

*Approved by Director: Dr. Guy Vallaro***A. Purpose:**

To outline the steps taken to analyze cell phones. A Cell phone analysis request means that the internal memory of the device will be extracted, as well as onboard memory card(s) /SIM card(s). The extraction(s) will be parsed using a software program(s). Searches and other in depth analyses will be conducted on the parsed data if required. A laboratory report and attachment media containing the analysis and/or extraction results are produced and provided to the requesting agency.

B. Responsibility:

Forensic Examiners

C. Definitions/Abbreviations:

Refer to CC SOP-26 - Definitions and Abbreviations.

D. Procedure:

1. The technique used for the examination of cell phones should be determined by, but not limited to, the examiners training knowledge and experience.
2. Current acceptable techniques for data extraction and analysis include:
 - a. Using the CelleBrite UFED 4PC software to extract data contained on the cell phone and using the UFED Physical Analyzer software to parse and analyze data contained on the cell phone by following the manufacturer's protocol, as well as, the examiner's training and experience;
 - b. Using Cellebrite Premium software to extract data contained on the cell phone by following the manufacturer's protocol, as well as, the examiner's training and experience;
 - c. Manually scrolling through the cell phone and recording relevant information pertaining to the request for analysis.
 - d. Using GrayKey to extract data contained on the cell phone
 - e. Magnet Axiom can be utilized to review all data extracted from any/all of the above mentioned available software.
3. Every effort should be taken to ensure that the cell phone is protected from receiving an external signal. For example, using the Ramsey Shielded Test Enclosure (faraday bag, box, tent, etc), placing the device into airplane mode, or removing the SIM card if applicable.
4. If a different method is used to analyze the cell phone, thoroughly document it in the Cell Phone Worksheet/Notes (QR-CC-16) and all other appropriate records. In addition, bring this method to the Technical Lead and/or the Unit Supervisor's attention for further review.
5. If a passcode locked device has been submitted for analysis refer to CC SOP-50 and CC SOP-53.

References:

1. CelleBrite UFED 4PC user manual
2. GrayKey software documentation and user manual
3. Cellebrite Premium software documentation and training material
4. Magnet Axiom user manual or training documentation