

FORENSIC LABORATORY REPORT

June 2, 2011

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Request dated: May 7, 2011
Lab Referral Number: 11-0507

RE: Forensic Examinations of text depicted on CD-Roms

EXHIBITS

- Q-1 Image (jpg) of a Compact Disc (CD-Rom), TDK CD-R74, lettered C-11, and depicting the questioned text 'Or.K.na'. (Received as jpg image attachment to email)
- Q-2 Image (jpg) of a Compact Disc (CD-Rom), TDK CD-R74, lettered C-17, and depicting the questioned text 'K.ozel'. (Received as jpg image attachment to email)
- K-1(1-13) Submitted notebook pages (office machine copies) depicting hand printed entries, further identified by the following exhibit/numerical designations:
- | | | |
|-------------|-------------|-------------|
| K-1-1: 1502 | K-1-2: 1503 | K-1-3: 1504 |
| K-1-4: 1506 | K-1-5: 1510 | K-1-6: 1511 |
| K-1-7: 1512 | K-1-8: 1513 | K-1-9: 1514 |
| K-1-10:1517 | K-1-11:1518 | K-1-12:1519 |
| K-1-13:1520 | | |

PROBLEM

Determine whether or not the questioned 'Or.K.na' and 'K.ozel' entries on Exhibits Q-1 and Q-2, respectively, originated from the writer(s) of Exhibit K-1(1-13).

Determine whether or not the questioned 'Or.K.na' text reflected on Exhibit Q-1 and the 'K.ozel' text reflected on Exhibit Q-2 were handwritten or machine produced.

EXAMINATION FINDINGS

Examinations of the questioned text on Exhibits Q-1 and Q-2 revealed features and characteristics of a blue ink writing instrument. The discernible characteristics within images of the questioned text are inconsistent with inkjet and laser (toner) technology.

Examinations and inter-comparisons of the voluminous text within Exhibit K-1 were conducted to assess feature characteristics and variances. Notable similarities in form and structure are evident between the questioned text on Exhibits Q-1 and Q-2, and the submitted writings within Exhibit K-1.

Utilizing industry standard measurements for CD-Rom discs (4.72" in diameter) the CD images depicted in Exhibits Q-1 and Q-2 were normalized to scale. The absolute size of the comparable letters on Exhibits Q-1/Q-2 and K-1 are nearly identical when office machine copy variables are considered. Based on unusually precise (near 1:1) similarity in detail evident between text on Exhibits K-1 and Q-1/Q-2, additional examinations and comparisons were warranted. Side by side and superimposition comparisons were conducted digitally between letters/letter combinations on Exhibits K-1 and Q-1 and Q-2. Relatively precise superimposition of all facets of specific letter combinations exist between hand printed text on Exhibit K-1 and that within the questioned hand printed entries on Exhibits Q-1 and Q-2.

Examinations and comparisons of the questioned text reflected in the images of Exhibits Q-1 and Q-2, with respect to the line quality of the writing and discernible ink characteristic, were conducted. The questioned text depicted on Exhibits Q-1 and Q-2 bear characteristics of a writing instrument utilizing a low viscosity blue ink and depicting line characteristics which are consistent with both handwritten and autopen ('signature' machine) production.

CONCLUSION

It is highly probable the questioned 'Or. K.na' and 'K.ozel' entries were created from Exhibit K-1 utilizing the following process or variation of this process:

- Letters and letter combinations within the notebook pages designated K-1(1, 2 and 5) were selected for replication.
- The lettering selected was photographed or digitally imaged.
- The lettering was cropped and configured to form the entries 'Or.K.na' and 'K.ozel'.
- From the 'Or.K.na' and 'K.ozel' composite images a template (e.g. guide, stencil, matrix) was created for use by a signature machine.
- A signature machine (e.g. autopen) was then used to follow the outline of the template, thereby creating the 'Or.K.na' and 'K.ozel' entries on the CD-discs depicted in Exhibits Q-1 and Q-2.

The questioned text on Exhibits Q-1/Q-2 bear features and characteristics which have been observed in mechanically produced (e.g. autopen) writings.

REMARKS

If trial or deposition testimony is required in support of these findings and conclusion(s), a minimum of six weeks prior notification is required.

Illustrative images in support of the preceding conclusions are attached.

EVIDENCE DISPOSITION

Exhibits Q-1 and Q-2 were received via email attachment on May 7, 2011. Exhibit K-1 was received from your office via UPS on May 20, 2011. All exhibits are retained pending disposition instructions.



Grant R. Sperry
Forensic Document Examiner

Attachments