FORENSIC EVIDENCE INTEGRITY REPORT

Psycho-Forensic Evidence Integrity & Chain-of-Custody System v2.0

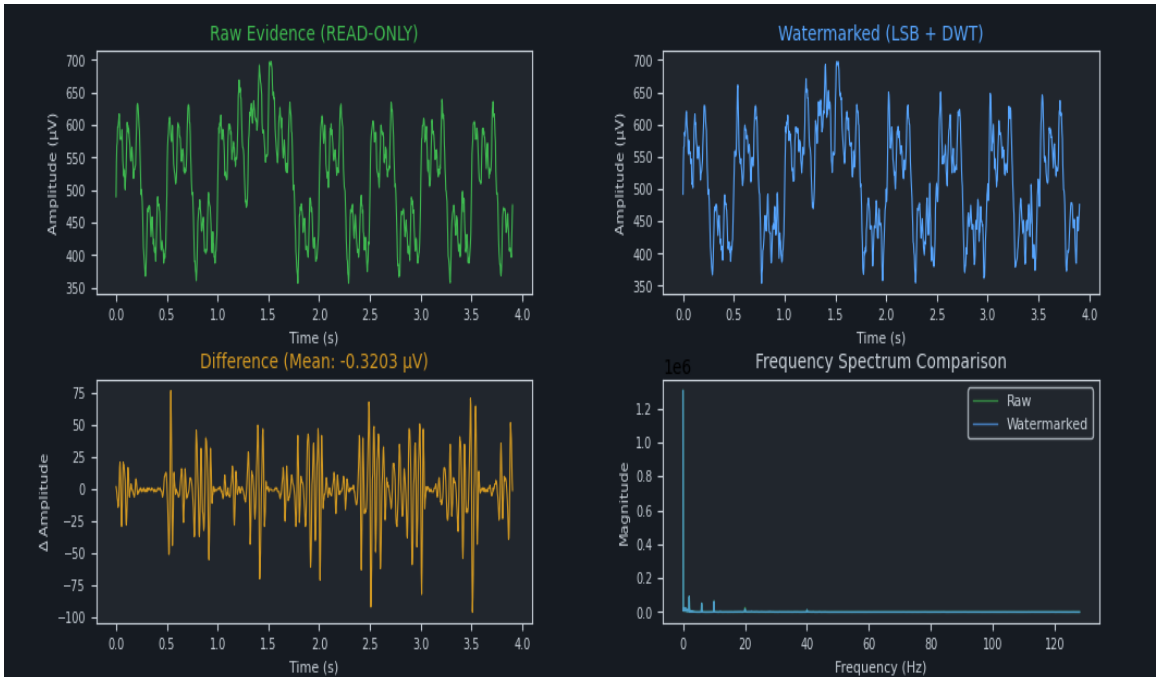
Case Information

Case ID:	CASE-2026-001
Subject ID:	SUBJ-KK-104
Assessment Type:	BEOS + Interview
Acquisition Date:	2026-01-28T06:46:18.016071

Examiner Information

Name:	Dr. Salunkhe
Badge ID:	FE-2024-789
Organization:	CID Forensic Laboratory
Certification:	ABFE Certified

Evidence Visualization



AI Analysis (Non-Evidentiary)

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■■ NON-EVIDENTIARY AI ANALYSIS ■■
The following analysis is generated by an artificial intelligence system for examiner reference only.
It does NOT constitute forensic evidence, expert testimony, or scientific conclusion. All findings must
be independently verified by qualified examiners.

=== SIGNAL QUALITY ASSESSMENT ===


Signal Statistics:
- Mean amplitude: 509.63 µV
- Peak amplitude: 701.00 µV
- Standard deviation: 78.53 µV
- Range: 357.00 to 701.00 µV
- Sample count: 2560
- Sampling rate: 256 Hz


■■ DETECTED ISSUES:
• ■■ HIGH AMPLITUDE SPIKE DETECTED (701 µV). Possible P300 Response.

--- AI INTERPRETATION (Llama 3.2) ---

The EEG signal exhibits good overall quality, with a mean amplitude of 509.63 µV and a standard
deviation of 78.53 µV indicating relatively consistent and stable activity. However, the presence of a
high-amplitude spike (701.00 µV) warrants further scrutiny, potentially representing an artifact or
false positive P300 response. Further examination is recommended to confirm whether this anomaly is
indeed a valid neural response or an isolated technical issue.

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=== FILTERING DETECTION ===

Spectral correlation: 0.9998

✓ Spectral content preserved

--- AI INTERPRETATION (Llama 3.2) ---

The high spectral correlation of 0.9998 suggests that the original and processed EEG signals have been
minimally manipulated, likely with no significant filtering or alteration. However, given the extremely
close match, it is still possible that some minor adjustments may have occurred to remove noise or
artifacts. Further analysis is recommended to confirm the integrity of the data.
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Chain of Custody (Hash-Linked)

Event	Timestamp	Hash (Truncated)

examiner_authenticated	06:45:58	997df02bdb4a8db8...
evidence_acquired	06:46:05	7f30e7c90f8efaa0...
evidence_encrypted	06:46:05	e5525e33aa54d8ae...
evidence_acquired	06:46:12	a5c906c89e14c5cb...
evidence_encrypted	06:46:12	784aedb04a41fab5...
evidence_acquired	06:46:18	b2fd9b03c0063205...
evidence_encrypted	06:46:18	c78ee27b59438c75...
watermark_embedded	06:46:23	48beaeaff193abbc...
integrity_verified	06:46:33	834bd21ab1b4d8bf...
ai_analysis_run	06:47:04	c0e23d27a894781f...

Cryptographic Verification

This report is cryptographically signed using RSA-4096. All evidence has been encrypted with AES-256-GCM and watermarked using dual-domain techniques (LSB + DWT).

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Digital Forensic Examiner: Dr. Salunkhe
Date: 2026-01-28 06:47:41 UTC
Public Key Fingerprint: 529df0f9f27440a97723b099755a88e9...