19	31	16	17	11	22
	36	12	-	18	17	20	23	-	12
EJVZUM-5870	Yfiler®								
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
FKLL2J-5870	Yfiler® Plus								
	36,37	14	11,14	13	29	26	10	13	13
3	15	12	13	19	31	16	17	11	22
	36	12		18	17	20	23		12

TABLE 3

WebCode-Test		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 3 - YSTR Results

JBPPRD-5870		PowerPlex® Y 23							
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		22
		12	13	18	17		23	10	12
M737Z7-5875		Yfiler®							
3									
N8TUV8-5870		Yfiler®							
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
Q2C9Z6-5870		Yfiler®							
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
QEXK89-5875		PowerPlex® Y 23							
	-	14	11,14	13	29	26	10	13	13
3	15	12	13	19	-	16	17	-	22
	-	12	13	18	17	-	23	10	12
QXWXM2-5875		PowerPlex® Y 23							
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		22
		12	13	18	17		23	10	12
VA9UTZ-5870		Yfiler®							
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
VGTVBX-5870		PowerPlex® Y 23							
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		22
		12	13	18	17		23	10	12
WCFT7-5870		Yfiler®							
		14	11,14	13	29	26	10	13	13
3	15	12	13	19		16	17		
							23		12
W6TJFV-5875		Yfiler®							
	36,37	14	11,14	13	29	26	10	13	13
3	15	12	13	19	31	16	17	11	22
	36	12		18	17	20	23		12

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 3 - YSTR Results

WNPZNY-5870		Yfiler® Plus								
	36,37	14	11,14	13	29	26	10	13	13	
3	15	12	13	19	31	16	17	11	22	
	36	12		18	17	20	23		12	
Y9LUFA-5870		Yfiler®								
		14	11,14	13	29	26	10	13	13	
3	15	12	13	19		16	17			
							23		12	
YRMZ22-5870		PowerPlex® Y 23								
		14	11,14	13	29	26	10	13	13	
3	15	12	13	19		16	17		22	
		12	13	18	17		23	10	12	
YWR9XW-5870		Yfiler® Plus								
	36,37	14	11,14	13	29	26	10	13	13	
3	15	12	13	19	31	16	17	11	22	
	36	12		18	17	20	23		12	
ZRH7V2-5870		Yfiler®								
	36,37	14	11,14	13	29	26	10	13	13	
3	15	12	13	19	31	16	17	11	22	
	36	12		18	17	20	23		12	
ZRXB6Y-5870		PowerPlex® Y								
		14		13	29	26	10	13	13	
3	15	12	13	19		16	17		22	
		12	13	18			23	10	12	

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4 - YSTR Results

23XC8V-5870	Yfiler® Plus								
	37,38	16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12		18	15	17	23		12
27XN3V-5870	Yfiler® Plus								
	37,38	16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12		18	15	17	23		12
3UXC8T-5870	Powerplex 35GY								
			11,14			26	10		
4		11		20		14	15		23
							23	10	
4MUYGN-5870	PowerPlex® Y 23								
		16	11,14	12	30	26	10	11	14
4	14	11	11	20		14	15		23
		12	12	18	15		23	10	12
6327EQ-5870	Yfiler®								
		16	11,14	12	30	26	10	11	14
4	14	11	11	20		14	15		
							23		12
79NF3U-5875	PowerPlex® Y 23								
		16	11,14	12	30	26	10	11	14
4	14	11	11	20		14	15		23
		12	12	18	15		23	10	12
7DXJ6P-5870	Yfiler®								
		16	11,14	12	30	26	10	11	14
4	14	11	11	20		14	15		
							23		12
7TA82Q-5870	Yfiler® Plus								
	37,38	16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12		18	15	17	23		12
8HTMGU-5870	Yfiler® Plus								
	37,38	16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12		18	15	17	23		12
8WJU4U-5870	Yfiler®								
		16	11,14	12	30	26	10	11	14
4	14	11	11	20		14	15		
							23		12

TABLE 3

WebCode-Test		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
9KMCNR-5870		Forenseq DNA Signature Prep							
	37,38	16	11,14	12	NR	26	10	11	NR
4	14	11	11	20	NR	NR	NR	12	23
	NR	12	12	18	15	NR	23	10	12
9UXEAR-5870		ForenSeq DNA Signature Prep							
	37,38	16	11,14	12	30	26	10	11	NR
4	14	11	11	20	NR	NR	NR	12	23
	NR	12	12	18	15	NR	23	10	12
ALFQ7Y-5870		Yfiler®							
		16	11,14	12	30	26	10	11	14
4	14	11	11	20		14	15		
							23		12
AN4WCR-5870		Yfiler®							
		16	11,14	12	30	26	10	11	14
4	14	11	11	20		14	15		
							23		12
AR399R-5870		Yfiler®							
		16	11,14	12	30	26	10	11	14
4	14	11	11	20		14	15		
							23		12
BF2AUQ-5870		Investigator Argus Y-28 QS							
		16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12	12	18	15	17	23	10	12
DQFUGK-5870		Yfiler® Plus							
	37,38	16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12	-	18	15	17	23	-	12
EJVZUM-5870		Yfiler®							
		16	11,14	12	30	26	10	11	14
4	14	11	11	20		14	15		
							23		12
FKLL2J-5870		Yfiler® Plus							
	37,38	16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12		18	15	17	23		12
JBPPRD-5870		PowerPlex® Y 23							
		16	11,14	12	30	26	10	11	14
4	14	11	11	20		14	15		23
		12	12	18	15		23	10	12

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4 - YSTR Results

M737Z7-5875	Yfiler®								
4	[Redacted]								
N8TUV8-5870	Yfiler®								
	16	11,14	12	30	26	10	11	14	
4	14	11	11	20	14	15	23	12	
Q2C9Z6-5870	Yfiler®								
	16	11,14	12	30	26	10	11	14	
4	14	11	11	20	14	15	23	12	
QEXK89-5875	PowerPlex® Y 23								
	-	16	11,14	12	30	26	10	11	14
4	14	11	11	20	-	14	15.2	-	23
	-	12	12	18	15	-	23.1	10	12
QXWXM2-5875	PowerPlex® Y 23								
	16	11,14	12	30	26	10	11	14	
4	14	11	11	20	14	15	23	10	12
	12	12	18	15		23	10	12	
VA9UTZ-5870	Yfiler®								
	16	11,14	12	30	26	10	11	14	
4	14	11	11	20	14	15	23	12	
VGTVBX-5870	PowerPlex® Y 23								
	16	11,14	12	30	26	10	11	14	
4	14	11	11	20	14	15	23	10	12
	12	12	18	15		23	10	12	
WCFT7-5870	Yfiler®								
	16	11,14	12	30	26	10	11	14	
4	14	11	11	20	14	15	23	12	
W6TJFV-5875	Yfiler®								
	37,38	16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12		18	15	17	23		12
WNPZNY-5870	Yfiler® Plus								
	37,38	16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12		18	15	17	23		12

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4 - YSTR Results

Y9LUFA-5870	Yfiler®								
	16	11,14	12	30	26	10	11	14	
4	14	11	11	20	14	15	23	12	
YRMZ22-5870	PowerPlex® Y 23								
	16	11,14	12	30	26	10	11	14	
4	14	11	11	20	14	15	23	10	12
YWR9XW-5870	Yfiler® Plus								
	37,38	16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12		18	15	17	23		12
ZRH7V2-5870									
	37,38	16	11,14	12	30	26	10	11	14
4	14	11	11	20	32	14	15	12	23
	40	12		18	15	17	23		12
ZRXB6Y-5870	PowerPlex® Y								
	16		12	30	26	10	11	14	
4	14	11	11	20	14	15	23	10	12
		12	12	18					

Additional DNA & PI Results

TABLE 4

Locus	WebCode-Test	Item 1	Item 2	Item 3	Item 3 PI	Item 4	Item 4 PI
D17S1301	9KMCNR-5870	13,13	13,13	12,13	12.6	11,12	
	9UXEAR-5870	13,13	13,13	12,13	12.6	11,12	
D20S482	9KMCNR-5870	13,15	15,15	14,15	2.34	13,15	
	9UXEAR-5870	13,15	15,15	14,15	2.34	13,15	
D4S2408	9KMCNR-5870	10,11	11,11	10,11	2.53	9,11	
	9UXEAR-5870	10,11	11,11	10,11	2.53	9,11	
D9S1122	9KMCNR-5870	11,13	13,13	12,13	1.56	13,13	
	9UXEAR-5870	11,13	13,13	12,13	1.56	13,13	
DYS385A	ZRXB6Y-5870			11		11	
DYS385B	ZRXB6Y-5870			14		14	
DYS505	9KMCNR-5870	NR	NR	12		12	
	9UXEAR-5870	NR	NR	12	N/A	12	
DYS522	9KMCNR-5870	NR	NR	10		10	
	9UXEAR-5870	NR	NR	10	N/A	10	
DYS612	9KMCNR-5870	NR	NR	33		32	
	9UXEAR-5870	NR	NR	33	N/A	32	

Paternity DNA Statistics & Conclusions

TABLE 5

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
23XC8V-5870	Item 3 - Alleged Father A	40,390,000,000	99.99999997524	FBI PopStats
24ZGC3-5870	Item 3 - Alleged Father A	94,680,000,000	99.99999998944	FBI PopStats
27XN3V-5870	Item 3 - Alleged Father A	9,000,000,000		FBI PopStats
28T76W-5875	Item 3 - Alleged Father A	2.E12	99.99	FBI PopStats
2F3HB2-5870	Item 3 - Alleged Father A	94,680,000,000	99.99999998944	FBI PopStats
2RAM2U-5870	Item 3 - Alleged Father A	3.8E12	Lab does not calculate	NIST-STRBASE
2Z27F3-5870	Item 3 - Alleged Father A	94,680,000,000	99.99999998944	FBI PopStats
383HCZ-5875	Item 3 - Alleged Father A	4.2 billion		NIST-STRBASE
3BGCRW-5875	Item 3 - Alleged Father A	4.2 billion		NIST-STRBASE
3UXC8T-5870	Item 3 - Alleged Father A	3,347,000,000,000		NIST-STRBASE
43GCTV-5870	Item 3 - Alleged Father A	21,830,000,000	99.99999995419	FBI PopStats
4MUYGN-5870	Item 3 - Alleged Father A	76320000000	99.99999998690	FBI PopStats
627MDP-5870	Item 3 - Alleged Father A	1.0890E12	99.999999999	FBI PopStats
6327EQ-5870	Item 3 - Alleged Father A	94 billion	99.9999%	NIST-STRBASE
63LWFX-5870	Item 3 - Alleged Father A	94,680,000,000	99.99999998944	FBI PopStats
6HDTHT-5870	Item 3 - Alleged Father A	21,830,000,000	99.99999995419	FBI PopStats
6NL9AP-5875	Item 3 - Alleged Father A	2.23E12		NIST-STRBASE
76ZTGT-5870	Item 3 - Alleged Father A		99,99999999696141%	[Location Identifying Database]
79NF3U-5875	Item 3 - Alleged Father A	99,99999999	2,72e12	STRider
7AB7YR-5875	Item 3 - Alleged Father A	1471280647	99.999999932	Laboratory specific database

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
7DXJ6P-5870	Item 3 - Alleged Father A	7.63e10	99.9999%	NIST-STRBASE
7EPRXQ-5875	Item 3 - Alleged Father A	2E12	99.99	FBI PopStats
7M3QJP-5875	Item 3 - Alleged Father A	1,570,275,032,007.8300	99.9999	FBI PopStats
7TA82Q-5870	Item 3 - Alleged Father A	7.704E10		NIST-STRBASE
7VFAU-5875	Item 3 - Alleged Father A	21830000000	99.99999995419	FBI PopStats, Southwest Hispanic
7VU9XX-5870	Item 3 - Alleged Father A	2E10		FBI PopStats
83TXBV-5875	Item 3 - Alleged Father A	367,558,152,927.7980	99.9999999997	NIST-STRBASE
8DDC4P-5875	Item 3 - Alleged Father A	2E12	99.99	FBI PopStats
8HTMGU-5870	Item 3 - Alleged Father A	1.83E10	99.999999%	[Location Identifying Database]
8RTJUV-5870	Item 3 - Alleged Father A	94,680,000,000	99.99999998944	FBI PopStats
8UZT8M-5875	Item 3 - Alleged Father A			FBI PopStats
8WJU4U-5870	Item 3 - Alleged Father A	7.6323E10	99.9999%	NIST-STRBASE
8Z4LFW-5870	Item 3 - Alleged Father A	94,680,000,000	99.99999998944	FBI PopStats
94ZPKN-5875	Item 3 - Alleged Father A	3713441550	99.999999973%	[Location Identifying Database]
9B4MEL-5870	Item 3 - Alleged Father A	94 billion	99.9999%	NIST-STRBASE
9KMCNR-5870	Item 3 - Alleged Father A	4.94e12		NIST-STRBASE
9KPQLL-5875	Item 3 - Alleged Father A			FBI PopStats
9UXEAR-5870	Item 3 - Alleged Father A	8.01E12		NIST-STRBASE
ALFQ7Y-5870	Item 3 - Alleged Father A	367 billion	99.9	NIST-STRBASE
AN4WCR-5870	Item 3 - Alleged Father A	7.6323E10	99.9999%	NIST-STRBASE
AR399R-5870	Item 3 - Alleged Father A	307,300,000,000	99.99999999674	FBI PopStats

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
ATYEZK-5870	Item 3 - Alleged Father A	250 billion	99.99%	Popstats NIST 2017
BF2AUQ-5870	Item 3 - Alleged Father A	3,781,367,792,959	99.999999999974%	NIST-STRBASE
BJNMYN-5870	Item 3 - Alleged Father A	21,830,000,000	99.999999995419	FBI PopStats
BJZKPQ-5875	Item 3 - Alleged Father A	5,602,740	99.99%	NIST General Population Database
CQJ4PK-5875	Item 3 - Alleged Father A	11,400,000,000	99.999999991228	FBI PopStats
CZCATJ-5870	Item 3 - Alleged Father A	94 billion	99.9999%	NIST-STRBASE
DQFUGK-5870	Item 3 - Alleged Father A	40,390,000,000	99.999999997524	FBI PopStats
DRRF7L-5870	Item 3 - Alleged Father A	190000000000	99.9	NIST-STRBASE
E4ZVCH-5870	Item 3 - Alleged Father A	113,195,922,057	Not reported	[Location Identifying Database]
EFAKZL-5870	Item 3 - Alleged Father A	366,614,605,966	99.99999999997%	NIST-STRBASE
EHZGTL-5875	Item 3 - Alleged Father A	4.2 billion		NIST-STRBASE
EJVZUM-5870	Item 3 - Alleged Father A	7.6323E10	99.9999%	NIST-STRBASE
ETH2DH-5875	Item 3 - Alleged Father A	4.11914E10	99.999999997572	FBI PopStats
EVQ8YJ-5875	Item 3 - Alleged Father A	2E12	99.99	FBI PopStats
F6A8JL-5870	Item 3 - Alleged Father A	21,830,000,000	99.99	FBI PopStats
FA62GM-5870	Item 3 - Alleged Father A	94,680,000,000	99.999999998944	FBI PopStats
FJQ3YH-5870	Item 3 - Alleged Father A	21830000000	99.999999	FBI PopStats
FKLL2J-5870	Item 3 - Alleged Father A	21,830,000,000	99.999999995419	FBI PopStats
FZF4ZF-5870	Item 3 - Alleged Father A	94 billion	99.9999%	NIST-STRBASE
GBFZDG-5870	Item 3 - Alleged Father A	21,830,000,000	99.999999995419	FBI PopStats
H8QDVD-5870	Item 3 - Alleged Father A	4.11914E10	99.99999999757	FBI PopStats

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
HEAG4F-5870	Item 3 - Alleged Father A	21,830,000,000	99.99999995419	FBI PopStats
HF6Z6G-5870	Item 3 - Alleged Father A	21,830,000,000	99.99999995419	FBI PopStats
HVDQ8L-5870	Item 3 - Alleged Father A	2x10E10		FBI PopStats
J6D2RG-5870	Item 3 - Alleged Father A	89,750,000,000	99.99%	NIST-STRBASE
J78UKE-5870	Item 3 - Alleged Father A	182 Trillion	99.99%	[Location Identifying Database]
JBPPRD-5870	Item 3 - Alleged Father A	76323564133	99.99	NIST-STRBASE
KKLELJ-5870	Item 3 - Alleged Father A	94,680,000,000	99.99999998944	FBI PopStats
L8LQFB-5870	Item 3 - Alleged Father A	Greater than 24.2 billion, 24,298,824,926	99.99% 99.999999959	National Caucasian Database
M737Z7-5875	Item 3 - Alleged Father A	150,022,888.14	99.99%	NIST-STRBASE
M739PB-5870	Item 3 - Alleged Father A	21,830,000,000	99.99999995419	FBI PopStats
N2JRTC-5870	Item 3 - Alleged Father A	3.007E10		NIST-STRBASE
N89BNE-5870	Item 3 - Alleged Father A	94,680,000,000	99.99999998944	FBI PopStats
N8TUV8-5870	Item 3 - Alleged Father A	7.62E10	99.9999%	NIST-STRBASE
NKUPRE-5870	Item 3 - Alleged Father A	94,680,000,000	99.99999998944	FBI PopStats
NLP9UF-5870	Item 3 - Alleged Father A	18000000000	99.9999	NIST-STRBASE
NM73WB-5870	Item 3 - Alleged Father A	21,830,000,000	99.99999995419	FBI PopStats
NRGDP6-5870	Item 3 - Alleged Father A			[Location Identifying Database]
NX39Q9-5875	Item 3 - Alleged Father A	11,400,000,000	99.99999991228	FBI PopStats
NXHRA7-5875	Item 3 - Alleged Father A			
PDBMKC-5870	Item 3 - Alleged Father A	89,750,000,000	99.99%	NIST-STRBASE

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
PE4FDA-5870	Item 3 - Alleged Father A	182 Trillion	Greater than 99,9999%	Government/local database
PEQWJ4-5870	Item 3 - Alleged Father A	250 billion	99.99%	Popstats NIST 2017
Q2C9Z6-5870	Item 3 - Alleged Father A	7.6323E10	99.9999%	NIST-STRBASE
QEXK89-5875	Item 3 - Alleged Father A	25046908550	99,99999999	NIST-STRBASE
QXWXM2-5875	Item 3 - Alleged Father A	1,4E010	99,99999999%	NIST-STRBASE
RUTDH2-5870	Item 3 - Alleged Father A	250 billion	99.99%	Popstats NIST 2017
TJQE98-5870	Item 3 - Alleged Father A	48,208,173,187.27	99.99%	[Location Identifying Database]
TLXW73-5870	Item 3 - Alleged Father A	9000000000		FBI PopStats
U49V66-5870	Item 3 - Alleged Father A	21,830,000,000	99.999999995419	FBI PopStats
VA9UTZ-5870	Item 3 - Alleged Father A	76200000000	99.9999	NIST-STRBASE
VGCRMX-5870	Item 3 - Alleged Father A	250 Billion	99.99%	Popstats NIST 2017
VGTVBX-5870	Item 3 - Alleged Father A	76,320,000,000	99.999999998690	Popstats\POPDATA\FBI\NIST 2017
WCFT7-5870	Item 3 - Alleged Father A	7.6323E10	99.9999%	NIST-STRBASE
W6TJFV-5875	Item 3 - Alleged Father A	488,056,598,939.1790	99.9999%	NIST-STRBASE
W9WGN4-5875	Item 3 - Alleged Father A	4.2 billion		NIST-STRBASE
WARX2Z-5875	Item 3 - Alleged Father A	11,400,000,000	99.999999991228%	FBI PopStats
WFYEH2-5875	Item 3 - Alleged Father A	89750000000	99.999999998886	FBI PopStats
WNPZNY-5870	Item 3 - Alleged Father A	40,390,000,000	99.999999997524	FBI PopStats
WUB3K4-5870	Item 3 - Alleged Father A	89,750,000,000	99.99%	NIST-STRBASE
XMTTW8-5870	Item 3 - Alleged Father A	94,680,000,000	99.999999998944	FBI PopStats
XYZYMZ-5870	Item 3 - Alleged Father A	21,830,000,000	99.9999	FBI PopStats

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
XZWGP2-5870	Item 3 - Alleged Father A	21,830,000,000	99.99999995419	FBI PopStats
Y9LUFA-5870	Item 3 - Alleged Father A	367 billion	99.9%	NIST-STRBASE
YRMZ22-5870	Item 3 - Alleged Father A	94,446,420,000	99.99999999	NIST Promega
YWR9XW-5870	Item 3 - Alleged Father A	32,334,356	99.999997%	Identifiler (Caucasian)
YZDL8Z-5875	Item 3 - Alleged Father A	2e12	99.99	FBI PopStats
ZAFYA9-5870	Item 3 - Alleged Father A	7.62E10	99.9999%	NIST-STRBASE
ZFNMGV-5870	Item 3 - Alleged Father A	8.90 billion	99.99999998877	NIST-STRBASE
ZFYXNY-5870	Item 3 - Alleged Father A	21,830,000,000	99.99999995419	FBI PopStats
ZRH7V2-5870	Item 3 - Alleged Father A	18,323,030,000	99.9999999945%	[Location Identifying Database]
ZRXB6Y-5870	Item 3 - Alleged Father A	66773308118	99.99999997	NIST-STRBASE
ZXNYPW-5870	Item 3 - Alleged Father A	4.415E10		NIST-STRBASE

Paternity DNA Statistics Response Summary		Participants: 114
<i>Which of the alleged fathers cannot be excluded as the biological parent of Item 2?</i>		
Responses	Item 3 - Alleged Father A	114
	Item 4 - Alleged Father B	0
	Inconclusive	0
	No Response	0

Kinship Likelihood Ratio Results

TABLE 6

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D1S1656	23XC8V-5870	1/2b	a = 16 b = 16.3	8.210
	383HCZ-5875	*	*	6.348
	3BGCRW-5875	*	*	6.348
	4MUYGN-5870	1/2p	p=16.3	8.2102
	6327EQ-5870	1/2p	p=16.3	8.210
	7DXJ6P-5870	1/2a	a=16.3	8.2102
	7M3QJP-5875	1/2P	P=16.3	8.2102
	7TA82Q-5870			8.205
	83TXBV-5875	1/2q	q=16.3	8.2102
	8HTMGU-5870	1/2p	p = 16.3	8.2101
	8WJU4U-5870	1/2a	a=16.3	8.2101
	94ZPKN-5875			7.4999
	9B4MEL-5870	1/2p	p=16.3	8.210
	AN4WCR-5870	1/2a	a=16.3	8.2101
	BF2AUQ-5870	1/2p	p=16.3	8.2102
	CZCATJ-5870	1/2p	p=16.3	8.210
	DQFUGK-5870	1/2q	q=16.3	8.2102
	EFAKZL-5870	0.5/pa	pa=16.3	8.205
	EHZGTL-5875			6.348
	EJVZUM-5870	1/2a	a=16.3	8.2101
	ETH2DH-5875	0.5/p	p=16.3	8.210180624
	FZF4ZF-5870	1/2q	q=16.3	8.210
	H8QDVD-5870	0.5/p	p = 16.3	8.210180624
	JBPPRD-5870	1/2a	A=16.3	8.210
	L8LQFB-5870	1/2p	p=16.3	8.210
	M737Z7-5875	1/2q	q=16.3	8.210
	N8TUV8-5870	1/2p	p=16.3	8.210
	NLP9UF-5870	1/2p	p = 16.3	8.2102

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D1S1656	Q2C9Z6-5870	1/2a	a=16.3	8.2101
	QEXK89-5875	1/2b	b=16.3	8.210180624
	QXWXM2-5875	1/2q	p = 16 q = 16.3	8.21
	VA9UTZ-5870	1/2a	a=16.3	8.210
	VGTVBX-5870	1/2a	a=16.3	8.210180624
	WCFT7-5870	1/2a	a=16.3	8.2101
	W6TJFV-5875	0.5/p	p=16.3	8.2102
	W9WGN4-5875	*	*	6.348
	WNPZNY-5870	(1/2q)	q = 16.3	8.2102
	YRMZ22-5870	0.5/a	a=16.3	8.2102
	ZRH7V2-5870	1/2q	q=16.3	8.210
	Statistical Analysis Summary of D1S1656			Likelihood Ratio Mode: 8.210

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S1338	23XC8V-5870	1/4b	a = 18 b = 23 c = 25	2.374
	383HCZ-5875	*	*	2.233
	3BGCRW-5875	*	*	2.233
	4MUYGN-5870	1/4p	p=23	2.3742
	6327EQ-5870	1/4p	p=23	2.374
	7DXJ6P-5870	1/4u	u=23	2.3742
	7M3QJP-5875	1/4P	P=23	2.3742
	7TA82Q-5870			2.376
	83TXBV-5875	1/4q	q=23	2.3742
	8HTMGU-5870	1/4p	p = 23	2.3741
	8WJU4U-5870	1/4u	u=23	2.3741
	94ZPKN-5875			2.1907
	9B4MEL-5870	1/4p	p=23	2.374
	AN4WCR-5870	1/4u	u=23	2.3741
	BF2AUQ-5870	1/4p	p=23	2.3742
	CZCATJ-5870	1/4p	p=23	2.374
	DQFUGK-5870	1/4q	q=23	2.3742
	EFAKZL-5870	0.25/pa	pa=23	2.375
	EHZGTL-5875			2.233
	EJVZUM-5870	1/4u	u=23	2.3741
	ETH2DH-5875	0.25/p	P=23	2.374169041
	FZF4ZF-5870	1/4q	q=23	2.374
	H8QDVD-5870	0.25/p	p = 23	2.374169041
	JBPPRD-5870	1/4a	A=23	2.374
	L8LQFB-5870	1/4p	p=23	2.374
	M737Z7-5875	1/4q	q=23	2.374
	N8TUV8-5870	1/4p	p=23	2.374
	NLP9UF-5870	1/4p	p = 23	2.3742
	Q2C9Z6-5870	1/4u	u=23	2.3741

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S1338	QEXK89-5875	1/4b	b=23	2.3741690408
	QXWXM2-5875	1/4q	p = 18 q = 23 r = 25	2.37
	VA9UTZ-5870	1/4u	u=23	2.374
	VGTVBX-5870	1/4a	a=23	2.374169041
	WCFT7-5870	1/4u	u=23	2.3741
	W6TJFV-5875	0.5/2p	p=23	2.3742
	W9WGN4-5875	*	*	2.233
	WNPZNY-5870	(1/4q)	q = 23	2.3742
	YRMZ22-5870	0.25/a	a=23	2.3742
	ZRH7V2-5870	1/4q	q=23	2.374
	Statistical Analysis Summary of D2S1338			Likelihood Ratio Mode: 2.374

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S441	23XC8V-5870	1/2a	a = 10 b = 14	2.375
	383HCZ-5875	*	*	2.234
	3BGCRW-5875	*	*	2.234
	4MUYGN-5870	1/2p	p=10	2.3753
	6327EQ-5870	1/2p	p=10	2.375
	7DXJ6P-5870	1/2p	p=10	2.3753
	7M3QJP-5875	1/2P	P=10	2.3753
	7TA82Q-5870			2.377
	83TXBV-5875	1/2p	p=10	2.3753
	8HTMGU-5870	1/2p	p = 10	2.3752
	8WJU4U-5870	1/2p	p=10	2.3752
	94ZPKN-5875			2.5398
	9B4MEL-5870	1/2p	p=10	2.375
	AN4WCR-5870	1/2p	p=10	2.3752
	BF2AUQ-5870	1/2p	p=10	2.3753
	CZCATJ-5870	1/2p	p=10	2.375
	DQFUGK-5870	1/2q	q=10	2.3753
	EFAKZL-5870	0.5/pa	pa=10	2.375
	EHZGTL-5875			2.234
	EJVZUM-5870	1/2p	p=10	2.3752
	ETH2DH-5875	0.5/p	p=10	2.375296912
	FZF4ZF-5870	1/2p	p=10	2.375
	H8QDVD-5870	0.5/p	p = 10	2.375296912
	JBPPRD-5870	1/2a	A=10	2.375
	L8LQFB-5870	1/2p	p=10	2.375
	M737Z7-5875	1/2q	q=10	2.375
	N8TUV8-5870	1/2p	p=10	2.375
	NLP9UF-5870	1/2p	p = 10	2.3753
	Q2C9Z6-5870	1/2p	p=10	2.3752

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S441	QEXK89-5875	$1/2a$	$a=10$	2.3752969121
	QXWXM2-5875	$1/2q$	$p = 14 \quad q = 10$	2.38
	VA9UTZ-5870	$1/2p$	$p=10$	2.375
	VGTVBX-5870	$1/2a$	$a=10$	2.375296912
	WCF7-5870	$1/2p$	$p=10$	2.3752
	W6TJFV-5875	$0.5/p$	$p=10$	2.3753
	W9WGN4-5875	*	*	2.234
	WNPZNY-5870	$(1/2p)$	$p = 10$	2.3753
	YRMZ22-5870	$0.5/a$	$a=10$	2.3753
	ZRH7V2-5870	$1/2p$	$p=10$	2.375

Statistical Analysis Summary of D2S441
Likelihood Ratio Mode: 2.375

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D3S1358	23XC8V-5870	1/4c	a = 15 b = 16 c = 18	1.656
	383HCZ-5875	*	*	1.600
	3BGCRW-5875	*	*	1.600
	4MUYGN-5870	1/4p	p=18	1.6556
	6327EQ-5870	1/4p	p=18	1.656
	7DXJ6P-5870	1/4s	s=18	1.6556
	7M3QJP-5875	1/4Q	Q=18	1.6556
	7TA82Q-5870			1.657
	83TXBV-5875	1/4r	r=18	1.6556
	8HTMGU-5870	1/4p	p=18	1.6556
	8WJU4U-5870	1/4s	s=18	1.6556
	94ZPKN-5875			1.7091
	9B4MEL-5870	1/4q	q=18	1.656
	AN4WCR-5870	1/4s	s=18	1.6556
	BF2AUQ-5870	1/4p	p=18	1.6556
	CZCATJ-5870	1/4q	q=18	1.656
	DQFUGK-5870	1/4q	q=18	1.6556
	EFAKZL-5870	0.25/pa	pa=18	1.656
	EHZGTL-5875			1.600
	EJVZUM-5870	1/4s	s=18	1.6556
	ETH2DH-5875	0.25/p	p=18	1.655629139
	FZF4ZF-5870	1/4q	q=18	1.656
	H8QDVD-5870	0.25/p	p=18	1.655629139
	JBPPRD-5870	1/4a	A=18	1.656
	L8LQFB-5870	1/4p	p=18	1.656
	M737Z7-5875	1/4q	q=18	1.655
	N8TUV8-5870	1/4p	p=18	1.656
	NLP9UF-5870	1/4p	p=18	1.6556
Q2C9Z6-5870	1/4s	s=18	1.6556	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D3S1358	QEXK89-5875	1/4b	b=18	1.6556291391
	QXWXM2-5875	1/4q	p = 15 q = 18 r = 16	1.66
	VA9UTZ-5870	1/4s	s=18	1.656
	VGTVBX-5870	1/4a	a=18	1.655629139
	WCF7-5870	1/4s	s=18	1.6556
	W6TJFV-5875	0.5/2p	p=18	1.6556
	W9WGN4-5875	*	*	1.600
	WNPZNY-5870	(1/4q)	q = 18	1.6556
	YRMZ22-5870	0.25/a	a=18	1.6556
	ZRH7V2-5870	1/4r	r=18	1.655
	Statistical Analysis Summary of D3S1358			Likelihood Ratio Mode: 1.6556

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D5S818	23XC8V-5870	1/2b	a = 11 b = 12	1.289
	383HCZ-5875	*	*	1.264
	3BGCRW-5875	*	*	1.264
	4MUYGN-5870	1/2p	p=12	1.2893
	6327EQ-5870	1/2p	p=12	1.289
	7DXJ6P-5870	1/2q	q=12	1.2893
	7M3QJP-5875	1/2P	P=12	1.2893
	7TA82Q-5870			1.291
	83TXBV-5875	1/2q	q=12	1.2893
	8HTMGU-5870	1/2p	p = 12	1.2893
	8WJU4U-5870	1/2q	q=12	1.2893
	9B4MEL-5870	1/2p	p=12	1.289
	AN4WCR-5870	1/2q	q=12	1.2893
	BF2AUQ-5870	1/2p	p=12	1.2893
	CZCATJ-5870	1/2p	p=12	1.289
	DQFUGK-5870	1/2q	q=12	1.2893
	EFAKZL-5870	0.5/pa	pa=12	1.289
	EHZGTL-5875			1.264
	EJVZUM-5870	1/2q	q=12	1.2893
	ETH2DH-5875	0.5/p	p=12	1.289324394
	FZF4ZF-5870	1/2q	q=12	1.289
	H8QDVD-5870	0.5/p	p = 12	1.289324394
	JBPPRD-5870	1/2a	A=12	1.289
	L8LQFB-5870	1/2p	p=12	1.289
	M737Z7-5875	1/2q	q=12	1.289
	N8TUV8-5870	1/2p	p=12	1.289
	NLP9UF-5870	1/2p	p = 12	1.2893
	Q2C9Z6-5870	1/2q	q=12	1.2893
QEXK89-5875	1/2b	b=12	1.289324394	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D5S818	QXWXM2-5875	$1/2q$	$p = 11 \quad q = 12$	1.29
	VA9UTZ-5870	$1/2q$	$q = 12$	1.289
	VGTVBX-5870	$1/2a$	$a = 12$	1.289324394
	WCFT7-5870	$1/2q$	$q = 12$	1.2893
	W6TJFV-5875	$0.5/p$	$p = 12$	1.2893
	W9WGN4-5875	*	*	1.264
	WNPZNY-5870	$(1/2q)$	$q = 12$	1.2893
	YRMZ22-5870	$0.5/a$	$a = 12$	1.2893
	ZRH7V2-5870	$1/2q$	$q = 12$	1.289
	Statistical Analysis Summary of D5S818			Likelihood Ratio Mode: 1.2893

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D7S820	23XC8V-5870	1/4b	a = 9 b = 10 c = 12	0.9758
	383HCZ-5875	*	*	0.9678
	3BGCRW-5875	*	*	0.9678
	4MUYGN-5870	1/4p	p=10	0.9758
	6327EQ-5870	1/4p	p=10	0.9758
	7DXJ6P-5870	1/4q	q=10	0.9758
	7M3QJP-5875	1/4P	P=10	0.9758
	7TA82Q-5870			0.977
	83TXBV-5875	1/4q	q=10	0.9758
	8HTMGU-5870	1/4p	p = 10	0.9758
	8WJU4U-5870	1/4q	q=10	0.9758
	9B4MEL-5870	1/4p	p=10	0.9758
	AN4WCR-5870	1/4q	q=10	0.9758
	BF2AUQ-5870	1/4p	p=10	0.9758
	CZCATJ-5870	1/4p	p=10	.9758
	DQFUGK-5870	1/4q	q=10	0.97580
	EFAKZL-5870	0.25/pa	pa=10	0.976
	EHZGTL-5875			0.9678
	EJVZUM-5870	1/4q	q=10	0.9758
	ETH2DH-5875	0.25/p	p=10	0.975800156
	FZF4ZF-5870	1/4q	q=10	0.9758
	H8QDVD-5870	0.25/p	p = 10	0.975800156
	JBPPRD-5870	1/4a	A=10	0.9758
	L8LQFB-5870	1/4p	p=10	0.976
	M737Z7-5875	1/4q	q=10	0.975
	N8TUV8-5870	1/4p	p=10	0.9758
	NLP9UF-5870	1/4p	p = 10	0.9758
	Q2C9Z6-5870	1/4q	q=10	0.9758
	QEXK89-5875	1/4b	b=10	0.97580015613

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D7S820	QXWXM2-5875	1/4q	p = 9 q = 10 r = 12	0.98
	VA9UTZ-5870	1/4q	q=10	0.9758
	VGTVBX-5870	1/4a	a=10	0.975800156
	WCFT7-5870	1/4q	q=10	0.9758
	W6TJFV-5875	0.5/2p	p=10	0.9758
	W9WGN4-5875	*	*	0.9678
	WNPZNY-5870	(1/4q)	q = 10	0.9758
	YRMZ22-5870	0.25/a	a=10	0.9758
	ZRH7V2-5870	1/4q	q=10	0.975
	Statistical Analysis Summary of D7S820			Likelihood Ratio Mode: 0.9758

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D8S1179	23XC8V-5870	1/2a	a = 13 b = 14	1.517
	383HCZ-5875	*	*	1.474
	3BGCRW-5875	*	*	1.474
	4MUYGN-5870	1/2p	p=13	1.5170
	6327EQ-5870	1/2p	p=13	1.517
	7DXJ6P-5870	1/2p	p=13	1.5170
	7M3QJP-5875	1/2P	P=13	1.5170
	7TA82Q-5870			1.518
	83TXBV-5875	1/2p	p=13	1.5170
	8HTMGU-5870	1/2p	p = 13	1.5169
	8WJU4U-5870	1/2p	p=13	1.5169
	94ZPKN-5875			1.5361
	9B4MEL-5870	1/2p	p=13	1.517
	AN4WCR-5870	1/2p	p=13	1.5169
	BF2AUQ-5870	1/2p	p=13	1.5169
	CZCATJ-5870	1/2p	p=13	1.517
	DQFUGK-5870	1/2q	q=13	1.5170
	EFAKZL-5870	0.5/pa	pa=13	1.517
	EHZGTL-5875			1.474
	EJVZUM-5870	1/2p	p=13	1.5169
	ETH2DH-5875	0.5/p	p=13	1.516990291
	FZF4ZF-5870	1/2p	p=13	1.517
	H8QDVD-5870	0.5/p	p = 13	1.516990291
	JBPPRD-5870	1/2a	A=13	1.517
	L8LQFB-5870	1/2p	p=13	1.517
	M737Z7-5875	1/2q	q=13	1.516
	N8TUV8-5870	1/2p	p=13	1.517
	NLP9UF-5870	1/2p	p = 13	1.5170
	Q2C9Z6-5870	1/2p	p=13	1.5169

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D8S1179	QEXK89-5875	1/2a	a=13	1.5169902913
	QXWXM2-5875	1/2q	p = 14 q = 13	1.52
	VA9UTZ-5870	1/2p	p=13	1.517
	VGTVBX-5870	1/2a	a=13	1.516990291
	WCFT7-5870	1/2p	p=13	1.5169
	W6TJFV-5875	0.5/p	p=13	1.5170
	W9WGN4-5875	*	*	1.474
	WNPZNY-5870	(1/2p)	p = 13	1.5170
	YRMZ22-5870	0.5/a	a=13	1.5170
	ZRH7V2-5870	1/2p	p=13	1.516
	Statistical Analysis Summary of D8S1179			Likelihood Ratio Mode: 1.517

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D10S1248	23XC8V-5870	1/4a	a = 12 b = 14 c = 15	7.837
	383HCZ-5875	*	*	6.123
	3BGCRW-5875	*	*	6.123
	4MUYGN-5870	1/4p	p=12	7.8370
	6327EQ-5870	1/4p	p=12	7.837
	7DXJ6P-5870	1/4p	p=12	7.8370
	7M3QJP-5875	1/4P	P=12	7.8370
	7TA82Q-5870			7.828
	83TXBV-5875	1/4p	p=12	7.8370
	8HTMGU-5870	1/4p	p = 12	7.8369
	8WJU4U-5870	1/4p	p=12	7.8369
	94ZPKN-5875			6.9290
	9B4MEL-5870	1/4p	p=12	7.837
	AN4WCR-5870	1/4p	p=12	7.8369
	BF2AUQ-5870	1/4p	p=12	7.8369
	CZCATJ-5870	1/4p	p=12	7.837
	DQFUGK-5870	1/4q	q=12	7.8370
	EFAKZL-5870	0.25/pa	pa=12	7.848
	EHZGTL-5875			6.123
	EJVZUM-5870	1/4p	p=12	7.8369
	ETH2DH-5875	0.25/p	p=12	7.836990596
	FZF4ZF-5870	1/4p	p=12	7.837
	H8QDVD-5870	0.25/p	p = 12	7.836990596
	JBPPRD-5870	1/4a	A=12	7.837
	L8LQFB-5870	1/4p	p=12	7.837
	M737Z7-5875	1/4q	q=12	7.836
	N8TUV8-5870	1/4p	p=12	7.837
	NLP9UF-5870	1/4p	p = 12	7.8370
Q2C9Z6-5870	1/4p	p=12	7.8369	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D10S1248	QEXK89-5875	1/4a	a=12	7.8369905956
	QXWXM2-5875	1/4q	p = 15 q = 12 r = 14	7.84
	VA9UTZ-5870	1/4p	p=12	7.837
	VGTVBX-5870	1/4a	a=12	7.836990596
	WCF7-5870	1/4p	p=12	7.8369
	W6TJFV-5875	0.5/2p	p=12	7.8370
	W9WGN4-5875	*	*	6.123
	WNPZNY-5870	(1/4p)	p = 12	7.8370
	YRMZ22-5870	0.25/a	a=12	7.8370
	ZRH7V2-5870	1/4p	p=12	7.836

Statistical Analysis Summary of D10S1248
Likelihood Ratio Mode: 7.837

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D12S391	23XC8V-5870	1/4a	a = 15 b = 18 c = 20	7.837
	383HCZ-5875	*	*	6.133
	4MUYGN-5870	1/4p	p=15	7.8370
	6327EQ-5870	1/4p	p=15	7.837
	7DXJ6P-5870	1/4p	p=15	7.8370
	7M3QJP-5875	1/4P	P=15	7.8370
	7TA82Q-5870			7.840
	83TXBV-5875	1/4p	p=15	7.8370
	8HTMGU-5870	1/4p	p = 15	7.8369
	8WJU4U-5870	1/4p	p=15	7.8369
	94ZPKN-5875			7.0833
	9B4MEL-5870	1/4p	p=15	7.837
	AN4WCR-5870	1/4p	p=15	7.8369
	BF2AUQ-5870	1/4p	p=15	7.8369
	CZCATJ-5870	1/4p	p=15	7.837
	DQFUGK-5870	1/4q	q=15	7.8370
	EFAKZL-5870	0.25/pa	pa=15	7.848
	EHZGTL-5875			6.133
	EJVZUM-5870	1/4p	p=15	7.8369
	ETH2DH-5875	0.25/p	p=15	7.836990596
	FZF4ZF-5870	1/4p	p=15	7.837
	H8QDVD-5870	0.25/p	p = 15	7.836990596
	JBPPRD-5870	1/4a	A=15	7.837
	L8LQFB-5870	1/4p	p=15	7.837
	M737Z7-5875	1/4q	q=15	7.836
	N8TUV8-5870	1/4p	p=15	7.837
	Q2C9Z6-5870	1/4p	p=15	7.8369
	QEXK89-5875	1/4a	a=15	7.8369905956
QXWXM2-5875	1/4q	p = 18 q = 15 r = 20	7.84	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D12S391	VA9UTZ-5870	1/4p	p=15	7.837
	VGTVBX-5870	1/4a	a=15	7.836990596
	WCFT7-5870	1/4p	p=15	7.8369
	W6TJFV-5875	0.5/2p	p=15	7.8370
	WNPZNY-5870	(1/4p)	p = 15	7.8370
	YRMZ22-5870	0.25/a	a=15	7.8370
	ZRH7V2-5870	1/4p	p=15	7.836

Statistical Analysis Summary of D12S391

Likelihood Ratio Mode: 7.837

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D13S317	23XC8V-5870	1/4c	a = 9 b = 11 c = 12	0.9304
	383HCZ-5875	*	*	0.9245
	3BGCRW-5875	*	*	0.9245
	4MUYGN-5870	1/4p	p=12	0.9304
	6327EQ-5870	1/4p	p=12	0.9304
	7DXJ6P-5870	1/4s	s=12	0.9304
	7M3QJP-5875	1/4Q	Q=12	0.9304
	7TA82Q-5870			0.931
	83TXBV-5875	1/4r	r=12	0.9304
	8HTMGU-5870	1/4p	p = 12	0.9304
	8WJU4U-5870	1/4s	s=12	0.9304
	9B4MEL-5870	1/4q	q=12	0.9304
	AN4WCR-5870	1/4s	s=12	0.9304
	BF2AUQ-5870	1/4p	p=12	0.9304
	CZCATJ-5870	1/4q	q=12	.9304
	DQFUGK-5870	1/4q	q=12	0.93041
	EFAKZL-5870	0.25/pa	pa=12	0.930
	EHZGTL-5875			0.9245
	EJVZUM-5870	1/4s	s=12	0.9304
	ETH2DH-5875	0.25/p	p=12	0.930405657
	FZF4ZF-5870	1/4q	q=12	0.9304
	H8QDVD-5870	0.25/p	p = 12	0.930405657
	JBPPRD-5870	1/4a	A=12	0.9304
	L8LQFB-5870	1/4p	p=12	0.930
	M737Z7-5875	1/4q	q=12	0.930
	N8TUV8-5870	1/4p	p=12	0.9304
	NLP9UF-5870	1/4p	p = 12	0.9304
	Q2C9Z6-5870	1/4s	s=12	0.9304
	QEXK89-5875	1/4b	b=12	0.93040565687

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D13S317	QXWXM2-5875	1/4q	p = 11 q = 12 r = 9	0.93
	VA9UTZ-5870	1/4s	s=12	0.9304
	VGTVBX-5870	1/4a	a=12	0.930405657
	WCFT7-5870	1/4s	s=12	0.9304
	W6TJFV-5875	0.5/2p	p=12	0.9304
	W9WGN4-5875	*	*	0.9245
	WNPZNY-5870	(1/4r)	r = 12	0.9304
	YRMZ22-5870	0.25/a	a=12	0.9304
	ZRH7V2-5870	1/4r	r=12	0.930
	Statistical Analysis Summary of D13S317			Likelihood Ratio Mode: 0.9304

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D16S539	23XC8V-5870	1/4a	a = 9 b = 11 c = 12	2.345
	383HCZ-5875	*	*	2.205
	3BGCRW-5875	*	*	2.205
	4MUYGN-5870	1/4p	p=9	2.3452
	6327EQ-5870	1/4p	p=9	2.345
	7DXJ6P-5870	1/4p	p=9	2.3452
	7M3QJP-5875	1/4P	P=9	2.3452
	7TA82Q-5870			2.344
	83TXBV-5875	1/4p	p=9	2.3452
	8HTMGU-5870	1/4p	p = 9	2.3452
	8WJU4U-5870	1/4p	p=9	2.3452
	94ZPKN-5875			2.2058
	9B4MEL-5870	1/4p	p=9	2.345
	AN4WCR-5870	1/4p	p=9	2.3452
	BF2AUQ-5870	1/4p	p=9	2.3452
	CZCATJ-5870	1/4p	p=9	2.345
	DQFUGK-5870	1/4q	q=9	2.3452
	EFAKZL-5870	0.25/pa	pa=9	2.344
	EHZGTL-5875			2.205
	EJVZUM-5870	1/4p	p=9	2.3452
	ETH2DH-5875	0.25/p	p=9	2.34521576
	FZF4ZF-5870	1/4p	p=9	2.345
	H8QDVD-5870	0.25/p	p = 9	2.34521576
	JBPPRD-5870	1/4a	A=9	2.345
	L8LQFB-5870	1/4p	p=9	2.345
	M737Z7-5875	1/4q	q=9	2.345
	N8TUV8-5870	1/4p	p=9	2.345
	NLP9UF-5870	1/4p	p = 9	2.3452
	Q2C9Z6-5870	1/4p	p=9	2.3452

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D16S539	QEXK89-5875	1/4a	a=9	2.3452157598
	QXWXM2-5875	1/4q	p = 11 q = 9 r = 12	2.35
	VA9UTZ-5870	1/4p	p=9	2.345
	VGTVBX-5870	1/4a	a=9	2.34521576
	WCF7-5870	1/4p	p=9	2.3452
	W6TJFV-5875	0.5/2p	p=9	2.3452
	W9WGN4-5875	*	*	2.205
	WNPZNY-5870	(1/4p)	p = 9	2.3452
	YRMZ22-5870	0.25/a	a=9	2.3452
	ZRH7V2-5870	1/4p	p=9	2.345
	Statistical Analysis Summary of D16S539			Likelihood Ratio Mode: 2.3452

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D18S51	23XC8V-5870	1/2b	a = 15 b = 18	6.443
	383HCZ-5875	*	*	5.270
	3BGCRW-5875	*	*	5.270
	4MUYGN-5870	1/2p	p=18	6.4433
	6327EQ-5870	1/2p	p=18	6.443
	7DXJ6P-5870	1/2s	s=18	6.4433
	7M3QJP-5875	1/2P	P=18	6.4433
	7TA82Q-5870			6.449
	83TXBV-5875	1/2q	q=18	6.4433
	8HTMGU-5870	1/2p	p = 18	6.4432
	8WJU4U-5870	1/2s	s=18	6.4432
	94ZPKN-5875			6.4720
	9B4MEL-5870	1/2p	p=18	6.443
	AN4WCR-5870	1/2s	s=18	6.4432
	BF2AUQ-5870	1/2p	p=18	6.4433
	CZCATJ-5870	1/2p	p=18	6.443
	DQFUGK-5870	1/2q	q=18	6.4433
	EFAKZL-5870	0.5/pa	pa=18	6.446
	EHZGTL-5875			5.270
	EJVZUM-5870	1/2s	s=18	6.4432
	ETH2DH-5875	0.5/p	p=18	6.443298969
	FZF4ZF-5870	1/2q	q=18	6.443
	H8QDVD-5870	0.5/p	p = 18	6.443298969
	JBPPRD-5870	1/2a	A=18	6.443
	L8LQFB-5870	1/2p	p=18	6.443
	M737Z7-5875	1/2q	q=18	6.443
	N8TUV8-5870	1/2p	p=18	6.443
	NLP9UF-5870	1/2p	p = 18	6.4433
Q2C9Z6-5870	1/2s	s=18	6.4432	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D18S51	QEXK89-5875	1/2b	b=18	6.4432989691
	QXWXM2-5875	1/2q	p = 15 q = 18	6.44
	VA9UTZ-5870	1/2s	s=18	6.443
	VGTVBX-5870	1/2a	a=18	6.443298969
	WCFT7-5870	1/2s	s=18	6.4432
	W6TJFV-5875	0.5/p	p=18	6.4433
	W9WGN4-5875	*	*	5.270
	WNPZNY-5870	(1/2q)	q = 18	6.4433
	YRMZ22-5870	0.5/a	a=18	6.4433
	ZRH7V2-5870	1/2q	q=18	6.443

Statistical Analysis Summary of D18S51
Likelihood Ratio Mode: 6.443

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D19S433	23XC8V-5870	1/2a	a = 13 b = 14	1.962
	383HCZ-5875	*	*	1.875
	3BGCRW-5875	*	*	1.875
	4MUYGN-5870	1/2p	p=13	1.9623
	6327EQ-5870	1/2p	p=13	1.962
	7DXJ6P-5870	1/2p	p=13	1.9623
	7M3QJP-5875	1/2P	P=13	1.9623
	7TA82Q-5870			1.964
	83TXBV-5875	1/2p	p=13	1.9623
	8HTMGU-5870	1/2p	p = 13	1.9623
	8WJU4U-5870	1/2p	p=13	1.9623
	94ZPKN-5875			2.1610
	9B4MEL-5870	1/2p	p=13	1.962
	AN4WCR-5870	1/2p	p=13	1.9623
	BF2AUQ-5870	1/2p	p=13	1.9623
	CZCATJ-5870	1/2p	p=13	1.962
	DQFUGK-5870	1/2q	q=13	1.9623
	EFAKZL-5870	0.5/pa	pa=13	1.962
	EHZGTL-5875			1.875
	EJVZUM-5870	1/2p	p=13	1.9623
	ETH2DH-5875	0.5/p	p=13	1.962323391
	FZF4ZF-5870	1/2p	p=13	1.962
	H8QDVD-5870	0.5/p	p = 13	1.962323391
	JBPPRD-5870	1/2a	A=13	1.962
	L8LQFB-5870	1/2p	p=13	1.962
	M737Z7-5875	1/2q	q=13	1.962
	N8TUV8-5870	1/2p	p=13	1.962
	NLP9UF-5870	1/2p	p = 13	1.9623
Q2C9Z6-5870	1/2p	p=13	1.9623	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D19S433	QEXK89-5875	1/2a	a=13	1.96232339
	QXWXM2-5875	1/2q	p = 14 q = 13	1.96
	VA9UTZ-5870	1/2p	p=13	1.962
	VGTVBX-5870	1/2a	a=13	1.962323391
	WCFT7-5870	1/2p	p=13	1.9623
	W6TJFV-5875	1/2p	p=13	1.9623
	W9WGN4-5875	*	*	1.875
	WNPZNY-5870	(1/2p)	p = 13	1.9623
	YRMZ22-5870	0.5/a	a=13	1.9623
	ZRH7V2-5870	1/2p	p=13	1.962

Statistical Analysis Summary of D19S433
Likelihood Ratio Mode: 1.9623

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D21S11	23XC8V-5870	1/4c	a = 29 b = 30.2 c = 31.2	2.543
	383HCZ-5875	*	*	2.376
	3BGCRW-5875	*	*	2.376
	4MUYGN-5870	1/4p	p=31.2	2.5432
	6327EQ-5870	1/4p	p=31.2	2.543
	7DXJ6P-5870	1/4b	b=31.2	2.5432
	7M3QJP-5875	1/4Q	Q=31.2	2.5432
	7TA82Q-5870			2.544
	83TXBV-5875	1/4r	r=31.2	2.5432
	8HTMGU-5870	1/4p	p = 31.2	2.5432
	8WJU4U-5870	1/4b	b=31.2	2.5432
	94ZPKN-5875			2.4425
	9B4MEL-5870	1/4q	q=31.2	2.543
	AN4WCR-5870	1/4b	b=31.2	2.5432
	BF2AUQ-5870	1/4p	p=31.2	2.5432
	CZCATJ-5870	1/4q	q=31.2	2.543
	DQFUGK-5870	1/4q	q=31.2	2.5432
	EFAKZL-5870	0.25/pa	pa=31.2	2.542
	EHZGTL-5875			2.376
	EJVZUM-5870	1/4b	b=31.2	2.5432
	ETH2DH-5875	0.25/p	p=31.2	2.543234995
	FZF4ZF-5870	1/4q	q=31.2	2.543
	H8QDVD-5870	0.25/p	p = 31.2	2.543234995
	JBPPRD-5870	1/4a	A=31.2	2.543
	L8LQFB-5870	1/4p	p=31.2	2.543
	M737Z7-5875	1/4q	q=31.2	2.543
	N8TUV8-5870	1/4p	p=31.2	2.543
	NLP9UF-5870	1/4p	p = 31.2	2.5432
	Q2C9Z6-5870	1/4b	b=31.2	2.5432

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D21S11	QEXK89-5875	1/4b	b=31.2	2.543234994
	QXWXM2-5875	1/4q	p = 30.2 q = 31.2 r = 29	2.54
	VA9UTZ-5870	1/4b	b=31.2	2.543
	VGTVBX-5870	1/4a	a=31.2	2.543234995
	WCF7-5870	1/4b	b=31.2	2.5432
	W6TJFV-5875	0.5/2p	p=31.2	2.5432
	W9WGN4-5875	*	*	2.376
	WNPZNY-5870	(1/4r)	r = 31.2	2.5432
	YRMZ22-5870	0.25/a	a=31.2	2.5432
	ZRH7V2-5870	1/4r	r=31.2	2.543
	Statistical Analysis Summary of D21S11			Likelihood Ratio Mode: 2.5432

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D22S1045	23XC8V-5870	1/4a	a = 11 b = 15 c = 16	1.787
	383HCZ-5875	*	*	1.718
	3BGCRW-5875	*	*	1.718
	4MUYGN-5870	1/4p	p=11	1.7870
	6327EQ-5870	1/4p	p=11	1.787
	7DXJ6P-5870	1/4p	p=11	1.7870
	7M3QJP-5875	1/4P	P=11	1.7870
	7TA82Q-5870			1.788
	83TXBV-5875	1/4p	p=11	1.7870
	8HTMGU-5870	1/4p	p = 11	1.7869
	8WJU4U-5870	1/4p	p=11	1.7869
	94ZPKN-5875			1.7708
	9B4MEL-5870	1/4p	p=11	1.787
	AN4WCR-5870	1/4p	p=11	1.7869
	BF2AUQ-5870	1/4p	p=11	1.7869
	CZCATJ-5870	1/4p	p=11	1.787
	DQFUGK-5870	1/4q	q=11	1.7870
	EFAKZL-5870	0.25/pa	pa=11	1.787
	EHZGTL-5875			1.718
	EJVZUM-5870	1/4p	p=11	1.7869
	ETH2DH-5875	0.25/p	p=11	1.786990708
	FZF4ZF-5870	1/4p	p=11	1.787
	H8QDVD-5870	0.25/p	p = 11	1.786990708
	JBPPRD-5870	1/4a	A=11	1.787
	L8LQFB-5870	1/4p	p=11	1.787
	M737Z7-5875	1/4q	q=11	1.786
	N8TUV8-5870	1/4p	p=11	1.787
	NLP9UF-5870	1/4p	p = 11	1.7870
	Q2C9Z6-5870	1/4p	p=11	1.7869

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D22S1045	QEXK89-5875	1/4a	a=11	1.786990707
	QXWXM2-5875	1/4q	p = 16 q = 11 r = 15	1.79
	VA9UTZ-5870	1/4p	p=11	1.787
	VGTVBX-5870	1/4a	a=11	1.786990708
	WCF7-5870	1/4p	p=11	1.7869
	W6TJFV-5875	0.5/2p	p=11	1.7870
	W9WGN4-5875	*	*	1.718
	WNPZNY-5870	(1/4p)	p = 11	1.7870
	YRMZ22-5870	0.25/a	a=11	1.7870
	ZRH7V2-5870	1/4p	p=11	1.786

Statistical Analysis Summary of D22S1045
Likelihood Ratio Mode: 1.787

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
CSF1PO	23XC8V-5870	1/2a	a = 10 b = 11	2.271
	383HCZ-5875	*	*	2.144
	3BGCRW-5875	*	*	2.144
	4MUYGN-5870	1/2p	p=10	2.2707
	6327EQ-5870	1/2p	p=10	2.271
	7DXJ6P-5870	1/2p	p=10	2.2707
	7M3QJP-5875	1/2P	P=10	2.2707
	7TA82Q-5870			2.272
	83TXBV-5875	1/2p	p=10	2.2707
	8HTMGU-5870	1/2p	p = 10	2.2706
	8WJU4U-5870	1/2p	p=10	2.2706
	9B4MEL-5870	1/2p	p=10	2.271
	AN4WCR-5870	1/2p	p=10	2.2706
	BF2AUQ-5870	1/2p	p=10	2.2707
	CZCATJ-5870	1/2p	p=10	2.271
	DQFUGK-5870	1/2q	q=10	2.2707
	EFAKZL-5870	0.5/pa	pa=10	2.270
	EHZGTL-5875			2.144
	EJVZUM-5870	1/2p	p=10	2.2706
	ETH2DH-5875	0.5/p	p=10	2.270663034
	FZF4ZF-5870	1/2p	p=10	2.271
	H8QDVD-5870	0.5/p	p = 10	2.270663034
	JBPPRD-5870	1/2a	A=10	2.271
	L8LQFB-5870	1/2p	p=10	2.271
	M737Z7-5875	1/2q	q=10	2.270
	N8TUV8-5870	1/2p	p=10	2.271
	NLP9UF-5870	1/2p	p = 10	2.2707
	Q2C9Z6-5870	1/2p	p=10	2.2706
	QEXK89-5875	1/2a	a=10	2.270663033

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
CSF1PO	QXWXM2-5875	$1/2q$	$p = 11 \quad q = 10$	2.27
	VA9UTZ-5870	$1/2p$	$p = 10$	2.271
	VGTVBX-5870	$1/2a$	$a = 10$	2.270663034
	WCFT7-5870	$1/2p$	$p = 10$	2.2706
	W6TJFV-5875	$1/2p$	$p = 10$	2.2707
	W9WGN4-5875	*	*	2.144
	WNPZNY-5870	$(1/2p)$	$p = 10$	2.2707
	YRMZ22-5870	$0.5/a$	$a = 10$	2.2707
	ZRH7V2-5870	$1/2q$	$q = 10$	2.270
	Statistical Analysis Summary of CSF1PO			Likelihood Ratio Mode: 2.2707

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
FGA	23XC8V-5870	1/4a	a = 18 b = 19 c = 22	10.04
	383HCZ-5875	*	*	7.339
	3BGCRW-5875	*	*	7.339
	4MUYGN-5870	1/4p	p=18	10.0402
	6327EQ-5870	1/4p	p=18	10.04
	7DXJ6P-5870	1/4p	p=18	10.0402
	7M3QJP-5875	1/4P	P=18	10.0402
	7TA82Q-5870			10.01
	83TXBV-5875	1/4p	p=18	10.0402
	8HTMGU-5870	1/4p	p = 18	10.0401
	8WJU4U-5870	1/4p	p=18	10.0401
	94ZPKN-5875			14.4886
	9B4MEL-5870	1/4p	p=18	10.04
	AN4WCR-5870	1/4p	p=18	10.0401
	BF2AUQ-5870	1/4p	p=18	10.0402
	CZCATJ-5870	1/4p	p=18	10.04
	DQFUGK-5870	1/4q	q=18	10.040
	EFAKZL-5870	0.25/pa	pa=18	10.028
	EHZGTL-5875			7.339
	EJVZUM-5870	1/4p	p=18	10.0401
	ETH2DH-5875	0.25/p	p=18	10.04016064
	FZF4ZF-5870	1/4p	p=18	10.04
	H8QDVD-5870	0.25/p	p = 18	10.04016064
	JBPPRD-5870	1/4a	A=18	10.04
	L8LQFB-5870	1/4p	p=18	10.040
	M737Z7-5875	1/4q	q=18	10.04
	N8TUV8-5870	1/4p	p=18	10.04
	NLP9UF-5870	1/4p	p = 18	10.0402
	Q2C9Z6-5870	1/4p	p=18	10.0401

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
FGA	QEXK89-5875	1/4a	a=18	10.04016064
	QXWXM2-5875	1/4q	p = 22 q = 18 r = 19	10.04
	VA9UTZ-5870	1/4p	p=18	10.04
	VGTVBX-5870	1/4a	a=18	10.04016064
	WCF7-5870	1/4p	p=18	10.0401
	W6TJFV-5875	0.5/2p	p=18	10.0402
	W9WGN4-5875	*	*	7.339
	WNPZNY-5870	(1/4p)	p = 18	10.0402
	YRMZ22-5870	0.25/a	a=18	10.0402
	ZRH7V2-5870	1/4p	p=18	10.04
	Statistical Analysis Summary of FGA			Likelihood Ratio Mode: 10.04

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaD	23XC8V-5870	1/4a	a = 8 b = 12 c = 13	12.02
	4MUYGN-5870	1/4p	p=8	12.0192
	6327EQ-5870	1/4p	p=8	12.02
	7DXJ6P-5870	1/4p	p=8	12.0192
	7M3QJP-5875	1/4P	P=8	12.0192
	7TA82Q-5870			12.00
	83TXBV-5875	1/4p	p=8	12.0192
	8HTMGU-5870	1/4p	p = 8	12.0192
	8WJU4U-5870	1/4p	p=8	12.0192
	9B4MEL-5870	1/4p	p=8	12.02
	AN4WCR-5870	1/4p	p=8	12.0192
	BF2AUQ-5870	1/4p	p=8	12.0192
	CZCATJ-5870	1/4p	p=8	12.02
	DQFUGK-5870	1/4q	q=8	12.019
	EFAKZL-5870	0.25/pa	pa=8	12.033
	EJVZUM-5870	1/4p	p=8	12.0192
	ETH2DH-5875	0.25/p	p=8	12.01923077
	FZF4ZF-5870	1/4p	p=8	12.02
	H8QDVD-5870	0.25/p	p = 8	12.01923077
	JBPPRD-5870	1/4a	A=8	12.02
	L8LQFB-5870	1/4p	p=8	12.019
	M737Z7-5875	1/4q	q=8	12.01
	N8TUV8-5870	1/4p	p=8	12.02
	NLP9UF-5870	1/4p	p = 8	12.0192
	Q2C9Z6-5870	1/4p	p=8	12.0192
	QEXK89-5875	1/4a	a=8	12.01923076
	QXWXM2-5875	1/4q	p = 12 q = 8 r = 13	12.02
	VA9UTZ-5870	1/4p	p=8	12.02
	VGTVBX-5870	1/4a	a=8	12.01923077

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaD	WCFT7-5870	$1/4p$	$p=8$	12.0192
	W6TJFV-5875	$0.5/2p$	$p=8$	12.0192
	W9WGN4-5875	\wedge	\wedge	
	WNPZNY-5870	$(1/4p)$	$p = 8$	12.0192
	YRMZ22-5870	$0.25/a$	$a=8$	12.0192
	ZRH7V2-5870	$1/4p$	$p=8$	12.01
Statistical Analysis Summary of PentaD			Likelihood Ratio Mode:	12.0192

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaE	23XC8V-5870	1/4a	a = 7 b = 12 c = 16	1.479
	4MUYGN-5870	1/4p	p=7	1.4793
	6327EQ-5870	1/4p	p=7	1.479
	7DXJ6P-5870	1/4p	p=7	1.4793
	7M3QJP-5875	1/4P	P=7	1.4793
	7TA82Q-5870			1.481
	83TXBV-5875	1/4p	p=7	1.4793
	8HTMGU-5870	1/4p	p = 7	1.4792
	8WJU4U-5870	1/4p	p=7	1.4792
	9B4MEL-5870	1/4p	p=7	1.479
	AN4WCR-5870	1/4p	p=7	1.4792
	BF2AUQ-5870	1/4p	p=7	1.4793
	CZCATJ-5870	1/4p	p=7	1.479
	DQFUGK-5870	1/4q	q=7	1.4793
	EFAKZL-5870	0.25/pa	pa=7	1.480
	EJVZUM-5870	1/4p	p=7	1.4792
	ETH2DH-5875	0.25/p	p=7	1.479289941
	FZF4ZF-5870	1/4p	p=7	1.479
	H8QDVD-5870	0.25/p	p = 7	1.479289941
	JBPPRD-5870	1/4a	A=7	1.479
	L8LQFB-5870	1/4p	p=7	1.479
	M737Z7-5875	1/4q	q=7	1.479
	N8TUV8-5870	1/4p	p=7	1.479
	NLP9UF-5870	1/4p	p = 7	1.4793
	Q2C9Z6-5870	1/4p	p=7	1.4792
	QEXK89-5875	1/4a	a=7	1.47928994
	QXWXM2-5875	1/4q	p = 12 q = 7 r = 16	1.48
	VA9UTZ-5870	1/4p	p=7	1.479
	VGTVBX-5870	1/4a	a=7	1.479289941

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaE	WCFT7-5870	$1/4p$	$p=7$	1.4792
	W6TJFV-5875	$0.5/2p$	$p=7$	1.4793
	W9WGN4-5875	\wedge	\wedge	
	WNPZNY-5870	$(1/4p)$	$p = 7$	1.4793
	YRMZ22-5870	$0.25/a$	$a=7$	1.4793
	ZRH7V2-5870	$1/4p$	$p=7$	1.479

Statistical Analysis Summary of PentaE
Likelihood Ratio Mode: 1.479

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
SE33	23XC8V-5870	1/4c	a = 15 b = 17 c = 18	3.472
	383HCZ-5875	*	*	3.139
	3BGCRW-5875	*	*	3.139
	4MUYGN-5870	1/4p	p=18	3.4722
	6327EQ-5870	1/4p	p=18	3.472
	7DXJ6P-5870	1/4s	s=18	3.4722
	7M3QJP-5875	1/4Q	Q=18	3.4722
	7TA82Q-5870			3.474
	83TXBV-5875	1/4r	r=18	3.4722
	8HTMGU-5870	1/4p	p = 18	3.4722
	8WJU4U-5870	1/4s	s=18	3.4722
	94ZPKN-5875			3.3031
	9B4MEL-5870	1/4q	q=18	3.472
	AN4WCR-5870	1/4s	s=18	3.4722
	BF2AUQ-5870	1/4p	p=18	3.4722
	CZCATJ-5870	1/4q	q=18	3.472
	DQFUGK-5870	1/4q	q=18	3.4722
	EFAKZL-5870	0.25/pa	pa=18	3.472
	EHZGTL-5875			3.139
	EJVZUM-5870	1/4s	s=18	3.4722
	ETH2DH-5875	0.25/p	p=18	3.472222222
	FZF4ZF-5870	1/4q	q=18	3.472
	H8QDVD-5870	0.25/p	p = 18	3.472222222
	JBPPRD-5870	1/4a	A=18	3.472
	L8LQFB-5870	1/4p	p=18	3.472
	M737Z7-5875	1/4q	q=18	3.472
	N8TUV8-5870	1/4p	p=18	3.472
	NLP9UF-5870	1/4p	p = 18	3.4722
	Q2C9Z6-5870	1/4s	s=18	3.4722

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
SE33	QEXK89-5875	1/4b	b=18	3.472222222
	QXWXM2-5875	1/4q	p = 15 q = 18 r = 17	3.47
	VA9UTZ-5870	1/4s	s=18	3.472
	VGTVBX-5870	1/4a	a=18	3.472222222
	WCF7-5870	1/4s	s=18	3.4722
	W6TJFV-5875	0.5/2p	p=18	3.4722
	W9WGN4-5875	*	*	3.139
	WNPZNY-5870	(1/4r)	r = 18	3.4722
	YRMZ22-5870	0.25/a	a=18	3.4722
	ZRH7V2-5870	1/4r	r=18	3.472
	Statistical Analysis Summary of SE33			Likelihood Ratio Mode: 3.4722

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TH01	23XC8V-5870	1/a	a = 8	10.46
	383HCZ-5875	*	*	8.183
	3BGCRW-5875	*	*	8.183
	4MUYGN-5870	1/p	p=8	10.4603
	6327EQ-5870	1/p	p=8	10.46
	7DXJ6P-5870	1/p	p=8	10.4603
	7M3QJP-5875	1/P	P=8	10.4603
	7TA82Q-5870			10.46
	83TXBV-5875	1/p	p=8	10.4603
	8HTMGU-5870	1/p	p = 8	10.4602
	8WJU4U-5870	1/p	p=8	10.4602
	94ZPKN-5875			10.1999
	9B4MEL-5870	1/p	p=8	10.46
	AN4WCR-5870	1/p	p=8	10.4602
	BF2AUQ-5870	1/p	p=8	10.4603
	CZCATJ-5870	1/p	p=8	10.46
	DQFUGK-5870	1/p	p=8	10.460
	EFAKZL-5870	1/pa	pa=8	10.464
	EHZGTL-5875			8.183
	EJVZUM-5870	1/p	p=8	10.4602
	ETH2DH-5875	1/p	p=8	10.46025105
	FZF4ZF-5870	1/p	p=8	10.46
	H8QDVD-5870	1/p	p = 8	10.46025105
	JBPPRD-5870	1/a	A=8	10.46
	L8LQFB-5870	1/p	p=8	10.460
	M737Z7-5875	1/q	q=8	10.46
	N8TUV8-5870	1/p	p=8	10.46
	NLP9UF-5870	1/p	p = 8	10.4603
	Q2C9Z6-5870	1/p	p=8	10.4602

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TH01	QEXK89-5875	1/a	a=8	10.46025104
	QXWXM2-5875	1/q	q = 8	10.46
	VA9UTZ-5870	1/p	p=8	10.46
	VGTVBX-5870	1/a	a=8	10.46025105
	WCFT7-5870	1/p	p=8	10.4602
	W6TJFV-5875	1/p	p=8	10.4603
	W9WGN4-5875	*	*	8.183
	WNPZNY-5870	(1/p)	p = 8	10.4603
	YRMZ22-5870	1/a	a=8	10.4603
	ZRH7V2-5870	1/q	q=8	10.46
	Statistical Analysis Summary of TH01			Likelihood Ratio Mode: 10.46

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TPOX	23XC8V-5870	$(a+b)/4ab$	a = 8 b = 11	1.468
	383HCZ-5875	*	*	1.465
	3BGCRW-5875	*	*	1.465
	4MUYGN-5870	$(p+q)/4pq$	P=8 q=11	1.4680
	6327EQ-5870	$(p+q)/4pq$	p=8 q=11	1.468
	7DXJ6P-5870	$(p+s)/4ps$	p=8 s=11	1.4680
	7M3QJP-5875	$(P+Q)/4PQ$	P=8 Q=11	1.4680
	7TA82Q-5870			1.469
	83TXBV-5875	$(p+q)/4pq$	p=8 q=11	1.4680
	8HTMGU-5870	$p+q/4pq$	p = 8 q = 11	1.4679
	8WJU4U-5870	$(p+s)/4ps$	p=8 s=11	1.4679
	9B4MEL-5870	$(p+q)/4pq$	p=8 q=11	1.468
	AN4WCR-5870	$(p+s)/4ps$	p=8 s=11	1.4679
	BF2AUQ-5870	$(p+q)/(4pq)$	p=8 q=11	1.4679
	CZCATJ-5870	$(p+q)/4pq$	p=8 q=11	1.468
	DQFUGK-5870	$(0.5p+0.5q)/(2pq)$	p=8 q=11	1.4680
	EFAKZL-5870	$(pa+pb)/(4*pa*pb)$	pa=8 pb=11	1.468
	EHZGTL-5875			1.465
	EJVZUM-5870	$(p+s)/4ps$	p=8 s=11	1.4679
	ETH2DH-5875	$(p+q)/4pq$	p=8 q=11	1.467951169
	FZF4ZF-5870	$(p+q)/4pq$	p=8 q=11	1.468
	H8QDVD-5870	$(p+q)/4pq$	p= 8 q = 11	1.467951169
	JBPPRD-5870	$(a+b)/4ab$	A=8 B=11	1.468
	L8LQFB-5870	$p+q/4pq$	p=8 q=11	1.468
	M737Z7-5875	$(p+q)/4pq$	q=8,11	1.479
	N8TUV8-5870	$p+q/4pq$	p=8, q=11	1.468
	NLP9UF-5870	$(p+q)/4pq$	p = 8 q = 11	1.4680
	Q2C9Z6-5870	$(p+s)/4ps$	p=8, s=11	1.4679
	QEXK89-5875	$(a+b)/(4ab)$	a=8 b=11	1.467951168

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TPOX	QXWXM2-5875	$(p+q)/4pq$	$p = 8 \quad q = 11$	1.47
	VA9UTZ-5870	$(p+s)/4ps$	$p=8, s=11$	1.468
	VGTVBX-5870	$a+b/4ab$	$a=8 \quad b=11$	1.467951169
	WCFT7-5870	$(p+s)/4ps$	$p=8 \quad s=11$	1.4679
	W6TJFV-5875	$0.5(p+q)/2pq$	$p=8 \quad q=11$	1.4680
	W9WGN4-5875	*	*	1.465
	WNPZNY-5870	$((p+q)/4pq)$	$p = 8 \quad q = 11$	1.4680
	YRMZ22-5870	$(a+b)/4ab$	$a=8 \quad b=11$	1.4680
	ZRH7V2-5870	$p+q/4pq$	$p=8, q=11$	1.467
	Statistical Analysis Summary of TPOX			Likelihood Ratio Mode: 1.468

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
vWA	23XC8V-5870	1/2a	a = 14 b = 15	5.388
	3BGCRW-5875	*	*	4.558
	4MUYGN-5870	1/2p	p=14	5.3879
	6327EQ-5870	1/2p	p=14	5.388
	7DXJ6P-5870	1/2p	p=14	5.3879
	7M3QJP-5875	1/2P	P=14	5.3879
	7TA82Q-5870			5.389
	83TXBV-5875	1/2p	p=14	5.3879
	8HTMGU-5870	1/2p	p=14	5.3879
	8WJU4U-5870	1/2p	p=14	5.3879
	94ZPKN-5875			5.3124
	9B4MEL-5870	1/2p	p=14	5.388
	AN4WCR-5870	1/2p	p=14	5.3879
	BF2AUQ-5870	1/2p	p=14	5.3879
	CZCATJ-5870	1/2p	p=14	5.388
	DQFUGK-5870	1/2q	q=14	5.3879
	EFAKZL-5870	0.5/pa	pa=14	5.388
	EJVZUM-5870	1/2p	p=14	5.3879
	ETH2DH-5875	0.5/p	p=14	5.387931034
	FZF4ZF-5870	1/2p	p=14	5.388
	H8QDVD-5870	0.5/p	p = 14	5.387931034
	JBPPRD-5870	1/2a	A=14	5.388
	L8LQFB-5870	1/2p	p=14	5.388
	M737Z7-5875	1/2q	q=14	5.387
	N8TUV8-5870	1/2p	p=14	5.388
	NLP9UF-5870	1/2p	p = 14	5.3879
	Q2C9Z6-5870	1/2p	p=14	5.3879
	QEXK89-5875	1/2a	a=14	5.387931034
	QXWXM2-5875	1/2q	p = 15 q = 14	5.39

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
vWA	VA9UTZ-5870	$1/2p$	$p=14$	5.388
	VGTVBX-5870	$1/2a$	$a=14$	5.387931034
	WCFT7-5870	$1/2p$	$p=14$	5.3879
	W6TJFV-5875	$0.5(p+q)/2pq$	$p=14$	5.3879
	W9WGN4-5875	*	*	4.558
	WNPZNY-5870	$(1/2p)$	$p=14$	5.3879
	YRMZ22-5870	$0.5/a$	$a=14$	5.3879
	ZRH7V2-5870	$1/2q$	$q=14$	5.387
Statistical Analysis Summary of vWA			Likelihood Ratio Mode:	5.3879

Kinship DNA Statistics

Is the relationship of **Father and Son** supported by the genetic evidence?

TABLE 7

WebCode-Test	Kinship Index	Claim Supported?
23XC8V-5870	131,200,000,000	Yes
383HCZ-5875	170 million	Yes
3BGCRW-5875	120,000,000	Yes
4MUYGN-5870	131189546648.2830	Yes
6327EQ-5870	16 billion	Yes
76ZTGT-5870		Yes
7DXJ6P-5870	1.312e11	Yes
7M3QJP-5875	131,189,546,648.2830	Yes
7TA82Q-5870	1.318E11	Yes
83TXBV-5875	131,189,546,648	Yes
8HTMGU-5870	1.31E11	Yes
8WJU4U-5870	1.3118E+11	Yes
94ZPKN-5875	1860890831	Yes
9B4MEL-5870	16 billion	Yes
AN4WCR-5870	1.3118E+11	Yes
BF2AUQ-5870	131,189,546,648	Yes
CZCATJ-5870	16 billion	Yes
DQFUGK-5870	131,200,000,000	Yes
EFAKZL-5870	131,464,680,433	Yes
EHZGTL-5875	170 million	Yes
EJVZUM-5870	1.3118E+11	Yes
ETH2DH-5875	1.3119E+11	Yes
FZF4ZF-5870	16 billion	Yes
H8QDVD-5870	1.3119E+11	Yes
JBPPRD-5870	131189546648	Yes
L8LQFB-5870	>131.1 billion (131,060,55,313)	Yes
M737Z7-5875	131,452,581,558.68	Yes
N8TUV8-5870	1.311E+11	Yes
NLP9UF-5870	1.6 x 10 ¹⁰	Yes

TABLE 7 - Kinship DNA Statistics

WebCode-Test	Kinship Index	Claim Supported?
NXHRA7-5875		Yes
Q2C9Z6-5870	1.3118E11	Yes
QEXK89-5875	131189550000	Yes
QXWXM2-5875	1,3E+11	Yes
VA9UTZ-5870	1.311E+11	Yes
VGTVBX-5870	131,189,546,648.28	Yes
WCFT7-5870	1.3118E+11	Yes
W6TJFV-5875	1.3119E+11	Yes
W9WGN4-5875	120 million	Yes
WNPZNY-5870	131,200,000,000	Yes
YRMZ22-5870	16,739,786,152.3209	Yes
ZRH7V2-5870	1.30 exp 11	Yes

Response Summary		Participants: 41
<i>Is the relationship claim of Father and Son supported?</i>		
Yes	41	
No	0	
Inconclusive	0	

Additional Kinship Statistical Results

TABLE 8

WebCode-Test	Additional Statistical Results and Relationship Conclusions
23XC8V-5870	The alleged father, Profile A, cannot be excluded as the potential biological father of the child, Profile B using Autosomal STRs. These profiles are "X" times more likely to occur if Profile B is the child of Profile A than if Profile B is the child of a random, unrelated person from the reference populations listed where "X" equals: African American – 2.0 BILLION. Caucasian – 1.6 BILLION. Hispanic – 150 BILLION.
383HCZ-5875	* The likelihood ratios were calculated with the KinCALc software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k instead of x/N. The KinCALc software uses the NIST STRBase Population Database. The locus VWA was omitted due to linkage with D12S391. Also we do not test PentaD and PentaE in our laboratory so those loci were not evaluated. The individuals were reported to be Caucasian; therefore only values for Caucasian were reported.
3BGCRW-5875	The likelihood ratios were calculated with the KinCALc software that uses standard formulae for simple PI's and 2-person KI's, and applies a standard Elston-Stewart approach to other pedigrees. The following calculation approaches are applied at [Laboratory]: mean posterior allele probabilities based upon the NIST population databases and a 1/k prior; a theta value of 0.01; and only one of the vWA/D12S391 loci (due to linkage between these two loci). [Laboratory] does not test for or report the loci Penta D and Penta E; therefore, those loci were not reported.
4MUYGN-5870	It is 1.31×10^{11} (131189546648.2830) times more likely that the Caucasian father (A) is the father of the child (B) than that an unrelated man randomly selected from the population is the father, corresponding to a probability of paternity (W) of 99.999999992377%.
6327EQ-5870	Per laboratory policy, D12S391 genetic locus not used for statistical analysis and CPI value truncated to 2 significant figures.
7DXJ6P-5870	On comparison of the DNA profiles obtained, I found that the donor "A" is the biological father of the donor "B". The probability of paternity is 99.9999% as calculated based on Caucasian DNA population database.
7TA82Q-5870	Kinship was calculated using software DBLR (hence no formulae or allele legend provided). The kinship calculation was performed without considering Fst, linkage or mutation in order to as closely mimic the example table given in yellow.
83TXBV-5875	Probability of paternity (0.5 prior probability) = 99.999999992%.
8HTMGU-5870	CPI= $8.2101 * 2.3741 * 2.3752 * 1.6556 * 1.2893 * 0.9758 * 1.5169 * 7.8369 * 7.8369 * 0.9304 * 2.3452 * 6.4432 * 1.9623 * 2.5432 * 1.7869 * 2.2706 * 10.0401 * 12.0192 * 1.4792 * 3.4722 * 10.4602 * 1.4679 * 5.3879 = 131,130,172,514.6483.$
8WJU4U-5870	There is strong evidence to indicate that the subjects are related as father and son. The probability of kinship is 99.9999% based on the NIST STRBASE Caucasian Population Database.
94ZPKN-5875	In my opinion the results support the view that A is the biological father of B and the findings have been calculated to be at least a billion (1000 million) times more likely if A is the biological father of B, rather than an unrelated man.
AN4WCR-5870	There is strong evidence to indicate that the subject are related as father and son. The probability of kinship is 99.9999% based on the NIST STRBASE Caucasian Population Database.
BF2AUQ-5870	Based on the genetic study conducted and the statistical analysis applied, it is determined that the Caucasian Father (A) is not excluded as the biological father of the Son (B).

TABLE 8

WebCode-Test	Additional Statistical Results and Relationship Conclusions
DQFUGK-5870	AUTOSOMAL STRs: The DNA profile is single source. The kinship index supports the hypothesis that Profile B is the son of Profile A using the reference populations listed. The genotype observed for Profile B is "X" times more likely to occur in a son of Profile A than in someone unrelated to Profile A from the reference populations listed where "X" equals: African American – 2.0 BILLION. Caucasian – 1.6 BILLION. Hispanic – 150 BILLION. Additional Notes: The DNA profile is single source and from a male. The profile was provided by the proficiency test provider. Two databases were used when calculating statistics (FBI and NIST). Statistics were calculated for laboratory reporting purposes using the FBI database without Penta E and Penta D per standard laboratory procedure. The results reported for part III, questions 1-2 [Table 7: Kinship DNA Statistics] of the proficiency test were calculated using the NIST database/allele frequencies provided by the proficiency test provider with Penta E and Penta D included.
EFAKZL-5870	Probability of Paternity (0.5 prior probability) = 99.999999992%.
EHZGTL-5875	The reported values are Kinship Index (KI) values calculated using KIn CALc v6.0 BFS software. The KIn CALc software uses standard formulae for simple PI's and 2-person KI's, and applies a standard Elston-Stewart approach to other pedigrees. The following calculation approaches are applied at [Laboratory]: mean posterior allele probabilities based upon the NIST population databases and a 1/k prior; a theta value of 0.01; and only one of the vWA/D12S391 loci (due to linkage between these two loci). [Laboratory] does not test for or report the loci Penta D and Penta E; therefore, those loci were not reported.
EJVZUM-5870	There is strong evidence to indicate that the subjects are related as father and son. The probability of kinship is 99.9999% based on the NIST STRBASE Caucasian Population Database.
JBPPRD-5870	For inclusionary parentage cases in which alleles are shared in both of genetically linked loci D12S391 and vWA, the laboratory's procedure calls for the lower power of exclusion locus vWA to be dropped from the calculation. In this case, the vWA LR of 5.388 would be made 1.000 and a CLR of 24348468197 reported.
L8LQFB-5870	Profile A could be the biological father of Profile B. It is greater than 131.1 billion times more likely to obtain the profile of B if A is the biological father, rather than an unknown male (unrelated to A) in the national population.
N8TUV8-5870	There is strong evidence to indicate that the subjects are related as father and son. The probability of kinship is 99.9999% based on the NIST STRBASE Caucasian Population Database.
NXHRA7-5875	Paternity LR calculated with laboratory-specific software. [Laboratory] utilizes a laboratory-specific population database and DBLR software accounting for mutation in parentage analysis. Following [Laboratory] SOPs, a likelihood ratio (LR) of 84 million was calculated, supporting the conclusion that Profile A is the biological father of Profile B.
Q2C9Z6-5870	There is strong evidence to indicate that the Subject A is a biological father of the subject B.
QEXK89-5875	Based on the conducted genetic analyses of the tested samples, and considering two hypotheses: H1 – the donor of sample A (father A) is related in the first degree in the direct line (father-son) to the donor of sample B (son B); H2 – the donor of sample A (father A) is not related in the first degree in the direct line (father-son) to the donor of sample B (son B); it can be concluded that the probability of confirming hypothesis H1 in the statistical calculations is 99,999999999%. LR=131189550000 – hypothesis H1 is 131189550000 times more likely than hypothesis H2 (extremely strong support for hypothesis H1). The obtained results allow confirmation of the donor of sample A (father A) as the biological father of the donor of sample B (son B). The donor of sample A (father A) cannot be excluded as the biological parent of the donor of sample B (son B).
VA9UTZ-5870	There is strong evidence to indicate that the subjects are related as father and son. The probability of kinship is 99.9999% based on the NIST STRBASE Caucasian Population Database.

TABLE 8

WebCode-Test	Additional Statistical Results and Relationship Conclusions
VGTVBX-5870	Despite the fact that the genetic evidence provides a very strong support of the relationship of father and son, according to internal laboratory guidelines, to do paternity tests we request for the DNA samples from the child, mother and alleged father because having the mother's DNA profile helps to ascertain the father's obligate alleles. In deficient parentage cases (where one of the parents is not tested) sometimes results from additional genetic analysis are needed, for example more genetic markers, Y-chromosome, X-chromosome results can help with confirming genetic relationships between individuals. Reference: Butler, J.M. 2010. Fundamentals of Forensic DNA Typing. Elsevier Inc.
WCFT7-5870	There is strong evidence to indicate that the subject are related as father and son. The probability of kinship is 99.9999% based on the NIST STRBASE Caucasian Population Database.
W9WGN4-5875	*The likelihood ratios were calculated with the KIn CALc software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of just x/N. Combined kinship index omits the locus D12S391 due to linkage disequilibrium with vWA. ^ Only GlobalFiler loci used in calculation, additional loci (PentaD, PentaE) not tested at our laboratory.
WNPZNY-5870	The kinship index supports the hypothesis that Profile B is the child of Profile A using the reference populations listed. The genotype observed for Profile B is "X" times more likely to occur in a child of Profile A than in someone unrelated to Profile A from the reference populations listed where "X" equals: African American – 2.0 BILLION. Caucasian – 1.6 BILLION. Hispanic – 150 BILLION. The reported statistic on the CTS Forensic Testing Program includes the loci Penta D and Penta E and is based on the NIST population database. This differs from our laboratory, where our statistics are based on the GlobalFiler loci (which excludes Penta D and Penta E) and uses the FBI Expanded population database.
YRMZ22-5870	Kinship index calculated without D12 due to linkage disequilibrium with vWA.
ZRH7V2-5870	1. When comparing the genetic profile of the SON (B) against the FATHER (A), 50% of the alleles were identified as shared in each of the analyzed genetic markers. Therefore, a statistical calculation of the Paternity Index was performed between them, taking into account the allele frequencies of the NIST-STRBASE Population. It was concluded that the genetic profile of the SON (B) is explained 130 billion times better ($LR = 1.30 \times 10^{11}$, $W = 99.9999999992\%$, $a \text{ priori} = 0.5$) if it comes from the biological son of the FATHER (A), than if it comes from another unrelated male individual, randomly selected from the reference population, given the analyzed genetic profiles, which were provided by the supplier.

Additional Comments

TABLE 9

WebCode-Test	Additional Comments
23XC8V-5870	No PI statistics added for item 4 as this individual was excluded. No statistics are calculated per laboratory protocol for individuals that are excluded. The reported statistic in the "Kinship DNA" tab part 3 [Table 6 and Table 7] is based on Globalfiler loci (no Penta E or Penta D) using the FBI Expanded population database as a reference.
24ZGC3-5870	Per our standard operating procedures, locus D12 is not used when calculating parentage statistics.
27XN3V-5870	The envelope for Item 2 did not have a tape closure like all the other envelopes included in the test. Per this laboratory's procedure: The CPI was calculated omitting vWA due to vWA/D12S391 linkage disequilibrium. The PI and CPI are from the Population Group that had the lowest CPI. The CPI was truncated. Probability of Paternity is not reported. No PI calculations are made when an alleged father is excluded as the biological father.
2F3HB2-5870	Per SOP, no statistics are calculated for D12S391.
2RAM2U-5870	No PIs calculated for item 4; the Laboratory does not calculate statistics for exclusions. The Caucasian combined PI is reported in Part II [Table 5: Paternity DNA Statistics & Conclusions], which is rounded to two significant figures by the KinCalc software. Part III [Table 6 and Table 7] is N/A for the Laboratory.
2Z27F3-5870	Paternity indices, combined paternity index, and probability of paternity were reported using the Caucasian population values based on information provided in the test scenario. Genetic locus D12S391 was not used for paternity index calculations per laboratory's standard operating procedures. Paternity index calculations were not generated for item 4 due to exclusion as biological father.
383HCZ-5875	The paternity indexes were calculated with the KinCALC software that uses standard formulae for simple PI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and 1/k instead of just x/N. The KinCALC software uses the NIST STRBase Population Database. The locus D12S391 was omitted due to linkage with VWA for Item 3 but was included for Item 4 due to the exclusion results. The Individuals were reported to be Caucasian; therefore only values for Caucasian were reported.
3BGCRW-5875	The likelihood ratios were calculated with the Kin CALC software that uses standard formulae for simple PI's and 2-person KI's, and applies a standard Elston-Stewart approach to other pedigrees. The following calculation approaches are applied at [Laboratory]: mean posterior allele probabilities based upon the NIST population databases and a 1/k prior; a theta value of 0.01; and only one of the vWA/D12S391 loci (due to linkage between these two loci). [Laboratory] does not test for or report the loci Penta D and Penta E; therefore, those loci were not reported. [Laboratory] does not report the probability of paternity, therefore 2c in the "Paternity Index" tab [Table 5: Paternity DNA Statistics & Conclusions] was not applicable.
3UXC8T-5870	The lab does not calculate the probability of paternity. In CPI calculations where D12 and vWA may be included, only D12 is included due to possible linkage between the loci.
43GCTV-5870	Per laboratory policy, the lowest LR is reported for the combined paternity index. The lowest LR was seen in the Southwest Hispanic population, therefore the reported combined paternity index and the probability of paternity were for the Southwest Hispanic population group.
6327EQ-5870	Per laboratory policy, D12S391 genetic locus not used for statistical analysis and CPI value truncated to 2 significant figures. Additionally, the probability of paternity is truncated at four places past the decimal point, per laboratory policy.

TABLE 9

WebCode-Test	Additional Comments
63LWFX-5870	Per agency policy, genetic locus D12S391 was not utilized in the Parentage Index calculations due to potential linkage with genetic locus vWA, and per test scenario, Caucasian Parentage Index values were reported.
6HDTHT-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the Southwest Hispanic population group. The LRs for the other population groups were as follows: African American: 1.1840E+12 or 1,184,000,000,000. Caucasian: 40,390,000,000. Southeast Hispanic: 97,340,000,000.
6NL9AP-5875	Reported PI values are for the Hispanic population; Combined Paternity Index value uses the Hispanic database. We do not report the Probability of Paternity.
76ZTGT-5870	The laboratory is accredited in accordance with the ISO/IEC 17025:2017 standard by the [Location Identifying Accreditation Body], which is a full member of [Location Identifying Accreditation Cooperation] and [Location Identifying Accreditation Cooperation]. Accreditation Certificate No. [Accreditation Certificate Number]. $P = p(12) * (2 - p(12))$. $P = p(15) * (2 - p(15))$. $P = p(21) * (2 - p(21))$. $P = (p(11) + p(12)) * (2 - (p(11) + p(12)))$. $P = p(12) * (2 - p(12))$. $P = p(13) * (2 - p(13))$. $P = p(16.2) * (2 - p(16.2))$. $P = p(12) * (2 - p(12))$. $P = p(32.2) * (2 - p(32.2))$. $P = p(16) * (2 - p(16))$. $P = p(24) * (2 - p(24))$. $P = (p(10) + p(12)) * (2 - (p(10) + p(12)))$. $P = p(16) * (2 - p(16))$. $P = p(13) * (2 - p(13))$. $P = p(12) * (2 - p(12))$. $P = p(10) * (2 - p(10))$. $P = (p(13) + p(15)) * (2 - (p(13) + p(15)))$. $P = p(19) * (2 - p(19))$. $P = p(13) * (2 - p(13))$. $P = p(16) * (2 - p(16))$. $P = p(7) * (2 - p(7))$. $P = p(8) * (2 - p(8))$. $P = p(17) * (2 - p(17))$. $p(\text{total}) = p(1)*p(2)*...*p(n)$. $PP = 1 / (1 + p(\text{total})) \times 100\% = 99,99999999696141\%$.
79NF3U-5875	H1: Alleged Father A (Item 3) is the father of the Known Child (Item 2). H2: Random, unrelated man from population is the biological father of the Known Child. $LR=H1/H2$. 1. DNA results provide extremely strong support ($LR=2,72e+012$) for the first proposition Alleged Father A is the father of the Known Child rather than the alternative proposition that a random, unrelated man from population is the biological father of the Known Child. 2. The probability of paternity of the Alleged Father B (Item 4) in relation to the Known Child is excluded.
7AB7YR-5875	We did not fill out the Kinship DNA Statistics section which is not applicable in our laboratory.
7DXJ6P-5870	1. In-situ extraction method was used to extract DNA from Item 1 to Item 4. 2. Amplification: Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out on Item 1 to Item 4 using Globalfiler Express PCR Amplification Kit on the Proflex PCR System. Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out on Item 3 and Item 4 using the AmpF STR Y-Filer PCR Amplification Kit on the Proflex PCR System. 3. Electrophoresis: Electrophoresis was carried out using Applied Biosystem 3500 xL Genetic Analyzer with GeneMapper ID-X Software for Item 1 to Item 4 (Globalfiler Express) and Item 3 and Item 4 (Y-Filer). 4. Reagent blank, positive control and negative control were carried out throughout the analysis and all gave the intended results. 5. The statistical formula was derived from DNAView Statistical Software and calculated using Microsoft Excel. 6. NM = Non Male profile.
7VFPAU-5875	Part I, Item 4 [Table 1: STR Amplification Kit(s) & Results]: No statistical analysis was performed since Item 4 was visually excluded from paternity at a minimum of two STR loci. Part II [Table 5: Paternity DNA Statistics & Conclusions]: The laboratory's policy is to report the lowest combined paternity index calculated amongst the African American, Caucasian, and Southwest Hispanic ethnic groups in the 2015 FBI Expanded Database. Part III [Table 6 and Table 7]: The laboratory does not perform hand calculations for kinship DNA statistics.

TABLE 9

WebCode-Test	Additional Comments
7VU9XX-5870	Item 4- no PI values were input, our protocols allow for a manual exclusion based on obligate paternal alleles and no LR was calculated. In our protocols we do not report probability of parentage/paternity, therefore it is not added to the Paternity DNA tab [Table 5: Paternity DNA Statistics & Conclusions]. In our protocols we do not manually calculate statistics, therefore Part III: KINSHIP DNA STATISTICS [Table 6 and Table 7] was not completed.
8RTJUV-5870	Per [Laboratory] procedures, D12S391 not used for statistics.
8UZT8M-5875	Our laboratory does not calculate a Paternity Index. Per our SOP, we identify obligate alleles which are used to calculate a "Random Man Not Excluded" (RMNE) statistic. For this case, the obligate alleles were as follows: D3 (16), vWA (17), D16 (12), CSF (12), TPOX (8), D8 (13,15), D21 (32.2), D18 (13), D2S441 (10,12), D19 (16.2), TH01 (7), FGA (19), D22 (16), D5 (13), D13 (11,12), D7 (10), SE33 (25.2,29.2), D10 (15), D1 (12), D12 (21), and D2S1338 (24). RMNE report statement: The expected frequency of individuals who could be the father of Known Daughter, if Known Mother is the other parent, is less than 1 in 19 billion in the general male population. NT = not tested. NR = no results.
8WJU4U-5870	1. On comparison to the DNA profiles obtained, I found that the source of bloodstain specimen "Item 3" is the biological father to the source of bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain specimen "Item 1"). 2. On comparison to the DNA profiles obtained, I found that the source of bloodstain specimen "Item 4" is NOT the biological father to the source of bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain specimen "Item 1"). 3. Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using in-situ method. 4. Amplification: -Item 1, Item 2, Item 3 and Item 4 were amplified using Globalfiler Express (GFE) on PROFLEX PCR System. -Item 3 and Item 4 were further amplified using AmpFISTR Y-Filer PCR Amplification kit on 9700 GeneAmp PCR System. 5. Electrophoresis: -Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Globalfiler Express). -Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 3 and Item 4 (Yfiler). 6. Quality Control: -Reagent blank, positive control and negative control were incorporated in the overall analysis and gave designated results. 7. The statistical formula was derived from DNView Statistical Software and calculated using Microsoft Excel. NM: denotes non-male profile.
8Z4LFW-5870	No PI calculated at D12 due to linkage with vWA (per SOP) Per case info and agency policy, reporting Caucasian PI and Probability of Parentage.
94ZPKN-5875	Additional alleles (low level) in reference profile from known mother in part 1. Do not interfere with calculations.
9B4MEL-5870	D12S391 is excluded from all final calculations as per laboratory policy. The final combined paternity index and final combined kinship index are truncated to 2 significant figures per laboratory policy. The probability of paternity is truncated to 4 places past the decimal point per laboratory policy.
9KMCNR-5870	NIST 1036 Caucasian database was used. The laboratory does not report probability of paternity. Linked loci vWA and D12S391 were accounted for in all calculations. Familial DNA analysis indicated with high confidence that Item 3 is the father of Item 2 with known mother Item 1. The DNView screening tool excluded Item 4 as being the father to Item 2, therefore no statistics were reported.

TABLE 9

WebCode-Test	Additional Comments
9KPQLL-5875	NT = Not tested. NR = No result. [Laboratory] processing for obtained profiles was conducted by a qualified analyst. Our laboratory does not calculate a Paternity Index. Per our SOP, we identify obligate alleles which are used to calculate a "Random Man Not Excluded" (RMNE) statistic. For this case, the obligate alleles were as follows: D3 (16), vWA (17), D16 (12), CSF (12), TPOX (8), D8 (13,15), D21 (32.2), D18 (13), D2S441 (10,12), D19 (16.2), TH01 (7), FGA (19), D22 (16), D5 (13), D13 (11,12), D7 (10), SE33 (25.2,29.2), D10 (15), D1 (12), D12 (21), and D2S1338 (24). RMNE report statement: The expected frequency of individuals who could be the father of Known Child is less than 1 in 19 billion in the general male population.
9UXEAR-5870	For paternity testing, DNAAview software was used to calculate LR _s , which was reported as the Combined Paternity Index value. The probability of paternity is not a DNAAview output statistic. Individual locus PIs were not reported for Item 4 as DNAAview software was used as a screening method and excluded Item 4 as the father. Under the Item 3 tab [Table 1: STR Amplification Kit(s) & Results], "N/A" was reported for vWA PI since it is linked with D12S391 for all calculations.
ALFQ7Y-5870	NR=No results. Item 3 - PowerPlex Fusion and GlobalFiler were concordant at all overlapping loci. Item 3 - PowerPlex Fusion, GlobalFiler, and YFiler were concordant at DYS391. Item 4 - PowerPlex Fusion and YFiler were concordant at DYS391.
AN4WCR-5870	1) On comparison to the DNA profiles obtained, I found that the source of bloodstained specimen "Item 3" is the biological father to the source of bloodstained specimen "Item 2" (given that the biological mother is represented by the source of bloodstained specimen "Item 1"). 2) On comparison to the DNA profiles obtained, I found that the source of bloodstained specimen "Item 4" is not the biological father to the source of bloodstained specimen "Item 2" (given that the biological mother is represented by the source of bloodstained specimen "Item 1"). 3) Extraction: -Item 1, Item 2, Item 3 and Item 4 were extracted using in-situ method. 4) Amplification: -Item 1, Item 2, Item 3 and Item 4 were amplified using Globalfiler Express (GFE) on PROFLEX PCR System. -Item 3 and Item 4 were further amplified using AmpFISTR Y-Filer PCR Amplification kit on 9700 GeneAmp PCR System. 5) Electrophoresis: -Electrophoresis were carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Globalfiler Express). -Electrophoresis were carried out on Genetic Analyzer 3500xl for Item 3 and Item 4 (Yfiler). 6) Quality Control: -Reagent blank, positive control and negative control were incorporated in the overall analysis and gave designated results. 7) NM represents non male profile. 8) The statistical formula were derived from DNAAView Statistical Software and calculated using Microsoft Excel.
AR399R-5870	Item 3 was amplified with Fusion 5C and a peak height discrepancy was noted between the 18 and 21 alleles present at D12S391. To investigate this further, the sample was re-extracted and amplified with the GlobalFiler kit. In the GlobalFiler data, the allele peak heights were more evenly balanced at D12S391. Therefore, there may be a possible primer binding site mutation in Item 3 at the D12S391 locus.
ATYEZK-5870	There is an apparent primer binding site mutation of the 18 allele at D12S391 for Item 3. The 21 allele at D12S391 for Item 3 was detected at an RFU level consistent with being part of a heterozygous genotype in the profile. The sample was re-amplified, and this was reproducible. This locus was not used for comparisons / statistics.
BJNMYN-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were reported for the Southwest Hispanic population group.
BJZKPQ-5875	Our laboratory uses an automated rapid DNA process and does not calculate Kinship DNA statistics. Allelic results that are blank in the boxes indicates that the allele data was not applicable/accepted by the ANDE 6C Rapid DNA instrument.
CQJ4PK-5875	SE33 was not utilized for statistics as per laboratory policy.

TABLE 9

WebCode-Test	Additional Comments
CZCATJ-5870	Part I [Table 2: Paternity Index Results] - D12S391 is excluded from PI calculation, per Department policy. Part II [Table 5: Paternity DNA Statistics & Conclusions] - The Combined Paternity Index value is TRUNCATED to 2 significant figures, per Department policy. The Probability of Paternity is TRUNCATED at four places past the decimal, per Department policy. Part III [Table 6 and Table 7] - The Combined Kinship Index will include all loci provided (excluding D12S391) and is TRUNCATED to 2 significant figures, per Department policy.
DRRF7L-5870	DYS391 is reported as INC for the PowerPlex Fusion System as per laboratory policy.
E4ZVCH-5870	Parentage probability not reported by laboratory.
EHZGTL-5875	For Part I [Table 2: Paternity Index Results] - PI values at specific loci, Part II [Table 5: Paternity DNA Statistics & Results] - Combined PI value, and Part III [Table 6 and Table 7] - Kinship DNA Statistics: the reported values are Kinship Index (KI) values calculated using KIn CALC v6.0 BFS software. The KIn CALC software uses standard formulae for simple PI's and 2-person KI's, and applies a standard Elston-Stewart approach to other pedigrees. The following calculation approaches are applied at [Laboratory]: mean posterior allele probabilities based upon the NIST population databases and a 1/k prior; a theta value of 0.01; and only one of the vWA/D12S391 loci (due to linkage between these two loci). [Laboratory] does not test for or report the loci Penta D and Penta E; therefore, those loci were not reported. For Part II [Table 5: Paternity DNA Statistics & Results]: our laboratory does not report Probabilities of Paternity.
EJVZUM-5870	1. On comparison to the DNA profiles obtained, I found that the source of bloodstained specimen "Item 3" is the biological father to the source of bloodstained specimen "Item 2" (given that the biological mother is represented by the source of bloodstained specimen "Item 1"). 2. On comparison to the DNA profiles obtained, I found that the source of bloodstained specimen "Item 4" is NOT the biological father to the source of bloodstained specimen "Item 2" (given that the biological mother is represented by the source of bloodstained specimen "Item 1"). 3. Item 1, Item 2, Item 3 and Item 4 were extracted using in-situ method. 4. Amplification: -Item 1, Item 2, Item 3 and Item 4 were amplified using Globalfiler Express (GFE) on PROFLEX PCR System. -Item 3 and Item 4 were further amplified using AmpFISTR Y-Filer PCR Amplification kit on 9700 GeneAmp PCR System. 5. Electrophoresis: -Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Globalfiler Express). -Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 3 and Item 4 (Yfiler). 6. Quality Control: -Reagent blank, positive control and negative control were incorporated in the overall analysis and gave designated results. 7. The statistical formula was derived from DNView Statistical Software and calculated using Microsoft Excel. Remark: 'NM' denotes non-male profile.
F6A8JL-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the Southwest Hispanic population group.
FA62GM-5870	Reported Caucasian PI and Probability for Item 3. Per SOP, locus D12S391 is not included in calculations. No PI values reported for item 4 since excluded as possible father.
FJQ3YH-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the SW Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the SW Hispanic population group.
FKLL2J-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the Southwest Hispanic population group. LRs for other population groups: African American: 1.1840E+12. Caucasian: 40,390,000,000. Southeast Hispanic: 97,340,000,000.

TABLE 9

WebCode-Test	Additional Comments
FZF4ZF-5870	For Parts I and II [Table 2 and Table 5], the individual locus PI values were rounded to 3 significant figures (per the provided example), and per Departmental Policy the final Combined Paternity Index (excluding D12S391) was truncated to 2 significant figures and the Probability of Paternity was truncated at 4 places past the decimal point. For Part III [Table 6 and Table 7], the individual locus LR values were rounded to 4 significant figures (per the provided example); per Departmental Policy, the final Combined Paternity Index was truncated to 2 significant figures and D12S391 was excluded from the final calculation.
GBFZDG-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the Southwest Hispanic population group.
HEAG4F-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the Southwest Hispanic population group. Combined PI for Black population: 1,184,000,000,000. Combined PI for Caucasian population: 40,390,000,000. Combined PI for Southeast Hispanic population: 97,340,000,000.
HF6Z6G-5870	Per laboratory policy the lowest LR of the population groups in the database is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the Southwest Hispanic population group. The combined paternity index for the remaining population groups were: African American 1,840,000,000,000; Caucasian 40,390,000,000; Southeast Hispanic 97,340,000,000. The probability of paternity for the remaining population groups were: African American >99.9999999999; Caucasian 99.99999997524; Southeast Hispanic 99.99999998973.
HVDQ8L-5870	Per the laboratory's procedures, a statistic was not calculated for Item 4 due to 3 or more loci of the alleged father not having the obligate paternal allele and therefore an exclusion was made by visually examining the profiles. No paternity index values were entered for Item 4 since statistics not performed. The laboratory does not perform manual calculations for kinship, therefore Part III: Kinship DNA Statistics [Table 6 and Table 7] is not filled out. The laboratory does not report the probability of paternity, therefore Part II: Paternity DNA Statistics 2c [Table 5: Paternity DNA Statistics & Conclusions] is not filled out.
J6D2RG-5870	1. Our laboratory would report the combined probability of paternity as >99.99%. 2. Our laboratory does not report statistics for exclusions.
JBPPRD-5870	For inclusionary parentage cases in which alleles are shared in both of genetically linked loci D12S391 and vWA, the laboratory's procedure calls for the lower power of exclusion locus vWA to be dropped from the calculation. For Item 3 in this case, the vWA LR of 1.76 would be made 1.00 and a CLR of 43365661439 reported. We attest that to the greatest degree practicable, these results have been produced via routine integration of the samples into standard laboratory processes and analysis using the laboratory's routine methods.
KKLELJ-5870	Locus D12S391 not utilized for statistics due to linkage with vWA.
L8LQFB-5870	Please note that an apparent mutation was noted in the blood sample from Alleged Father A at locus D12S391. It did not, however, impact the interpretation give the daughter had interpreted the 18 allele from her mother.

TABLE 9

WebCode-Test	Additional Comments
M739PB-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the Southwest Hispanic population group. The combined paternity index for the other population groups are: African American: 1,184,000,000,000. Caucasian: 40,390,000,000. Southeast Hispanic: 97,340,000,000.
N2JRTC-5870	Probability of paternity (POP) is not used within this laboratory.
N89BNE-5870	* Per agency policy, D12S391 is not used for PI calculations due to potential linkage with vWA. * Per case information and agency policy, Caucasian PI values are reported here.
N8TUV8-5870	Amplification: Using the in-situ method, Item 1, Item 2, Item 3 and Item 4 were amplified using the Applied Biosystems™ GlobalFiler™ Express PCR Amplification Kit on the Applied Biosystems™ ProFlex™ 96-well PCR System. Item 3 and Item 4 were also amplified using the AmpFLSTR™ Yfiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems™ 3500xL Genetic Analyzer and the data were analyzed with the Applied Biosystems™ GeneMapper ID-X v1.5 software. Quality Control: Reagent Blank, Positive Control, and Negative Control were included throughout the analysis and all gave intended results. Statistical Evaluation: The statistical formulas were derived from the DNA•VIEW Statistical Software and the paternity / kinship index was calculated using Microsoft Office Excel. On comparison of the DNA profiles obtained, I found the following: a) The donor of bloodstained specimen "Item 3" to be the biological father to the donor of bloodstained specimen "Item 2". b) The donor of bloodstained specimen "Item 4" is excluded from being the biological father to the donor of bloodstained specimen "Item 2". (Given that the biological mother is represented by the donor of bloodstained specimen "Item 1"). Remark: 'NM' denotes non-male profile.
NKUPRE-5870	D12 is not calculated per our procedure manual.
NLP9UF-5870	Part I [Table 2: Paternity Index Results]: 1) The laboratory does not use D12S391 for paternity / kinship DNA statistics. 2) The laboratory excludes the alleged parent as biological parent of the child when there are ≥ 3 loci with genetic inconsistencies; the PI is not calculated. 3) Sample Item 2 at locus TH01 – There is a minor allele 4, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of this allele to the major allele is 1.26%. Part II [Table 5: Paternity DNA Statistics & Conclusions]: 1) The laboratory uses the all-ethnicities dataset (n=1036) for paternity DNA statistics. 2) The laboratory generally reports the combined paternity index value to 2 significant figures. 3) The laboratory uses a prior probability of 0.5 to calculate the Probability of Paternity. Part III [Table 6 and Table 7]: 1) The laboratory does not use D12S391 for paternity / kinship DNA statistics.
NM73WB-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the Southwest Hispanic population group. The LRs for the other population groups just for full disclosure and acknowledgement of the situation are: African American: 1.1840E+12; >99.9999999999. Caucasian: 40,390,000,000; 99.99999997524. Southeast Hispanic: 97,340,000,000; 99.99999998973.
NX39Q9-5875	SE33 not used in statistics as per laboratory procedure.
NXHRA7-5875	NR - no result. Following [Laboratory] SOPs, an LR of 34 billion was calculated, supporting the conclusion that Alleged Father A and Known Mother are the biological parents of Known Daughter.
PDBMKC-5870	Laboratory does not report statistics if individual is excluded. Laboratory would report the combined probability of paternity as >99.99%.

TABLE 9

WebCode-Test	Additional Comments
PE4FDA-5870	Part II [Table 5: Paternity DNA Statistics & Conclusions]: 2b) Local State Laboratory reports CPI values rounded off to two significant figures = 180 Trillion. Part III [Table 6 and Table 7]: Local State Laboratory does not perform this type of kinship analysis.
PEQWJ4-5870	For Item 3, Blood Sample from Alleged Father A, a confirmed potential primer binding site mutation was observed at locus D12S391. The 21 allele was the same height as other heterozygous peaks, however, the potential 18 allele was observed far lower at approximately 5% of the sister peak. Due to this discrepancy, the locus was not used in the parentage trio calculation and the 18 peak was indicated in the table with a bracket around it to denote the PHR difference.
Q2C9Z6-5870	1) On comparison to the DNA profiles obtained, I found that the source of bloodstain specimen "Item 3" is the biological father to the source of bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain specimen "Item 1"). 2) On comparison to the DNA profiles obtained, I found that the source of bloodstain specimen "Item 4" is not the biological father to the source of bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain specimen "Item 1"). 3) Extraction- Item 1, Item 2, Item 3 and Item 4 were punched using 1.2mm size puncher and the FTA disc was subjected to direct amplification. 4) Amplification-Item 1, Item 2, Item 3 and Item 4 were amplified using the GlobalFiler Express Amplification on Applied Biosystem Proflex PCR System. Item 3 and Item 4 were further amplified using AmpFLSTR Y-Filer PCR Amplification Kit on Applied Biosystem Proflex PCR system. 5) Electrophoresis-Electrophoresis was carried out using Genetic Analyzer 3500 for all amplified products of GlobalFiler Express and Y-Filer Amplification kit and data was analysed using GeneMapper ID-X v1.5 software. 6) Quality Control: -All reagent blank, positive control and negative control were carried out throughout the analysis and gave intended results. 7) The statistical formulas were derived from DNAVIEW statistical software and calculated using Microsoft Excel. 8) NM indicate non-male profile.
RUTDH2-5870	Item 3 (Alleged Father A), locus D12S391: a potential primer binding site mutation was detected at this locus, with a very low level 18 allele and a 21 allele (the 21 allele is similar in peak height to the other heterozygous peaks within the profile). The 18 allele was enclosed within parentheses in the allele table for Item 3 to notate this peak height difference. This locus was not used for comparisons or statistical analysis (thus, no parentage index was calculated for this locus for this comparison). Paternity indices were not calculated for Item 4, per laboratory policy, due to exclusion.
TLXW73-5870	The paternity analysis was completed according to our laboratory procedure. Due to vWA/D12S391 linkage disequilibrium, the Combined Paternity Index (CPI) was calculated without the vWA locus. The Paternity Index (PI) and the CPI are from the population group that had the lowest CPI. The Probability of Paternity is not reported and the PI is not calculated when an alleged father is excluded as the biological father.
U49V66-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the Southwest Hispanic population group. The combined paternity index for the other three population groups are as follows: African American: 1,184,000,000,000 / Caucasian: 40,390,000,000 / Southeast Hispanic: 97,340,000,000.

TABLE 9

WebCode-Test	Additional Comments
VA9UTZ-5870	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using the in-situ extraction method. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the Globalfiler Express PCR Amplification kit on the 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 3 and Item 4 using the AmpFISTR Y-filer PCR Amplification kit on the 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4 (Globalfiler Express). Electrophoresis for Y-Filer was carried out on the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 3 and Item 4. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results. The statistical formula was derived from DNANView Statistical Software and calculated using Microsoft Excel. Abbreviation: NM : Non-male Profile.
VGCRMX-5870	For Item 3 (Alleged Father A), there appears to be a primer binding site mutation present at D12S391. One high-level allele was detected and one low-level allele. The higher allele (21) is at a similar height to the other heterozygous peaks and the low-level allele (18) was barely detected. D12S391 was not used for comparisons or stats.
WCFT7-5870	1. On comparison to the DNA profile obtained, I found that the source of bloodstain specimen "Item 3" is the biological father to the source of bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain specimen "Item 1"). 2. On comparison to the DNA profile obtained, I found that the source of bloodstain specimen "Item 4" is NOT the biological father to the source of bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain specimen "Item 1"). 3. Item 1, Item 2, Item 3 and Item 4 were extracted using in-situ method. 4. Amplification: - Item 1, Item 2, Item 3 and Item 4 were amplified using Globalfiler Express (GFE) on PROFLEX PCR System. - Item 3 and Item 4 were further amplified using AmpFLSTR Y-Filer PCR Amplification kit on 9700 GeneAmp PCR System. 5. Electrophoresis: - Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Globalfiler Express). - Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 3 and Item 4 (Yfiler). 6. Quality Control: - Reagent blank, positive control and negative control were incorporated in the overall analysis and gave designated results. 7. The statistical formula was derived from DNANView Statistical Software and calculated using Microsoft Excel. Remark: 'NM' denotes non-male profile. '*' denotes possible mutation.
W6TJFV-5875	STR loci reported are from a combination of GlobalFiler and VeriFiler Plus kits. Paternity index calculation was based on GlobalFiler kit, plus additional Penta D and Penta E. D6S1043 and D12S391 are excluded for paternity index calculation due to linkage.
W9WGN4-5875	*The likelihood ratios were calculated with the KIn CALc software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of just x/N. Combined kinship index omits the locus D12S391 due to linkage disequilibrium with vWA.
WARXZ-5875	SE33 locus not used for paternity statistics at the [Laboratory].
WNPZNY-5870	No Paternity Index statistics added for Item 4 as this individual is excluded. No statistics are calculated per laboratory protocol for individuals that are excluded.
WUB3K4-5870	Laboratory does not report out statistics for exclusions. Laboratory would report combined probability of paternity as >99.99%.
XMTTW8-5870	Locus D12S391 not utilized for statistics due to linkage with vWA.
XYZYMZ-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the southwest Hispanic population group.

TABLE 9

WebCode-Test	Additional Comments
XZWGP2-5870	Per [Laboratory] policy, the lowest LR of the population groups is reported for the Combined Paternity Index. In this scenario, the lowest LR is seen in the Southwest Hispanic population group. Therefore, the locus-specific Paternity Index values for Item 3, the reported Combined Paternity Index value, and the Probability of Paternity are for the Southwest Hispanic population group.
Y9LUFA-5870	NR= No Results. Power Plex Fusion and Global Filer concordant for Item 3. Power Plex Fusion, Global Filer, and YFiler concordant at DYS391 for Item 3. YFiler and Low Copy Number YFiler concordant for item 3. Power Plex Fusion and YFiler concordant at DYS391 for Item 4.
YRMZ22-5870	Combined Paternity Index calculated without D12 due to linkage disequilibrium with vWA.
ZFNMGV-5870	PI is not calculated when an individual is excluded as the biological father. The laboratory protocol is not to include the D12S391 locus for paternity calculations. The laboratory does not calculate kinship statistics for Y-STR results; therefore, Y-STR analysis was not performed on the proficiency test.
ZFYXNY-5870	Per laboratory policy the lowest LR of the population groups is reported for the combined paternity index. In this scenario, the lowest LR was seen in the Southwest Hispanic population group. Therefore, the reported combined paternity index and probability of paternity were for the Southwest Hispanic population group. The combined paternity index for the other three population groups are as follows: African American: 1,184,000,000,000 / Caucasian: 40,390,000,000 / Southeast Hispanic: 97,340,000,000.
ZRXB6Y-5870	The laboratory does not perform Kinship DNA.

Collaborative Testing Services ~ Forensic Testing Program

Test No. 26-5870: DNA Parentage

DATA MUST BE SUBMITTED BY **April 20, 2026, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: QRRTFB

The Accreditation Release section can be accessed by using the "Continue to Final Submission" button above. This information can be entered at any time prior to submitting to CTS.

Scenario:

A paternity case has been presented to your laboratory. Blood standards have been collected from the mother, daughter, and two alleged fathers. Your laboratory is tasked with examining the blood standards and comparing the DNA profiles.

Items Submitted (Sample Pack DPF1 - FTA™ Micro Cards):

- Item 1: Blood Sample from Known Mother (Caucasian)
- Item 2: Blood Sample from Known Daughter (Caucasian)
- Item 3: Blood Sample from Alleged Father A (Caucasian)
- Item 4: Blood Sample from Alleged Father B (Caucasian)

DNA REPORTING INSTRUCTIONS

Use the instructions below to complete the following DNA Analysis sections of this data sheet

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. "14,14", "14,-", "14") and null responses
- PI = Paternity Index
- If your laboratory does not produce PI calculations, record your explanation within the Part IV: Additional comments section.

Example	D1S1656	D2S1338	D2S441	D3S1358	D5S818
STR	15,18	12,17	10	14	5,13
PI	1.65	3.01	3.16	4.12	5.65

Part I: DNA Analysis for Item 1

STR Amplification Kit(s) Used:

Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

Identifiler®
 GlobalFiler™
 Investigator® 24plex
 PowerPlex®
 Other

Report the Paternity Software used (if applicable):

Alleles below are sorted in Default order.

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
1						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
1						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
1						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
1						

Part I (continued): DNA Analysis for Item 2

STR Amplification Kit(s) Used:

Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

Identifiler®
 GlobalFiler™
 Investigator® 24plex
 PowerPlex®
 Other

Report the Paternity Software used (if applicable):

Alleles below are sorted in Default order.

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
2						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
2						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
2						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
2						

Part I (continued): DNA Analysis - Additional DNA

- Use this section to report results for loci not currently listed in other sections of the data sheet.
- Report alleles in numerical order, separated by a comma.
- Click "Add Row" to show another row of boxes for entry.

Locus	Item 1	Item 2	Item 3 Alleles	Item 3 PI	Item 4 Alleles	Item 4 PI

Part II: PATERNITY DNA STATISTICS

1. Which alleged father cannot be excluded as the biological parent of the child (Item 2)?
 - Item 3 - Alleged Father A
 - Item 4 - Alleged Father B
 - Neither - Both alleged fathers are excluded as being the biological parent of the child.

2. If applicable, calculate the Combined Paternity Index and the Probability of Paternity. For data submission purposes, CTS requests that you use the population database typically utilized in casework at your agency (e.g., FBI Popstats or NIST-STRBASE). If you are unable to use either of these databases, please indicate the other population database used.
 - 2a. Choose a Population Database:
 - FBI Popstats Population Database
 - NIST-STRBASE Population Database

(Access this publicly available U.S. population data set at [STRBASE](#). From there, select the hyperlink labeled "Revised allele frequencies file" under the title "Additional Information".)

Other Population Database:
 - 2b. Record the Combined Paternity Index value:
 - 2c. Record the Probability of Paternity:

Locus	A	B	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
D7S820	9,10	10,12	9: 0.1676	10: 0.2562	<input type="text"/>	<input type="text"/>	<input type="text"/>
			12: 0.1593				
D8S1179	13,14	13,13	13: 0.3296	14: 0.1662	<input type="text"/>	<input type="text"/>	<input type="text"/>
D10S1248	12,15	12,14	12: 0.0319	14: 0.2978	<input type="text"/>	<input type="text"/>	<input type="text"/>
			15: 0.1967				
D12S391	15,18	15,20	15: 0.0319	18: 0.1717	<input type="text"/>	<input type="text"/>	<input type="text"/>
			20: 0.1108				
D13S317	11,12	9,12	9: 0.0776	11: 0.3255	<input type="text"/>	<input type="text"/>	<input type="text"/>
			12: 0.2687				
D16S539	9,11	9,12	9: 0.1066	11: 0.3144	<input type="text"/>	<input type="text"/>	<input type="text"/>
			12: 0.3144				
D18S51	15,18	18,18	15: 0.1704	18: 0.0776	<input type="text"/>	<input type="text"/>	<input type="text"/>
D19S433	13,13	13,14	13: 0.2548	14: 0.3615	<input type="text"/>	<input type="text"/>	<input type="text"/>
D21S11	30.2,31.2	29,31.2	29: 0.2022	30.2: 0.0291	<input type="text"/>	<input type="text"/>	<input type="text"/>
			31.2: 0.0983				
D22S1045	11,16	11,15	11: 0.1399	15: 0.3213	<input type="text"/>	<input type="text"/>	<input type="text"/>
			16: 0.3823				

Locus	A	B	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
CSF1PO	10,10	10,11	10: 0.2202	11: 0.3089	<input type="text"/>	<input type="text"/>	<input type="text"/>
FGA	18,22	18,19	18: 0.0249	19: 0.0499	<input type="text"/>	<input type="text"/>	<input type="text"/>
			22: 0.2050				
PentaD	8,12	8,13	8: 0.0208	12: 0.2327	<input type="text"/>	<input type="text"/>	<input type="text"/>
			13: 0.1967				
PentaE	7,12	7,16	7: 0.1690	12: 0.1994	<input type="text"/>	<input type="text"/>	<input type="text"/>
			16: 0.0512				
SE33	15,18	17,18	15: 0.0402	17: 0.0623	<input type="text"/>	<input type="text"/>	<input type="text"/>
			18: 0.0720				
TH01	8,8	8,8	8: 0.0956		<input type="text"/>	<input type="text"/>	<input type="text"/>
TPOX	8,11	8,11	8: 0.5249	11: 0.2521	<input type="text"/>	<input type="text"/>	<input type="text"/>
vWA	14,14	14,15	14: 0.0928	15: 0.1053	<input type="text"/>	<input type="text"/>	<input type="text"/>

1. Evaluate the profiles above and record the kinship index.

2. Is the relationship of Father and Son supported by the genetic evidence?

3. Use the space provided to document any additional statistical results and relationship conclusions.

Note: Please use appropriate punctuation to indicate the end of sentences, sections, and statements in the free-form space below. Extra spacing and returns used for separation within your text will not transfer and may cause your information to be illegible in the Summary Report. The use of lists and tabular formats to deliver information is also cautioned against, as these do not transfer.

Part IV: ADDITIONAL COMMENTS

Comments regarding any part of this Test.

Note: Please use appropriate punctuation to indicate the end of sentences, sections, and statements in the free-form space below. Extra spacing and returns used for separation within your text will not transfer and may cause your information to be illegible in the Summary Report. The use of lists and tabular formats to deliver information is also cautioned against, as these do not transfer.

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

A2LA Certificate No.

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

Authorized Contact Person and Title

Laboratory Name

Location (City/State)