

Multimedia Authentication Testing

MAT (ver#4)

Analyst(s) name(s) _____ Testing date ___ / ___ / ___
Tested file name _____
Tested time range _____ Size _____ bytes
MD5-SHA1 hash _____

File format *Open-Proprietary* in the _____ extension identified as _____ by file data
Data streams _____% visual, _____% audio (_____ entirely silent), and _____% other data
Metadata GPS _____ Hardware _____
Date-times Created _____ Modified _____
Auditing data _____

Image or Video Stream Analysis (check if testing is applicable)

Stream details _____ resized. _____ interlaced. _____ color space. _____ x _____ resolution.
_____ kb/s. _____ codec using _____ writing library
Temporal analysis _____ fps speed _____ unnatural. _____ duplicate frames. _____ time skipping.
Pass-Fail tests PRNU _____ . Data cloning _____ . PCA editing _____ . DCT editing _____ .
JPEG editing _____ . HSV-Lab histogram _____ . Luminance gradient _____ .
Chromatic aberrations _____ . Double compression _____ . ELA-VELA _____ .
Thumbnail _____ . Noise _____ . Huffman table _____ . JPEG dimples _____ .

Threshold tests*

* e.g. Temporal contrast, temporal diffusion, spatial predictability, temporal noise diversion, temporal histogram correlation, non-monotonous motion, etc.

Audio Stream Analysis (check if testing is applicable)

Stream details _____ channels. _____ bit depth. _____ kb/s. _____ kHz sampling. _____ codec
Spectral limits Perceptible up to about _____ kHz Noise ceiling up to about _____ kHz
Simple analysis Resampling _____ detected Audio data cloning _____ detected
Acute transitions Bias transition _____ detected Noise profile transition _____ detected
Critical listening Speed inaccuracy _____ detected Stream de-synchronization _____ detected
Amplitude tests _____ silence (_____ absent noise) _____ clipping (_____ in _____ time spans)
Signal tracking _____ possible and found _____
Subsonic impulse _____ possible and found _____

Spot Testing (check if applicable) Tested times are _____

Acute shifts in: Amplitude _____ detected. Content _____ detected. DC impulse _____ detected.
Frequency _____ detected. Noise profile _____ detected. Speed _____ detected.

Additional tests, notes and observations:

(Reference relevant "Has", "Is" or "Fail" test results)

OPINION: To a *definitive-high-reasonable* degree of expert confidence, the tested content is found to be a *faithful-questionable-manipulated* representation of the facts as they occurred.

Answer with ("No", "Not", "Pass") or ("Has", "Is", "Fail"), else "No data", where applicable. Select appropriate italic option. Forensic Working Group: 2018