



Handwriting Test No. 09-524 Summary Report

This test was sent to 219 participants. Each sample pack contained a photograph of one questioned suicide note (Q1) and photographs of known writings from three individuals. Participants were requested to examine these items and report their findings. Data were returned from 187 participants (85% response rate) and are compiled into the following tables:

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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 contained a photograph of a questioned suicide note (Q1) and photographs of known writings. Only course of business writing was provided by the writer of K1 (Carmine Lorenzo) and both course of business writings and dictated exemplars were provided by the writers of K2 (Dan) and K3 (Ann). Participants were requested to determine which, if any, of these individuals produced the text on the Q1 suicide note.

SAMPLE PREPARATION-

The text on Q1 was written by the writers of K1 (Carmine Lorenzo) and K2 (Dan) who each produced a portion of the hand printing and writing on Q1. The K1 writer was selected based on his normal use of large spacing between paragraphs and was instructed during production of the majority of the note to maintain this practice and leave a blank line between paragraph 1 ending with "pain I have caused you all" and paragraph 2 starting with "Please remember only". The K2 (Dan) writer was instructed to insert the statement "I feel justified in terminating my life which is no longer worth living. Goodbye." between the two paragraphs.

The writer represented by K3 (Ann) did not produce any text on the Q1 suicide note.

The writers of K1 and K2 are males and K3 is a female. The questioned document was selected from dictated writing.

SAMPLE PACK ASSEMBLY: After verification was completed, each photo set was placed into a pre-labeled sample pack envelope, sealed with evidence tape and initialed with "CTS".

VERIFICATION-

Predistribution examiners determined that the handwriting on Q1 was written by more than one individual. They identified the K2 writer (reported "A") as the writer of the entry that reads, "I feel justified in terminating my life which is no longer worth living. Goodbye." and eliminated the K2 writer (reported "E") as the writer of the remainder of the questioned material on Q1. Predistribution examiners also identified the K1 writer (reported "A" or "B") as the writer of the remainder of the text on Q1. They also concluded that the writer of K3 did not write any of the Q1 text.

Summary Comments

This test was designed to provide participants with a handwriting identification challenge involving a questioned suicide note (Q1) containing an insertion by a second writer. In addition, known dictated exemplars from the purported suicide victim were not provided. The text on Q1 was actually written by two individuals who each produced a portion of the hand printing and writing on Q1. The K1 (Carmine Lorenzo) writer was instructed to produce the majority of the text on Q1. The K2 (Dan) writer was instructed to insert the statement "I feel justified in terminating my life which is no longer worth living. Goodbye." The K3 (Ann) writer did not write any text on Q1. (Refer to Manufacturer's Information for production details.)

Note: Some participants commented that the design of the response chart for Question 1 on the Data Sheet was potentially confusing because it did not specifically provide for the writing to have been done by more than one individual. CTS was conscious of this in the test design but believed that a more specific chart design might have provided a lead to the expected results. Participants were able to provide their formal written conclusions in their response to Question 2 (Table 2) and any evaluation of an individual response should be based on this rather than on the formatted responses to Question 1 (Table 1). The following summary information below was taken from the Table 1 Response Summary using limited information from the Conclusions (Table 2) and Additional Comments (Table 3). A thorough review of the conclusions may reflect a difference in the reporting percentages than those reflected below.

Of the 187 reporting participants, 98 (52%) reported in Table 1 (Question 1) and/or Table 2 (Question 2) that the bulk of the note had been written (or probably written) by the writer of K1 and the remainder by the writer of K2. Most participants (184) responded that the writer of K3 did not (probably did not) write any of the text on Q1. Eighty-four participants did not conclude (or at least did not report) that Q1 bore the writing of two persons. Most of these (80) reported that all of Q1 had been written (probably written) by the writer of K1. Four others reported that the text on Q1 had been written by the writer of K2 and five were either inconclusive or did not report any conclusions.

The conclusions and comments of many of the participants who reported less than definite conclusions for Q1 indicated that this was because they were working with photographs rather than with original documents. Many participants commented that there was insufficient amount of comparable known writings and word combinations by the K1 and K2 writers thus preventing them from forming an opinion or forming less than definitive findings. Several others noted that this problem does occur in actual casework.

Examination Results

Which, if any, of the known writers wrote the questioned writing on the note?

Response Key:

- A: Was WRITTEN by;
- B: Was PROBABLY WRITTEN by (some degree of identification);
- C: CANNOT be IDENTIFIED or ELIMINATED;
- D: Was PROBABLY NOT WRITTEN by (some degree of confidence);
- E: Was NOT WRITTEN by.

TABLE 1

WebCode	Q1			WebCode	Q1		
	K1	K2	K3		K1	K2	K3
126NEC	A	E	E	4752WN	B/D	B/D	D
1738LG	A	A	E	48VKP5	B*	B*	D
19RKKM	A	A	E	4XB2SV	A	A	E
1A54CX	B	B	D	4XML9J	B	E	E
1CP57J	B	D	D	5813EV	B	B	E
1DXGHX	A	A	E	595SDM	B	D	E
1M7LUN	B	B	E	59WCK6	A	E	E
1TAQM7	A*	A*	E	5MULZN	B	D*	D
21RPVN	A	B	E	5SAXA8	B*	B*	D
24E1UT	A	E	E	6E6YZF	B	B	E
24EWMB	*	*	*	75KDXR	A	A	E
2792JH	C	C	E	77W6ZG	A	A	E
2C9YNN	A	A	E	848Y4Q	A	A	E
2KZN16	A*	A*	E	858Z9T	A	A	E
2TY9AQ	A	A	E	8FHVQ5	A*	A*	E
2VML9V	A	A	E	8KUJPG	B	D	E
3493YN	B	E	E	8LDDEH	B	D	E
36XEYT	B	E	E	8RAWZ1	B	D	E
3G88NF	A	E	E	8UQHGM	A	E	E
3LDADQ	A	A	E	944YMY	C	C	E
3NLSCL	A*	A*	E	986LT9	A*	A*	E*
3Q94BR	A	E	E	99HLQ3	B	D	D
3Y2CWH	B	E	E	99XVBP	A	E	E
42LRZH	A	A*	E	9BM7AU	A	E	E
46GR2K	A	E	E	9CX77P	B	D	C*

TABLE 1

WebCode	Q1			WebCode	Q1		
	K1	K2	K3		K1	K2	K3
9ZWBAH	B	D	E	FRH4RX	A	E	E
A4UXUX	B	D	E	G12ERC	B	B	D
A79JB	A	A	E	G4G18Y	A	E	E
ARVFM7	B	A	E	G8G3JT	A	D	E
B38TP4	A	E	E	GB5EHY	A	E	E
B5F8WA	A	A	E	GEQG95	B	B	D
BB9KKF	B	D	E	GG61Z1	A	E	E
BF9J9C	A*	A*	E	GGDT8A	B*	B*	E
BMR44B	A	E	E	GMLJBF	B*	B*	D
BPSX98	A	A	E	GP4MSQ	B	D	E
BVDNW3	A	E	E	GSTSWR	A	E	E
BWW8U7	A	E	E	GT79XB	B	B	E
C5S52E	A	A	E	GWMVEX	B	A	E
C6XWL4	B*	A*	D	H1LHYC	B*	B*	D
C8QAYV	A and D	B and E	E	H39UYJ	B	B	D
CBX1M1	*	*		H414GY	C	C*	E
CMDS74	B	B	E	HG8VC5	A	A	E
CV8X15	A	A	E	HKNGUR	A	E	E
CWEFY1	A	E	E	HKW7CA	B	B	D
DTQ881	A*	A*	E	HMCTUW	A	E	E
DU5HAE	B	D	E	HMG87X	A	E	E
E3X6Y1	A	E	E	HNK3HB	B	D	E
ESB8E4	B	D	E	HNVLZ1	A	E	E
EUWA9Q	B	B	E	HWQRT2	A	A	E
FABB7C	B	D	E	JUSMRD	E	A	E
FHUQ1A	A	A	E	JW9AF8	A	B	E
FK7LAG	B	B	E	K4LRN8	B	B	E
FL9BHV	A	E	E	KDXM8C	B*	A*	D*
FMMY3V	A	E	E	KMRUT4	B	D	E
FNZMMV	A*	B*	E	L9SHRD	A	A	E
FPAA21	C	C	E	LLVKNT	B	D	E

TABLE 1

WebCode	Q1			WebCode	Q1		
	K1	K2	K3		K1	K2	K3
LNSJ51	B & E	E & A	E	RMJVH	A*	A*	E
LPA65E	B	E	E	RSTDTJ	B	D	E
LUGZZA	A	E	E	SP52TD	C*	C*	C*
LY93QW	B*	A*	E	SPWY9Y	B	B	D
LZTNYL	A	E	E	SU643K	A	E	E
M4FUS3	B	D	E	T1JC5L	A	E	E
M7APL2	B	D	D	T3LG8X	B	B	D
MEMSNU	E	A	E	T83QRR	B	D	D
MHS85Y	A	E	E	T95M54	C*	B	D
MKFK44	A*	A**	E	TCFDQ3	B*	B*	D
MKYH73	E	A	E	TFVZ7N	A	E	E
ML7UMJ	B*	A*	D*	TJKABN	C	C	E
MNV6LQ	A	E	E	TM1T2J	A	E	E
N4MCMW	A	A	E	TVNSTD	B	D	E
NAQA3N	A	A	E	TYV15F	A	E	E
NE4W6T	A	E	E	U75PGT	A	A	E
NHJHND	B - E*	E - B*	E	UBHB9C	A*	A*	E
NNX2ZU	C*	C*	D	UQZFLZ	B*	B*	D
NQZCKV	A	A	E	UTE23L	A	E	E
NVU6HX	A	A	E	UTJGFL	B	D	D
NXHHG3	A	A	E	UTNSK5	B	B	D
NYTGDW	A	A	E	V94E4N	A	E	E
PG12S1	*	*	E	W63S79	A	E	E
PTGTFL	B	D	E	WK1NGV	A	A	E
Q5Y9BL	B	D	E	X3WKAA	A	E	E
QEEF19	B	B	E	X47MZU	B	D	D
QHYGVW	B*	A*	E	X5KWAF	A	E	E
QMUATX	B	E	E	X6S8RL	B/D	B/D	D
QQTMPX	A	E	E	X9JAX5	A	A	E
R5XNKZ	A	E	E	XD6GSM	*	*	E
R8GPFL	B	C	D	XDFZ8B	C*	C*	E

TABLE 1

WebCode	Q1			WebCode	Q1		
	K1	K2	K3		K1	K2	K3
XEWX1A	A	B	E				
XJKXP3	A	E	E				
XM89P8	A*	E*	E				
XXSQL8	A*	A*	E				
XZ88B5	B,E	A,E	E				
XZF2KE	B/D*	D/B*	D				
YBH5TG	B*	B*	D				
Z95SQ6	B	D	E				
ZA7GCM	A	A	E				
ZFCCY8	B	B	D				
ZGKK2Q	B	B	D				
ZLP1WJ	A	A	E				
ZWPM7P	A/E*	E/A*	E				

*See Conclusions (Table 2) and/or Additional Comments (Table 3). Many participants put conditions on their responses that were not captured in this table.

Response Summary for Q 1				Total Participants: 187
<i>Which, if any, of the known writers wrote the questioned writing on the note?</i>				
Q 1				
Response	K1	K2	K3	
A	94	54	0	Response Key: A: Was WRITTEN by; B: Was PROBABLY WRITTEN by (some degree of identification); C: CANNOT be IDENTIFIED or ELIMINATED; D: Was PROBABLY NOT WRITTEN by (some degree of confidence); E: Was NOT WRITTEN by.
B	69	32	0	
C	9	9	2	
D	0	29	33	
E	3	51	150	
A or B with D or E	8	8	0	
Blank or " * "	4	4	2	

Conclusions

TABLE 2

WebCode	Conclusions
126NEC	The analysis show that the manuscripts of suicide note (Q1) ARE CONSISTENT with those of CARMINE LORENZO (Item K1a-b)
1738LG	The hand written texts that integrate the questioned suicide note "Q1" they are identified with the writing of the gentlemen Carmine Lorenzo (K1), and they Give (K2), to this last one it corresponds him the elaboration of the hand written texts "I feel justified interminating my life which i not longer month living. GoodBye." [sic]
19RKKM	Examined and assessed in a general way the writing that appears in the suicide note, is seen in the right margin irregularity detected no irregularities in the right margin in line 6 there are also differences in the size of the letters and spaces between words that work to row 7 and 6 after the full stop. these differences correspond to the addition of a text set to white space left by the original scribe. [sic]
1A54CX	Due to characteristics that could not be accounted for in the known writing, a definite determination could not be reached whether or not the questioned writing on item Q1 was prepared by CARMINE LORENZO, K1a-b, DAN, K2a-c, or ANN, K3a-c. However, characteristics were observed to indicate CARMINE LORENZO, K1a-b, may not have prepared the questioned writing on item Q1 beginning "I feel justified..." through and including "...Goodbye.", and that he may have prepared the remaining portions of questioned writing on item Q1. Characteristics were observed to indicate the questioned writing on item Q1 beginning "I feel justified..." through and including "...Goodbye" may have been prepared by DAN, K2a-c, and that he may not have prepared the remaining portions of questioned writing on item Q1. Characteristics were observed to indicate the questioned writing on item Q1 may not have been prepared by ANN, K3a-c. A more definitive determination may be reached if additional known writing is obtained from the suspect writers. If possible, the known writing should be hand printed and comparable to the questioned writing in wording and format. Undictated known writing consists of handwriting prepared during normal course of business activity. Possible sources of undictated known writing include business papers, letters, canceled checks, and/or applications.
1CP57J	Based on the examination and comparison of the question note printing with the known printing of Carmine Lorenzo, Dan & Ann listed as K1, K2 & K3, I find the following: I find that there is a STRONG PROBABILITY Carmine Lorenzo authored the question printing located on the face side of Q1. The finding is based on non-requested standards submitted. The non-requested printing does not contain some work/letter combinations required for a complete examination. There is no basis to conclude Dan or Ann listed above authored the printing in question.
1DXGHX	1. Carmine Lorenzo wrote the following portions of the questioned note: "August 15, 2009...have caused you all", "Please remember only the good...as I continue my journey" 2. Dan wrote the portion of the questioned note, "I feel justified in terminating my life which is no longer worth living. Goodbye." 3. Ann did not write any portion of the questioned note.
1M7LUN	The note, Q-1, exhibits characteristics in common between both Carmine Lorenzo, K-1 and Dan, K-2.
1TAQM7	1. The writer of specimen handprinting on Exhibit K-2 (DAN) wrote the questioned handprinting "I feel justified in terminating my life which is no longer worth living. Goodbye." on Exhibit Q-1. 2. The writer of the specimen handprinting on Exhibit K-1 (LORENZO) wrote the questioned handprinting (with the exclusion of "I feel justified in terminating my life which is no longer worth living. Goodbye.") on Exhibit Q-1.
21RPVN	1. The entries "I feel justified in terminating my life which is no longer worth living. Goodbye." are not in keeping with the other entries on the questioned document and I have therefore treated them separately. 2. I have found significant similarities between the handwriting of the bulk of the entries on Q1 (that is, the entries other than those referred to in paragraph 1 above) and the specimens K1. In my opinion these similarities provide conclusive evidence that they were written by the author of K1. This writing differs significantly from the specimens K2 and K3. In my opinion there is conclusive evidence that the authors of K2 and K3 were not responsible. 3. The entries referred to in section 1 above differ significantly from the specimens K1 and in my opinion there is conclusive evidence that they were not written by the author of these specimens. There is also conclusive evidence that they were not written by

TABLE 2

WebCode	Conclusions
	the author of the specimens K3. 4. I have, however, found significant similarities between the entries referred to in section 1 and the specimens K2. Whilst it is not possible to offer a definite opinion, these similarities do, in my opinion, provide strong evidence that these entries were added by the author of the specimens K2. I cannot completely exclude the possibility that some other person was responsible but I do consider this to be unlikely.
24E1UT	Questioned suicide note from August 15, 2009 was written by Carmine Lorenzo. It was not written by business partner and co-owner (Dan) or secretary (Ann).
24EWMB	[From Table 1 - Examination Results: Carmine Lorenzo (K1) "he wrote the note"; Dan (K2) "he wrote the 6 and 7 line"; Ann (K3) "he didn't wrote the note". Conclusions translated by CTS, "This laboratory determines that the written manuscripts in document Q1 is matched with the graphic gesture of the contributed manuscripts in documents K1a and K1b, these being from one source. Except the sixth line of writing after the period and the seventh line (I feel justified interminating my life which is no longer worth living. Goodbye)."] Write for Dan (K2).
2792JH	It is my opinion that: 1: The questioned handwriting sample, Q1, was not written by the writer of the 'Ann' comparison handwriting samples, K3. 2: No opinion could be expressed as to whether or not the questioned handwriting sample, Q1, was written by the writers 'Carmine Lorenzo' and 'Dan' comparison handwriting samples, K1 and K2. Therefore the examination was inconclusive.
2C9YNN	The textbook presents graphic identity that contributed to the writings of Carmine Lorenzo (K1) and dan (K2), the last mentioned added the phrase "I feel Justified in terminating my life Which is not worth living longer good bye".[sic]
2KZN16	The questioned handwriting on the suicide note (Q1) was compared with the known writings of deceased Carmine Lorenzo in items K1a-b, the known writings of business partner and co-owner, Dan in items K2a-c, the known writings of secretary, Ann in items K3a-c. The questioned handwriting on the suicide note (Q1), excluding that of the sentence "I feel justified in terminating my life which is no longer worth living. Goodbye." on lines 8-9, was found to be similar to the known writings of deceased Carmine Lorenzo in item K1a-b in writing characteristics such as writing movement, design of letters, fluency and construction details. I am therefore of the opinion that the questioned handwriting on the suicide note (Q1), excluding that of the sentence "I feel justified in terminating my life which is no longer worth living. Goodbye." on lines 8-9, was written by deceased Carmine Lorenzo (K1). On the other hand, the sentence "I feel justified in terminating my life which is no longer worth living. Goodbye." on lines 8-9, in which the words were more closely packed together, was similar to those known writings of his business partner and co-owner, Dan (K2) in writing characteristics such as writing movement, design of letters, fluency and construction details. In my opinion, this sentence was written by his business partner and co-owner, Dan (K2). There was no evidence to indicate that the questioned handwriting on the suicide note (Q1) was written by secretary, Ann (K3). In conclusion, the sentence "I feel justified in terminating my life which is no longer worth living. Goodbye." on lines 8-9 of the note (Q1) was inserted by his business partner and co-owner, Dan (K2) after writing by deceased Carmine Lorenzo.
2TY9AQ	The suicide note demarcated as "Q1" identifies the graphic gesture of Mr Lorenzo Carmine (K1), except the texts "I feel justified interminating my life which is no longer month living." GoodBye.", present in the middle of the question; document which correspond to the spellings of Mr Dan (K2), which indicates that the above-mentioned letter was developed by two scribes (K1, K2)." [sic]
2VML9V	Analyzed the texts at the suicide note was found that these have complete identity with the writings of carmine lorenzo, except the words "I feel justified in terminating my life whitch is no longer worth living." Which are identified with the writings of Dan, who use the space after the full stop interlial to write text to change the meaning of the letter. This conclusion is based on the similarity of graphs structures compared. He dismisses Mrs. Ann as author of the texts in doubt due to the total formal and structural difference between their manuscripts and those observed in the suicide letter [sic]
3493YN	I conclude that in my opinion there is a High Probability that the deceased Carmine Lorenzo is the author of the 'Questioned' suicide note from August 15, 2009.
36XEYT	K1 (Carmine Lorenzo) probably wrote the questioned writings on the Q1 note. Additional known exemplars of K1 are requested for further comparison. The "probable" expression is used in compliance

TABLE 2

WebCode	Conclusions
	with ASTM standards. Significant differences are noted with the K2 and K3 writers.
3G88NF	Visual examination: Carmine Lorenzo, Item 1B, prepared 1A. Dan LNU, Item 1C, did not prepare Item 1A. Ann LNU, Item 1D, did not prepare Item 1A.
3LDADQ	Excluding the date and the third and fourth sentences, the questioned note in item #1 was written by the writer of the Carmine Lorenzo samples in item #2. The third and fourth sentences beginning with I feel justified... and ending in Goodbye were written by the writer of the Dan samples in item #3. No opinion can be offered as to the writer of the date.
3NLSCL	The writer of the known writing appearing upon K2a through K2c and the writer of the questioned writing "I feel justified in terminating my life which is no longer worth living. Goodbye." appearing upon Q1 is one and the same person. This finding is based upon the agreement of significant individualizing handwriting characteristics with the absence of any significant differences in this area. The writer of the known writing appearing upon K1a and K1b and the writer of the remaining writing on exhibit Q1 is one and the same person. This finding is based upon the agreement of significant individualizing handwriting characteristics with the absence of any significant differences in this area. The K3 writer did not make any of the questioned handwriting on exhibit Q1.
3Q94BR	It was determined that the questioned note /Q1/ was written by K1 /Carmine Lorenzo/. Neither K2 /Dan/ nor K3 /Ann/ wrote the suicide note, because many dissimilarities between the questioned handwriting and their samples.[sic]
3Y2CWH	As a result of examination and comparison based on the material submitted it is the conclusion of this examiner that it is highly probable that: The writer of the K1 a-b handwriting samples, attributed to Carmine Lorenzo, wrote the content of the Q1 note. Lack of comparable words and letter formations prevent a more definitive conclusion. The writer of K2 a-c, "Dan", did not write the Q1 note. The writer of K3 a-c, "Ann", did not write the Q1 note. This result was reviewed and concurred by another examiner in this unit.
42LRZH	The questioned suicide note from August 15, 2009 (Q1) was written by Carmine Lorenzo (K1), except the sentence in the sixth line "I feel justified in terminating my life wich[sic] is no longer worth living. Goodbye" that was written by Dan (K2).
46GR2K	The handwriting on the questioned letter has been speedily and fluently completed with no evidence of copying or disguise. A number of similarities were observed between the questioned writing and the specimen material attributed to Carmine Lorenzo (K1). These similarities included such features as writing style, size and size relationships, slope and individual letter constructions. Based on these observed similarities it is my opinion that the author of the specimens attributed to Carmine Lorenzo (K1) completed the handwriting on the questioned letter (Q1).
4752WN	There is evidence of more than one writer of the questioned handwriting on document Q1. The passage "I feel justified in terminating my life which is no longer worth living. Goodbye." ("the specified passage") exhibits evidence of having been written by a different person from the remainder of the questioned handwriting. I concluded that there is no evidence to suggest that any of the handwriting on Q1 was written by the writer of the specimen documents K3a-c and I further consider the possibility to be highly unlikely. I concluded that it is probable that the specified passage on Q1 was written by the writer of the specimen handwriting on documents K2a-c. I concluded that there is no evidence that the writer of the specimen handwriting on documents K2a-c wrote the remainder of the handwriting on Q1 and I further consider the possibility to be highly unlikely. I concluded that there is no evidence to suggest that the specified passage on Q1 was written by the writer of the specimen handwriting on documents K1a-b and I further consider the possibility to be unlikely. I concluded that it is highly probable that the remainder of the handwriting on Q1 was written by the writer of the specimen handwriting on documents K1a-b.
4BVKP5	1. The writer of the specimen handprinting on exhibit K1 probably wrote the questioned handprinting on exhibit Q1, EXCLUDING the following text: "I feel justified in terminating my life which is no longer worth living. Goodbye." 2. The writer of the specimen handprinting on exhibit K2 probably wrote the following text: "I feel justified in terminating my life which is no longer worth living. Goodbye.", found on questioned exhibit Q1.
4XB2SV	Carmine Lorenzo (K1) wrote (ie. a full identification) the questioned entries on Item Q1, excluding the

TABLE 2

WebCode	Conclusions
	entries "I feel justified in terminating my life... Goodbye." Dan (K2) wrote the questioned entries on Q1 "I feel justified in terminating my life... Goodbye."
4XML9J	The graphic and comparative examination showed the questioned text Q1 was probably written by person whose samples K1 were examined[sic]. The questioned text Q1 was not written by person K2 and by person K3 whose samples were examined[sic].
5813EV	It was determined that ANN, writer of Item K3a-c, did not prepare the questioned writing appearing on the Item Q1 document. A definite determination could not be reached whether CARMINE LORENZO, writer of Item K1a-b, prepared the questioned writing appearing on the Item Q1 document due to characteristics in the questioned writing which were not observed in the known writing. However, significant handwriting characteristics were observed which suggest LORENZO may have prepared the Item Q1 writing, with the exception of the writing beginning "I feel justified..." and ending "...worth living. Goodbye.". A definite determination could not be reached whether DAN, writer of Item K2a-c, prepared the questioned writing appearing on the Item Q1 document due to characteristics in the questioned writing which were not observed in the known writing. However, significant handwriting characteristics were observed which suggest DAN may have prepared the entry on specimen Item Q1 beginning "I feel justified..." and ending "...worth living. Goodbye.". If additional handwriting examinations are requested in this matter, additional undictated known writing should be obtained from CARMINE LORENZO, Item K1a-b, and DAN, Item K2a-c. Undictated known writing consists of handwriting prepared during normal course of business activity. Possible sources of undictated known writing include business papers, letters, canceled checks, greeting cards, and/or applications.
595SDM	In my opinion, based on the material supplied, there is qualified support for the proposition that the handwritten note Q1 was produced by the writer of specimen material K1. This opinion level is used when there is an identifiable limitation associated with the examination process. In my opinion, based on the material supplied, there is qualified support for the proposition that the handwritten note Q1 was not produced by the writer of specimen material K2. This opinion level is used when there is an identifiable limitation associated with the examination process. In my opinion, based on the material supplied, there is support for the proposition that the handwritten note Q1 was not produced by the writer of specimen material K3.
59WCK6	Forms and the other factors of handwriting in Q1 was identified ones of handwriting in K1. For example, small letters b, u, f, c, a, m, w, n, g, j and capital letter P are principal features in Q1. So we determined that Q1 was written by Carmine Lorenzo. When compared forms of handwriting in K2 or K3 with ones in Q1, we analyzed that Q1 was not identified K2 or K3. [sic]
5MULZN	Upon completion of an examination and comparison of the items submitted there is a strong probability that the Q-1 questioned text was written by the K-1 writer. Likewise there is a strong probability that Q-1 was not written by the K-2 or K-3 authors. A more conclusive opinion would require the submission of additional hand printed standards of the K-1 writer. Reference any further submissions or correspondence pertaining to this case to Laboratory Report #09-524. Disposition: All submitted matter is herewith returned.
5SAXA8	Specimens of Carmine Lorenzo somewhat limited. Notwithstanding above, significant similarities between the bulk of the Q handwritten text of Q1 & the specimens of Carmine Lorenzo. In my opinion these findings provide very strong evidence that Carmine Lorenzo was the writer. From the opinion I exclude the insertion into the text "I feel justified in terminating my life which is no longer worth living. Goodbye." which differ from Carmine Lorenzo's handwriting. I find significant similarities between the above insertion into the questioned text & the specimens of Dan.
6E6YZF	The writer of Exhibit K1 (Carmine Lorenzo) probably wrote the questioned entries on Exhibit Q1, with the exception of the "I feel justified in terminating my life which is no longer worth living. Goodbye." portion. It is highly probable the writer of Exhibit K2 (Dan) wrote the "I feel justified in terminating my life which is no longer worth living. Goodbye." portion of Exhibit Q1.
75KD XR	The questioned text displayed on item Q1 was written by two (2) different writers. The writer of K1a and K1b, Carmine Lorenzo, wrote the questioned text on Q1 excluding the portion "I feel justified in terminating my life which is no longer worth living. Goodbye.". The writer of K2a-K2c, Dan, wrote the questioned text "I feel justified in terminating my life which is no longer worth living. Goodbye." displayed

TABLE 2

WebCode	Conclusions
	on item Q1. The writer of K3a-K3c, Ann, did not write any portion of the questioned text displayed on item Q1.
77W6ZG	The textbook presents graphic identity that contributed to the writings of Carmine Lorenzo (K1) and dan (K2), the last mentioned added the phrase "I feel Justified in terminating my life Which is not worth living longer good bye".[sic]
848Y4Q	Collectively, the questioned text on Item Q1 displays evidence of multiple authorship, the writing of two different writers. Based on the known writings provided for comparison, it is the opinion of this analyst that the writer of Items K1a-b (Carmine Lorenzo) wrote the questioned text displayed on Item Q1, excluding the "I feel justified in terminating my life which is no longer worth living. Goodbye." portion, which he did not write. The "I feel justified in terminating my life which is no longer worth living. Goodbye." portion of Q1 was written by the writer of Items K2a-c (Dan). It is also the opinion of this analyst that the writer of Items K3a-c (Ann) did not write any of the questioned text on Item Q1.
858Z9T	The writer of the K1 Carmine Lorenzo standards prepared the Q1 text beginning with the date, August 15, 2009 and ending with "...have caused you all." The writer of the K1 Carmine Lorenzo standards prepared the text beginning with, "Please remember only the...", and ending with "...on my journey." The writer of the K2 Dan standards prepared the text beginning with, "I feel justified...", ending with "...Goodbye." Characteristics normally associated with writing that has been inserted into existing text were noted in the questioned document. Non-destructive tests may be conducted on the physical properties of the questioned item if the original is provided for examination.
8FHVQ5	CARMINE LORENZO (K-1 a, b) is identified as the writer of the questioned writing on item Q-1, excluding the sentences "I feel justified in terminating my life which is no longer worth living. Goodbye." DAN (K-2a through K-2c) is identified as the writer of "I feel justified in terminating my life which is no longer worth living. Goodbye."
8KUJPG	It has been concluded that Ann, the writer of Exhibit K3, did not make the questioned hand printing on Exhibit Q1. This opinion is based on significant differences and a few similarities, noted between the known and questioned documents examined. Further, based on the evidence now available, it has been concluded that Carmine Lorenzo, the writer of Exhibit K1 probably made the questioned hand printing on Exhibit Q1 and Dan, the writer of Exhibit K2 probably did not make the questioned hand printing on Exhibit Q1. These opinions are based on both similarities and differences in varying proportions noted for both writers when compared with the Exhibit Q1 questioned hand printing, the limited amount of comparable known hand printing for Carmine Lorenzo, Exhibit K1, absent characteristics and the rapidly and somewhat awkward nature of the known hand printing samples of Dan, Exhibit K2.
8LDDEH	1. In my opinion there is qualified support for the proposition that writer of the material labelled K1a-b wrote the questioned handwritten material on the item labelled Q1. 2. In my opinion there is qualified support for the proposition that the writer of the material labelled K2a-c did not write the questioned handwritten material on the item labelled Q1. 3. In my opinion the writer of the material labelled K3a-c did not write the questioned handwritten material on the item labelled Q1.
8RAWZ1	With the writings of Q1 there were found a lot of similarities with the writings of Carmen Lorenzo (K1) both in the general handwriting features and in the forms of the single letters and numbers. Minor differences were found in some letter forms. The findings support the hypothesis that Carmine Lorenzo has himself written the questioned letter. With the writings of Q1 there were found some similarities with the writings of Dan (K2) for instance in the formation of some letters but also several differences were found. Dan (K2) can't be totally excluded as the writer of Q1 but the findings support more the hypothesis of another writer. With the writings of Q1 there were found a lot of differences with the writings Ann (K3) both in the general handwriting features and in the forms of the single letters and numbers. No mentionable similarities were found. The findings support strongly the hypothesis of another writer.
8UQHGM	Questioned suicide note from August 15, 2009 was written by Carmine Lorenzo. It was not written by business partner and co-owner (Dan) or secretary (Ann).
944YMY	On comparison, I found as follows: i) The questioned handwriting in 'Q1' showed similarities and differences in handwriting characteristics with the known writings on 'K1a' and 'K1b'. Therefore, I am not able to identify whether or not this questioned handwriting was written by 'Carmine Lorenzo'. ii) The

TABLE 2

WebCode	Conclusions
	questioned handwriting in 'Q1' showed similarities and differences in handwriting characteristics with the known writings on 'K2a', 'K2b' and 'K2c'. Therefore, I am not able to identify whether or not this questioned handwriting was written by 'Dan'. iii) The questioned handwriting in 'Q1' showed differences in handwriting characteristics from the known writings on 'K3a', 'K3b' and 'K3c'. Therefore, I am of the opinion that the questioned handwriting was not written by 'Ann'.
986LT9	[From Table 1 - Examination Results: Carmine Lorenzo (K1) * "(Part)"; Dan (K2) ** "(Part)"; Ann (K3) *** "(Total)"] Except for the words "I feel justified in terminating my life which is no longer worth living. Goodbye", the text on the questioned document (Q1) was written by Carmine Lorenzo (K1). The added words "I feel justified in terminating my life which is no longer worth living. Goodbye" on the questioned document (Q1) were written by Dan (K2).
99HLQ3	The questioned handwriting submitted in Item #Q-1 was examined and compared with Item(s) #K-1a and K-1b, the purported known handwriting of Carmine Lorenzo, Item(s) #K-2a, K-2b and K-2c, the purported known handwriting of "Dan" and K-3a, K-3b and K-3c, the purported known handwriting of "Ann". There is a strong probability that "Ann" did not write the questioned writing submitted in Item #Q-1. It has been concluded that "Dan" probably did not write the questioned writing submitted in Item #Q-1. There is evidence which indicates that Carmine Lorenzo may have written the comparable portions of the questioned writing submitted in Item #Q-1, but the evidence falls far short of that necessary to support a definite conclusion. The lack of comparable letter and word combinations exhibited between #Q-1 and Item(s) #K-1a and K-1b, the purported known handwriting of Carmine Lorenzo, limits the comparability of the two sets of writing. Additional collected course of business exemplars are requested from Carmine Lorenzo as this may provide a better basis for comparison.
99XVBP	(1) The writer of the specimen handwriting materials on documents K1a and K1b wrote the questioned handwriting on document Q1. (2) The writer of the specimen handwriting materials on documents K2a to K2c did not write the questioned handwriting on document Q1. (3) The writer of the specimen handwriting materials on documents K3a to K3c did not write the questioned handwriting on document Q1.
9BM7AU	Q1, K1a and K1b have the same characteristics of writing.
9CX77P	There is a strong probability that the writer of the K1 documents wrote the questioned text on document Q1. There is some evidence to suggest that the writer of the K2 documents did not write the questioned text on document Q1.
9ZWBAH	There was very strong evidence to support the proposition that Carmine Lorenzo completed document Q1. Whilst I could not exclude the possibility that some other person was responsible, I considered this remote.
A4UXUX	The letter Q1 was probably written by K1. The letter Q1 was probably not written by K2. The letter Q1 was not written by K3 with high probability.
A79JBJ	The questioned handwriting on "Q1" (with the exception of the sentences "I feel justified in terminating my life which is no longer worth living. Goodbye" on line 8 and line 9) showed similarities in handwriting characteristics to the known writings on "K1a" and "K1b". The sentences "I feel justified in terminating my life which is no longer worth living. Goodbye" on line 8 and line 9 on document "Q1" showed similarities in handwriting characteristics to the known writings on "K2a", "K2b" and "K2c". The questioned handwriting on "Q1" showed differences in handwritings to the known writings on "K3a", "K3b" and "K3c". Hence, I am of the opinion that the questioned handwriting on "Q1" was not written by "Ann" but was written by two different writers ("Carmine Lorenzo" and "Dan"). The sentence "I feel justified in terminating my life which is no longer worth living. Goodbye" on line 8 and line 9" were written by "Dan" while the rest of the handwriting on the note was written by "Carmine Lorenzo".
ARVFM7	It is the conclusion of this examiner that most of the handwriting on the Exhibit Q1 note probably was written by the writer of K1, which was submitted as the known writing of Carmine Lorenzo. This questioned writing begins with "August.." and runs through "caused you all" and begins again with "Please remember..." and ends with, "my journey." There is what appears as a line insertion, and it is the conclusion of this examiner that the Exhibit Q1 sentences, "I feel justified in terminating my life which is no longer worth living. Goodbye." were written by the writer of Exhibit K2, which was submitted as the known

TABLE 2

WebCode	Conclusions
	writing of Dan.
B38TP4	In the opinion of the undersigned, the writer of Item K1, Carmine Lorenzo, executed the questioned writing appearing on Item Q1.
B5F8WA	After the analysis of the structural and morphologic elements of the doubted and undoubted handwritings studied, we have observed a concordance between the dubious handwriting and the handwriting corresponding to Mr. CARMINE LORENZO. Also, we found that the text "I feel justified in terminating my life which is no longer worth living. Good bye." was added to the original. This passage is located in the middle part of the original text and is identified with the graphology features of Mr. DANN[sic]. Consequently, the text was originally written by Mr. LORENZO and the added text was written by Mr. DANN[sic]. Regarding the calligraphic samples provided by the Miss ANN they do not match the calligraphic features of the questioned note.
BB9KKF	Based on examination of the photographic evidence there is a strong probability that Carmine Lorenzo (K1) wrote the questioned entries on Q1. It has further been determined that Dan (K2) probably did not write the questioned entries on Q1 and that Ann (K3) did not write the questioned entries on Q1. In order to complete this examination it will be necessary to obtain additional normal course of business writings of Carmine Lorenzo (K1) and the original of Q1.
BF9J9C	1. The writer of item K1 wrote Q1 excluding the "I feel justified...Goodbye" handwriting. This writer did not write the excluded handwriting. 2. The writer of item K2 wrote the "I feel justified...Goodbye" handwriting on Q1. This writer did not write any of the remaining handwriting. 3. The writer of item K3 did not write any of the handwriting on Q1.
BMR44B	Carmine Lorenzo produced the questioned writing on Item 1 (Q1).
BPSX98	The file manuscript texts in the document marked "Q1" are identified with the writings of Mr Lorenzo Carmine (K1), with the exception of the texts "I feel justified interminating my life which is no longer month living."GoodBye.", in the middle of the note in question; which are identified with the spellings to name of Dan (K2)." Finally, the suicide note presents writings by hand two people (K1 and K2). [sic]
BVDNW3	1. The questioned Suicide Note (Item Q1) dated August 15, 2009 was written by the writer of the known writings (Item K1a-b). 2. The questioned Suicide Note (Item Q1) dated August 15, 2009 was not written by the writers of known writings (Items K2a-c and K3a-c).
BWW8U7	Carmine Lorenzo, Item 1B, prepared Item 1A. Dan, Item 1C, did not prepare Item 1A. Ann, Item 1D, did not prepare Item 1A.
C5S52E	The textbook presents graphic identity that contributed to the writings of Carmine Lorenzo (K1) and dan (K2), the last mentioned added the phrase "I feel Justified in terminating my life Which is not worth living longer good bye".[sic]
C6XWL4	The K2 writer (Dan) has been identified as the writer of two (2) sentences on Q1 - "I feel justified... Goodbye." He probably did not write the remainder of the note, Q1. The K1 writer (Carmine Lorenzo) probably wrote the remainder of the Q1 note. The K3 writer (Ann) probably did not write the unidentified portion of the note, Q1.
C8QAYV	An internal comparison was conducted on the Exhibit Q-1 document, resulting in evidence of multiple writers. Comparison of the submitted exhibits has resulted in the following conclusions: Carmine Lorenzo (K-1) wrote the questioned material on the Exhibit Q-1 letter excluding the following notation, "I feel justified in terminating my life which is no longer worth living. Goodbye." Dan (K-2) probably wrote the notation, "I feel justified in terminating my life which is no longer worth living. Goodbye." on the Exhibit Q-1 letter. Ann (K-3) did not write the questioned material on the Exhibit Q-1 letter.
CBX1M1	[Conclusions translated by CTS, "The first line to the sixth line of content in the note was written by Carmine Lorenzo as well as line number eight through the last line of the same note. Also line number six through line number eight was written by Dan. It should be clarified that it cannot be established who wrote the date of the note since there is not abundant comparison material."]
CMDS74	The suicide note referred to as Q1 was probably written by 2 writers. Most of Q1 probably was written by K1A and K1B. The line "I feel justified in terminating my life which is no longer worth living. Goodbye"

TABLE 2

WebCode	Conclusions
	was probably written by K2A, K2B and K2C. Need further exemplars for comparison.
CV8X15	It was determined that the note, Q1, (except for the words "I feel justified in terminating my life which is no longer worth living. Goodbye.") was written by Carmine Lorenzo, K1a-b. It was also determined that only the words "I feel justified in terminating my life which is no longer worth living. Goodbye." in the note, Q-1, were written by Dan, K2a-c. None of the writing on the note, Q-1, was written by Ann, K3a-c.
CWEFY1	1. Item Q1 IS CONSISTENT with item K1a-b. 2. Item Q1 IS NOT CONSISTENT with item K2a-c. 3. Item Q1 IS NOT CONSISTENT with item K3a-c.
DTQ881	All of the questioned text on Q-1 was written by Carmine Lorenzo (K1), except the two sentences mid-way through the letter reading "I feel justified in terminating my life which is no longer worth living. Goodbye." These two sentences exhibit evidence of crowding relative to the other text and appear to have been inserted into this space. These two sentences were written by "Dan" (K2).
DU5HAE	There is qualified support for the proposition that the questioned handwriting on the document marked Q1 was written by the writer of the specimen material in the name of Carmine LORENZO marked K1 (a & b). There is qualified support for the proposition that the questioned handwriting on the document marked Q1 was not written by the writer of the specimen material in the name of Dan marked K2 (a, b & c). In my opinion the questioned handwriting on the document marked Q1 was not written by the writer of the specimen material in the name of Ann marked K3 (a, b & c).
E3X6Y1	The questioned note of the suicide of augut[sic] 15, 2009 (document Q1), was written by CARMINE LORENZO (K1). The item K2a-c (Dan) and item K3a-c (Ann) was NOT WRITTEN by Carmine Lorenzo (item Q1, questioned suicide note from August 15, 2009).
ESB8E4	(i) There is qualified support for the proposition that the questioned handwriting Q1 was written by the writer of the comparison handwriting sample K1. This opinion level is used when there is at least one identifiable limitation associated with the examination process. The handwriting comparison was limited by the lack of quantity and compatibility of specimen material as well as the fact that a number of letter and numeral formations are not available for comparison in the questioned writing. (ii) There is qualified support for the proposition that the questioned handwriting Q1 was not written by the writer of the comparison handwriting sample K2. The handwriting comparison was limited by the fact that a number of letter and numeral formations are not available for comparison in the questioned writing. (iii) The questioned handwriting sample Q1 was not written by the writer of the comparison handwriting sample K3.
EUWA9Q	There is substantial evidence which indicates that the questioned hand printed line reading, "I feel justified in terminating my life which is no longer worth living. Goodbye.", was probably produced by the writer of the K2 (Dan) exemplars. Although this is not a conclusive identification, there are sufficient similarities to establish a strong likelihood that the writer of the K2 exemplars produced this line, excluding the remainder of the questioned note. There is substantial evidence which indicates that the remaining hand printing on the questioned note was probably produced by the writer of the K1 (C. Lorenzo) exemplars.
FABB7C	It is probable the writer of K1 wrote Q1. It is probable the writer of K2 did not write Q1. The writer of K3 was eliminated as the writer of Q1.
FHUQ1A	Based on the side by side comparisons of the writing located on the questioned letter (Q1) to the known submitted samples listed above it is my opinion that: The following opinions are qualified in that they are based on machine reproductions of both known and questioned items. (1) There is common authorship (same writer) between the writing located on Q1 and the known writing standards of Carmine Lorenzo (K1A-K1B). Except in the section of Q1 which starts in part "I feel..." and ends, "Goodbye." In the section of the Q1 letter which starts in part, "I feel..." and ends, "Goodbye." there is common authorship between the writing in this section and the known standards of Dan (K2A-K2C).
FK7LAG	The questioned Q1 suicide note excluding the sentence "I feel justified in terminating my life which is no longer worth living. Goodbye.", was probably written by the writer of Item K1a-b (Carmine Lorenzo). A qualified opinion is necessary regarding this writer because the known sample was limited and the questioned and know[sic] documents are photographs rather than original documents. The sentence "I feel justified in terminating my life which is no longer worth living. Goodbye.", on the Q1 suicide note was probably written by the writer of Item K2a-c (Dan). A qualified opinion is necessary in this case because

TABLE 2

WebCode	Conclusions
	the questioned and known documents are photographs rather than original documents and the questioned material is a limited amount of writing. The questioned Q1 suicide note was not written by the writer of K3a-c (Ann).
FL9BHV	The Q1 document was written by the K1 author and not by either the K2 or K3 authors.
FMMY3V	There is conclusive evidence that the suicide note was written by Carmine Lorenzo.
FNZMMV	I have concluded that the only reasonable explanation for my findings is that Carmine Lorenzo wrote the main bulk of Q1; that is all but the entry 'I feel justified in terminating my life which is no longer worth living. Goodbye.' I have concluded that neither Dan nor Ann wrote the main bulk of Q1. I have concluded that there is very strong support for the view that Dan wrote the entry 'I feel justified in terminating my life which is no longer worth living. Goodbye.' on Q1. I have concluded that there is very strong support for the view that neither Carmine Lorenzo nor Ann wrote the entry 'I feel justified in terminating my life which is no longer worth living. Goodbye.' Scale of Conclusions: Definite; Very strong support wrote/did not write; Strong support wrote/did not write; Moderate support wrote/did not write; Inconclusive.
FPAA21	The purpose of the examination was to determine whether a suicide note (K-1)[sic] was printed by one of three individuals. The individuals were identified as the K-1 (the decedent), K-2 (a business partner), and K-3 (a secretary). At this juncture of the examination, it cannot be determined whether the writer K-1 or K-2 printed the suicide note. Writer K-3 can be eliminated. The reason that it is inconclusive is due to an insufficient amount of specimen printing from K-1. Similarities and (apparent) differences can [sic] found between the note in question and the printing of K-1 and K-2. The printing of both individuals is similar, therefore, further discrimination is necessary. The lack of K-1 specimen printing does not allow adequate determination of the writer's range of variation of specific letter forms to adequately determine whether a feature is a variation simply not found in the limited specimens or is a difference. It is recommended that additional specimens of the decedent's printing (K-1) be submitted.
FRH4RX	Through the use of accepted forensic document examination tools, principles, and techniques, it is my professional opinion after careful examination; the authors of the K2 and K3 specimens are not the author of the Questioned document, and I find that the author of the K1 specimens is the same author of the Questioned document, and this is based on the evidence I have been provided.
G12ERC	Due to the presence of characteristics in the questioned writing not accounted for in the available known writing or the lack of comparability, it could not be determined whether the item Q1 questioned writing was prepared by CARMINE LORENZO, the writer of item K1(a-b), DAN, the writer of item K2(a-c), or ANN, the writer of item K3(a-c). However, the following was observed: Characteristics were observed which indicate that the item Q1 questioned writing, excluding the entry "I feel justified in terminating my life which is no longer worth living. Goodbye." may have been prepared by CARMINE LORENZO, the writer of item K1(a-b). In addition, characteristics were observed which indicate that the item Q1 questioned entry "I feel justified in terminating my life which is no longer worth living. Goodbye." may not have been prepared by CARMINE LORENZO, the writer of item K1(a-b). Characteristics were observed which indicate that the item Q1 questioned entry "I feel justified in terminating my life which is no longer worth living. Goodbye." may have been prepared by DAN, the writer of item K2(a-c). Furthermore, characteristics were observed which indicate that the item Q1 questioned writing, excluding the entry "I feel justified in terminating my life which is no longer worth living. Goodbye." may not have been prepared by DAN, the writer of item K2(a-c). Characteristics were observed which indicate that the item Q1 questioned writing, may not have been prepared by ANN, the writer of item K3(a-c).
G4G18Y	Findings strongly support the proposition that questioned note's handwriting is consistent with the handwriting of Carmine Lorenzo. Thus it is our assessment that the author of the questioned note is Carmine Lorenzo.
G8G3JT	The known writer "Carmine Lorenzo" (K-1) is the author of the questioned writing (Q1). It is highly probable that "Dan" of the K-2 known writing is not the author of the questioned writing (Q1). The known writer "Ann" (K3) is not the author of the questioned writing (Q1).
GB5EHY	1. The person who wrote writings K1a, K1b also wrote the writings Q1. 2. The person who wrote writings K2a, K2b, K2c did not write the writings Q1. 3. The person who wrote writings K3a, K3b, K3c

TABLE 2

WebCode	Conclusions
	did not write the writings Q1.
GEQG95	Due to the lack of sufficient comparability and the presence of characteristics in the questioned writing not accounted for in the available known writing, no definite conclusion could be reached whether the questioned writing on Item Q1 was or was not prepared by writer Item K1a-b, writer Item K2a-c, or writer Item K3a-c. However, characteristics in common were observed to indicate the writer of Item K1a-b may have prepared the questioned writing on specimen Q1 excluding the sentences "I feel justified in terminating my life which is no longer worth living. Goodbye." Characteristics indicate Item K1a-b may not have prepared those two sentences. Characteristics in common were observed to indicate writer Item K2a-c may have prepared the sentences "I feel justified in terminating my life which is no longer worth living. Goodbye." Characteristics indicate writer Item 2a-c may not have prepared the remaining writing on Item Q1. Inconsistencies were observed when comparing the questioned writing on Item Q1 with the Item K3a-c, to indicate she may not have prepared that writing.
GG61Z1	1) In my opinion the questioned handwriting contained within the document marked Q1 was written by the writer of the specimen material marked K1a and K1B. 2) In my opinion the questioned handwriting contained within the document marked Q1 was not written by the writers of the specimen material marked K2a to K2c and K3a to K3c.
GGDT8A	It was determined that ANN, the writer of Item K3a-c, did not prepare the questioned writing on Item Q1. A definite determination could not be reached whether CARMINE LORENZO, writer of Item K1a-b, or DAN, writer of Item K2a-c, did or did not prepare the questioned writing on Item Q1 due to limited comparability and handwriting characteristics in the questioned writing not explained in the available known writing. However, handwriting characteristics indicate that CARMINE LORENZO, writer of Item K1a-b, may have prepared the majority of the questioned writing on Item Q1 (excluding "I feel justified in terminating my life which is no longer worth living. Goodbye."). In addition, handwriting characteristics indicate that DAN, writer of K2a-c, may have prepared the questioned writing on Item Q1 beginning "I feel justified in terminating my life which is no longer worth living. Goodbye." Should future handwriting comparisons be requested, extensive undictated known writing should be obtained from CARMINE LORENZO, Item K1a-b, additional dictated and undictated known writing from DAN, Item K2a-c, and dictated and undictated known writing from anyone else suspected of having prepared the questioned writing should be submitted to this laboratory.
GMLJBF	A definite determination could not be reached as to whether the questioned writing on the suicide note, item Q1, was or was not prepared by CARMINE LORENZO, writer of item K1a-b, DAN, writer of item K2a-c, or ANN, writer of item K3a-c, due to the presence of characteristics in the questioned writing which were not observed in the available known writing. However, characteristics in common were observed between the questioned writing and the known writing of CARMINE LORENZO, K1a-b, which indicate LORENZO may have prepared [sic] majority of the writing on item Q1. In addition, characteristics in common were observed in the line beginning "I feel justified..." and ending "Goodbye" and the known writing of DAN, K2a-c, which indicate DAN may have prepared this portion of Item Q1. Inconsistencies were observed between the questioned writing on item Q1 and the known writing of ANN, K3a-c, which indicate ANN may not have prepared the writing on item Q1. If future examinations are desired, additional known writing should be obtained from LORENZO, DAN, ANN, or any other logical subject(s). The known writing should be comparable to the questioned writing in wording and format. Dictated known writing should be obtained on separate sheets of lined paper similar to the questioned specimens, and should be removed from the writer's view upon completion. Numerous repetitions may be necessary in order to obtain naturally prepared writing. Undictated known writing consists of handwriting prepared during normal course of business activity. Possible sources of undictated known writing include business papers, letters, and/or applications.
GP4MSQ	Examination and comparison of questioned item #Q1 with known items #K1a-b, #K2a-c, and #K3a-c resulted in the following conclusions: It is the opinion of the undersigned that the questioned writing on item #Q1 was probably written by the writer of items #K1a-b, Carmine Lorenzo. It is the opinion of the undersigned that the questioned writing on item #Q1 was probably NOT written by the writer of items #K2a-c, Dan. It is the opinion of the undersigned that the questioned writing on item #Q1 was NOT written by the writer of items #K3a-c, Ann. If additional course-of-business writing of Carmine Lorenzo and Dan can be obtained, further examination would be warranted.

TABLE 2

WebCode	Conclusions
GSTSWR	A stroke by stroke comparison has been made between the individual writing characteristics found in the Questioned suicide note and the submitted exemplars attributed to writers K-1, K-2 and K-3. Based on my findings, it is my opinion that the suicide note, Q-1, was written by the same person who authored K-1a and K-1b.
GT79XB	It was determined that ANN, writer of Item K3a through K3c, did not prepare the questioned writing on Item Q1. Due to the presence of characteristics in the questioned writing that are not accounted for in the available known writing, and the lack of dictated known writing of CARMINE LORENZO, Item K1a and Item K1b, a definite determination was not reached whether CARMINE LORENZO, writer of Item K1a and Item K1b, or DAN, writer of Item K2a through Item K2c, prepared the questioned writing on Item Q1. However, characteristics in common were observed which suggest that CARMINE LORENZO, Item K1a and Item K1b, may have prepared the questioned writing on Item Q1, excluding the lines beginning "I feel..." and ending "Goodbye." and DAN, Item K2a through Item K2c, may have prepared the questioned lines beginning "I feel..." and ending "Goodbye." on Item Q1.
GWMVEX	Evidence was found to indicate that more than one writer is responsible for the questioned written text. The writer of the specimen writings submitted as K2a-K2c (Dan) is identified as the author of the questioned written entries, "I feel justified in terminating my life which is no longer worth living. Goodbye.", appearing on Q1. Evidence was found to indicate that the writer of the specimen writings submitted as K1-K1b (Carmine Lorenzo) probably authored the remainder of the questioned written entries appearing on Q1. However, there were some variations found that could not be adequately explained utilizing the limited amount of comparable specimen writings provided. Thus, a positive opinion could not be reached. The writer of the specimen writings submitted as K3a-K3c (Ann), did not author the questioned writings.
H1LHYC	Due to the presence of characteristics in the questioned writing which could not be accounted for in the available known writing, and the lack of sufficient comparable known writing from Carmine Lorenzo, the writer of Item K1a-b, it could not be determined whether Carmine Lorenzo, the writer of Item K1a-b, Dan, the writer of Item K2a-c, or Ann, the writer of Item K3a-c, did or did not prepare the questioned writing on Item Q1. However, from the comparisons which could be conducted, handwriting characteristics in common were observed which indicate that Carmine Lorenzo, the writer of Item K1a-b, may have prepared the questioned writing on Item Q1, excluding the following sentences: "I feel justified in terminating my life which is no longer worth living. Goodbye." Significant handwriting characteristics in common were observed which indicate that Dan, the writer of Item K2a-c, may have prepared the questioned sentences: "I feel justified in terminating my life which is no longer worth living. Goodbye." Differences were observed when comparing the Item Q1 writing with the known writing of Ann, the writer of Item K3a-c, to indicate she may not have prepared the questioned writing.
H39UYJ	A definite determination could not be reached whether the questioned writing appearing on Item Q1 was prepared by the Item K1 through Item K3 writers due to unexplained variations, limited comparability in the Item K1 writing, and lack of undictated Item K writing. However, significant characteristics were observed that indicate the questioned writing excluding the sentences "I feel justified in terminating my life which is no longer worth living. Goodbye." may have been prepared by the Item K1 writer. Additionally, significant characteristics were observed that indicate the sentences "I feel justified in terminating my life which is no longer worth living. Goodbye." may have been prepared by the Item K2 writer. Further, significant characteristics were observed that indicate the questioned writing may not have been prepared by the Item K3 writer. If future examinations are desired, dictated known writing should be obtained from the Item K2 and K3 writers. The known writing should be hand printed and comparable to the questioned writing in wording and format. Dictated known writing should be obtained on separate sheets of lined paper similar to the questioned specimen, and should be removed from the writer's view upon completion. Numerous repetitions may be necessary in order to obtain naturally prepared writing. Additionally, undictated writing should be obtained for the Item K1 writer. Undictated known writing consists of handwriting prepared during normal course of business activity. Possible sources of undictated known writing include business papers, letters, canceled checks, and/or applications.
H414GY	(a) Since there were both significant similarities and differences observed between the questioned suicide note (Q1) and the known writings on items K1a and K1b (Carmine Lorenzo), and the amount of known writings of victim (Carmine Lorenzo) available for comparison was not sufficient, therefore, I cannot

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	determine whether or not the writer of the known writings on items K1a and K1b (Carmine Lorenzo) wrote the questioned suicide note (Q1). (b). Although there were significant differences observed between the questioned suicide note (Q1) and the known writings on items K2a, K2b and K2c (Dan), due to the presence of significant similarities observed in the writing features of the questioned writings (Q1) particularly on the following sentences, "I feel justified in terminating my life which is no longer worth living. Goodbye." to those in the known writings on items K2a and K2b, I am therefore of the opinion that the possibility that the writer of the known writings on items K2a, K2b and K2c (Dan) wrote the questioned suicide note (Q1) cannot be eliminated. (c). Based on the significant differences between the questioned suicide note (Q1) and the known writings on items K3a, K3b and K3c (Ann) in their writing style, letter size and letter formation, I am therefore of the opinion that the questioned suicide note (Q1) was not written by the writer of the known writings on items K3a, K3b and K3c (Ann).
HG8VC5	The evidence would strongly support the proposition that the disputed handwriting in Q1 was written by Carmine Lorenzo (K1) - excluding the words "I feel justified...Goodbye". The evidence would strongly support the proposition that the words "I feel justified...Goodbye" were written by Dan (K2). There is no evidence to show that Ann (K3) wrote any of the disputed writing.
HKNGUR	The disputed document marked Q1 and the known writing marked K1 a-b were written[sic] by the same person.
HKW7CA	A definite determination could not be reached whether CARMINE LORENZO, K1a-b, DAN, K2a-c, or ANN, K3a-c, prepared the questioned writing on item Q1, due to limited comparable known writing and characteristics in the questioned writing which could not be accounted for on the basis of the available known writing. However, characteristics in common indicate that LORENZO, K1a-b, may have prepared the questioned writing on item Q1, with the exception of the sentences "I feel justified in terminating my life which is no longer worth living. Goodbye." Characteristics indicate that LORENZO may not have prepared these two sentences. Characteristics in common indicate that DAN, K2a-c, may have prepared the sentences "I feel justified in terminating my life which is no longer worth living. Goodbye." on item Q1. Characteristics indicate that DAN may not have prepared the remaining writing on item Q1. Characteristics indicate that ANN, K3a-c, may not have prepared the questioned writing on item Q1.
HMCTUW	We identify the deceased person Carmine Lorenzo as the writer of the questioned suicide note.
HMG87X	There is graphic identity among the writings[sic] made on the questioned note Q1 and items K1a-b.
HNK3HB	1. It is very probable that questioned note Q-1 and the K-1 standards were written by one and the same person. 2. It is unlikely that the author of the K-2 standards wrote questioned note Q-1. 3. The author of the K-3 standards can be eliminated as having written questioned note Q-1.
HNVLZ1	CARMEN[sic] LORENZO (K-1) printed suicide note Q-1. Based upon the items submitted, DAN (K-2) did not print suicide note Q-1. Based on the items submitted, ANN (K-3) did not print suicide note Q-1.
HWQRT2	The writings on Q1 (except for the sentence "I feel justified...Goodbye.") was produced by the writer of the exemplars K1. The writings "I feel justified...Goodbye." on Q1 were produced by the writer of exemplars K2. The writings on Q1 were not produced by the writer of exemplars K3.
JUSMRD	As a result of this comparison study, based on the documents supplied and applying principles of handwriting identification, it is the opinion of this examiner that: The author of the alleged suicide note (Q1) is the same author as the knowns provided for Dan (K2a, K2b, K2c). There are many similarities between the suicide note and the knowns (K1a, K1b) provided for Carmine Lorenzo, however, there are letter combinations in complete words found in Dan's knowns that are almost identical to those same words in Q1 suicide note. Further, there was a significant difference (letter "d") found in the suicide note (Q1) that was not found in the knowns (K1a, K1b) provided for Carmine Lorenzo.
JW9AF8	Carmine Lorenzo is identified as the writer of the questioned writing with the exception of the sentence "I feel justified in terminating my life which is no longer worth living. Goodbye." This sentence was probably written by K2-Dan. Mr. Lorenzo and K2-Dan bore similar writing styles however subtle features within the writing habits differed including in part; letter connections, size of writing, letter formations and spacing, distinguished the writers. Several writing features observed in the sentence beginning "I feel justified..." ending with "Goodbye" were only present in the writing of K2-Dan.

TABLE 2

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K4LRN8	The alleged suicide note (Exhibit 1Q); when examined, was found to be a composite writing made by at least two different writers. Differing design and style of writing characteristics showed one writer was involved in writing the two main paragraphs of the note. A different writer was involved in writing the sentence, "I feel justified in terminating my life which is no longer worth living. Good-bye." Crowding and length of the "I feel justified in terminating my life..." sentence line towards the side edge of the paper indicate that the sentence may have been inserted after the two main paragraphs were written. Based on comparison of the writings of these individuals, it was determined that the author of K2a-c, Dan, probably wrote the "I feel justified in terminating my life which is no longer worth living. Goodbye." sentence interlined in between the two main paragraphs of the note. There are indications the author of K1a-b, Carmine Lorenzo, may have written the two main paragraphs of the note; however, additional known writings from him are needed for a more comprehensive examination of all the writings. The author of K3a-c, Ann, did not write any portions of the questioned note.
KDXM8C	Dan (K2) wrote the questioned entry, "I feel justified in terminating my life which is no longer worth living. Goodbye." on Exhibit Q1. Carmine Lorenzo (K1) probably wrote the remaining questioned hand printing (excluding the date) on Exhibit Q1. However, the absence of sufficient directly comparable known writing precludes a definite conclusion. The submission of additional collected known writing containing the same or similar letter combinations may be helpful. No conclusion could be reached regarding Carmine Lorenzo (K1) or Dan (K2) and the date on Exhibit Q1. This entry was limited in nature and contained characteristics that could not be resolved based on the known writing submitted. There is no evidence to indicate that Ann (K3) wrote any of the questioned hand printing on Exhibit Q1.
KMRUT4	Based on the evidence submitted, it is highly probable the author of Item K1a-b, Carmine LORENZO, prepared Item Q1. A definite conclusion could not be rendered due to the limited amount of known handwriting of Mr. LORENZO available for comparison. If additional known handwriting samples could be obtained of Mr. LORENZO then another examination would be possible. It is probable the author of Item K2a-c, Dan, did not prepare Item Q1. It was concluded the author of Item K3a-c, Ann, did not prepare Item Q1.
L9SHRD	With the exception of the portion "I feel justified" through "Goodbye." the writer of K1a-b (Carmine Lorenzo) prepared the entries depicted in Q1. The writer of K2a-c (Dan) prepared the "I feel justified" through "Goodbye." portion of Q1.
LLVKNT	While Lorenzo (K1) probably wrote the entries as depicted on Q1, the lack of sufficient known writing from Lorenzo (K1) precludes a more definite conclusion concerning authorship at this time. Due to various differences in handwriting habit patterns, Dan (K2) probably did not write the entries as depicted on Q1. Ann (K3) did not write any entries as depicted on item Q1. Remarks: The submission of additional known handprinting from Lorenzo (K1) may result in a more definite conclusion concerning authorship of the Q1 item. The submission of additional known "course of business" writing from Dan (K2) may result in a definitive elimination as the writer of the entries depicted on item Q1.
LNSJ51	It has been concluded that Carmine Lorenzo (K1) did not write the questioned entry on the Exhibit Q1 item stating "I feel justified in terminating my life which is no longer worth living. Goodbye." It has been determined that Carmine Lorenzo (K1) probably wrote the remainder of the questioned writing appearing on the Exhibit Q1 item. It has been concluded that Dan (K2) wrote the questioned entry stating "I feel justified in terminating my life which is no longer worth living. Goodbye." It has also been concluded that Dan (K2) did not write the remainder of the questioned material appearing on the Exhibit Q1 item. It has been concluded that Ann (K3) did not write any of the questioned material appearing on the Exhibit Q1 item.
LPA65E	The writing depicted on the Q-1 letter was probably written by Carmine Lorenzo. The writing depicted on the Q-1 letter was not written by the K-2 or K-3 writer.
LUGZZA	Questioned suicide note from August 15, 2009 was written by Carmine Lorenzo. It was not written by business partner and co-owner (Dan) or secretary (Ann).
LY93QW	Contributor number two, "Dan", is identified as the author of the questioned writings, "I feel justified in terminating my life which is no longer worth living. Goodbye.", appearing in the body of text on Q1. Evidence was found to indicate contributor number one, "Carmine Lorenzo", probably authored the remaining questioned writings, including, "August 15, 2009...I have caused you all." and "Please

TABLE 2

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	remember only the good times...continue on my journey.", appearing on Q1. However there were some variations noted that could not be adequately explained utilizing the specimen writings provided. Therefore a positive opinion could not be reached. It is recommended that additional comparable specimen writings be obtained from this contributor in the form of collected writings written during the normal course of business and submitted for further examination.
LZTNYL	The questioned document was written by K1 a-b. I therefore reach a conclusive opinion basing[sic] on the material supplied.
M4FUS3	There is a strong probability that Lorenzo Carmine wrote the questioned hand printed entries on Item Q1. This opinion is based on the notation of significant similarities, a lack of differences, and some unexplained variations. Dan probably did not write the questioned hand printed entries on Item Q1. This opinion is based on the notation of some differences, some similarities, and some unexplained variations. Ann did not write the questioned hand printed entries on Item Q1. This opinion is based on the notation of significant differences and some similarities. If a further examination is desired, numerous additional collected hand printed standards should be collected from the victim in this case as well as additional collected and requested hand printing from Dan.
M7APL2	Q1 was probably written by Carmine Lorenzo. Q1 was probably not written by either Dan or Ann. The examination was limited by the amount of comparable known writing submitted for comparison, especially that of Carmine Lorenzo. The examination of additional known writing of the writers, especially that of Carmine Lorenzo, may provide the basis for a more conclusive opinion as to authorship.
MEMSNU	1) Request additional standards of K1. 2) It is more likely, base upon the standards provided, that the Q1 note was written by the author of the K2 handwriting standards.
MHS85Y	The Q1 handwritings seem to be written by the deceased Carmine Lorenzo. However, we must be careful on our conclusion, as the submitted items are copies of the originals, and not the originals themselves.
MKFK44	On examination, I noted significant differences in stroke quality, word spacing and the formation of alphabet letters between the handwriting of the sentence: 'I feel justified in terminating my life which is no longer worth living. Goodbye.' and the rest of the handwriting in 'Q1'. * I noted significant similarities in stroke quality and the formation of alphabet letters and numerals between the specimen handwriting in 'K1' and most of the questioned handwriting, except the questioned handwriting of the sentence 'I feel justified in terminating my life which is no longer worth living. Goodbye.' in 'Q1'. In my opinion, the writer of the specimen handwriting in 'K1' wrote most of the handwriting, except the handwriting of the sentence 'I feel justified in terminating my life which is no longer worth living. Goodbye.' in 'Q1'. ** I noted significant similarities in stroke quality and the formation of alphabet letters between the specimen handwriting in 'K2' and the questioned handwriting of the sentence 'I feel justified in terminating my life which is no longer worth living. Goodbye.' in 'Q1'. In my opinion, the writer of the specimen handwriting in 'K2' wrote the handwriting of the sentence 'I feel justified in terminating my life which is no longer worth living. Goodbye.' in 'Q1'. I noted significant differences in stroke quality and the formation of alphabet letters and numerals between the questioned handwriting in 'Q1' and the specimen handwriting in 'K3'. In my opinion, the writer of the specimen handwriting in 'K3' did not write the handwriting in 'Q1'.
MKYH73	Dan, the writer of the exemplars labeled "K2," is identified as the writer of the questioned note, "Q1."
ML7UMJ	A portion of the questioned text which begins with the words "I feel" and up to and including the word "Goodbye" was written by the K2 writer[sic]. There is also evidence that suggest that the K1 writer probably prepared the writing on the remainder of the questioned letter (Q1). I can find no evidence which suggests that the K3 writer prepared any of the questioned letter (Q1).
MNV6LQ	1) The questioned handwriting on the suicide note was written by the writer of the comparison Carmine Lorenzo handwriting sample. 2) The questioned handwriting on the suicide note was not written by the writer of the comparison Dan handwriting sample. 3) The questioned handwriting on the suicide note was not written by the writer of the comparison Ann handwriting sample.
N4MCMW	The questioned writing on the suicide note was written by two persons. Carmine Lorenzo wrote most of the note, with the expection[sic] of the sentence: "I feel justified interminating[sic] my life which is no longer worth living. Goodbye". This sentence was added by his business partner Dan, giving a sample farewell letter the character of a text written by a suicidal man.

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NAQA3N	1. Carmine Lozano[sic], author of the Item K1 (&b) nonrequest writing, is the writer of the Item Q1 document with the exception of the following material: "I feel justified in terminating my life which is no longer worth living. Goodbye." 2. Dan, author of the Item K2(a-c) request and nonrequest[sic] writing, is the writer of the Item Q-1 sentences "I feel justified in terminating my life which is no longer worth living. Goodbye."
NE4W6T	In our opinion, we think that "the questioned suicide note from August 15, 2009" (Q1) was written by Carmine Lorenzo (K1). In our opinion, we think that "the questioned suicide note from August 15, 2009" (Q1) was not written by Dan (K2). In our opinion, we think that "the questioned suicide note from August 15, 2009" (Q1), was not written by Ann (K3).
NHJHND	There are a number of similarities and no significant differences between the questioned handwriting "I feel justified... Goodbye" and the known handwriting of Dan (K2a-c). The nature of the similarities is such that it is highly probable that Dan is responsible for the specified handwriting. By 'highly probable', we consider it very unlikely that another individual is responsible. There is no evidence that Dan is responsible for the remaining handwriting on the suicide note. There are a number of similarities and a few differences between the handwriting on the suicide note, with the exception of the entries "I feel justified... Goodbye". Even allowing for the fairly limited amount of directly comparable material, the nature of the similarities is such that it is probable that Carmine Lorenzo is responsible for the bulk of the suicide note. By probable, we consider it unlikely that another individual is responsible. And the known handwriting[sic] of Carmine Lorenzo. There is no evidence that Carmine Lorenzo is responsible for the handwriting "I feel justified... Goodbye." There is no evidence that Ann (K3a-c) is responsible for any of the handwriting on the suicide note.
NNX2ZU	On the basis of the submitted items for examination, Carmine Lorenzo (K1) and co-owner Dan (K2) can neither be identified nor eliminated as preparing the questioned suicide note (Q1). Secretary Ann (K3) probably did not write the questioned suicide note (Q1).
NQZCKV	Once the material questioned handwriting analysis compared with standard documents and samples {manuscripts}, it is shown the graphical {multiple authors} Carmine Lorenzo and his partner Dan in Q1 document based on the following findings: Aspects identified {graphonomic} CARMINE manuscripts: The location of the manuscript text against the left, the ancillary signs and punctuation in the material under analysis (Q1) questioned, compared with standard documents are different in height and position, the location of the letter V word "have" face lift line of the script, is located higher up in Q1 document, a feature seen in the standard samples K, the abreaction of the ovals of the letters "a" is presented by area right where also in this case is done at the same time the barrage of the sign. It is equally characteristic of standard samples against dubious material, the cohesion between the letters "t" and "i", likewise between the letters "t" and "h". On the other hand and observing the manuscript text "I feel justified in terminating my life which is no longer worth living. Good bye" located in lines 10 and 11 of document Q1, these are identified with the graphic production partner Dan, based on samples collected K2, such as: interverbal separation, cohesion between signs and abreaction of its signs ovalares. [sic] [Words in { } translated from Spanish to English by CTS.]
NVU6HX	The textbook presents graphic identity that contributed to the writings of Carmine Lorenzo (K1) and dan (K2), the last mentioned added the phrase "I feel Justified in terminating my life Which is not worth living longer good bye".[sic]
NXHHG3	The content of the format (Q1) they have the same clerk with the texts elaborated by Mr. Carmine Lorenzo (K1), clarifying that the line that corresponds to the text i feel" captured in the half part of the questioned text, they proceed with the samples hand written with the graphs of they Give (K2). [sic]
NYTGDW	According to the analysis to the suicide letter success set that it was drawn up by Mr Lorenzo Carmine with the exception of paragraph "I feel Justified in terminating my life Which is not worth living longer good bye", featuring matching {graphonomic} aspects to Mr writing Dan.[sic] [Words in { } translated from Spanish to English by CTS.]
PG12S1	A finalised opinion for K1 and K2 has not been provided at this stage due to the internal inconsistencies that were observed within the body of Q1, when Q1 was individually compared to K1 and then K2. Based on letter construction, letter connections, baseline habits and spacing, it appears that the body of

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	<p>writing within Q1 contains tainted entries, specifically 'I feel justified in terminating my life which is no longer worth living. Goodbye.' These entries do not appear to have been completed by the same person who has completed the remainder of the handwritten entries within Q1. At this point in the examination, it would appear that the handwritten entries within Q1, namely 'I feel justified in terminating my life which is no longer worth living. Goodbye.' have probably been completed by the writer of K2 (Dan) and the remaining handwritten entries within Q1 have probably been completed by the writer of K1 (C. Lorenzo). However, further examination is warranted before an opinion can be finalized due to the likelihood that Q1 does contain tainted entries and that current resources do not permit the necessary examination time to undertake a comprehensive comparison of the submitted documentation.</p>
PTGTFL	<p>Using magnification, I have analyzed, compared and evaluated the handwriting characteristics of the Questioned and Known signatures of Carmine Lorenzo as well as the known writings of Dan and Ann. I have found there are significant similar habitual characteristics that are apparent in the Questioned and Known signatures. Upon conclusion of this report, it is my opinion within a reasonable degree of scientific and professional certainty, that the signature in Question is probably the genuine signature of Carmine Lorenzo.</p>
Q5Y9BL	<p>EVIDENCE SUBMITTED: 001 - ITEM Q1: Questioned suicide note from August 15, 2009. 002 - ITEM K1a-b: Known writings of deceased, Carmine Lorenzo. 003 - Item K2a-c: Known writings of business partner and co-owner, Dan. 004 - Item K3a-c: Known writings of secretary Ann. RESULTS OF EXAMINATION: 1. Inter-comparison examination and analysis between the Questioned handwriting appearing on Submission #001 and the handwriting (reportedly) authored by Carmine Lorenzo appearing on Submission #002 revealed several similarities in individual handwriting characteristics and habits. Based upon these similarities it is the opinion of the undersigned that it is probable that the Questioned handwriting and the handwriting (reportedly) authored by Carmine Lorenzo share common authorship. The term "probable" is used in the sense that although the evidence points rather strongly that the Questioned handwriting and the handwriting (reportedly) authored by Carmine Lorenzo share common authorship, the fact that all items appearing in Submission #002 are not originals and the limited amount of Questioned and (reported) Known handwriting authored by Carmine Lorenzo precludes rendering any stronger opinion in this matter. 2. Inter-comparison examination and analysis between the Questioned handwriting appearing on Submission #001 and the handwriting (reportedly) authored by Dan appearing on Submission #003 revealed several similarities in the individual handwriting characteristics and habits. However, there are several dissimilarities also. Based upon these dissimilarities it is the opinion of the undersigned that it is probable that the Questioned handwriting and the handwriting (reportedly) authored by Dan do not share common authorship. The term "probable" is used in the sense that although the evidence points rather strongly that the Questioned handwriting and the handwriting (reportedly) authored by Dan do not share common authorship, the fact that all items appearing in Submission #003 are not originals and the limited amount of Questioned and (reported) Known handwriting authored by Dan precludes rendering any stronger opinion in this matter. 3. Inter-comparison examination and analysis between the Questioned handwriting appearing on Submission #001 and the handwriting (reportedly) authored by Ann appearing on Submission #004 revealed several dissimilarities in individual handwriting characteristics and habits. Based upon these dissimilarities it is the opinion of the undersigned that the Questioned handwriting and the handwriting (reportedly) authored by Ann do not share common authorship. REMARKS: 1. Should additional handwriting exemplars provided by Carmine Lorenzo and Dan become available and if requested, further examination by this Laboratory will be conducted. 2. All items submitted for examination have been photocopied and are being returned with a copy of this report.</p>
QEEF19	<p>It was determined that the questioned writing on Item Q1 was not prepared by the writer of Item K3a-c. A definite determination could not be reached whether the questioned writing on Item Q1 was prepared by the writers of Items K1a-b and K2a-c due to the presence of characteristics in the questioned writing that could not be accounted for in the available known writing. However, significant handwriting characteristics were observed that indicate the writer of Item K1a-b may have prepared a majority of the questioned writing on Item Q1, excluding the portion beginning "I feel justified..." and ending "Goodbye." In addition, handwriting characteristics were observed that indicate the writer of Item K2a-c may have prepared the portion of the questioned writing on Item Q1 beginning "I feel justified..." and ending "Goodbye." If future examinations are desired, additional undictated known writing should be obtained and submitted from the writers of Items K1a-b and K2a-c. Undictated known writing consists of writing</p>

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	prepared during normal course of business activity. This known writing should be hand printed and should contain the same words and/or letter combinations as the questioned writing. Possible sources of undictated known writing include business papers, letters, canceled checks, and/or applications.
QH YG V W	A study and comparison of the submitted exhibits has resulted in the following conclusions: It has been concluded that the author of the K2 specimens executed the "I feel justified in terminating my life which is no longer worth living. Goodbye." portion of the Exhibit Q1 letter. It has been concluded that the author of the K1 specimens probably executed the remaining material appearing on the Exhibit Q1 letter. It has been concluded that the author of the K3 specimens did not execute any of the questioned material on Exhibit Q1.
Q M U A T X	The questioned handwriting was a natural writing without any effect of intentional modification. There are [sic] lot of similarities between questioned handwriting and the specimen of Carmine Lorenzo. We found only such kind of differences which can be explained by the variability of handwriting. The only reason we gave probable report was our methodical rule: in that case when we examine non-original documents, we cannot exclude the technical forgery, we cannot examine hand pressure, the beginning and the ending of the strokes and some other features. That is why in these cases we do not give categorical identical reports.
Q Q T M P X	The questioned suicide note from august 15, 2009 was written by Carmine Lorenzo (K1).
R 5 X N K Z	1. Based on the combination of similarities such as style, skill, speed & fluency, slant, spacing, alignment, line quality, letter proportions, letter/numeral designs & constructions and letter connections observed between the specimen writing K1a-b and Q1, I have formed an opinion that the writer of the known writing in K1a-b wrote the questioned writing on Q1. 2. Based on the combination of differences in handwriting features such as skill, speed & fluency, line quality, spacing, letter/numeral designs & constructions and letter connections observed between the specimen writing K2a-c; K3a-c and Q1, I have formed an opinion that the writers of K2a-c and K3a-c did not write the questioned writing on Q1.
R 8 G P F L	There are indications Carmine Lorenzo authored the Q1 note. Dan can neither be identified nor eliminated as the author of the Q1 note. Ann probably did not author the Q1 note. The less than definitive findings are due to the lack of sufficient known writing from the subjects involved. Some additional known writings from all three subjects may help in a supplemental examination.
R M Y J V H	1. The writer of the specimen handprinting on Exhibits K1 (a,b) (Carmine Lorenzo) wrote the questioned handprinting on Exhibit Q1 (excluding "I feel justified in terminating my life which is no longer worth living. Goodbye.") 2. The writer of the specimen handprinting on Exhibits K2(a to c) (Don[sic]) wrote the questioned handprinted notation "I feel justified in terminating my life which is no longer worth living. Goodbye." on Exhibit Q1.
R S T D T J	[No Conclusions Reported.]
S P 5 2 T D	The K1, K2, and K3 writers can neither be eliminated or identified as having written the Q1 document. This is due to the fact that characteristics of both the K1 and K2 writers appear in the Q1 document. In addition, the K3 exemplars exhibit a formal style of writing which cannot be compared to the informal style of the Q1 document. Additional writing from the K1, K2, and K3 writers, to include any existing informal writing from the K3 writer, may provide for a more conclusive opinion.
S P W Y 9 Y	A definite determination could not be reached whether CARMINE LORENZO, the writer of Item K1a-b, DAN, the writer of Item K2a-c, or ANN, the writer of Item K3a-c, prepared the questioned writing on Item Q1 due to the lack of comparable known writing available for comparison and the presence of unexplained characteristics. However, some similarities were observed between the questioned writing and the known writing of DAN, Item K2a-c, to indicate DAN may have prepared the "I feel justified...Goodbye." portions of the questioned writing on Item Q1. Similarities also indicate LORENZO, Item K1a-b, may have prepared the remainder of the questioned writing on Item Q1. Inconsistencies were observed when comparing the known writing of ANN, Item K3a-c, to indicate ANN may not have prepared the known writing on Item Q1. If future handwriting examinations are desired, additional undictated as well as dictated and undictated known writing should be obtained from LORENZO, Item K1a-b, DAN, Item K2a-c, or any other logical suspects. The known writing should be hand printed and comparable to the questioned writing in wording and format. Dictated known writing should be obtained

TABLE 2

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	on separate sheets of lined paper similar to the questioned specimen and should be removed from the writers view upon completion. Numerous repetitions may be necessary in order to obtain naturally prepared writing. Undictated known writing consists of handwriting prepared during normal course of business activity. Possible sources of undictated known writing include business papers, letters, canceled checks and or applications. The submitted items have been initially assessed and observations have been recorded for future examination and comparison purposes.
SU643K	1. Whilst talking[sic] into account basic assessment categories, writings included in Q1 document demonstrate a number of conformities with known writings of deceased Carmine Lorenzo (K 1 a-b). Writings in Q 1 document was written by Carmine Lorenzo (K 1 a-b). 2. Handwritings in Q 1 document demonstrate differences in composition from the known writings of business partner and co-owner DAN (K 2 a-c) and known writings of secretary Ann (K 3 a-c). The differences concern the following characteristics: synthetics, topographics, measurable, motoric features, construction, letter linking and repeatable forms. Writings in Q 1 document was not written by business partner and co-owner DAN (K 2 a-c) and was not written by secretary Ann (K 3 a-c).
T1JC5L	Carmine Lorenzo, K1, has been identified as the writer of the questioned suicide note on item Q1. Strong dissimilarities were noted between both Dan, K2, and Ann, K3, and the questioned entries on Item Q1.
T3LG8X	This is strong probability that Carmine Lorenzo wrote the handwriting contained in the note, except for the handwriting in the line, "I feel justified in terminating my life which is no longer worth living. Goodbye." There is a strong probability that Dan wrote the handwriting contained in the line "I feel justified in terminating my life which is no longer worth living. Goodbye."
T83QRR	The comparative studies between known writings K1, K2 and K3 and questioned suicide note Q1 allow us to conclude that: The handwritings of the questioned suicide note Q1 have very probably been produced by deceased, Carmine Lorenzo (K1). They have very probably not been written by business partner and co-owner, Dan (K2) nor by secretary, Ann (K3). Regarding to the fact the questioned documents aren't original notes but photographs, we can't designate or exclude one of the comparison writers with assurance.
T95M54	Significant characteristics in common were observed in the questioned writing beginning "I feel justified..." and ending "...worth living. Goodbye" on Q1 when compared to the K2 writer Dan, to indicate that he probably prepared this writing; however, unexplained letter formations precluded a definite conclusion. A definite conclusion could not be reached with the K2 writer Dan and the remaining questioned writing on Q1; however, inconsistencies in letter formations were observed to indicate that he may not have prepared it. Significant differences in letter formations were observed in the questioned writing beginning "I feel justified..." and ending "...worth living. Goodbye" on Q1 when compared to the K1 writer Carmine Lorenzo to indicate that he probably did not prepare it; however, unexplained letter formations prevented any further conclusion. Characteristics in common were observed in areas of the remaining questioned writing on Q1 when compared to the K1 writer Carmine Lorenzo, to indicate that he may have prepared it; however, unexplained letter formations not resolved during the comparison precluded a definite conclusion. Differences in letter formations were observed in the questioned writing on Q1 when compared to the K3 writer Ann to indicate that she probably did not prepare it. Unexplained letter formations prevented any further conclusion.
TCFDQ3	Due to the presence of characteristics in the questioned writing that are not present in the available known writing, and the lack of sufficient comparable known writing from Carmine Lorenzo, the writer of Item K1a-b, it could not be determined whether Carmine Lorenzo, the writer of Item K1a-b, Dan, the writer of Item K2a-c, or ANN, the writer of Item K3a-c, prepared the questioned writing on Item Q1. However, significant characteristics in common were observed which indicate that Carmine Lorenzo, the writer of Item K1a-b, may have prepared the questioned writing on Item Q1, excluding the "I feel justified in terminating my life which is no longer worth living. Goodbye." sentences. Characteristics in common were observed which indicate that Dan, the writer of Item K2a-c, may have prepared the questioned "I feel justified in terminating my life which is no longer worth living. Goodbye." sentences. Differences were observed which indicate that Ann, the writer of Item K3a-c, may not have prepared the questioned writing on Item Q1.

TABLE 2

WebCode	Conclusions
TFVZ7N	[No Conclusions Reported.]
TJKABN	The questioned writing present on the note submitted in exhibit Q1 was not written by the author of K3A-C (Ann). No conclusion can be rendered on the questioned note submitted in exhibit Q1 when compared with K1A-B (Carmine Lorenzo) and K2A-C (Dan) as neither subject can be identified or eliminated. Additional known handwriting specimens are requested from Carmine Lorenzo in the form of non-requested verifiable normal course of business specimens (driver's license, bank signature card, cancelled checks, applications, letters, etc.) as this may provide a better basis for comparison.
TM1T2J	My opinion is rendered within a reasonable degree of professional certainty that the standards labeled K-1 were authored by the same hand as the document labeled Q-1. Based on the standards labeled K-2 and K-3, the authors of K-2 and K-3 have been eliminated in comparison with the document labeled Q-1.
TVNSTD	Comparison to K1: Quite a lot of similarities regarding for example the character, the line quality, the proportions, the slant and the letter designs. The results of the examination support that K1 is the writer of the suicide note. Comparison to K2: The results of the examination support to some extent that K2 is not the writer of the suicide note. Comparison to K3: A lot of differences regarding for example the character, the propositions, the layout and most of the letter designs. The results of the examination strongly support that K3 is not the writer of the suicide note.
TYV15F	The questioned suicide note Q1 of the deceased, Carmine Lorenzo, was compared with known writings of deceased (K1a-b), known writing on business partner an[sic] co-owner, Dan (K2a-c), and known writings of secretary, Ann (K3a-c). We found the handwriting in Q1 is similar to K1a-b based on the following observations. 1. The nature of the stroke lines in the letter formation. 2. The quality of handwriting. 3. Individual handwriting style. We conclude that the questioned suicide note Q1 was written by the deceased, Carmine Lorenzo.
U75PGT	In accordance with observations and comparisons developed countries it is concluded that the registration document of doubt Q1 participated in two of three persons investigated, depending on what each case are summarized below: Be visible manuscripts in the document Q1, except the phrase "I feel justified interminating my life which is no longer living mont. Goodbye.", identifies the embodied graphic gesture in samples comparison K1a and K1b, made by the deceased Lawrence Carmine pattern, thus conceived that these texts were written by Lawrence Carmine." The handwritten phrase "I feel justified interminating my life which is no longer living mont." "Goodbye." visible in the Q1, document's content identifies the embodied graphic gesture in samples comparison K2a, K2b and K2c, pattern provided by partner and co-owner Dan, therefore conceived this phrase was written by Dan. [sic]
UBHB9C	I find similarities between the questioned writing in Q1 and the reference writing of Carmine Lorenzo (K1) and Dan (K2). I have considered the following propositions: 1. Carmine Lorenzo (K1) has completed all/part the of questioned writing in Q1. 2. Dan has completed (K2) the questioned all/part of writing in Q1. 3. Some one else has completed the questioned writing in Q1. I find significant similarities between the questioned writing 'I feel justified in terminating my life which is no longer worth living. Goodbye.' in Q1 and the reference writing of Dan (K2). The similarities are such that, in my opinion, there is conclusive evidence to support the proposition that Dan (K2) has completed this part of the questioned writing in Q1. I consider the possibility of these similarities occurring given that either Carmine Lorenzo or someone else completed this entry to be so small it can be ignored. I find significant similarities between the remaining questioned writing in Q1 and the reference writing of Carmine Lorenzo. The similarities are such that, in my opinion, there is conclusive evidence to support the proposition that Carmine Lorenzo has completed all other entries on Q1 (i.e. excluding 'I feel justified in terminating my life which is no longer worth living. Goodbye.'). I consider the possibility of these similarites[sic] occurring given that either Dan (K2) or someone else completed all other entries (excluding 'I feel justified in terminating my life which is no longer worth living. Goodbye.') to be so small it can be ignored.
UQZFLZ	Due to the presence of characteristics observed in the questioned writing that could not be accounted for on the basis of the available known writings, limited comparability in portions of the known writings, and the possibility of multiple authors, a definite determination could not be reached whether the questioned writing on Q1 (Item Q1) was or was not prepared by any of the K1 through K3 (Item K1-Item K3) writers. However, significant characteristics in common were observed that indicate CARMINE LORENZO, K1

TABLE 2

WebCode	Conclusions
	(Item K1), may have prepared the questioned writing on specimen Q1 (Item Q1) excluding the lines beginning "I feel justified..." and ending with "Goodbye." In addition, characteristics in common were observed that indicate DAN, K2 (Item K2), may have prepared the remaining aforementioned lines of specimen Q1 (Item Q1) beginning "I feel justified..." and ending with "Goodbye." Inconsistencies were noted throughout the questioned writing that indicate ANN, K3 (Item K3), may not have prepared any of the questioned writing on specimen Q1 (Item Q1).
UTE23L	[No Conclusions Reported.]
UTJGFL	As a principle of forensic handwriting examination practiced in this laboratory all kinds of reproductions (like photographs or photocopies) are not considered as a sufficient basis for definite conclusions concerning the genuineness and/or authorship of handwritings. Working with reproductions is not possible to analyze the basic features of the writing movements and to perform standard procedures of forensic document examination which are to reveal traces of forgery, manipulations, details of line quality etc. This lack cannot be compensated by informations about the original. So normally examinations of reproductions lead to an inconclusive result ("cannot be identified/eliminated"). Additionally there can be more or less vague statements indicating a tendency (e.g. "a common authorship of the questioned handwriting and the known specimen comes into consideration" or "there are no hints for a common authorship...") based on the comparison of the spatial features and other observations. Putting this aside and accepting the manufacturer's note on the condition of the test and the material it has to be mentioned that the wording of conclusions in the reports on handwriting comparison of this institute is put according to a probability scale with the following grades: probability bordering certainty, very high probability, high probability, probable, possible, inconclusive. According to these procedures and assuming to deal with originals this wording in our report would be: A common authorship between the questioned handwriting Q1 and the samples K1 (Carmine Lorenzo) is very highly probable. All identifications imply that an authorship of other writers is excluded with (at least) the same probability. The reasons for reducing the conclusion's probabilities are caused by: limitations of the graphic complexity of the questioned writings which are caused by the missing possibilities of analyzing writing movements and dynamics; shortcomings of the known specimen which are not completely appropriate for comparison with the questioned writings (especially considering the possibility of a disguised handwriting); basic problems of examining handwritings for experts from foreign countries and cultures.
UTNSK5	A definite determination could not be reached whether the questioned writing on item Q1 was prepared by CARMINE LORENZO, writer of item K1 a-b, DAN, writer of item K2a-c, and ANN, writer of item K3a-c, due to the presence of characteristics noted in the questioned writing that were not observed in the known writing and the limited nature of portions of the known writing. From the comparisons that could be conducted, similarities were observed indicating that LORENZO may have prepared the questioned writing on item Q1, excluding the wording "I feel justified...Goodbye". Additionally dissimilarities were observed indicating that LORENZO, may not have prepared the "I feel justified...Goodbye" text. Dissimilarities were observed between the known writing of DAN and the item Q1 writing, excluding the wording "I feel justified...Goodbye", indicating that this writer may not have prepared this text. Additionally, similarities were observed indicating that DAN may have prepared the "I feel justified...Goodbye" text. Furthermore, dissimilarities were observed indicating that ANN, may not have prepared any of the text on item Q1.
V94E4N	In my opinion, there is very strong support for the proposition that the questioned handwriting on Q1 was written by the writer of the comparison K1 handwriting sample.
W63S79	The questioned writing on Exhibit Q1 is the genuine writing of Carmine Lorenzo (K1).
WK1NGV	The textbook presents graphic identity that contributed to the writings of Carmine Lorenzo (K1) and dan (K2), the last mentioned added the phrase "I feel Justified in terminating my life Which is not worth living longer good bye".[sic]
X3WKAA	(a) It has been concluded that it is highly probable that the questioned writing on item Q1 was written by the K1(a-b) specimen writer. (b) No evidence of significance was found to indicate that the questioned writing on item Q1 was written by the K2(a-c) - K3(a-c) specimen writers.
X47MZU	The author of Exhibit K1, Carmine Lorenzo, probably wrote the questioned note. (See ASTM 1658). The authors of Exhibit K2 and K3 probably did not write the questioned note. (See ASTM 1658).

TABLE 2

WebCode	Conclusions
X5KWAF	View similarity in characteristics and elements to components the formation of letter, beginning and end stroke, connection and stop, when compared Q-1 vs K-1a and K-1b. When compared Q-1 vs K-2a until K-2c I observed some similarity, but a variable similarity to indicated Mr. Dan don't wrote Q-1, and when compared Q-1 vs K-3a until K-3c I observed Ann don't has the ability to wrote Q-1. [sic]
X6S8RL	1. This report is based upon photographs of the questioned and known documents. Conclusions about photographs of documents are contingent upon the assumption that the documents depicted exist or once existed as originals as shown, and that there are no significant characteristics in the originals not visible in the photographs. Since it is possible to fabricate photographs depicting documents that never actually existed, and since the photography process may obscure significant characteristics, original documents should always be obtained and submitted, if they are available. 2. It is highly probable Ann did not write the questioned note, Exhibit Q1. This finding is limited primarily due to the examination of photographic images of the documents. 3. DAN probably wrote the portion of the questioned note, Q1, that begins "I feel justified..." and ends "...worth living. Goodbye." DAN probably did not write the remaining portions of the note. This finding is limited due to the insufficient amount of comparable known writing by DAN and the examination of photographic images of the documents. 4. There are indications that LORENZO wrote the questioned note, Q1, with the exception of the portion that begins "I feel justified..." and ends "...worth living. Goodbye." LORENZO probably did not write this entry. This finding is limited due to the insufficient amount of comparable known writing by LORENZO and the examination of photographic images of the documents. 5. An adequate basis for stronger opinion statements may be provided through an examination of the original questioned and known documents in conjunction with additional know[sic] writings of all of the subjects of this inquiry. 6. The use of a name in conclusions assumes the known writings used in the comparison were written by the person to whom they were attributed by the submitter. 7. A summary of the terms used in expressing forensic document examination conclusions is attached.
X9JAX5	The questioned suicide note was written by two persons namely Carmine Lorenzo (K1) and Dan (K2). The contents in the questioned suicide note - "August 15, 2009, My dearest family, I have been unhappy... I have caused you all." and "Please remember only the good times... my journey." were written by Carmine Lorenzo (K1). The other content in the same questioned suicide note - "I feel justified in terminating my life which is no longer worth living. Goodbye." was written by Dan (K2).
XD6GSM	1. It is probable the questioned letter depicted on Q-1 was written by Carmine Lorenzo except for the following entries: "I feel justified in terminating my life...Goodbye" 2. K2 did not write the following entries on Q-1. "August 15, 2009", "My dearest family....have caused you all." and "please remember....my journey" It is probable K2 wrote the following entries on Q-1, "I feel justified...Goodbye" 3. Q1 was not written by the author of K3.
XDFZ8B	For writer K1: The exemplar writer probably wrote the questioned document, excluding the lines beginning with, "I feel..." and ending with "Goodbye." This same writer probably did not write the aforementioned excluded lines. For writer K2: The exemplar writer probably wrote the lines of the questioned document beginning with, "I feel..." and ending with "Goodbye." This same writer probably did not write on the remainder of the questioned document. For writer K3: The exemplar writer did not write the text of the questioned document.
XEWX1A	a. I have found strong similarities in handwriting characteristics between the handwriting on Q1, except for the sentences "I feel justified... Goodbye." in lines 8 and 9 and the handwriting samples of K1 and in my opinion K1 wrote the document Q1 except for the sentences mentioned above. b. I have found strong dissimilarities in handwriting characteristics between the handwriting in the sentences "I feel justified... Goodbye" and the handwriting samples of K1. c. I have found strong similarities in handwriting characteristics between the handwriting in the sentences "I feel justified... Goodbye" in lines 8 and 9 and the handwriting samples of K2 and in my opinion these sentences were most probably written by K2. d. I have found strong dissimilarities in handwriting characteristics between the handwriting in Q1 (except for the sentences mentioned above) and the handwriting of K2. e. I have found strong dissimilarities in handwriting characteristics between the handwriting in Q1 and handwriting samples of K3.
XJKXP3	The range of variation exhibited in the Q1 and the known writing (K1) have significant similarities.
XM89P8	Carmine Lorenzo (K1) is identified as the writer of the main body of the Q1 text with the exception of the

TABLE 2

WebCode	Conclusions
	entry in the middle which reads, "I feel justified in terminating my life which is no longer worth living. Goodbye". This line of text was later inserted by a different writer (see next paragraph). Carmine Lorenzo (K1) did not write this line of inserted text. Since Carmine Lorenzo (K1) wrote most of the writings on Q1, I answered "A" for the Item 1.) multiple choice answer on Page 1 of this answer sheet since this response is mostly correct. Dan (K2) did not write the main body of the Q1 text, however, he did write the above mentioned inserted entry which reads "I feel justified in terminating my life which is no longer worth living. Goodbye". Although an answer of "A" pertaining to Dan (K2) is partially correct as to the inserted entry, answer "E" is more correct in that Dan did not write most of the Q1 writings, that is, he did not write the entries other than the inserted text. Consequently, I answered "E" for Dan in the multiple choice Item 1.) table on Page 1 of this answer sheet. Ann (K3) did not write any of the handwritings on Q1. This is an elimination as to this K3 writer. Infrared tests should be conduct[sic] on the original of this document to determine if more than one writing ink was used for the handwritings on this document.
XXSQL8	The examination of Exhibit Q-1 revealed it was written by two different writers. Writer One wrote the bulk of the document excluding the sentences, "I feel justified in terminating my life which is no longer worth living. Goodbye.". Writer Two wrote the sentences excluded from Writer One. Carmine Lorenzo (K-1) wrote the questioned handprinted entries appearing on Exhibit Q-1 identified as being written by Writer One. Dan (K-2) wrote the questioned handprinted entries appearing on Exhibit Q-1 identified as being written by Writer Two.
XZ88B5	1. The handwriting on Item Q1 was written by more than one individual. 2. The writer of the Item K2a-c known writing samples wrote the portion of Item Q1 that reads, "I feel justified in terminating my life which is no longer worth living. Goodbye." 3. It is is[sic] highly probable that the writer of the Item K1a-b known writing samples wrote the remaining entries on Item Q1. Limitations during my examination included the amount of known writing available for comparison. If additional known writing samples of the Item K1a-b writer become available for examination, re-examination of Item Q1 with the additional known writing samples may result in a more definitive opinion. 4. The writer of the Item K3a-c known writing samples did not write any of the entries on Item Q1.
XZF2KE	In my opinion there is strong support for the proposition that Carmine Lorenzo wrote the note Q1, excluding the entry "I feel...Goodbye" & that Dan did not. Further, there is moderate support for the proposition that Dan wrote the entry "I feel...Goodbye." on the note Q1 & that Carmine Lorenzo did not. There is strong support for the proposition that Ann did not make any of the handwriting of the note Q1.
YBH5TG	It is probable that Carmine Lorenzo (K1) was the writer of the questioned writing on the note (Q1) excluding the following "I feel justified in terminating my life which is no longer worth living. Goodbye." It is possible that Lorenzo (K1) did not write "I feel justified in terminating my life which is no longer worth living. Goodbye." It is probable that Dan (K2) was the writer of the following questioned writing on the note (Q1): "I feel justified in terminating my life which is no longer worth living. Goodbye." The exemplars of Dan (K2) could not be identified to nor eliminated from the remainder of the writing on the note (Q1). It is probable that Ann (K3) did not write the questioned writing on the note (Q1).
Z95SQ6	1. The K1 writer most probably wrote the questioned handwriting on Item Q1. 2. The K2 writer most probably did not write the questioned handwriting on Item Q1. 3. The K3 writer did not write the questioned handwriting on Item Q1.
ZA7GCM	[Conclusions translated by CTS with the exclusion of the sentences starting with "I feel..." and ending with "Goodbye.", "K1: The text was written by K1, except the paragraph "I feel justifi ed interminatong my life which is no longer wurth livinng. Goodbye". was added by K2. K2: The phrase, "I feel justifi ed interminatong my life which is no longer wurth livinng. Goodbye" was added by K2 and the rest of the text was written by K1. K3: The authorship of K3 was discarded from the questioned text.]
ZFCCY8	A definite determination could not be reached whether or not CARMINE LORENZO, K1, DAN, K2, or ANN, K3, prepared the questioned handwriting due to unexplained characteristics and limited comparable known writing from LORENZO, K1. However, handwriting characteristics in common were observed which indicate LORENZO, K1, and DAN, K2, may have prepared portions of the Q1 questioned specimen. Should further examinations be conducted, additional undictated known writing of LORENZO, K1, and dictated and undictated known writing of DAN, K2, should be obtained and submitted to this Laboratory. It was determined that ANN, K3, probably did not write the majority of the

TABLE 2

WebCode	Conclusions
	Q1 questioned specimen.
ZGKK2Q	Conclusions re Carmine Lorenzo (K1): The observed numerous significant handwriting similarities between Item Q1 (Questioned suicide note from August 15, 2009) and Item K1 a-b Specimen, let[sic] me to the conclusion that Item Q1 was PROBABLY WRITTEN by (with some degree of identification) the writer of the Item K1a-b Specimen, excluding the one sentence and word, "I feel justified in terminating my life which is no longer worth living. Goodbye". Conclusions re Dan (K2): The observed numerous significant handwriting similarities between Item Q1 (Questioned suicide note from August 15, 2009) and Item K2a-c Specimen, let[sic] me to the conclusion that the one sentence and word, "I feel justified in terminating my life which is no longer worth living. Goodbye." upon Item Q1 was PROBABLY WRITTEN by (with some degree of identification) the writer of the Item K2a-c Specimen. Conclusions re Ann (K3): The observed numerous significant handwriting differences between Item Q1 (Questioned suicide note from August 15, 2009) and Item K3a-c Specimen, let[sic] me to the conclusion that Item Q1 was PROBABLY NOT WRITTEN by (with some degree of confidence) the writer of the Item K3a-c Specimen.
ZLP1WJ	The textbook presents graphic identity that contributed to the writings of Carmine Lorenzo (K1) and dan (K2), the last mentioned added the phrase "I feel Justified in terminating my life Which is not worth living longer good bye".[sic]
ZWPM7P	Q1 was written by two writers. [Participant provided a pictorial response that separated the Q1 document into two parts, Q1A and Q1B. Q1A was the majority of the written text with the exclusion of "I feel justified in terminating my life which is no longer worth living. Goodbye." sentences and Q1B was "I feel justified in terminating my life which is no longer worth living. Goodbye." sentences.] Q1A was written by Carmine Lorenzo (K1). Q1B was written by Dan (K2).

Additional Comments

TABLE 3

WebCode	Additional Comments
126NEC	1. Dan (Item K2a-c) is excluded as the autor[sic] of the suicide note. 2. Ann (Item K3a-c) is excluded as the autor[sic] of the suicide note.
1738LG	The similarity of graphs and the width of the document as for the graphic space were used by Mr. Lorenzo to add text that changed the original sense of the note.[sic]
1TAQM7	1. Exhibit K-3 was not used in the comparison, as all of the questioned handprinting had been identified. 2. All exhibits will be returned. A complete record of exhibit continuity (receipt, examination and disposition) within the [Laboratory] is available upon request. 3. Results reported in this document apply only to the exhibits/items tested. This report is intended to be used only as a complete document, including the named appendices and attachments. 4. The comparison was based on the assumption that the photographs are true representations of original documents.
21RPVN	Nice trial
24EWMB	[Additional Comments translated by CTS, "The previous conclusion is based on direct and analytical observation, the description of general and specific characteristics, confrontation or comparison and the judgment of their own identities from the system, finding calligraphic skill, cohesions, placement, letter shapes, interverbal separation, linear displacement and writing speed, which allowed for the identification of the authors of the suicide note."]
2792JH	Further comparison handwriting samples of Carmine Lorenzo (K1) and Dan (K2) would be requested.
2C9YNN	It was concluded that Dan (K2) added the words "I feel Justified in terminating my life Which is not worth livin g longer good bye" when observing aspects such as marginalization, the compression of interverbals and inteliterals space as well as the construction and cohesion of the writer "E, R and F, E" particular feature of the writer.[sic]
2TY9AQ	Although in general the present note texts {suicide} analysed presented formal order similarity, technical analysis to them allows find marked intrinsic calligraphic differences specifically in paragraph "I feel justified interminating my life which is no longer month living." GoodBye.", also this registration does not preserve the adjustment in the right margin to what is observed in the remaining writings." [sic] [Words in { } translated from Spanish to English by CTS.]
3NLSCL	If originals were provided an ESDA would have been conducted and the VSC 6000 would have been used to determine if different inks were utilized on the Q1 document.
3Q94BR	There are many similarities between the questioned item and samples of K1 /for example: size, slant, construction of letters, connectivity, speed, coordination./
4752WN	The original questioned document should be submitted to this laboratory for examination for the possible presence of latent writing impressions using an electrostatic detection device such as the Electrostatic Detection Apparatus (ESDA). The detection of writing impressions can be of importance in determining the provenance and history of questioned documents and information about other documents. I also require the original questioned document in the laboratory to allow me to examine the ink and the effects of writing pressure. In particular it would be important to determine whether the specified passage was written in a different ink and/or under different writing conditions from those of the remainder of the questioned writing. It may be possible to reach stronger conclusions on the handwriting issues following my examinations of the originals of the documents. Additional documents bearing specimen handwritings, especially those attributed to Carmine Lorenzo, may also be of assistance.
4BVKP5	Opinions concerning non-original writings (i.e. reproductions) are expressed on the basis that the non-originals examined are accurate representations of the original documents.
4XB2SV	Nice exam: a good handwriting problem, typical of what we do. Of course I would have also examined the ink(s), paper, IW, etc. if the original document was available.
4XML9J	It is impossible to analyze the pressure, shading of graphical lines and construction details of letters on the examined[sic] photocopies. These arguments and insufficient samples K1 determinated[sic] our conclusion.

TABLE 3

WebCode	Additional Comments
595SDM	In this particular scenario, I would request additional normal course specimen material for K1 if available. I would also request the original documents to: 1. More clearly study the minutiae of the handwriting. 2. Examine Q1 for impression evidence and 3. Examine the ink on Q1 using optical techniques.
5MULZN	While the cumulative weight of the numerous similarities between Q-1 and K-1 could be interpreted as an identification additional standards were requested to verify that inconsistencies were variations and not differences. If the original Q-1 was submitted it could be processed for impressed writing. While the K-2 writer probably did not write Q-1 it was noted most of the similarities between K-2 and Q-1 appeared in the "I feel justified in terminating my life which is no longer worth living. Goodbye." portion of Q-1.
5SAXA8	In my opinion these findings provide strong evidence that Dan was the author of the inserted questioned text as detailed above. The questioned handwriting of Q1 differs from the specimens of Ann. These findings provide strong evidence that Ann did not produce any of the questioned handwriting on Q1.
77W6ZG	It was concluded that Dan (K2) added the words "I feel Justified in terminating my life Which is not worth livin g longer good bye" when observing aspects such as marginalization, the compression of interverbals and inteliterals space as well as the construction and cohesion of the writer "E, R and F, E" particular feature of the writer.[sic]
858Z9T	K3 writer is eliminated. Non-request writing indicates the K1 Carmine Lorenzo writer has tendency to place blank lines between thoughts. This would have allowed the K2 writer the space to insert text. The average length of the K2 writer's text in the known exemplars, "I feel justified in terminating my life which is no longer worth living. Goodbye." is longer than the corresponding text in the questioned item. This would support the observation that the K2 writer compacted the questioned text to fit in the space provided. In addition, a deviation in formatting characteristics support an insertion. The portion of the sentence, "I feel justified in terminating..." ends well to the right of the other lines of text in the questioned item.
8KUJPG	Unrealistic; not characteristic of normal casework.
8LDDEH	The restricted range and quality of comparison material exhibited at K1 a-b was a limitation to my examination. Additional specimen material would be requested. Examinations of original material are preferred and would include examinations for latent indentations on Q1.
944YMY	i) Formation of letters and words in 'Q1' showed similarities to both writers 'K1' and 'K2'. It also showed some differences for certain characters from both writers. ii) There are some doubts on the authorship of the 'Q1'. Therefore, both writers 'K1' and 'K2' cannot be identified as the writer of 'Q1' and also cannot be eliminated. iii) Alignment, spacing, connecting stroke, formation and sequence of stroke of the alphabets and figures were the characteristics observed between the questioned and known writings.
986LT9	Examination of the original questioned document (Q1) would have been interesting for possible differentiation[sic] of the inks and/or the writing instruments.
9CX77P	All writing appears natural and fluent with no evidence of conscious execution, no unnatural tremor or hesitation. While there are pictorial similarities between the writing on the K2 and Q1 documents, there are significant differences that cannot be accounted for. The writing of the K3 documents is not wholly comparable being fully manuscript. It was not possible to ascertain the degree of similarity or difference in this instance and as such it cannot be concluded upon.
9ZWBAH	Q1 would be subjected to the ESDA test
A4UXUX	We would try to get more writing of K1 for a more confident opinion.
A79JBJ	Characteristics of handwriting such as formation and sequence of strokes of alphabets and figures, form of writing, alignment, connecting strokes between alphabets and spacing were observed amongst the questioned and known handwritings using microscopic examination.
B5F8WA	The material sent to make the study does not offer the suitable characteristics that allow us to issue an objective and supported concept, due to the technical limitation of the photographic reproductions. These reproductions delimit the range of investigation of the expert because they do not allow to extract the characteristics of the amanuensis, such as pressure, gramographic features, flow of writing, and so on.

TABLE 3

WebCode	Additional Comments
BPSX98	The cracker used the blanks that presented the text of the original note after a point to party, to be able to add the phrase: "I feel justified interminating my life which is no longer month living." GoodBye.", also must be considered added manuscripts are similarity in the formal aspect to real texts."[sic]
BVDNW3	The questioned writing Q1 and the known writings K1a-b have sufficient similarities in the individualizing writing characteristics. No significant difference was observed in these writings.
C5S52E	It was concluded that Dan (K2) added the words "I feel Justified in terminating my life Which is not worth livin g longer good bye" when observing aspects such as marginalization, the compression of interverbals and inteliterals space as well as the construction and cohesion of the writer "E, R and F, E" particular feature of the writer.[sic]
C6XWL4	The submission of additional known hand-printing of Lorenzo, K1, may result in more conclusive findings regarding the majority of Q1. The original note (Q1) should also be submitted for examination.
C8QAYV	If the original documents were available for analysis, the following examinations would be conducted: indentation analysis using an Electrostatic Detection Apparatus (ESDA); ink differentiation using a Video Spectral Comparator (VSC).
CBX1M1	[Additional Comments translated by CTS, "The documents meant to be studied should be originals, since when a document is reproduced photographically, it does not allow for observation and evaluation of intrinsic graphic features, therefore an analysis in these conditions carries the risk of obtaining erroneous conclusions."]
DTQ881	Linguistic consideration to context and word choice and location ("Goodbye" in the middle) is also evidence of insertion. This evidence suggests that Q1 was possibly a resignation letter altered into a suicide letter. The insertion would likely be more evident on the original document which could be examined for type of writing instrument, pen pressure and other more subtle handwriting evidence.
DU5HAE	K1 contains only a small amount of material with which to conduct an examination. This is a limitation in the examination process. I would request additional normal course material if available. I would also subject the question document (Q1) to an indentation examination using the ESDA and low angle lighting.
FPAA21	I would instruct the detective to obtain additional course of business specimens of K-1, particularly ones that could more easily be authenticated (in a court of law) than the submitted memos. The wife would be a source for specimens she may have among their personal papers. (This may not be an option in all law enforcement agencies, but it is with the departments with which I work.)
FRH4RX	Thank you for the opportunity to work with your company, and I appreciate the efforts you guys put into this program.
G12ERC	Well constructed test. I am happy to see that these tests are becoming more complex in nature, and look forward for this trend to continue.
G4G18Y	We took the materials as if they had been originals and not reproductions. In a real case with non-originals our assessment wouldn't be "A" on the conclusion scale but "B".
GEQG95	My reporting to CTS (A-E) should really reflect the following as my report does: K1 may have prepared the majority of the Q1 writing but not the two sentences. K2 may have prepared the two sentences in Q1. K3 probably did not prepare the questioned writing. K1 B (majority)/D (sentences). K2 B (sentences)/D (remainder). K3 D whole document.
GT79XB	CARMINE LORENZO, Item K1a and K1b, may have prepared questioned writing on Item Q1, excluding the lines beginning "I feel..." and ending "Goodbye." DAN, Item K2a through Item K2c, may have prepared the questioned lines beginning "I feel..." and ending "Goodbye." on Item Q1. Dictated known writing from each writer would be useful in conducting comparisons in this case.
H414GY	In order to make handwriting comparisons more effective: (a). original documents must be submitted to enable the examination of the writing features such as stroke fluency and pen pressure to be carried out. This may also allow for the detection of indented handwriting impressions, if any, on the questioned suicide note and thus may lead the examiner to a particular source. (b). adequate amount of comparable course of business writings of Carmine Lorenzo and Dan must be submitted which will allow the document examiner to observe and identify a wider range of variation of their writings.

TABLE 3

WebCode	Additional Comments
HKNGUR	Did not received[sic] Item marked K2a & K2b.
HKW7CA	If future examinations are desired, undictated known writing should be obtained from LORENZO, K1a-b, and DAN, K2a-c. Undictated known writing consists of hand printing prepared during normal course of business activity. Possible sources of undictated known writing include business papers, letters, canceled checks, and/or applications.
HMCTUW	An extremely easy handwriting comparison test.
HMG87X	The conclusion was adopted in consideration of the morphodynamic analogies between the elements of questioned letter Q1 and the samples K1a-b.
JW9AF8	The original note should be submitted in order to examine the ink used to prepare the questioned note. K3-Ann is eliminated as the writer of the questioned note.
K4LRN8	Examination for consistency of ink, latent writing images, and latent fingerprints are possible providing the original note is located and submitted.
KDXM8C	If the original of Exhibit Q1 was available, the following examinations could have been performed: ESDA, VSC, chemical ink analysis and latent prints. The conclusions did not fit cleanly into the table for answer #1 in the Examination Results.
LNSJ51	The qualified opinion with regards to Carmine Lorenzo (K1) is due in part to the limited amount of specimen writing available. It may be of value to reexamine the Exhibit Q1 item if additional specimen writing from Carmine Lorenzo (K1) becomes available. It may be of value to submit the original of the Exhibit Q1 item for further ink and indented writing examination.
LY93QW	Further examinations such as for indented writings and ink differences could be done on an original document.
MKFK44	The photographs that were sent for the examination are assumed to be true and accurate reproductions of the original documents. Ink analysis can be performed on the original document of 'Q1' to determine if the ink used to write 'I feel justified in terminating my life which is no longer worth living. Goodbye.' in 'Q1' and that used to write the other questioned writing in 'Q1' are similar or different.
ML7UMJ	Good test. Would also check ink, indented writing, fingerprints.
MNV6LQ	We only use original documents to make the study, never photographs.
NE4W6T	If we had had the original evidence, we could have examined characteristics such as stroke direction, pen pressure, speed artefacts, direction, physical or chemical manipulations, links between letters, initial and final strokes, furthermore, we could also see characteristics such as the behaviour of the ink at different length waves.
NHJHND	We would request the original suicide note for examinations which would include examination for indented impressions of handwriting and examination of the inks as well as the handwriting examination. We would also request more known handwriting of the deceased. We would also ask the officer if the notepad used to write the suicide note had been recovered as we would examine it for indented imps of h/w.
NNX2ZU	The questioned suicide note (item Q1) has evidence of more than one writing style. The sentences, "I feel justified in terminating my life which is no longer worth living. Goodbye.", within the body of the questioned note indicates one writing style, whereas the remaining questioned entries on the note suggest a different writing style. The sentences, "I feel justified in terminating my life which is no longer worth living. Goodbye.", within the body of the questioned note are pictorially in agreement to the writing style of co-owner Dan (K2). Whereas some of the writing characteristics of the remaining questioned suicide note are pictorially in agreement with the writing style of Carmine Lorenzo (K1). This handwriting examination and comparison was limited by the submission of non-original questioned and known documents. This handwriting examination and comparison was also limited by the amount of comparable known writing samples submitted of Carmine Lorenzo. The submission of additional known comparable writing samples of Carmine Lorenzo and the original questioned and known documents may provide the basis for a more thorough handwriting examination and comparison.

TABLE 3

WebCode	Additional Comments
NQZCKV	According to the analysis and based on laboratory procedures, it is important to the material covered in the original study, to demonstrate major aspects {graphonomic}, who because of a digital playback may vary and generate wrong answers to the study requested.[sic] [Words in { } translated from Spanish to English by CTS.]
NVU6HX	It was concluded that Dan (K2) added the words "I feel Justified in terminating my life Which is not worth livin g longer good bye" when observing aspects such as marginalization, the compression of interverbals and inteliterals space as well as the construction and cohesion of the writer "E, R and F, E" particular feature of the writer.[sic]
NXHHG3	The forger used some blank spaces of the {authentic} to add a sentence. The added material and the initially captured texts are similar. [Words in { } translated from Spanish to English by CTS.]
NYTGDW	As regards the conclusion emphasis to text "I feel justified interminating my life which is no longer month living." GoodBye", which differs to the bFirstborn regarding its marginal framing, separation interestructural and presented in the letters E, R and F, S, cohesion strokes written since is graphically presented by Mr Dan in writings."[sic]
PG12S1	As a result of the inconsistencies within Q1 and the possibility that the questioned entries may have been completed by more than one writer, the format of Question 1 does not allow for the required response to be accurately provided, other than for K3 (Ann). If the original of Q1 was submitted for examination, it would be assessed for impressions in an effort to gain intelligence and an ink comparison would be undertaken to determine if the handwritten entries within Q1 have been completed with same/similar or different ink.
PTGTFL	In order to establish that a questioned signature was written by a particular person, an examination with known genuine signatures must show substantial agreement in sufficient habitual handwriting characteristics and natural variations to identify the maker and eliminate the possibility of any other writer. The handwriting characteristics that are evaluated include line quality, pressure patterns, rhythm, slant, size and proportions, utilization of space and spatial alignment, initial and terminal strokes, writing speed, legibility, skill level, letter forms, types of connectors, method of construction and pattern formations. Any significant unexplainable differences will be sufficient to eliminate the writer.
QHYGVW	It may be helpful to examine additional non-request specimens of the K1 author, in order to make a more definite determination in regard to the questioned material other than the "I feel justified in terminating my life which is no longer worth living. Goodbye." notation. The results are opinions and interpretations formed using accepted scientific and professional practices. Photographic negatives/digital images of the evidence are retained in [Laboratory].
R5XNKZ	1. Indentation, ink and paper examinations will be conducted on the original questioned document - Q1.
RMYJVH	Since all the questioned handwriting has been identified, comparison with Exhibits K3(a to c) was not necessary.
SP52TD	There are artifacts in the Q1 and K1-3 documents, possibly a result of the reproduction process used, that may be masking any tremor associated with disguise or forgery.
T1JC5L	In the comparison process we have considered the overall features of the writing such as the overall appearance, the size, the slope and the proportions. We have also considered more detailed features of character construction. If there is a need for further explanation we can provide illustrative charts to demonstrate the features. A full record of the work done in this test is contained in notes retained by our Laboratory.

TABLE 3

WebCode	Additional Comments
T3LG8X	<p>As illustrated in attached charts, there are similarities between K1 and handwriting contained in the note except for the handwriting in the line, "I feel justified in terminating my life which is no longer worth living. Goodbye." There are similarities between K2 and handwriting contained in the line "I feel justified in terminating my life which is no longer worth living. Goodbye." K1 also uses greater word spacing than K2. This is another characteristic that corresponds to the above identifications. Investigative Leads: Due to a lack of detail and possible misinterpretation of foreign matter reflected in copies, it is usually our policy not to base positive identification or elimination by handwriting comparison on any type of reproduction. We would want to examine the original questioned document to see if there is any ink differentiation between the text of the document and the questioned line, "I feel justified in terminating my life which is no longer worth living. Goodbye." We would also suggest examination of the original questioned note for latent fingerprints and latent writing impressions. We would ask that any paper in the possession of the suspect and victim similar to the questioned item be confiscated for detection of latent writing impressions of the questioned handwriting. There are extraordinary similarities between some key features in K1 and K2, also found in the Q, e.g., "er," "j," "ou," "me," "g," "s," "ch." Additional original contemporaneous known standard writing of K1 and K2 might resolve these issues. Regarding reporting conclusions in the present case: The above report cannot be unambiguously entered in the chart provided. I have entered it as: Q1 / K1: B; Q1 / K2: B; Q1 / K3: D. However, if the "questioned suicide note" is taken to mean the one line in the note in which the subject mentions terminating his life, then the chart would read as: Q1 / K1: D; Q1 / K2: B; Q1 / K3: D. Additionally, our own wording for conclusions could be more easily written to correspond to the provided Examination Results chart if the latter included all categories of reporting conclusions listed in ASTM E1658.</p>
T83QRR	<p>If investigators give us the original threatening notes: We would search, on questioned documents, indented impressions of writings, using ESDA and horizontal light.</p>
T95M54	<p>Difficult in listing appropriate letter in number 1 due to the type of proficiency. When there is the possibility of more than one writer it is difficult to list accordingly.</p>
TJKABN	<p>A limited amount of known writing was submitted for Carmine Lorenzo and since verbatim text isn't obtainable from Mr. Lorenzo, additional non-request writings should be submitted.</p>
TVNSTD	<p>Our opinion is that the quality of the test is much improved from previous years!</p>
U75PGT	<p>Indisputably the lack of originality of documents, both questioned as comparison, patterns restrict an analysis more deep related aspects of the dynamics of writing, the type of ink, and item writer used in the making of scanned documents, sometimes these aspects provide guidance important objective of the trial of identity or final conclusion in a technical expertise.[sic]</p>
UBHB9C	<p>Submission of the original questioned note would have allowed for the examination of inks and ESDA to be carried out. We would also have requested that the pad of paper the note was written be searched for and submitted.</p>
UTJGFL	<p>This case was significantly more difficult than in the recent years. Please stay on that level!</p>
UTNSK5	<p>General comments about the test: This was a challenging test. Unfortunately, it was not well designed in the sense that it forced document examiners to render an opinion without allowing them to conduct a complete examination of the evidence. It[sic] this were an actual case, I would not have rendered my opinion based on the handwriting alone. This type of examination would demand I microscopically examine the quality of the writing, use the VSC to check for different inks, and evaluate the writing for differences in pen pressure. In effect, this test is the equivalent of asking a doctor to evaluate whether a patient has a fracture without allowing him to use an x-ray machine--something he would never do. Therefore, I think this test forces an examiner to evaluate the samples in the context of a test rather than as a proxy for a real case.</p>
WK1NGV	<p>It was concluded that Dan (K2) added the words "I feel Justified in terminating my life Which is not worth livin g longer good bye" when observing aspects such as marginalization, the compression of interverbals and inteliterals space as well as the construction and cohesion of the writer "E, R and F, E" particular feature of the writer.[sic]</p>

TABLE 3

WebCode	Additional Comments
X47MZU	The K2 writer has several similarites[sic] with the K1 writer. There are some consistent, repeated differences, which allowed the writers to be differentiated. If this was not a CTS test, I would be reluctant to render an opinion without additional known samples and examination of originals.
XDFZ8B	The answer form provided for question 1 did not allow for the accurate expression of my conclusion. The answers do not allow for multiple writers on the questioned document, hence the answers of "C" for K1 and K2.
XEWX1A	Had the original document Q1 been available for examination, I would have examined the ink/s of Q1 and the sentences in lines 8 and 9 in particular using optical methods (eg. the VSC) and if necessary chemical methods (TLC).
XM89P8	The multiple choice answer sheet under Item 1 of this answer sheet did not provide for giving answers in respect to only portions of the Q1 document, but only provided for answers for all or none of the Q1 writings. Therefore, I added "see item 2 wording" to mean that my detailed answers are under Item 2.) of this answer sheet. [CTS removed this comment and indicated the comment with an "*" in Table 1 - Examination Results.]
XZ88B5	Excellent test. If the questioned document is not examined thoroughly, it would be easy to make a mistake.
XZF2KE	Conclusion scale: Conclusive, Very Strong, Strong, Moderate, Inconclusive. The entry "I feel...Goodbye" is in a different style of writing from the other entries on Q1 & appears more 'squashed in.' I am unable to say when this entry was made.
YBH5TG	It is possible that more definitive conclusions could be reached with the submission of the original note (Q1) and additional exemplars of all subjects related to this investigation.
Z95SQ6	Submission of the original of Item Q1 together with additional specimen handwriting of the K1 and K2 writers may result in conclusions that are more definitive.
ZA7GCM	[Additional Comments translated by CTS, "The questioned and known texts are elaborated in digital form, losing basic and important characteristics in the graphical analysis."]
ZLP1WJ	It was concluded that Dan (K2) added the words "I feel Justified in terminating my life Which is not worth livin g longer good bye" when observing aspects such as marginalization, the compression of interverbals and inteliterals space as well as the construction and cohesion of the writer "E, R and F, E" particular feature of the writer.[sic]
ZWPM7P	We have created a second column in the table after reviewing of Q1. Indeed, Q1 was written by two different writers.

Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 09-524: Handwriting Examination

DATA MUST BE RECEIVED BY December 21, 2009 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

Please Note: The Accreditation Release Section Has Moved

CTS submits external proficiency test data directly to ASCLD/LAB and FQS-International. Please select one of the following statements to ensure your data is handled appropriately.

This participant's data is intended for submission to ASCLD/LAB and/or FQS-International. (Accreditation Release section on the last page must be completed and submitted.)

This participant's data is NOT intended for submission to ASCLD/LAB or FQS-International.

Scenario:

Police are investigating the death of a man at a landscaping company where he is a co-owner. An apparent suicide note was found at the scene close to where the deceased man was found. His wife is questioning the authenticity of the note and insists he would not have committed suicide. The deceased man's business partner/co-owner and secretary are being questioned in the death. Investigators have collected the questioned suicide note and known writing samples from the owners and the secretary. The known writing from the victim consists only of course of business writing whereas the known writing for the business partner and secretary consists of both course of business writing and dictated exemplars of the suicide note. Investigators are asking you to compare the known writing samples with the questioned suicide note.

Items Submitted (Sample Pack HW):

Item Q1: Questioned suicide note from August 15, 2009.

Item K1a-b: Known writings of deceased, Carmine Lorenzo.

Item K2a-c: Known writings of business partner and co-owner, Dan.

Item K3a-c: Known writings of secretary, Ann.

Examination Results

Select your responses from the following list and insert the appropriate letters in the space provided in the tables. If the wording differs from the normal wording in your reports, adapt these conclusions as best as you can and use your preferred wording for your written conclusions.

- A. Was WRITTEN by
- B. Was PROBABLY WRITTEN by (some degree of identification)
- C. CANNOT be IDENTIFIED or ELIMINATED
- D. Was PROBABLY NOT WRITTEN by (some degree of confidence)
- E. Was NOT WRITTEN by

1.) Which, if any, of the known writers wrote the questioned writing on the note?

(Please choose a response for each writer.)

	Q1
Carmine Lorenzo (K1)	
Dan (K2)	
Ann (K3)	

Please return all pages of this data sheet.

RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **09-524: Handwriting Examination**

This release page must be completed and received by **December 21, 2009** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

ASCLD/LAB RELEASE

If your lab has been accredited by ASCLD/LAB and you are submitting this data as part of their external proficiency test requirements, have the laboratory's designated individual complete the following.

The information below must be completed in its entirety for the results to be submitted to ASCLD/LAB.

ASCLD/LAB Legacy Certificate No. _____ ASCLD/LAB International Certificate No. _____

Signature _____ Date _____

Laboratory Name _____

Location (City/State) _____

FQS-INTERNATIONAL RELEASE

If your laboratory maintains its accreditation through FQS-International, please complete the following form in its entirety to have your results forwarded.

FQS-International Certificate No. _____

Signature and Title: _____ Date _____

Laboratory Name _____

Location (City/State) _____

Return Instructions

Accreditation Release

Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.

Questions? Contact us 8 am-4:30 pm EST
Telephone: +1-571-434-1925
email: forensics@cts-interlab.com

Please return all pages of this data sheet.

Page 3 of 3