



FEB. 2013

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# Test Results for Mobile Device Acquisition Tool: Lantern v2.3

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Lantern v2.3**



**Greg Ridgeway**

*Acting Director, National Institute of Justice*

This report was prepared for the National Institute of Justice, U.S. Department of Justice, by the Office of Law Enforcement Standards of the National Institute of Standards and Technology under Interagency Agreement 2003-IJ-R-029.

The National Institute of Justice is a component of the Office of Justice Programs, which also includes the Bureau of Justice Assistance, the Bureau of Justice Statistics, the Office of Juvenile Justice and Delinquency Prevention, and the Office for Victims of Crime.

February 2013

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## Introduction

The Computer Forensics Tool Testing (CFTT) program is a joint project of the National Institute of Justice (NIJ), the Department of Homeland Security Science and Technology Directorate (DHS S&T), and the National Institute of Standards and Technology Law Enforcement Standards Office (OLES) and Information Technology Laboratory (ITL). CFTT is supported by other organizations, including the Federal Bureau of Investigation, the U.S. Department of Defense Cyber Crime Center, the U.S. Internal Revenue Service Criminal Investigation Division Electronic Crimes Program, the U.S. Department of Homeland Security's Bureau of Immigration and Customs Enforcement, U.S. Customs and Border Protection and U.S. Secret Service, the Naval Postgraduate School, the National White Collar Crime Center, the Commodity Future Trading Commission, the U.S. Postal Service, and the Securities and Exchange Commission. The objective of the CFTT program is to provide measurable assurance to practitioners, researchers, and other applicable users that the tools used in computer forensics investigations provide accurate results. Accomplishing this requires the development of specifications and test methods for computer forensics tools and subsequent testing of specific tools against those specifications.

Test results provide the information necessary for developers to improve tools, for users to make informed choices, and for the legal community and others to understand the tools' capabilities. The CFTT approach to testing computer forensic tools is based on well-recognized methodologies for conformance and quality testing. The specifications and test methods posted on the CFTT Web site (<http://www.cftt.nist.gov/>) are available for review and comment by the computer forensics community.

This document reports the results from testing Lantern version 2.3 against the *Smart Phone Tool Test Assertions and Test Plan*, available at the CFTT Web site ([www.cftt.nist.gov/mobile\\_devices.htm](http://www.cftt.nist.gov/mobile_devices.htm)).

Test results from other tools and the CFTT tool methodology can be found on NIJ's computer forensics tool testing Web page, <http://www.ojp.usdoj.gov/nij/topics/technology/electronic-crime/cftt.htm>.

## How to Read This Report

This report is divided into five sections. The first section is a summary of the results from the test runs. This section is sufficient for most readers to assess the suitability of the tool for the intended use. The remaining sections of the report describe how the tests were conducted, discuss any anomalies that were encountered and provide documentation of test case run details that support the report summary. Section 2 gives justification for the selection of test cases from the set of possible cases defined in the test plan for Smart Phone forensic tools. The test cases are selected, in general, based on the basis of features offered by the tool. Section 3 describes in more depth any anomalies summarized in the first section. Section 4 lists hardware and software used to run the test cases. Section 5

contains a description of each test case run. The description of each test run lists all test assertions used in the test case, the expected result and the actual result. Please refer to the vendor's owner manual for guidance on using the tool.

# Test Results for Mobile Device Data Acquisition Tool

Tool Tested: Lantern

Version: 2.3

Run Environment: Mac OS X v10.6.8

Supplier: Katana Forensics, Inc.

Address: 1425 K St. NW Suite 350  
Washington, DC 20005

Tel: 855-552-8262

WWW: <http://www.katanaforensics.com>

## 1 Results Summary

Lantern version 2.3 is designed for logical acquisitions, data analysis, and report management from mobile devices running iOS.

The tool was tested for its ability to acquire data from the internal memory of mobile devices running iOS. Except for the following anomalies, the tool acquired all supported data objects completely and accurately for all four mobile devices tested.

### *Acquisition attempt of nonsupported devices:*

- Attempting acquisition of a nonsupported device (i.e., iPod Nano) did not provide an error message stating the device is not supported. A force quit on the acquisition had to be performed. (iPod Nano)

### *Subscriber-and equipment-related information:*

- Subscriber related information was not reported. (iPhone4 CDMA)
- Equipment related information was not reported. (iPhone4 CDMA)

### *Personal Information Management (PIM) data:*

- Address book entries that contained data fields for the First, Middle and Last names only reported the First and Last name e.g., John Doe Smith was reported as: John Smith. (iPhone4 GSM, iPhone4 CDMA, iPhone\_3.1.2, iPhone\_3.1.3)

### *Acquisition of Internet related data:*

- Internet related data i.e., bookmarks were not reported. (iPhone\_3.1.2, iPhone\_3.1.3)

Refer to sections 3.1–3.4 for additional details.

## 2 Test Case Selection

Test cases used to test mobile device acquisition tools are defined in *Smart Phone Tool Test Assertions and Test Plan Version 1.0*. To test a tool, test cases are selected from the

*Test Plan* document based on the features offered by the tool. Not all test cases or test assertions are appropriate for all tools. There is a core set of bases cases that are executed for every tool tested. Tool features guide the selection of additional test cases. If a given tool implements a given feature then the test cases linked to that feature are run. Tables (1a-1d) list the test cases available in Smartphone Examiner. Tables (2a-2d) list the test cases not available in Smartphone Examiner.

**Table 1a: Selected Test Cases (iPhone4 GSM)**

<b>Supported Optional Feature</b>	<b>Cases Selected for Execution</b>
Base cases	SPT-01, SPT-02, SPT-03, SPT-04, SPT-05, SPT-06, SPT-07, SPT-08, SPT-09, SPT-10, SPT-12, SPT-13
Acquire mobile device internal memory and review reported data via supported generated report formats.	SPT-24
Acquire mobile device internal memory and review reported data via the preview pane.	SPT-25
Acquire mobile device internal memory and review data containing non-ASCII characters.	SPT-33
Acquire mobile device internal memory and review hash values for vendor supported data objects.	SPT-38
Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.	SPT-40

**Table 2a: Omitted Test Cases (iPhone4 GSM)**

<b>Unsupported Optional Feature</b>	<b>Cases omitted - not executed</b>
Acquire mobile device internal memory and review application related data (i.e., word documents, spreadsheet, presentation documents).	SPT-11
Acquire SIM memory over supported interfaces (e.g., PC/SC reader).	SPT-14
Attempt acquisition of a nonsupported SIM.	SPT-15
Begin SIM acquisition and interrupt connectivity by interface disengagement.	SPT-16
Acquire SIM memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).	SPT-17
Acquire SIM memory and review reported Abbreviated Dialing Numbers (ADN).	SPT-18
Acquire SIM memory and review reported Last Numbers Dialed (LND).	SPT-19
Acquire SIM memory and review reported text messages (SMS, EMS).	SPT-20
Acquire SIM memory and review recoverable deleted text messages (SMS, EMS).	SPT-21

<b>Unsupported Optional Feature</b>	<b>Cases omitted - not executed</b>
Acquire SIM memory and review reported location related data (i.e., LOCI, GPRSLOCI).	SPT-22
Acquire SIM memory by selecting a combination of supported data elements.	SPT-23
Acquire SIM memory and review reported data via supported generated report formats.	SPT-26
Acquire SIM memory and review reported data via the preview-pane.	SPT-27
Attempt acquisition of a password-protected SIM.	SPT-28
After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.	SPT-29
After a successful SIM acquisition, alter the case file via third-party means and attempt to re-open the case.	SPT-30
Perform a physical acquisition and review data output for readability.	SPT-31
Perform a physical acquisition and review reports for recoverable deleted data.	SPT-32
Acquire SIM memory and review data containing non-ASCII characters.	SPT-34
Begin acquisition on a PIN protected SIM to determine if the tool provides an accurate count of the remaining number of PIN attempts and if the PIN attempts are decremented when entering an incorrect value.	SPT-35
Begin acquisition on a SIM whose PIN attempts have been exhausted to determine if the tool provides an accurate count of the remaining number of PUK attempts and if the PUK attempts are decremented when entering an incorrect value.	SPT-36
Perform a stand-alone mobile device internal memory acquisition and review the status flags for text messages present on the SIM.	SPT-37
Acquire SIM memory and review hash values for vendor supported data objects.	SPT-39

**Table 1b: Selected Test Cases (iPhone4 CDMA)**

<b>Supported Optional Feature</b>	<b>Cases Selected for Execution</b>
	SPT-01, SPT-02, SPT-03, SPT-04, SPT-05, SPT-06, SPT-07, SPT-08, SPT-09, SPT-10, SPT-12, SPT-13
Acquire mobile device internal memory and review reported data via supported generated report formats.	SPT-24
Acquire mobile device internal memory and review reported data via the preview pane.	SPT-25
Acquire mobile device internal memory and review data containing non-ASCII characters.	SPT-33
Acquire mobile device internal memory and review hash values for vendor supported	SPT-38

Supported Optional Feature	Cases Selected for Execution
data objects.	
Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.	SPT-40

**Table 2b: Omitted Test Cases (iPhone4 CDMA)**

Unsupported Optional Feature	Cases omitted - not executed
Acquire mobile device internal memory and review application related data (i.e., word documents, spreadsheet, presentation documents).	SPT-11
Acquire SIM memory over supported interfaces (e.g., PC/SC reader).	SPT-14
Attempt acquisition of a nonsupported SIM.	SPT-15
Begin SIM acquisition and interrupt connectivity by interface disengagement.	SPT-16
Acquire SIM memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).	SPT-17
Acquire SIM memory and review reported Abbreviated Dialing Numbers (ADN).	SPT-18
Acquire SIM memory and review reported Last Numbers Dialed (LND).	SPT-19
Acquire SIM memory and review reported text messages (SMS, EMS).	SPT-20
Acquire SIM memory and review recoverable deleted text messages (SMS, EMS).	SPT-21
Acquire SIM memory and review reported location related data (i.e., LOCI, GPRSLOC).	SPT-22
Acquire SIM memory by selecting a combination of supported data elements.	SPT-23
Acquire SIM memory and review reported data via supported generated report formats.	SPT-26
Acquire SIM memory and review reported data via the preview-pane.	SPT-27
Attempt acquisition of a password-protected SIM.	SPT-28
After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.	SPT-29
After a successful SIM acquisition, alter the case file via third-party means and attempt to re-open the case.	SPT-30
Perform a physical acquisition and review data output for readability.	SPT-31
Perform a physical acquisition and review reports for recoverable deleted data.	SPT-32
Acquire SIM memory and review data containing non-ASCII characters.	SPT-34
Begin acquisition on a PIN protected SIM to determine if the tool provides an accurate count of the remaining number of PIN attempts and if the PIN attempts are decremented when entering an incorrect value.	SPT-35
Begin acquisition on a SIM whose PIN attempts have been exhausted to determine if the tool provides an accurate count of the remaining number	SPT-36

<b>Unsupported Optional Feature</b>	<b>Cases omitted - not executed</b>
of PUK attempts and if the PUK attempts are decremented when entering an incorrect value.	
Perform a stand-alone mobile device internal memory acquisition and review the status flags for text messages present on the SIM.	SPT-37
Acquire SIM memory and review hash values for vendor supported data objects.	SPT-39

**Table 1c: Selected Test Cases (iPhone\_3.1.2)**

<b>Supported Optional Feature</b>	<b>Cases Selected for Execution</b>
Base cases	SPT-01, SPT-02, SPT-03, SPT-04, SPT-05, SPT-06, SPT-07, SPT-08, SPT-09, SPT-10, SPT-12, SPT-13
Acquire mobile device internal memory and review reported data via supported generated report formats.	SPT-24
Acquire mobile device internal memory and review reported data via the preview pane.	SPT-25
Acquire mobile device internal memory and review data containing non-ASCII characters.	SPT-33
Acquire mobile device internal memory and review hash values for vendor supported data objects.	SPT-38
Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.	SPT-40

**Table 2c: Omitted Test Cases (iPhone\_3.1.2)**

<b>Unsupported Optional Feature</b>	<b>Cases omitted - not executed</b>
Acquire mobile device internal memory and review application related data (i.e., word documents, spreadsheet, presentation documents).	SPT-11
Acquire SIM memory over supported interfaces (e.g., PC/SC reader).	SPT-14
Attempt acquisition of a nonsupported SIM.	SPT-15
Begin SIM acquisition and interrupt connectivity by interface disengagement.	SPT-16
Acquire SIM memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).	SPT-17
Acquire SIM memory and review reported Abbreviated Dialing Numbers (ADN).	SPT-18
Acquire SIM memory and review reported Last Numbers Dialed (LND).	SPT-19

Unsupported Optional Feature	Cases omitted - not executed
Acquire SIM memory and review reported text messages (SMS, EMS).	SPT-20
Acquire SIM memory and review recoverable deleted text messages (SMS, EMS).	SPT-21
Acquire SIM memory and review reported location related data (i.e., LOCI, GPRSLOCI).	SPT-22
Acquire SIM memory by selecting a combination of supported data elements.	SPT-23
Acquire SIM memory and review reported data via supported generated report formats.	SPT-26
Acquire SIM memory and review reported data via the preview-pane.	SPT-27
Attempt acquisition of a password-protected SIM.	SPT-28
After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.	SPT-29
After a successful SIM acquisition, alter the case file via third-party means and attempt to re-open the case.	SPT-30
Perform a physical acquisition and review data output for readability.	SPT-31
Perform a physical acquisition and review reports for recoverable deleted data.	SPT-32
Acquire SIM memory and review data containing non-ASCII characters.	SPT-34
Begin acquisition on a PIN protected SIM to determine if the tool provides an accurate count of the remaining number of PIN attempts and if the PIN attempts are decremented when entering an incorrect value.	SPT-35
Begin acquisition on a SIM whose PIN attempts have been exhausted to determine if the tool provides an accurate count of the remaining number of PUK attempts and if the PUK attempts are decremented when entering an incorrect value.	SPT-36
Perform a stand-alone mobile device internal memory acquisition and review the status flags for text messages present on the SIM.	SPT-37
Acquire SIM memory and review hash values for vendor supported data objects.	SPT-39

**Table 1d: Selected Test Cases (iPhone\_3.1.3)**

Supported Optional Feature	Cases Selected for Execution
Base cases	SPT-01, SPT-02, SPT-03, SPT-04, SPT-05, SPT-06, SPT-07, SPT-08, SPT-09, SPT-10, SPT-12, SPT-13
Acquire mobile device internal memory and review reported data via supported generated report formats.	SPT-24
Acquire mobile device internal memory and review reported data via the preview pane.	SPT-25
Acquire mobile device internal memory and review data containing non-ASCII	SPT-33



Supported Optional Feature	Cases Selected for Execution
characters.	
Acquire mobile device internal memory and review hash values for vendor supported data objects.	SPT-38
Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.	SPT-40

**Table 2d: Omitted Test Cases (iPhone\_3.1.3)**

Unsupported Optional Feature	Cases omitted - not executed
Acquire mobile device internal memory and review application related data (i.e., word documents, spreadsheet, presentation documents).	SPT-11
Acquire SIM memory over supported interfaces (e.g., PC/SC reader).	SPT-14
Attempt acquisition of a nonsupported SIM.	SPT-15
Begin SIM acquisition and interrupt connectivity by interface disengagement.	SPT-16
Acquire SIM memory and review reported subscriber and equipment related information (i.e., SPN, ICCID, IMSI, MSISDN).	SPT-17
Acquire SIM memory and review reported Abbreviated Dialing Numbers (ADN).	SPT-18
Acquire SIM memory and review reported Last Numbers Dialed (LND).	SPT-19
Acquire SIM memory and review reported text messages (SMS, EMS).	SPT-20
Acquire SIM memory and review recoverable deleted text messages (SMS, EMS).	SPT-21
Acquire SIM memory and review reported location related data (i.e., LOCI, GPRSLOC).	SPT-22
Acquire SIM memory by selecting a combination of supported data elements.	SPT-23
Acquire SIM memory and review reported data via supported generated report formats.	SPT-26
Acquire SIM memory and review reported data via the preview-pane.	SPT-27
Attempt acquisition of a password-protected SIM.	SPT-28
After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.	SPT-29
After a successful SIM acquisition, alter the case file via third-party means and attempt to re-open the case.	SPT-30
Perform a physical acquisition and review data output for readability.	SPT-31
Perform a physical acquisition and review reports for recoverable deleted data.	SPT-32
Acquire SIM memory and review data containing non-ASCII characters.	SPT-34
Begin acquisition on a PIN protected SIM to determine if the tool provides an accurate count of the remaining number of PIN attempts and if the PIN	SPT-35

Unsupported Optional Feature	Cases omitted - not executed
attempts are decremented when entering an incorrect value.	
Begin acquisition on a SIM whose PIN attempts have been exhausted to determine if the tool provides an accurate count of the remaining number of PUK attempts and if the PUK attempts are decremented when entering an incorrect value.	SPT-36
Perform a stand-alone mobile device internal memory acquisition and review the status flags for text messages present on the SIM.	SPT-37
Acquire SIM memory and review hash values for vendor supported data objects.	SPT-39

### 3 Results by Test Assertion

A test assertion is a verifiable statement about a single condition after an action is performed by the tool under test. A test case usually checks a group of assertions after the action of a single execution of the tool under test. Test assertions are defined and linked to test cases in *Smart Phone Tool Test Assertions and Test Plan Version 1.0*.

Tables 3a – 3d summarize the test results by assertion. The column labeled **Assertions Tested** describes the text of each assertion. The column labeled **Tests** gives the number of test cases that use the given assertion. The column labeled **Anomaly** gives the section number in this report where any anomalies are discussed.

**Table 3a: Assertions Tested (iPhone4 GSM)**

Assertions Tested	Tests	Anomaly
SPT-CA-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).	1	
SPT-CA-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall notify the user that the device is not supported.	1	3.1
SPT-CA-03 If connectivity between the mobile device and cellular forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.	1	
SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.	2	
SPT-CA-05 If a cellular forensic tool completes acquisition of the target device without error then subscriber-related information shall be presented in a useable format.	1	
SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be	1	

Assertions Tested	Tests	Anomaly
presented in a useable format.		
SPT-CA-07 If a cellular forensic tool completes acquisition of the target device without error then address book entries shall be presented in a useable format.	1	
SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format.	1	3.3
SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format.	1	
SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format.	1	
SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format.	1	
SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format.	1	
SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format.	1	
SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format.	1	
SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format.	1	
SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.	1	
SPT-CA-17 If a cellular forensic tool completes acquisition of the target device without error then ASCII text messages (i.e., SMS, EMS) shall be presented in a useable format.	1	
SPT-CA-18 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps for text messages shall be presented in a useable format.	1	
SPT-CA-19 If a cellular forensic tool completes acquisition of the target device without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.	1	
SPT-CA-20 If a cellular forensic tool completes acquisition of the target device without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.	1	
SPT-CA-21 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated audio shall be	1	

Assertions Tested	Tests	Anomaly
presented in a useable format.		
SPT-CA-22 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated graphic files shall be presented in a useable format.	1	
SPT-CA-23 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated video shall be presented in a useable format.	1	
SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.	1	
SPT-CA-29 If a cellular forensic tool provides the user with an “Acquire All” device data objects acquisition option then the tool shall complete the acquisition of all data objects without error.	2	
SPT-CA-30 If a cellular forensic tool provides the user with a “Select All” individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error.	2	
SPT-CA-31 If a cellular forensic tool provides the user with the ability to “Select Individual” device data objects for acquisition then the tool shall acquire each exclusive data object without error.	2	
SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.	1	
SPT-AO-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.	1	
SPT-AO-26 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format in a preview pane view.	1	
SPT-AO-40 If the cellular forensic tool supports display of non-ASCII characters then the application should present address book entries in their native format.	1	
SPT-AO-41 If the cellular forensic tool supports proper display of non-	1	

Assertions Tested	Tests	Anomaly
ASCII characters then the application should present text messages in their native format.		
SPT-AO-43 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.	1	
SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.	1	

**Table 3b: Assertions Tested: (iPhone4 CDMA)**

Assertions Tested	Tests	Anomaly
SPT-CA-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).	1	
SPT-CA-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall notify the user that the device is not supported.	1	3.1
SPT-CA-03 If connectivity between the mobile device and cellular forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.	1	
SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.	2	
SPT-CA-05 If a cellular forensic tool completes acquisition of the target device without error then subscriber-related information shall be presented in a useable format.	1	3.2
SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be presented in a useable format.	1	3.2
SPT-CA-07 If a cellular forensic tool completes acquisition of the target device without error then address book entries shall be presented in a useable format.	1	
SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format.	1	3.3
SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format.	1	
SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format.	1	
SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book	1	

Assertions Tested	Tests	Anomaly
entries shall be presented in a useable format.		
SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format.	1	
SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format.	1	
SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format.	1	
SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format.	1	
SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.	1	
SPT-CA-17 If a cellular forensic tool completes acquisition of the target device without error then ASCII text messages (i.e., SMS, EMS) shall be presented in a useable format.	1	
SPT-CA-18 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps for text messages shall be presented in a useable format.	1	
SPT-CA-19 If a cellular forensic tool completes acquisition of the target device without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.	1	
SPT-CA-20 If a cellular forensic tool completes acquisition of the target device without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.	1	
SPT-CA-21 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated audio shall be presented in a useable format.	1	
SPT-CA-22 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated graphic files shall be presented in a useable format.	1	
SPT-CA-23 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated video shall be presented in a useable format.	1	
SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application.	1	

Assertions Tested	Tests	Anomaly
SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.	1	
SPT-CA-29 If a cellular forensic tool provides the user with an “Acquire All” device data objects acquisition option then the tool shall complete the acquisition of all data objects without error.	2	
SPT-CA-30 If a cellular forensic tool provides the user with a “Select All” individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error.	2	
SPT-CA-31 If a cellular forensic tool provides the user with the ability to “Select Individual” device data objects for acquisition then the tool shall acquire each exclusive data object without error.	2	
SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.	1	
SPT-AO-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.	1	
SPT-AO-26 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format in a preview pane view.	1	
SPT-AO-40 If the cellular forensic tool supports display of non-ASCII characters then the application should present address book entries in their native format.	1	
SPT-AO-41 If the cellular forensic tool supports proper display of non-ASCII characters then the application should present text messages in their native format.	1	
SPT-AO-43 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.	1	
SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.	1	

**Table 3c: Assertions Tested: (iPhone\_3.1.2)**

Assertions Tested	Tests	Anomaly
SPT-CA-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).	1	
SPT-CA-02 If a cellular forensic tool attempts to connect to a	1	3.1

Assertions Tested	Tests	Anomaly
nonsupported device then the tool shall notify the user that the device is not supported.		
SPT-CA-03 If connectivity between the mobile device and cellular forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.	1	
SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.	2	
SPT-CA-05 If a cellular forensic tool completes acquisition of the target device without error then subscriber-related information shall be presented in a useable format.	1	
SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be presented in a useable format.	1	
SPT-CA-07 If a cellular forensic tool completes acquisition of the target device without error then address book entries shall be presented in a useable format.	1	
SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format.	1	3.3
SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format.	1	
SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format.	1	
SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format.	1	
SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format.	1	
SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format.	1	
SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format.	1	
SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format.	1	
SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.	1	



Assertions Tested	Tests	Anomaly
SPT-CA-17 If a cellular forensic tool completes acquisition of the target device without error then ASCII text messages (i.e., SMS, EMS) shall be presented in a useable format.	1	
SPT-CA-18 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps for text messages shall be presented in a useable format.	1	
SPT-CA-19 If a cellular forensic tool completes acquisition of the target device without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.	1	
SPT-CA-20 If a cellular forensic tool completes acquisition of the target device without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.	1	
SPT-CA-21 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated audio shall be presented in a useable format.	1	
SPT-CA-22 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated graphic files shall be presented in a useable format.	1	
SPT-CA-23 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated video shall be presented in a useable format.	1	
SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.	1	3.4
SPT-CA-29 If a cellular forensic tool provides the user with an “Acquire All” device data objects acquisition option then the tool shall complete the acquisition of all data objects without error.	2	
SPT-CA-30 If a cellular forensic tool provides the user with a “Select All” individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error.	2	
SPT-CA-31 If a cellular forensic tool provides the user with the ability to “Select Individual” device data objects for acquisition then the tool	2	

Assertions Tested	Tests	Anomaly
shall acquire each exclusive data object without error.		
SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.	1	
SPT-AO-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.	1	
SPT-AO-26 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format in a preview pane view.	1	
SPT-AO-40 If the cellular forensic tool supports display of non-ASCII characters then the application should present address book entries in their native format.	1	
SPT-AO-41 If the cellular forensic tool supports proper display of non-ASCII characters then the application should present text messages in their native format.	1	
SPT-AO-43 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.	1	
SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.	1	

**Table 3d: Assertions Tested: (iPhone\_3.1.3)**

Assertions Tested	Tests	Anomaly
SPT-CA-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).	1	
SPT-CA-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall notify the user that the device is not supported.	1	3.1
SPT-CA-03 If connectivity between the mobile device and cellular forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.	1	
SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.	2	
SPT-CA-05 If a cellular forensic tool completes acquisition of the target device without error then subscriber-related information shall be presented in a useable format.	1	
SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be presented in a useable format.	1	
SPT-CA-07 If a cellular forensic tool completes acquisition of the target	1	

Assertions Tested	Tests	Anomaly
device without error then address book entries shall be presented in a useable format.		
SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format.	1	3.3
SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format.	1	
SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format.	1	
SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format.	1	
SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format.	1	
SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format.	1	
SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format.	1	
SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format.	1	
SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.	1	
SPT-CA-17 If a cellular forensic tool completes acquisition of the target device without error then ASCII text messages (i.e., SMS, EMS) shall be presented in a useable format.	1	
SPT-CA-18 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps for text messages shall be presented in a useable format.	1	
SPT-CA-19 If a cellular forensic tool completes acquisition of the target device without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.	1	
SPT-CA-20 If a cellular forensic tool completes acquisition of the target device without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.	1	
SPT-CA-21 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated audio shall be presented in a useable format.	1	
SPT-CA-22 If a cellular forensic tool completes acquisition of the target	1	

Assertions Tested	Tests	Anomaly
device without error then MMS messages and associated graphic files shall be presented in a useable format.		
SPT-CA-23 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated video shall be presented in a useable format.	1	
SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.	1	
SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.	1	3.4
SPT-CA-29 If a cellular forensic tool provides the user with an “Acquire All” device data objects acquisition option then the tool shall complete the acquisition of all data objects without error.	2	
SPT-CA-30 If a cellular forensic tool provides the user with an “Select All” individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error.	2	
SPT-CA-31 If a cellular forensic tool provides the user with the ability to “Select Individual” device data objects for acquisition then the tool shall acquire each exclusive data object without error.	2	
SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.	1	
SPT-AO-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.	1	
SPT-AO-26 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format in a preview pane view.	1	
SPT-AO-40 If the cellular forensic tool supports display of non-ASCII characters then the application should present address book entries in their native format.	1	
SPT-AO-41 If the cellular forensic tool supports proper display of non-ASCII characters then the application should present text messages in their native format.	1	

Assertions Tested	Tests	Anomaly
SPT-AO-43 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.	1	
SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.	1	

Table 4a-4d list the assertions that were not tested, usually due to the tool not supporting an optional feature.

**Table 4a: Assertions Not Tested (iPhone4 GSM)**

Assertions Not Tested
SPT-CA-27 If a cellular forensic tool completes acquisition of the target device without error then device specific application related data shall be acquired and presented in a useable format via either an internal application or suggested third-party application.
SPT-AO-01 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all tool-supported interfaces (e.g., PC/SC reader, proprietary reader, Smart Phone itself).
SPT-AO-02 If a cellular forensic tool attempts to connect to a nonsupported SIM then the tool shall notify the user that the SIM is not supported.
SPT-AO-03 If a cellular forensic tool loses connectivity with the SIM reader then the tool shall notify the user that connectivity has been disrupted.
SPT-AO-04 If a cellular forensic tool completes acquisition of the target SIM without error then the SPN shall be presented in a useable format.
SPT-AO-05 If a cellular forensic tool completes acquisition of the target SIM without error then the ICCID shall be presented in a useable format.
SPT-AO-06 If a cellular forensic tool completes acquisition of the target SIM without error then the IMSI shall be presented in a useable format.
SPT-AO-07 If a cellular forensic tool completes acquisition of the target SIM without error then the MSISDN shall be presented in a useable format.
SPT-AO-08 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII Abbreviated Dialing Numbers (ADN) shall be presented in a useable format.
SPT-AO-09 If a cellular forensic tool completes acquisition of the target SIM without error then maximum length ADNs shall be presented in a useable format.
SPT-AO-10 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing special characters shall be presented in a useable format.
SPT-AO-11 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing blank names shall be presented in a useable format.
SPT-AO-12 If a cellular forensic tool completes acquisition of the target SIM without error then Last Numbers Dialed (LND) shall be presented in a useable format.
SPT-AO-13 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for LNDs shall be presented in a useable format.

Assertions Not Tested
SPT-AO-14 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII SMS text messages shall be presented in a useable format.
SPT-AO-15 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII EMS text messages shall be presented in a useable format.
SPT-AO-16 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for all text messages shall be presented in a useable format.
SPT-AO-17 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.
SPT-AO-18 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.
SPT-AO-19 If the cellular forensic tool completes acquisition of the target SIM without error then deleted text messages that have not been overwritten shall be presented in a useable format.
SPT-AO-20 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., LOCI) shall be presented in a useable format.
SPT-AO-21 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., GRPSLOCI) shall be presented in a useable format.
SPT-AO-22 If a cellular forensic tool provides the user with an “Acquire All” SIM data objects acquisition option then the tool shall complete the acquisition of all data objects without error.
SPT-AO-23 If a cellular forensic tool provides the user with a “Select All” individual SIM data objects then the tool shall complete the acquisition of all individually selected data objects without error.
SPT-AO-24 If a cellular forensic tool provides the user with the ability to “Select Individual” SIM data objects for acquisition then the tool shall acquire each exclusive data object without error.
SPT-AO-27 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
SPT-AO-28 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.
SPT-AO-29 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.
SPT-AO-30 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.
SPT-AO-31 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall complete the acquisition without error.
SPT-AO-32 If the cellular forensic tool supports the interpretation of address book entries present on the target device then the tool shall report recoverable active and deleted data or address book data remnants in a useable format.

Assertions Not Tested
SPT-AO-33 If the cellular forensic tool supports the interpretation of calendar, tasks, or notes present on the target device then the tool shall report recoverable active and deleted calendar, tasks, or note data remnants in a useable format.
SPT-AO-34 If the cellular forensic tool supports the interpretation of call logs present on the target device then the tool shall report recoverable active and deleted call or call log data remnants in a useable format.
SPT-AO-35 If the cellular forensic tool supports the interpretation of SMS messages present on the target device then the tool shall report recoverable active and deleted SMS messages or SMS message data remnants in a useable format.
SPT-AO-36 If the cellular forensic tool supports the interpretation of EMS messages present on the target device then the tool shall report recoverable active and deleted EMS messages or EMS message data remnants in a useable format.
SPT-AO-37 If the cellular forensic tool supports the interpretation of audio files present on the target device then the tool shall report recoverable active and deleted audio data or audio file data remnants in a useable format.
SPT-AO-38 If the cellular forensic tool supports the interpretation of graphic files present on the target device then the tool shall report recoverable active and deleted graphic file data or graphic file data remnants in a useable format.
SPT-AO-39 If the cellular forensic tool supports the interpretation of video files present on the target device then the tool shall report recoverable active and deleted video file data or video file data remnants in a useable format.
SPT-AO-42 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.

**Table 4b: Assertions Not Tested (iPhone4 CDMA)**

Assertions Not Tested
SPT-CA-27 If a cellular forensic tool completes acquisition of the target device without error then device specific application related data shall be acquired and presented in a useable format via either an internal application or suggested third-party application.
SPT-AO-01 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all tool-supported interfaces (e.g., PC/SC reader, proprietary reader, Smart Phone itself).
SPT-AO-02 If a cellular forensic tool attempts to connect to a nonsupported SIM then the tool shall notify the user that the SIM is not supported.
SPT-AO-03 If a cellular forensic tool loses connectivity with the SIM reader then the tool shall notify the user that connectivity has been disrupted.
SPT-AO-04 If a cellular forensic tool completes acquisition of the target SIM without error then the SPN shall be presented in a useable format.
SPT-AO-05 If a cellular forensic tool completes acquisition of the target SIM without error then the ICCID shall be presented in a useable format.
SPT-AO-06 If a cellular forensic tool completes acquisition of the target SIM without error then the IMSI shall be presented in a useable format.
SPT-AO-07 If a cellular forensic tool completes acquisition of the target SIM without

Assertions Not Tested
error then the MSISDN shall be presented in a useable format.
SPT-AO-08 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII Abbreviated Dialing Numbers (ADN) shall be presented in a useable format.
SPT-AO-09 If a cellular forensic tool completes acquisition of the target SIM without error then maximum length ADNs shall be presented in a useable format.
SPT-AO-10 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing special characters shall be presented in a useable format.
SPT-AO-11 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing blank names shall be presented in a useable format.
SPT-AO-12 If a cellular forensic tool completes acquisition of the target SIM without error then Last Numbers Dialed (LND) shall be presented in a useable format.
SPT-AO-13 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for LNDs shall be presented in a useable format.
SPT-AO-14 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII SMS text messages shall be presented in a useable format.
SPT-AO-15 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII EMS text messages shall be presented in a useable format.
SPT-AO-16 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for all text messages shall be presented in a useable format.
SPT-AO-17 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.
SPT-AO-18 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.
SPT-AO-19 If the cellular forensic tool completes acquisition of the target SIM without error then deleted text messages that have not been overwritten shall be presented in a useable format.
SPT-AO-20 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., LOCI) shall be presented in a useable format.
SPT-AO-21 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., GRPSLOCI) shall be presented in a useable format.
SPT-AO-22 If a cellular forensic tool provides the user with an “Acquire All” SIM data objects acquisition option then the tool shall complete the acquisition of all data objects without error.
SPT-AO-23 If a cellular forensic tool provides the user with a “Select All” individual SIM data objects then the tool shall complete the acquisition of all individually selected data objects without error.
SPT-AO-24 If a cellular forensic tool provides the user with the ability to “Select Individual” SIM data objects for acquisition then the tool shall acquire each exclusive data object without error.
SPT-AO-27 If the case file or individual data objects are modified via third-party means



Assertions Not Tested
then the tool shall provide protection mechanisms disallowing or reporting data modification.
SPT-AO-28 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.
SPT-AO-29 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.
SPT-AO-30 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.
SPT-AO-31 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall complete the acquisition without error.
SPT-AO-32 If the cellular forensic tool supports the interpretation of address book entries present on the target device then the tool shall report recoverable active and deleted data or address book data remnants in a useable format.
SPT-AO-33 If the cellular forensic tool supports the interpretation of calendar, tasks, or notes present on the target device then the tool shall report recoverable active and deleted calendar, tasks, or note data remnants in a useable format.
SPT-AO-34 If the cellular forensic tool supports the interpretation of call logs present on the target device then the tool shall report recoverable active and deleted call or call log data remnants in a useable format.
SPT-AO-35 If the cellular forensic tool supports the interpretation of SMS messages present on the target device then the tool shall report recoverable active and deleted SMS messages or SMS message data remnants in a useable format.
SPT-AO-36 If the cellular forensic tool supports the interpretation of EMS messages present on the target device then the tool shall report recoverable active and deleted EMS messages or EMS message data remnants in a useable format.
SPT-AO-37 If the cellular forensic tool supports the interpretation of audio files present on the target device then the tool shall report recoverable active and deleted audio data or audio file data remnants in a useable format.
SPT-AO-38 If the cellular forensic tool supports the interpretation of graphic files present on the target device then the tool shall report recoverable active and deleted graphic file data or graphic file data remnants in a useable format.
SPT-AO-39 If the cellular forensic tool supports the interpretation of video files present on the target device then the tool shall report recoverable active and deleted video file data or video file data remnants in a useable format.
SPT-AO-42 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.

**Table 4c: Assertions Not Tested (iPhone\_3.1.2)**

Assertions Not Tested
SPT-CA-27 If a cellular forensic tool completes acquisition of the target device without error then device specific application related data shall be acquired and presented in a

Assertions Not Tested
useable format via either an internal application or suggested third-party application.
SPT-AO-01 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all tool-supported interfaces (e.g., PC/SC reader, proprietary reader, Smart Phone itself).
SPT-AO-02 If a cellular forensic tool attempts to connect to a nonsupported SIM then the tool shall notify the user that the SIM is not supported.
SPT-AO-03 If a cellular forensic tool loses connectivity with the SIM reader then the tool shall notify the user that connectivity has been disrupted.
SPT-AO-04 If a cellular forensic tool completes acquisition of the target SIM without error then the SPN shall be presented in a useable format.
SPT-AO-05 If a cellular forensic tool completes acquisition of the target SIM without error then the ICCID shall be presented in a useable format.
SPT-AO-06 If a cellular forensic tool completes acquisition of the target SIM without error then the IMSI shall be presented in a useable format.
SPT-AO-07 If a cellular forensic tool completes acquisition of the target SIM without error then the MSISDN shall be presented in a useable format.
SPT-AO-08 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII Abbreviated Dialing Numbers (ADN) shall be presented in a useable format.
SPT-AO-09 If a cellular forensic tool completes acquisition of the target SIM without error then maximum length ADNs shall be presented in a useable format.
SPT-AO-10 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing special characters shall be presented in a useable format.
SPT-AO-11 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing blank names shall be presented in a useable format.
SPT-AO-12 If a cellular forensic tool completes acquisition of the target SIM without error then Last Numbers Dialed (LND) shall be presented in a useable format.
SPT-AO-13 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for LNDs shall be presented in a useable format.
SPT-AO-14 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII SMS text messages shall be presented in a useable format.
SPT-AO-15 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII EMS text messages shall be presented in a useable format.
SPT-AO-16 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for all text messages shall be presented in a useable format.
SPT-AO-17 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.
SPT-AO-18 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.
SPT-AO-19 If the cellular forensic tool completes acquisition of the target SIM without error then deleted text messages that have not been overwritten shall be presented in a

Assertions Not Tested
useable format.
SPT-AO-20 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., LOCI) shall be presented in a useable format.
SPT-AO-21 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., GRPSLOCI) shall be presented in a useable format.
SPT-AO-22 If a cellular forensic tool provides the user with an “Acquire All” SIM data objects acquisition option then the tool shall complete the acquisition of all data objects without error.
SPT-AO-23 If a cellular forensic tool provides the user with a “Select All” individual SIM data objects then the tool shall complete the acquisition of all individually selected data objects without error.
SPT-AO-24 If a cellular forensic tool provides the user with the ability to “Select Individual” SIM data objects for acquisition then the tool shall acquire each exclusive data object without error.
SPT-AO-27 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
SPT-AO-28 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.
SPT-AO-29 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.
SPT-AO-30 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.
SPT-AO-31 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall complete the acquisition without error.
SPT-AO-32 If the cellular forensic tool supports the interpretation of address book entries present on the target device then the tool shall report recoverable active and deleted data or address book data remnants in a useable format.
SPT-AO-33 If the cellular forensic tool supports the interpretation of calendar, tasks, or notes present on the target device then the tool shall report recoverable active and deleted calendar, tasks, or note data remnants in a useable format.
SPT-AO-34 If the cellular forensic tool supports the interpretation of call logs present on the target device then the tool shall report recoverable active and deleted call or call log data remnants in a useable format.
SPT-AO-35 If the cellular forensic tool supports the interpretation of SMS messages present on the target device then the tool shall report recoverable active and deleted SMS messages or SMS message data remnants in a useable format.
SPT-AO-36 If the cellular forensic tool supports the interpretation of EMS messages present on the target device then the tool shall report recoverable active and deleted EMS messages or EMS message data remnants in a useable format.
SPT-AO-37 If the cellular forensic tool supports the interpretation of audio files present on the target device then the tool shall report recoverable active and deleted audio data or audio file data remnants in a useable format.

Assertions Not Tested
SPT-AO-38 If the cellular forensic tool supports the interpretation of graphic files present on the target device then the tool shall report recoverable active and deleted graphic file data or graphic file data remnants in a useable format.
SPT-AO-39 If the cellular forensic tool supports the interpretation of video files present on the target device then the tool shall report recoverable active and deleted video file data or video file data remnants in a useable format.
SPT-AO-42 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.

**Table 4d: Assertions Not Tested (iPhone\_3.1.3)**

Assertions Not Tested
SPT-CA-27 If a cellular forensic tool completes acquisition of the target device without error then device specific application related data shall be acquired and presented in a useable format via either an internal application or suggested third-party application.
SPT-AO-01 If a cellular forensic tool provides support for connectivity of the target SIM then the tool shall successfully recognize the target SIM via all tool-supported interfaces (e.g., PC/SC reader, proprietary reader, Smart Phone itself).
SPT-AO-02 If a cellular forensic tool attempts to connect to a nonsupported SIM then the tool shall notify the user that the SIM is not supported.
SPT-AO-03 If a cellular forensic tool loses connectivity with the SIM reader then the tool shall notify the user that connectivity has been disrupted.
SPT-AO-04 If a cellular forensic tool completes acquisition of the target SIM without error then the SPN shall be presented in a useable format.
SPT-AO-05 If a cellular forensic tool completes acquisition of the target SIM without error then the ICCID shall be presented in a useable format.
SPT-AO-06 If a cellular forensic tool completes acquisition of the target SIM without error then the IMSI shall be presented in a useable format.
SPT-AO-07 If a cellular forensic tool completes acquisition of the target SIM without error then the MSISDN shall be presented in a useable format.
SPT-AO-08 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII Abbreviated Dialing Numbers (ADN) shall be presented in a useable format.
SPT-AO-09 If a cellular forensic tool completes acquisition of the target SIM without error then maximum length ADNs shall be presented in a useable format.
SPT-AO-10 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing special characters shall be presented in a useable format.
SPT-AO-11 If a cellular forensic tool completes acquisition of the SIM without error then ADNs containing blank names shall be presented in a useable format.
SPT-AO-12 If a cellular forensic tool completes acquisition of the target SIM without error then Last Numbers Dialed (LND) shall be presented in a useable format.
SPT-AO-13 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for LNDs shall be presented in a useable format.

Assertions Not Tested
SPT-AO-14 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII SMS text messages shall be presented in a useable format.
SPT-AO-15 If a cellular forensic tool completes acquisition of the target SIM without error then ASCII EMS text messages shall be presented in a useable format.
SPT-AO-16 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding date/time stamps for all text messages shall be presented in a useable format.
SPT-AO-17 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.
SPT-AO-18 If a cellular forensic tool completes acquisition of the target SIM without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.
SPT-AO-19 If the cellular forensic tool completes acquisition of the target SIM without error then deleted text messages that have not been overwritten shall be presented in a useable format.
SPT-AO-20 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., LOCI) shall be presented in a useable format.
SPT-AO-21 If a cellular forensic tool completes acquisition of the target SIM without error then location related data (i.e., GRPSLOCI) shall be presented in a useable format.
SPT-AO-22 If a cellular forensic tool provides the user with an “Acquire All” SIM data objects acquisition option then the tool shall complete the acquisition of all data objects without error.
SPT-AO-23 If a cellular forensic tool provides the user with a “Select All” individual SIM data objects then the tool shall complete the acquisition of all individually selected data objects without error.
SPT-AO-24 If a cellular forensic tool provides the user with the ability to “Select Individual” SIM data objects for acquisition then the tool shall acquire each exclusive data object without error.
SPT-AO-27 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
SPT-AO-28 If the SIM is password-protected then the cellular forensic tool shall provide the examiner with the opportunity to input the PIN before acquisition.
SPT-AO-29 If a cellular forensic tool provides the examiner with the remaining number of authentication attempts then the application should provide an accurate count of the remaining PIN attempts.
SPT-AO-30 If a cellular forensic tool provides the examiner with the remaining number of PUK attempts then the application should provide an accurate count of the remaining PUK attempts.
SPT-AO-31 If the cellular forensic tool supports a physical acquisition of the target device then the tool shall complete the acquisition without error.
SPT-AO-32 If the cellular forensic tool supports the interpretation of address book entries present on the target device then the tool shall report recoverable active and deleted data or address book data remnants in a useable format.

Assertions Not Tested
SPT-AO-33 If the cellular forensic tool supports the interpretation of calendar, tasks, or notes present on the target device then the tool shall report recoverable active and deleted calendar, tasks, or note data remnants in a useable format.
SPT-AO-34 If the cellular forensic tool supports the interpretation of call logs present on the target device then the tool shall report recoverable active and deleted call or call log data remnants in a useable format.
SPT-AO-35 If the cellular forensic tool supports the interpretation of SMS messages present on the target device then the tool shall report recoverable active and deleted SMS messages or SMS message data remnants in a useable format.
SPT-AO-36 If the cellular forensic tool supports the interpretation of EMS messages present on the target device then the tool shall report recoverable active and deleted EMS messages or EMS message data remnants in a useable format.
SPT-AO-37 If the cellular forensic tool supports the interpretation of audio files present on the target device then the tool shall report recoverable active and deleted audio data or audio file data remnants in a useable format.
SPT-AO-38 If the cellular forensic tool supports the interpretation of graphic files present on the target device then the tool shall report recoverable active and deleted graphic file data or graphic file data remnants in a useable format.
SPT-AO-39 If the cellular forensic tool supports the interpretation of video files present on the target device then the tool shall report recoverable active and deleted video file data or video file data remnants in a useable format.
SPT-AO-42 If the cellular forensic tool supports stand-alone acquisition of internal memory with the SIM present, then the contents of the SIM shall not be modified during internal memory acquisition.

The following sections provide detailed information for the anomalies from Tables 3a – 3d.

### ***3.1 Acquisition attempt of nonsupported devices***

For test case SPT-02, Lantern did not provide an error message informing the examiner that acquisition of the device (i.e., iPod nano) was not supported. A force quit of the acquire had to be performed.

### ***3.2 Acquisition of subscriber and equipment related information***

Subscriber and equipment related information, for the iPhone4 CDMA i.e., International Mobile Equipment Identity (IMEI) and the Mobile Equipment Identity (MEID) was not reported for test case SPT-05.

### ***3.3 Acquisition of Personal Information Management (PIM) data***

For test case SPT-06, address book contacts containing data fields for the First, Middle and Last names, Lantern reported only the First and Last Names, e.g., John Doe Smith, was reported as: John Smith. The middle name was not reported for the iPhone4 GSM, iPhone4 CDMA, iPhone\_3.1.2, and the iPhone\_3.1.3.

### 3.4 Acquisition of Internet related data

For test case SPT-12, Internet related data (i.e., bookmarks) were not reported for the iPhone\_3.1.2 and the iPhone\_3.1.3.

## 4 Testing Environment

The tests were run in the NIST CFTT lab. This section describes the testing environment including available computers, mobile devices and the data objects used to populate mobile devices and Subscriber Identity Modules.

### 4.1 Test Computers

One computer was used to run the tool: **p630542**.  
**p630542** has the following configuration:

MacBook Pro  
Intel® Core 2 Duo  
Processor Speed: 2.6 GHz  
Memory: 2GB  
Boot ROM Version: MBP31.0070.B05

### 4.2 Mobile Devices

The following table lists the mobile devices used.

**Table 4.2 Mobile Devices**

Make	Model	OS	Network
Apple iPhone	4	iOS v4.3.3 (8J2)	AT&T
Apple iPhone	4	iOS v5.0.1 (9A405)	Verizon
Apple iPhone	3Gs	iOS v3.1.2 (7D11)	AT&T
Apple iPhone	3G	iOS v3.1.3 (7E18)	AT&T

### 4.3 Internal Memory Data Objects

The following data objects were used to populate the internal memory of the Smart Phone s.

**Table 4.3 Internal memory data objects**

Data Objects	Data Elements
Address Book Entries	
	Regular Length
	Maximum Length
	Special Character
	Blank Name
	Regular Length, email
	Regular Length, graphic
	Deleted Entry

<b>Data Objects</b>	<b>Data Elements</b>
	Non-ASCII Entry
PIM Data	
	Regular Length
	Maximum Length
	Deleted Entry
	Special Character
Call Logs	
	Incoming
	Outgoing
	Missed
	Incoming - Deleted
	Outgoing - Deleted
	Missed - Deleted
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Outgoing SMS
	Incoming EMS - Read
	Incoming EMS - Unread
	Outgoing EMS
	Incoming SMS - Deleted
	Outgoing SMS - Deleted
	Incoming EMS - Deleted
	Outgoing EMS - Deleted
	Non-ASCII EMS
MMS Messages	
	Incoming Audio
	Incoming Graphic
	Incoming Video
	Outgoing Audio
	Outgoing Graphic
	Outgoing Video
Stand-alone data files	
	Audio
	Graphic
	Video
	Audio - Deleted
	Graphic - Deleted
	Video - Deleted
Application Data	
	Device Specific App Data
Location Data	
	GPS Coordinates



## 5 Test Results

The main item of interest for interpreting the test results is determining the conformance of the device with the test assertions. Conformance with each assertion tested by a given test case is evaluated by examining the **Log Highlights** box of the test report.

### 5.1 Test Results Report Key

The following table presents an explanation of each section of the test details in section 5.2. The Tester Name, Test Host, Test Date, Device, Source Setup and Log Highlights sections for each test case are populated by excerpts taken from the log files produced by the tool under test.

**Table 5 Test Results Report Key**

Heading	Description
First Line:	Test case ID, name, and version of tool tested.
Case Summary:	Test case summary from <i>Smart Phone Tool Test Assertion and Test Plan</i> .
Assertions:	The test assertions applicable to the test case, selected from <i>Smart Phone Tool Test Assertion and Test Plan</i> .
Tester Name:	Name or initials of person executing test procedure.
Test Host:	Host computer executing the test.
Test Date:	Time and date that test was started.
Device:	Source mobile device, SIM.
Source Setup:	Acquisition interface.
Log Highlights:	Information extracted from various log files to illustrate conformance or non-conformance to the test assertions.
Results:	Expected and actual results for each assertion tested.
Analysis:	Whether or not the expected results were achieved.

## 5.2 Test Details

The test results are presented in this section.

### 5.2.1 SPT-01 (iPhone4 GSM)

Test Case SPT-01 Lantern v2.3	
Case Summary:	SPT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	SPT-CA-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA). SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report. SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with a "Select All" individual device data objects then the tool shall complete the acquisition

Test Case SPT-01 Lantern v2.3															
	<p>of all individually selected data objects without error.</p> <p>SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.</p> <p>SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.</p>														
Tester Name:	rpa														
Test Host:	p630542														
Test Date:	Tue Sep 18 08:51:41 EDT 2012														
Device:	iPhone4_GSM														
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable														
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Tue Sep 18 08:51:41 EDT 2012</p> <p>Acquisition finished: Tue Sep 18 08:52:08 EDT 2012</p> <p>Device connectivity was established via supported interface</p>														
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr> <tr> <td>SPT-CA-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr> <tr> <td>SPT-CA-29 Acquire-All data objects acquisition.</td><td>as expected</td></tr> <tr> <td>SPT-CA-30 Select-All data objects acquisition.</td><td>as expected</td></tr> <tr> <td>SPT-CA-31 Select-Individual data objects acquisition.</td><td>as expected</td></tr> <tr> <td>SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-01 Device connectivity via supported interfaces.	as expected	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected	SPT-CA-29 Acquire-All data objects acquisition.	as expected	SPT-CA-30 Select-All data objects acquisition.	as expected	SPT-CA-31 Select-Individual data objects acquisition.	as expected	SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Assertion & Expected Result	Actual Result														
SPT-CA-01 Device connectivity via supported interfaces.	as expected														
SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected														
SPT-CA-29 Acquire-All data objects acquisition.	as expected														
SPT-CA-30 Select-All data objects acquisition.	as expected														
SPT-CA-31 Select-Individual data objects acquisition.	as expected														
SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected														
Analysis:	Expected results achieved														

## 5.2.2 SPT-02 (iPhone4 GSM)

Test Case SPT-02 Lantern v2.3					
Case Summary:	SPT-02 Attempt internal memory acquisition of a nonsupported mobile device.				
Assertions:	SPT-CA-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall notify the user that the device is not supported.				
Tester Name:	rpa				
Test Host:	p630542				
Test Date:	Tue Sep 18 08:55:35 EDT 2012				
Device:	unsupported_device				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Tue Sep 18 08:55:35 EDT 2012</p> <p>Acquisition finished: Tue Sep 18 08:56:37 EDT 2012</p> <p>Identification of nonsupported devices was not successful</p> <p><b>Notes:</b></p> <p>Acquisition of nonsupported devices (i.e., iPod Nano) did not provide an error message stating the device was not supported.</p>				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-02 Identification of nonsupported devices.</td><td>Not as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-02 Identification of nonsupported devices.	Not as expected
Assertion & Expected Result	Actual Result				
SPT-CA-02 Identification of nonsupported devices.	Not as expected				

Test Case SPT-02 Lantern v2.3	
Analysis:	Expected results not achieved

### 5.2.3 SPT-03 (iPhone4 GSM)

Test Case SPT-03 Lantern v2.3					
Case Summary:	SPT-03 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.				
Assertions:	SPT-CA-03 If connectivity between the mobile device and cellular forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.				
Tester Name:	rpa				
Test Host:	p630542				
Test Date:	Tue Sep 18 08:59:06 EDT 2012				
Device:	iPhone4_GSM				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 08:59:06 EDT 2012 Acquisition finished: Tue Sep 18 08:59:50 EDT 2012  Device acquisition disruption notification was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-03 Notification of device acquisition disruption.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-03 Notification of device acquisition disruption.	as expected
Assertion & Expected Result	Actual Result				
SPT-CA-03 Notification of device acquisition disruption.	as expected				
Analysis:	Expected results achieved				

### 5.2.4 SPT-04 (iPhone4 GSM)

Test Case SPT-04 Lantern v2.3					
Case Summary:	SPT-04 Acquire mobile device internal memory and review reported data via the preview pane or generated reports for readability.				
Assertions:	SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.				
Tester Name:	rpa				
Test Host:	p630542				
Test Date:	Tue Sep 18 09:02:43 EDT 2012				
Device:	iPhone4_GSM				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 09:02:43 EDT 2012 Acquisition finished: Tue Sep 18 09:16:31 EDT 2012  Readability and completeness of acquired data was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected
Assertion & Expected Result	Actual Result				
SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected				

Test Case SPT-04 Lantern v2.3	
Analysis:	Expected results achieved

## 5.2.5 SPT-05 (iPhone4 GSM)

Test Case SPT-05 Lantern v2.3							
Case Summary:	SPT-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMEI/MEID/ESN, MSISDN).						
Assertions:	SPT-CA-05 If a cellular forensic tool completes acquisition of the target device without error then subscriber-related information shall be presented in a useable format. SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be presented in a useable format.						
Tester Name:	rpa						
Test Host:	p630542						
Test Date:	Tue Sep 18 10:58:14 EDT 2012						
Device:	iPhone4 GSM						
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable						
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 10:58:14 EDT 2012 Acquisition finished: Tue Sep 18 10:59:14 EDT 2012  Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired						
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-05 Acquisition of MSISDN, IMSI.</td><td>as expected</td></tr> <tr> <td>SPT-CA-06 Acquisition of IMEI/MEID/ESN.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-05 Acquisition of MSISDN, IMSI.	as expected	SPT-CA-06 Acquisition of IMEI/MEID/ESN.	as expected
Assertion & Expected Result	Actual Result						
SPT-CA-05 Acquisition of MSISDN, IMSI.	as expected						
SPT-CA-06 Acquisition of IMEI/MEID/ESN.	as expected						
Analysis:	Expected results achieved						

## 5.2.6 SPT-06 (iPhone4 GSM)

Test Case SPT-06 Lantern v2.3	
Case Summary:	SPT-06 Acquire mobile device internal memory and review reported PIM related data.
Assertions:	SPT-CA-07 If a cellular forensic tool completes acquisition of the target device without error then address book entries shall be presented in a useable format. SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format. SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format. SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format. SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format. SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format. SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format. SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format.

<b>Test Case SPT-06 Lantern v2.3</b>																			
Tester Name:	rpa																		
Test Host:	p630542																		
Test Date:	Tue Sep 18 11:00:09 EDT 2012																		
Device:	iPhone4_GSM																		
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable																		
Log Highlights:	<p>Created by Lantern v2.3 Acquisition started: Tue Sep 18 11:00:09 EDT 2012 Acquisition finished: Tue Sep 18 11:09:01 EDT 2012</p> <p>Regular Length Address Book entries were acquired Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired</p> <p><b>Notes:</b> Contact entries containing middle names only reported the first and last name.</p>																		
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-07 Acquisition of address book entries.</td><td>as expected</td></tr> <tr> <td>SPT-CA-08 Acquisition of maximum length address book entries.</td><td>Not as expected</td></tr> <tr> <td>SPT-CA-09 Acquisition of address book entries containing special characters.</td><td>as expected</td></tr> <tr> <td>SPT-CA-10 Acquisition of address book entries containing a blank name entry.</td><td>as expected</td></tr> <tr> <td>SPT-CA-11 Acquisition of embedded email addresses within address book entries.</td><td>as expected</td></tr> <tr> <td>SPT-CA-12 Acquisition of embedded graphics within address book entries.</td><td>as expected</td></tr> <tr> <td>SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).</td><td>as expected</td></tr> <tr> <td>SPT-CA-14 Acquisition of maximum length PIM data.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-07 Acquisition of address book entries.	as expected	SPT-CA-08 Acquisition of maximum length address book entries.	Not as expected	SPT-CA-09 Acquisition of address book entries containing special characters.	as expected	SPT-CA-10 Acquisition of address book entries containing a blank name entry.	as expected	SPT-CA-11 Acquisition of embedded email addresses within address book entries.	as expected	SPT-CA-12 Acquisition of embedded graphics within address book entries.	as expected	SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	as expected	SPT-CA-14 Acquisition of maximum length PIM data.	as expected
Assertion & Expected Result	Actual Result																		
SPT-CA-07 Acquisition of address book entries.	as expected																		
SPT-CA-08 Acquisition of maximum length address book entries.	Not as expected																		
SPT-CA-09 Acquisition of address book entries containing special characters.	as expected																		
SPT-CA-10 Acquisition of address book entries containing a blank name entry.	as expected																		
SPT-CA-11 Acquisition of embedded email addresses within address book entries.	as expected																		
SPT-CA-12 Acquisition of embedded graphics within address book entries.	as expected																		
SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	as expected																		
SPT-CA-14 Acquisition of maximum length PIM data.	as expected																		
Analysis:	Partial results achieved																		

### 5.2.7 SPT-07 (iPhone4 GSM)

<b>Test Case SPT-07 Lantern v2.3</b>	
Case Summary:	SPT-07 Acquire mobile device internal memory and review reported call logs.
Assertions:	<p>SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format.</p> <p>SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.</p>
Tester Name:	rpa
Test Host:	p630542
Test Date:	Tue Sep 18 11:14:57 EDT 2012
Device:	iPhone4_GSM
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable
Log Highlights:	<p>Created by Lantern v2.3 Acquisition started: Tue Sep 18 11:14:57 EDT 2012</p>

Test Case SPT-07 Lantern v2.3							
	<p>Acquisition finished: Tue Sep 18 11:15:49 EDT 2012</p> <p>All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-15 Acquisition of call logs.</td><td>as expected</td></tr> <tr> <td>SPT-CA-16 Acquisition of call log date/time stamps.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-15 Acquisition of call logs.	as expected	SPT-CA-16 Acquisition of call log date/time stamps.	as expected
Assertion & Expected Result	Actual Result						
SPT-CA-15 Acquisition of call logs.	as expected						
SPT-CA-16 Acquisition of call log date/time stamps.	as expected						
Analysis:	Expected results achieved						

## 5.2.8 SPT-08 (iPhone4 GSM)

Test Case SPT-08 Lantern v2.3											
Case Summary:	SPT-08 Acquire mobile device internal memory and review reported text messages.										
Assertions:	<p>SPT-CA-17 If a cellular forensic tool completes acquisition of the target device without error then ASCII text messages (i.e., SMS, EMS) shall be presented in a useable format.</p> <p>SPT-CA-18 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps for text messages shall be presented in a useable format.</p> <p>SPT-CA-19 If a cellular forensic tool completes acquisition of the target device without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.</p> <p>SPT-CA-20 If a cellular forensic tool completes acquisition of the target device without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.</p>										
Tester Name:	rpa										
Test Host:	p630542										
Test Date:	Tue Sep 18 11:16:56 EDT 2012										
Device:	iPhone4_GSM										
Source Setup:	<p>OS: Mac OS X v10.6.8</p> <p>Interface: cable</p>										
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Tue Sep 18 11:16:56 EDT 2012</p> <p>Acquisition finished: Tue Sep 18 11:25:43 EDT 2012</p> <p>ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported</p>										
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-17 Acquisition of text messages.</td><td>as expected</td></tr> <tr> <td>SPT-CA-18 Acquisition of text message date/time stamps.</td><td>as expected</td></tr> <tr> <td>SPT-CA-19 Acquisition of text message status flags.</td><td>as expected</td></tr> <tr> <td>SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-17 Acquisition of text messages.	as expected	SPT-CA-18 Acquisition of text message date/time stamps.	as expected	SPT-CA-19 Acquisition of text message status flags.	as expected	SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected
Assertion & Expected Result	Actual Result										
SPT-CA-17 Acquisition of text messages.	as expected										
SPT-CA-18 Acquisition of text message date/time stamps.	as expected										
SPT-CA-19 Acquisition of text message status flags.	as expected										
SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected										
Analysis:	Expected results achieved										

## 5.2.9 SPT-09 (iPhone4 GSM)

Test Case SPT-09 Lantern v2.3	
Case Summary:	SPT-09 Acquire mobile device internal memory and review reported MMS multi-media related data (i.e., text, audio, graphics, video).

<b>Test Case SPT-09 Lantern v2.3</b>									
Assertions:	<p>SPT-CA-21 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated audio shall be presented in a useable format.</p> <p>SPT-CA-22 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated graphic files shall be presented in a useable format.</p> <p>SPT-CA-23 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated video shall be presented in a useable format.</p>								
Tester Name:	rpa								
Test Host:	p630542								
Test Date:	Tue Sep 18 11:27:14 EDT 2012								
Device:	iPhone4_GSM								
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable								
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Tue Sep 18 11:27:14 EDT 2012</p> <p>Acquisition finished: Tue Sep 18 11:30:27 EDT 2012</p> <p>ALL MMS messages (Audio, Image, Video) were acquired</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-21 Acquisition of audio MMS messages.</td><td>as expected</td></tr> <tr> <td>SPT-CA-22 Acquisition of graphic data image MMS messages.</td><td>as expected</td></tr> <tr> <td>SPT-CA-23 Acquisition of video MMS messages.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-21 Acquisition of audio MMS messages.	as expected	SPT-CA-22 Acquisition of graphic data image MMS messages.	as expected	SPT-CA-23 Acquisition of video MMS messages.	as expected
Assertion & Expected Result	Actual Result								
SPT-CA-21 Acquisition of audio MMS messages.	as expected								
SPT-CA-22 Acquisition of graphic data image MMS messages.	as expected								
SPT-CA-23 Acquisition of video MMS messages.	as expected								
Analysis:	Expected results achieved								

## 5.2.10 SPT-10 (iPhone4 GSM)

<b>Test Case SPT-10 Lantern v2.3</b>	
Case Summary:	SPT-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).
Assertions:	<p>SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application.</p> <p>SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application.</p> <p>SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.</p>
Tester Name:	rpa
Test Host:	p630542
Test Date:	Tue Sep 18 11:31:42 EDT 2012
Device:	iPhone4_GSM
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Tue Sep 18 11:31:42 EDT 2012</p> <p>Acquisition finished: Tue Sep 18 11:38:01 EDT 2012</p> <p>ALL stand-alone data files (Audio, Image, Video) were acquired</p>
Results:	

Test Case SPT-10 Lantern v2.3		
	Assertion & Expected Result	Actual Result
	SPT-CA-24 Acquisition of stand-alone audio files.	as expected
	SPT-CA-25 Acquisition of stand-alone graphic files.	as expected
	SPT-CA-26 Acquisition of stand-alone video files.	as expected
Analysis:	Expected results achieved	

### 5.2.11 SPT-12 (iPhone4 GSM)

Test Case SPT-12 Lantern v2.3					
Case Summary:	SPT-12 Acquire mobile device internal memory and review Internet related data (i.e., bookmarks, visited sites).				
Assertions:	SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.				
Tester Name:	rpa				
Test Host:	p630542				
Test Date:	Tue Sep 18 11:52:05 EDT 2012				
Device:	iPhone4_GSM				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 11:52:05 EDT 2012 Acquisition finished: Tue Sep 18 11:52:54 EDT 2012  All Internet related data was acquired				
Results:	<table> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> <tr> <td>SPT-CA-28 Acquisition of Internet related data.</td><td>as expected</td></tr> </table>	Assertion & Expected Result	Actual Result	SPT-CA-28 Acquisition of Internet related data.	as expected
Assertion & Expected Result	Actual Result				
SPT-CA-28 Acquisition of Internet related data.	as expected				
Analysis:	Expected results achieved				

### 5.2.12 SPT-13 (iPhone4 GSM)

Test Case SPT-13 Lantern v2.3	
Case Summary:	SPT-13 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with an "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Tue Sep 18 11:55:03 EDT 2012
Device:	iPhone4_GSM
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 11:55:03 EDT 2012  Acquire All acquisition was successful



Test Case SPT-13 Lantern v2.3		
Results:		
Analysis:		

### 5.2.13 SPT-24 (iPhone4 GSM)

Test Case SPT-24 Lantern v2.3						
Case Summary:	SPT-24 Acquire mobile device internal memory and review reported data via supported generated report formats.					
Assertions:	SPT-AO-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Tue Sep 18 13:24:07 EDT 2012					
Device:	iPhone4_GSM					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 13:24:07 EDT 2012 Acquisition finished: Tue Sep 18 13:32:48 EDT 2012  Complete representation of known data via generated reports was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-AO-25 Comparison of known device data elements via generated reports.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-AO-25 Comparison of known device data elements via generated reports.	as expected
Assertion & Expected Result	Actual Result					
SPT-AO-25 Comparison of known device data elements via generated reports.	as expected					
Analysis:	Expected results achieved					

### 5.2.14 SPT-25 (iPhone4 GSM)

Test Case SPT-25 Lantern v2.3				
Case Summary:	SPT-25 Acquire mobile device internal memory and review reported data via the preview pane.			
Assertions:	SPT-AO-26 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format in a preview pane view.			
Tester Name:	rpa			
Test Host:	p630542			
Test Date:	Tue Sep 18 13:33:13 EDT 2012			
Device:	iPhone4_GSM			
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable			
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 13:33:13 EDT 2012 Acquisition finished: Tue Sep 18 13:33:52 EDT 2012  Complete representation of known data via preview pane was successful			
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr></table>		Assertion & Expected Result	Actual Result
Assertion & Expected Result	Actual Result			

Test Case SPT-25 Lantern v2.3		
	SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected
Analysis:	Expected results achieved	

### 5.2.15 SPT-33 (iPhone4 GSM)

Test Case SPT-33 Lantern v2.3								
Case Summary:	SPT-33 Acquire mobile device internal memory and review data containing non-ASCII characters.							
Assertions:	SPT-AO-40 If the cellular forensic tool supports display of non-ASCII characters then the application should present address book entries in their native format. SPT-AO-41 If the cellular forensic tool supports proper display of non-ASCII characters then the application should present text messages in their native format.							
Tester Name:	rpa							
Test Host:	p630542							
Test Date:	Tue Sep 18 13:34:35 EDT 2012							
Device:	iPhone4_GSM							
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable							
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 13:34:35 EDT 2012 Acquisition finished: Tue Sep 18 13:35:22 EDT 2012  Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed							
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.</td><td>as expected</td></tr><tr><td>SPT-AO-41 Acquisition of non-ASCII text messages.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.	as expected	SPT-AO-41 Acquisition of non-ASCII text messages.	as expected
Assertion & Expected Result	Actual Result							
SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.	as expected							
SPT-AO-41 Acquisition of non-ASCII text messages.	as expected							
Analysis:	Expected results achieved							

### 5.2.16 SPT-38 (iPhone4 GSM)

Test Case SPT-38 Lantern v2.3		
Case Summary:	SPT-38 Acquire mobile device internal memory and review hash values for vendor supported data objects.	
Assertions:	SPT-AO-43 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 13:38:26 EDT 2012	
Device:	iPhone4_GSM	
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 13:38:26 EDT 2012 Acquisition finished: Tue Sep 18 13:40:36 EDT 2012  Hash values were properly reported for individually acquired device data elements	

Test Case SPT-38 Lantern v2.3		
Results:		
	<b>Assertion &amp; Expected Result</b>	<b>Actual Result</b>
	SPT-AO-43 Acquire data, check known hash values for consistency.	as expected
Analysis:	Expected results achieved	

### 5.2.17 SPT-40 (iPhone4 GSM)

Test Case SPT-40 Lantern v2.3		
Case Summary:	SPT-40 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.	
Assertions:	SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Tue Sep 18 13:41:50 EDT 2012	
Device:	iPhone4_GSM	
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 13:41:50 EDT 2012 Acquisition finished: Tue Sep 18 13:43:25 EDT 2012  GPS Coordinate data was successfully acquired	
Results:		
	<b>Assertion &amp; Expected Result</b>	<b>Actual Result</b>
	SPT-AO-44 Acquire data, check GPS data for consistency.	as expected
Analysis:	Expected results achieved	

### 5.2.18 SPT-01 (iPhone4 CDMA)

Test Case SPT-01 Lantern v2.3	
Case Summary:	SPT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	<p>SPT-CA-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.</p> <p>SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error.</p> <p>SPT-CA-30 If a cellular forensic tool provides the user with a "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error.</p> <p>SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.</p> <p>SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.</p>
Tester Name:	rpa

Test Case SPT-01 Lantern v2.3																
Test Host:	p630542															
Test Date:	Tue Sep 18 13:45:18 EDT 2012															
Device:	iPhone4_CDMA															
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable															
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 13:45:18 EDT 2012 Acquisition finished: Tue Sep 18 13:49:03 EDT 2012  Device connectivity was established via supported interface															
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-CA-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr><tr><td>SPT-CA-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr><tr><td>SPT-CA-29 Acquire-All data objects acquisition.</td><td>as expected</td></tr><tr><td>SPT-CA-30 Select-All data objects acquisition.</td><td>as expected</td></tr><tr><td>SPT-CA-31 Select-Individual data objects acquisition.</td><td>as expected</td></tr><tr><td>SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-CA-01 Device connectivity via supported interfaces.	as expected	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected	SPT-CA-29 Acquire-All data objects acquisition.	as expected	SPT-CA-30 Select-All data objects acquisition.	as expected	SPT-CA-31 Select-Individual data objects acquisition.	as expected	SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Assertion & Expected Result	Actual Result															
SPT-CA-01 Device connectivity via supported interfaces.	as expected															
SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected															
SPT-CA-29 Acquire-All data objects acquisition.	as expected															
SPT-CA-30 Select-All data objects acquisition.	as expected															
SPT-CA-31 Select-Individual data objects acquisition.	as expected															
SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected															
Analysis:	Expected results achieved															

### 5.2.19 SPT-02 (iPhone4 CDMA)

Test Case SPT-02 Lantern v2.3						
Case Summary:	SPT-02 Attempt internal memory acquisition of a nonsupported mobile device.					
Assertions:	SPT-CA-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall notify the user that the device is not supported.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Tue Sep 18 13:50:14 EDT 2012					
Device:	unsupported_device					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	<p>Created by Lantern v2.3 Acquisition started: Tue Sep 18 13:50:14 EDT 2012 Acquisition finished: Tue Sep 18 13:53:05 EDT 2012</p> <p>Identification of nonsupported devices was not successful</p> <p><b>Notes:</b> Acquisition of nonsupported devices (i.e., iPod Nano) did not provide an error message stating the device was not supported.</p>					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-CA-02 Identification of nonsupported devices.</td><td>Not as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-CA-02 Identification of nonsupported devices.	Not as expected
Assertion & Expected Result	Actual Result					
SPT-CA-02 Identification of nonsupported devices.	Not as expected					
Analysis:	Expected results not achieved					

### 5.2.20 SPT-03 (iPhone4 CDMA)

<b>Test Case SPT-03 Lantern v2.3</b>	
Case	SPT-03 Begin mobile device internal memory acquisition and interrupt

Test Case SPT-03 Lantern v2.3						
Summary:	connectivity by interface disengagement.					
Assertions:	SPT-CA-03 If connectivity between the mobile device and cellular forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Tue Sep 18 13:54:14 EDT 2012					
Device:	iPhone4_CDMA					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 13:54:14 EDT 2012 Acquisition finished: Tue Sep 18 13:55:32 EDT 2012  Device acquisition disruption notification was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-CA-03 Notification of device acquisition disruption.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-CA-03 Notification of device acquisition disruption.	as expected
Assertion & Expected Result	Actual Result					
SPT-CA-03 Notification of device acquisition disruption.	as expected					
Analysis:	Expected results achieved					

### 5.2.21 SPT-04 (iPhone4 CDMA)

Test Case SPT-04 Lantern v2.3						
Case Summary:	SPT-04 Acquire mobile device internal memory and review reported data via the preview pane or generated reports for readability.					
Assertions:	SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Tue Sep 18 14:01:18 EDT 2012					
Device:	iPhone4_CDMA					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:01:18 EDT 2012 Acquisition finished: Tue Sep 18 14:02:30 EDT 2012  Readability and completeness of acquired data was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-CA-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected
Assertion & Expected Result	Actual Result					
SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected					
Analysis:	Expected results achieved					

### 5.2.22 SPT-05 (iPhone4 CDMA)

<b>Test Case SPT-05 Lantern v2.3</b>		
Case Summary:	SPT-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMEI/MEID/ESN, MSISDN).	
Assertions:	SPT-CA-05 If a cellular forensic tool completes acquisition of the target	

Test Case SPT-05 Lantern v2.3							
	device without error then subscriber-related information shall be presented in a useable format. SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be presented in a useable format.						
Tester Name:	rpa						
Test Host:	p630542						
Test Date:	Tue Sep 18 14:12:08 EDT 2012						
Device:	iPhone4_CDMA						
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable						
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:12:08 EDT 2012 Acquisition finished: Tue Sep 18 14:12:46 EDT 2012  IMEI, MEID/ESN were not acquired						
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-05 Acquisition of MSISDN, IMSI.</td><td>Not as expected</td></tr> <tr> <td>SPT-CA-06 Acquisition of IMEI/MEID/ESN.</td><td>Not as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-05 Acquisition of MSISDN, IMSI.	Not as expected	SPT-CA-06 Acquisition of IMEI/MEID/ESN.	Not as expected
Assertion & Expected Result	Actual Result						
SPT-CA-05 Acquisition of MSISDN, IMSI.	Not as expected						
SPT-CA-06 Acquisition of IMEI/MEID/ESN.	Not as expected						
Analysis:	Expected results not achieved						

### 5.2.23 SPT-06 (iPhone4 CDMA)

Test Case SPT-06 Lantern v2.3	
Case Summary:	SPT-06 Acquire mobile device internal memory and review reported PIM related data.
Assertions:	<p>SPT-CA-07 If a cellular forensic tool completes acquisition of the target device without error then address book entries shall be presented in a useable format.</p> <p>SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format.</p> <p>SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format.</p> <p>SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format.</p> <p>SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format.</p> <p>SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format.</p> <p>SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format.</p> <p>SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format.</p>
Tester Name:	rpa
Test Host:	p630542
Test Date:	Tue Sep 18 14:14:40 EDT 2012
Device:	iPhone4_CDMA
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:14:40 EDT 2012 Acquisition finished: Tue Sep 18 14:15:08 EDT 2012

Test Case SPT-06 Lantern v2.3																			
	<p>Regular Length Address Book entries were acquired  Maximum Length Address Book entries were not acquired  Special Character Address Book entries were acquired  Blank Name Address Book entries were acquired  Email addresses within Address Book entries were acquired  Embedded graphics within Address Book entries were acquired  ALL PIM related data was acquired</p> <p><b>Notes:</b>  Contact entries containing middle names only reported the first and last name.</p>																		
Results:	<table> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> <tr> <td>SPT-CA-07 Acquisition of address book entries.</td><td>as expected</td></tr> <tr> <td>SPT-CA-08 Acquisition of maximum length address book entries.</td><td>Not as expected</td></tr> <tr> <td>SPT-CA-09 Acquisition of address book entries containing special characters.</td><td>as expected</td></tr> <tr> <td>SPT-CA-10 Acquisition of address book entries containing a blank name entry.</td><td>as expected</td></tr> <tr> <td>SPT-CA-11 Acquisition of embedded email addresses within address book entries.</td><td>as expected</td></tr> <tr> <td>SPT-CA-12 Acquisition of embedded graphics within address book entries.</td><td>as expected</td></tr> <tr> <td>SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).</td><td>as expected</td></tr> <tr> <td>SPT-CA-14 Acquisition of maximum length PIM data.</td><td>as expected</td></tr> </table>	Assertion & Expected Result	Actual Result	SPT-CA-07 Acquisition of address book entries.	as expected	SPT-CA-08 Acquisition of maximum length address book entries.	Not as expected	SPT-CA-09 Acquisition of address book entries containing special characters.	as expected	SPT-CA-10 Acquisition of address book entries containing a blank name entry.	as expected	SPT-CA-11 Acquisition of embedded email addresses within address book entries.	as expected	SPT-CA-12 Acquisition of embedded graphics within address book entries.	as expected	SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	as expected	SPT-CA-14 Acquisition of maximum length PIM data.	as expected
Assertion & Expected Result	Actual Result																		
SPT-CA-07 Acquisition of address book entries.	as expected																		
SPT-CA-08 Acquisition of maximum length address book entries.	Not as expected																		
SPT-CA-09 Acquisition of address book entries containing special characters.	as expected																		
SPT-CA-10 Acquisition of address book entries containing a blank name entry.	as expected																		
SPT-CA-11 Acquisition of embedded email addresses within address book entries.	as expected																		
SPT-CA-12 Acquisition of embedded graphics within address book entries.	as expected																		
SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	as expected																		
SPT-CA-14 Acquisition of maximum length PIM data.	as expected																		
Analysis:	Partial results achieved																		

## 5.2.24 SPT-07 (iPhone4 CDMA)

Test Case SPT-07 Lantern v2.3							
Case Summary:	SPT-07 Acquire mobile device internal memory and review reported call logs.						
Assertions:	<p>SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format.</p> <p>SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.</p>						
Tester Name:	rpa						
Test Host:	p630542						
Test Date:	Tue Sep 18 14:16:40 EDT 2012						
Device:	iPhone4_CDMA						
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable						
Log Highlights:	<p>Created by Lantern v2.3  Acquisition started: Tue Sep 18 14:16:40 EDT 2012  Acquisition finished: Tue Sep 18 14:18:17 EDT 2012</p> <p>All Call Logs (incoming, outgoing, missed) were acquired  All Call Log date/time stamps data were correctly reported</p>						
Results:	<table> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> <tr> <td>SPT-CA-15 Acquisition of call logs.</td><td>as expected</td></tr> <tr> <td>SPT-CA-16 Acquisition of call log date/time stamps.</td><td>as expected</td></tr> </table>	Assertion & Expected Result	Actual Result	SPT-CA-15 Acquisition of call logs.	as expected	SPT-CA-16 Acquisition of call log date/time stamps.	as expected
Assertion & Expected Result	Actual Result						
SPT-CA-15 Acquisition of call logs.	as expected						
SPT-CA-16 Acquisition of call log date/time stamps.	as expected						

<b>Test Case SPT-07 Lantern v2.3</b>	
Analysis:	Expected results achieved

### 5.2.25 SPT-08 (iPhone4 CDMA)

<b>Test Case SPT-08 Lantern v2.3</b>											
Case Summary:	SPT-08 Acquire mobile device internal memory and review reported text messages.										
Assertions:	<p>SPT-CA-17 If a cellular forensic tool completes acquisition of the target device without error then ASCII text messages (i.e., SMS, EMS) shall be presented in a useable format.</p> <p>SPT-CA-18 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps for text messages shall be presented in a useable format.</p> <p>SPT-CA-19 If a cellular forensic tool completes acquisition of the target device without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.</p> <p>SPT-CA-20 If a cellular forensic tool completes acquisition of the target device without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.</p>										
Tester Name:	rpa										
Test Host:	p630542										
Test Date:	Tue Sep 18 14:19:39 EDT 2012										
Device:	iPhone4_CDMA										
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable										
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Tue Sep 18 14:19:39 EDT 2012</p> <p>Acquisition finished: Tue Sep 18 14:20:52 EDT 2012</p> <p>ALL text messages (SMS, EMS) were acquired</p> <p>Correct date/time stamps were reported for all text messages</p> <p>Correct status flags were reported for all text messages</p> <p>Sender and Recipient phone numbers associated with text messages were correctly reported</p>										
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-17 Acquisition of text messages.</td><td>as expected</td></tr> <tr> <td>SPT-CA-18 Acquisition of text message date/time stamps.</td><td>as expected</td></tr> <tr> <td>SPT-CA-19 Acquisition of text message status flags.</td><td>as expected</td></tr> <tr> <td>SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-17 Acquisition of text messages.	as expected	SPT-CA-18 Acquisition of text message date/time stamps.	as expected	SPT-CA-19 Acquisition of text message status flags.	as expected	SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected
Assertion & Expected Result	Actual Result										
SPT-CA-17 Acquisition of text messages.	as expected										
SPT-CA-18 Acquisition of text message date/time stamps.	as expected										
SPT-CA-19 Acquisition of text message status flags.	as expected										
SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected										
Analysis:	Expected results achieved										

### 5.2.26 SPT-09 (iPhone4 CDMA)

<b>Test Case SPT-09 Lantern v2.3</b>	
Case Summary:	SPT-09 Acquire mobile device internal memory and review reported MMS multi-media related data (i.e., text, audio, graphics, video).
Assertions:	<p>SPT-CA-21 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated audio shall be presented in a useable format.</p> <p>SPT-CA-22 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated graphic files shall be presented in a useable format.</p> <p>SPT-CA-23 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated video shall be presented in a useable format.</p>
Tester Name:	rpa



<b>Test Case SPT-09 Lantern v2.3</b>									
Test Host:	p630542								
Test Date:	Tue Sep 18 14:20:41 EDT 2012								
Device:	iPhone4_CDMA								
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable								
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:20:41 EDT 2012 Acquisition finished: Tue Sep 18 14:21:49 EDT 2012  ALL MMS messages (Audio, Image, Video) were acquired								
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-21 Acquisition of audio MMS messages.</td><td>as expected</td></tr> <tr> <td>SPT-CA-22 Acquisition of graphic data image MMS messages.</td><td>as expected</td></tr> <tr> <td>SPT-CA-23 Acquisition of video MMS messages.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-21 Acquisition of audio MMS messages.	as expected	SPT-CA-22 Acquisition of graphic data image MMS messages.	as expected	SPT-CA-23 Acquisition of video MMS messages.	as expected
Assertion & Expected Result	Actual Result								
SPT-CA-21 Acquisition of audio MMS messages.	as expected								
SPT-CA-22 Acquisition of graphic data image MMS messages.	as expected								
SPT-CA-23 Acquisition of video MMS messages.	as expected								
Analysis:	Expected results achieved								

## 5.2.27 SPT-10 (iPhone4 CDMA)

<b>Test Case SPT-10 Lantern v2.3</b>									
Case Summary:	SPT-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).								
Assertions:	<p>SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application.</p> <p>SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application.</p> <p>SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.</p>								
Tester Name:	rpa								
Test Host:	p630542								
Test Date:	Tue Sep 18 14:22:21 EDT 2012								
Device:	iPhone4_CDMA								
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable								
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:22:21 EDT 2012 Acquisition finished: Tue Sep 18 14:24:39 EDT 2012  ALL stand-alone data files (Audio, Image, Video) were acquired								
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-24 Acquisition of stand-alone audio files.</td><td>as expected</td></tr> <tr> <td>SPT-CA-25 Acquisition of stand-alone graphic files.</td><td>as expected</td></tr> <tr> <td>SPT-CA-26 Acquisition of stand-alone video files.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-24 Acquisition of stand-alone audio files.	as expected	SPT-CA-25 Acquisition of stand-alone graphic files.	as expected	SPT-CA-26 Acquisition of stand-alone video files.	as expected
Assertion & Expected Result	Actual Result								
SPT-CA-24 Acquisition of stand-alone audio files.	as expected								
SPT-CA-25 Acquisition of stand-alone graphic files.	as expected								
SPT-CA-26 Acquisition of stand-alone video files.	as expected								
Analysis:	Expected results achieved								

## 5.2.28 SPT-12 (iPhone4 CDMA)

Test Case SPT-12 Lantern v2.3					
Case Summary:	SPT-12 Acquire mobile device internal memory and review Internet related data (i.e., bookmarks, visited sites).				
Assertions:	SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.				
Tester Name:	rpa				
Test Host:	p630542				
Test Date:	Tue Sep 18 14:27:08 EDT 2012				
Device:	iPhone4_CDMA				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:27:08 EDT 2012 Acquisition finished: Tue Sep 18 14:27:50 EDT 2012  All Internet related data was acquired				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-28 Acquisition of Internet related data.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-28 Acquisition of Internet related data.	as expected
Assertion & Expected Result	Actual Result				
SPT-CA-28 Acquisition of Internet related data.	as expected				
Analysis:	Expected results achieved				

## 5.2.29 SPT-13 (iPhone4 CDMA)

Test Case SPT-13 Lantern v2.3									
Case Summary:	SPT-13 Acquire mobile device internal memory by selecting a combination of supported data elements.								
Assertions:	SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with an "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.								
Tester Name:	rpa								
Test Host:	p630542								
Test Date:	Tue Sep 18 14:25:36 EDT 2012								
Device:	iPhone4_CDMA								
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable								
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:25:36 EDT 2012 Acquisition finished: Tue Sep 18 14:26:25 EDT 2012  Acquire All acquisition was successful								
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-29 Acquire-All data objects acquisition.</td><td>as expected</td></tr> <tr> <td>SPT-CA-30 Select-All data objects acquisition.</td><td>as expected</td></tr> <tr> <td>SPT-CA-31 Select-Individual data objects acquisition.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-29 Acquire-All data objects acquisition.	as expected	SPT-CA-30 Select-All data objects acquisition.	as expected	SPT-CA-31 Select-Individual data objects acquisition.	as expected
Assertion & Expected Result	Actual Result								
SPT-CA-29 Acquire-All data objects acquisition.	as expected								
SPT-CA-30 Select-All data objects acquisition.	as expected								
SPT-CA-31 Select-Individual data objects acquisition.	as expected								
Analysis:	Expected results achieved								

### 5.2.30 SPT-24 (iPhone4 CDMA)

Test Case SPT-24 Lantern v2.3						
Case Summary:	SPT-24 Acquire mobile device internal memory and review reported data via supported generated report formats.					
Assertions:	SPT-AO-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Tue Sep 18 14:28:22 EDT 2012					
Device:	iPhone4_CDMA					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:28:22 EDT 2012 Acquisition finished: Tue Sep 18 14:31:19 EDT 2012  Complete representation of known data via generated reports was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-AO-25 Comparison of known device data elements via generated reports.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-AO-25 Comparison of known device data elements via generated reports.	as expected
Assertion & Expected Result	Actual Result					
SPT-AO-25 Comparison of known device data elements via generated reports.	as expected					
Analysis:	Expected results achieved					

### 5.2.31 SPT-25 (iPhone4 CDMA)

Test Case SPT-25 Lantern v2.3						
Case Summary:	SPT-25 Acquire mobile device internal memory and review reported data via the preview pane.					
Assertions:	SPT-AO-26 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format in a preview pane view.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Tue Sep 18 14:28:58 EDT 2012					
Device:	iPhone4_CDMA					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:28:58 EDT 2012 Acquisition finished: Tue Sep 18 14:31:37 EDT 2012  Complete representation of known data via preview pane was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-AO-26 Comparison of known device data elements via preview-pane.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected
Assertion & Expected Result	Actual Result					
SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected					
Analysis:	Expected results achieved					

### 5.2.32 SPT-33 (iPhone4 CDMA)

Test Case SPT-33 Lantern v2.3	
Case	SPT-33 Acquire mobile device internal memory and review data containing

<b>Test Case SPT-33 Lantern v2.3</b>							
Summary:	non-ASCII characters.						
Assertions:	SPT-AO-40 If the cellular forensic tool supports display of non-ASCII characters then the application should present address book entries in their native format. SPT-AO-41 If the cellular forensic tool supports proper display of non-ASCII characters then the application should present text messages in their native format.						
Tester Name:	rpa						
Test Host:	p630542						
Test Date:	Tue Sep 18 14:34:06 EDT 2012						
Device:	iPhone4_CDMA						
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable						
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:34:06 EDT 2012 Acquisition finished: Tue Sep 18 14:39:08 EDT 2012  Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed						
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.</td><td>as expected</td></tr> <tr> <td>SPT-AO-41 Acquisition of non-ASCII text messages.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.	as expected	SPT-AO-41 Acquisition of non-ASCII text messages.	as expected
Assertion & Expected Result	Actual Result						
SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.	as expected						
SPT-AO-41 Acquisition of non-ASCII text messages.	as expected						
Analysis:	Expected results achieved						

### 5.2.33 SPT-38 (iPhone4 CDMA)

<b>Test Case SPT-38 Lantern v2.3</b>					
Case Summary:	SPT-38 Acquire mobile device internal memory and review hash values for vendor supported data objects.				
Assertions:	SPT-AO-43 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.				
Tester Name:	rpa				
Test Host:	p630542				
Test Date:	Tue Sep 18 14:34:40 EDT 2012				
Device:	iPhone4_CDMA				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:34:40 EDT 2012 Acquisition finished: Tue Sep 18 14:39:40 EDT 2012  Hash values were properly reported for individually acquired device data elements				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-AO-43 Acquire data, check known hash values for consistency.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-AO-43 Acquire data, check known hash values for consistency.	as expected
Assertion & Expected Result	Actual Result				
SPT-AO-43 Acquire data, check known hash values for consistency.	as expected				
Analysis:	Expected results achieved				

### 5.2.34 SPT-40 (iPhone4 CDMA)

Test Case SPT-40 Lantern v2.3						
Case Summary:	SPT-40 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.					
Assertions:	SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Tue Sep 18 14:35:11 EDT 2012					
Device:	iPhone4_CDMA					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Tue Sep 18 14:35:11 EDT 2012 Acquisition finished: Tue Sep 18 14:40:34 EDT 2012  GPS Coordinate data was successfully acquired					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-AO-44 Acquire data, check GPS data for consistency.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-AO-44 Acquire data, check GPS data for consistency.	as expected
Assertion & Expected Result	Actual Result					
SPT-AO-44 Acquire data, check GPS data for consistency.	as expected					
Analysis:	Expected results achieved					

### 5.2.35 SPT-01 (iPhone 3.1.2)

Test Case SPT-01 Lantern v2.3		
Case Summary:	SPT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).	
Assertions:	<p>SPT-CA-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.</p> <p>SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error.</p> <p>SPT-CA-30 If a cellular forensic tool provides the user with a "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error.</p> <p>SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.</p> <p>SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.</p>	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 07:38:46 EDT 2012	
Device:	iPhone_3.1.2	
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 07:38:46 EDT 2012 Acquisition finished: Wed Sep 19 07:45:58 EDT 2012  Device connectivity was established via supported interface	

Test Case SPT-01 Lantern v2.3		
Results:		
	<b>Assertion &amp; Expected Result</b>	<b>Actual Result</b>
	SPT-CA-01 Device connectivity via supported interfaces.	as expected
	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected
	SPT-CA-29 Acquire-All data objects acquisition.	as expected
	SPT-CA-30 Select-All data objects acquisition.	as expected
	SPT-CA-31 Select-Individual data objects acquisition.	as expected
	SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Analysis:	Expected results achieved	

### 5.2.36 SPT-02 (iPhone 3.1.2)

Test Case SPT-02 Lantern v2.3		
Case Summary:	SPT-02 Attempt internal memory acquisition of a nonsupported mobile device.	
Assertions:	SPT-CA-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall notify the user that the device is not supported.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 07:59:19 EDT 2012	
Device:	unsupported_device	
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable	
Log Highlights:	<p>Created by Lantern v2.3  Acquisition started: Wed Sep 19 07:59:19 EDT 2012  Acquisition finished: Wed Sep 19 08:01:57 EDT 2012</p> <p>Identification of nonsupported devices was not successful</p> <p><b>Notes:</b>  Acquisition of nonsupported devices (i.e., iPod Nano) did not provide an error message stating the device was not supported.</p>	
Results:		
	<b>Assertion &amp; Expected Result</b>	<b>Actual Result</b>
	SPT-CA-02 Identification of nonsupported devices.	Not as expected
Analysis:	Expected results not achieved	

### 5.2.37 SPT-03 (iPhone 3.1.2)

Test Case SPT-03 Lantern v2.3		
Case Summary:	SPT-03 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.	
Assertions:	SPT-CA-03 If connectivity between the mobile device and cellular forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:11:06 EDT 2012	
Device:	iPhone_3.1.2	
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable	

Test Case SPT-03 Lantern v2.3					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:11:06 EDT 2012 Acquisition finished: Wed Sep 19 08:12:51 EDT 2012  Device acquisition disruption notification was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-03 Notification of device acquisition disruption.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-03 Notification of device acquisition disruption.	as expected
Assertion & Expected Result	Actual Result				
SPT-CA-03 Notification of device acquisition disruption.	as expected				
Analysis:	Expected results achieved				

### 5.2.38 SPT-04 (iPhone 3.1.2)

Test Case SPT-04 Lantern v2.3					
Case Summary:	SPT-04 Acquire mobile device internal memory and review reported data via the preview pane or generated reports for readability.				
Assertions:	SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.				
Tester Name:	rpa				
Test Host:	p630542				
Test Date:	Wed Sep 19 08:13:52 EDT 2012				
Device:	iPhone_3.1.2				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:13:52 EDT 2012 Acquisition finished: Wed Sep 19 08:15:18 EDT 2012  Readability and completeness of acquired data was successful				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected
Assertion & Expected Result	Actual Result				
SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected				
Analysis:	Expected results achieved				

### 5.2.39 SPT-05 (iPhone 3.1.2)

Test Case SPT-05 Lantern v2.3	
Case Summary:	SPT-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMEI/MEID/ESN, MSISDN).
Assertions:	SPT-CA-05 If a cellular forensic tool completes acquisition of the target device without error then subscriber-related information shall be presented in a useable format. SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 08:16:13 EDT 2012
Device:	iPhone_3.1.2
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable

Test Case SPT-05 Lantern v2.3							
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Wed Sep 19 08:16:13 EDT 2012</p> <p>Acquisition finished: Wed Sep 19 08:17:04 EDT 2012</p> <p>Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired</p>						
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-05 Acquisition of MSISDN, IMSI.</td><td>as expected</td></tr> <tr> <td>SPT-CA-06 Acquisition of IMEI/MEID/ESN.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-05 Acquisition of MSISDN, IMSI.	as expected	SPT-CA-06 Acquisition of IMEI/MEID/ESN.	as expected
Assertion & Expected Result	Actual Result						
SPT-CA-05 Acquisition of MSISDN, IMSI.	as expected						
SPT-CA-06 Acquisition of IMEI/MEID/ESN.	as expected						
Analysis:	Expected results achieved						

## 5.2.40 SPT-06 (iPhone 3.1.2)

Test Case SPT-06 Lantern v2.3	
Case Summary:	SPT-06 Acquire mobile device internal memory and review reported PIM related data.
Assertions:	<p>SPT-CA-07 If a cellular forensic tool completes acquisition of the target device without error then address book entries shall be presented in a useable format.</p> <p>SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format.</p> <p>SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format.</p> <p>SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format.</p> <p>SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format.</p> <p>SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format.</p> <p>SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format.</p> <p>SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format.</p>
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 08:17:40 EDT 2012
Device:	iPhone_3.1.2
Source Setup:	<p>OS: Mac OS X v10.6.8</p> <p>Interface: cable</p>
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Wed Sep 19 08:17:40 EDT 2012</p> <p>Acquisition finished: Wed Sep 19 08:19:02 EDT 2012</p> <p>Regular Length Address Book entries were acquired</p> <p>Maximum Length Address Book entries were not acquired</p> <p>Special Character Address Book entries were acquired</p> <p>Blank Name Address Book entries were acquired</p> <p>Email addresses within Address Book entries were acquired</p> <p>Embedded graphics within Address Book entries were acquired</p> <p>ALL PIM related data was acquired</p> <p><b>Notes:</b></p> <p>Contact entries containing middle names only reported the first and last name.</p>



Test Case SPT-06 Lantern v2.3		
Results:	<b>Assertion &amp; Expected Result</b>	
	<b>Actual Result</b>	
	SPT-CA-07 Acquisition of address book entries.	as expected
	SPT-CA-08 Acquisition of maximum length address book entries.	Not as expected
	SPT-CA-09 Acquisition of address book entries containing special characters.	as expected
	SPT-CA-10 Acquisition of address book entries containing a blank name entry.	as expected
	SPT-CA-11 Acquisition of embedded email addresses within address book entries.	as expected
	SPT-CA-12 Acquisition of embedded graphics within address book entries.	as expected
	SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	as expected
	SPT-CA-14 Acquisition of maximum length PIM data.	as expected
Analysis:	Partial results achieved	

### 5.2.41 SPT-07 (iPhone 3.1.2)

Test Case SPT-07 Lantern v2.3		
Case Summary:	SPT-07 Acquire mobile device internal memory and review reported call logs.	
Assertions:	<p>SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format.</p> <p>SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.</p>	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:21:26 EDT 2012	
Device:	iPhone_3.1.2	
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable	
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Wed Sep 19 08:21:26 EDT 2012</p> <p>Acquisition finished: Wed Sep 19 08:22:37 EDT 2012</p> <p>All Call Logs (incoming, outgoing, missed) were acquired</p> <p>All Call Log date/time stamps data were correctly reported</p>	
Results:	<b>Assertion &amp; Expected Result</b>	
	<b>Actual Result</b>	
	SPT-CA-15 Acquisition of call logs.	as expected
	SPT-CA-16 Acquisition of call log date/time stamps.	as expected
Analysis:	Expected results achieved	

### 5.2.42 SPT-08 (iPhone 3.1.2)

Test Case SPT-08 Lantern v2.3		
Case Summary:	SPT-08 Acquire mobile device internal memory and review reported text messages.	
Assertions:	<p>SPT-CA-17 If a cellular forensic tool completes acquisition of the target device without error then ASCII text messages (i.e., SMS, EMS) shall be presented in a useable format.</p> <p>SPT-CA-18 If a cellular forensic tool completes acquisition of the target</p>	

Test Case SPT-08 Lantern v2.3											
	<p>device without error then the corresponding date/time stamps for text messages shall be presented in a useable format.</p> <p>SPT-CA-19 If a cellular forensic tool completes acquisition of the target device without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.</p> <p>SPT-CA-20 If a cellular forensic tool completes acquisition of the target device without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.</p>										
Tester Name:	rpa										
Test Host:	p630542										
Test Date:	Wed Sep 19 08:29:26 EDT 2012										
Device:	iPhone_3.1.2										
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable										
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Wed Sep 19 08:29:26 EDT 2012</p> <p>Acquisition finished: Wed Sep 19 08:30:43 EDT 2012</p> <p>ALL text messages (SMS, EMS) were acquired</p> <p>Correct date/time stamps were reported for all text messages</p> <p>Correct status flags were reported for all text messages</p> <p>Sender and Recipient phone numbers associated with text messages were correctly reported</p>										
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-17 Acquisition of text messages.</td><td>as expected</td></tr> <tr> <td>SPT-CA-18 Acquisition of text message date/time stamps.</td><td>as expected</td></tr> <tr> <td>SPT-CA-19 Acquisition of text message status flags.</td><td>as expected</td></tr> <tr> <td>SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-17 Acquisition of text messages.	as expected	SPT-CA-18 Acquisition of text message date/time stamps.	as expected	SPT-CA-19 Acquisition of text message status flags.	as expected	SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected
Assertion & Expected Result	Actual Result										
SPT-CA-17 Acquisition of text messages.	as expected										
SPT-CA-18 Acquisition of text message date/time stamps.	as expected										
SPT-CA-19 Acquisition of text message status flags.	as expected										
SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected										
Analysis:	Expected results achieved										

### 5.2.43 SPT-09 (iPhone 3.1.2)

Test Case SPT-09 Lantern v2.3	
Case Summary:	SPT-09 Acquire mobile device internal memory and review reported MMS multi-media related data (i.e., text, audio, graphics, video).
Assertions:	<p>SPT-CA-21 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated audio shall be presented in a useable format.</p> <p>SPT-CA-22 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated graphic files shall be presented in a useable format.</p> <p>SPT-CA-23 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated video shall be presented in a useable format.</p>
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 08:31:29 EDT 2012
Device:	iPhone_3.1.2
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Wed Sep 19 08:31:29 EDT 2012</p> <p>Acquisition finished: Wed Sep 19 08:32:40 EDT 2012</p> <p>ALL MMS messages (Audio, Image, Video) were acquired</p>
Results:	

Test Case SPT-09 Lantern v2.3		
	Assertion & Expected Result	Actual Result
	SPT-CA-21 Acquisition of audio MMS messages.	as expected
	SPT-CA-22 Acquisition of graphic data image MMS messages.	as expected
	SPT-CA-23 Acquisition of video MMS messages.	as expected
Analysis:	Expected results achieved	

## 5.2.44 SPT-10 (iPhone 3.1.2)

Test Case SPT-10 Lantern v2.3										
Case Summary:	SPT-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).									
Assertions:	SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application. SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application. SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.									
Tester Name:	rpa									
Test Host:	p630542									
Test Date:	Wed Sep 19 08:33:23 EDT 2012									
Device:	iPhone_3.1.2									
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable									
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:33:23 EDT 2012 Acquisition finished: Wed Sep 19 08:34:42 EDT 2012  ALL stand-alone data files (Audio, Image, Video) were acquired									
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-CA-24 Acquisition of stand-alone audio files.</td><td>as expected</td></tr><tr><td>SPT-CA-25 Acquisition of stand-alone graphic files.</td><td>as expected</td></tr><tr><td>SPT-CA-26 Acquisition of stand-alone video files.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-CA-24 Acquisition of stand-alone audio files.	as expected	SPT-CA-25 Acquisition of stand-alone graphic files.	as expected	SPT-CA-26 Acquisition of stand-alone video files.	as expected
Assertion & Expected Result	Actual Result									
SPT-CA-24 Acquisition of stand-alone audio files.	as expected									
SPT-CA-25 Acquisition of stand-alone graphic files.	as expected									
SPT-CA-26 Acquisition of stand-alone video files.	as expected									
Analysis:	Expected results achieved									

## 5.2.45 SPT-12 (iPhone 3.1.2)

Test Case SPT-12 Lantern v2.3		
Case Summary:	SPT-12 Acquire mobile device internal memory and review Internet related data (i.e., bookmarks, visited sites).	
Assertions:	SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 08:36:26 EDT 2012	

<b>Test Case SPT-12 Lantern v2.3</b>					
Device:	iPhone_3.1.2				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:36:26 EDT 2012 Acquisition finished: Wed Sep 19 08:39:26 EDT 2012  Partial Internet related data was acquired  <b>Notes:</b> Internet Bookmarks were not reported				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-28 Acquisition of Internet related data.</td><td>Not as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-28 Acquisition of Internet related data.	Not as expected
Assertion & Expected Result	Actual Result				
SPT-CA-28 Acquisition of Internet related data.	Not as expected				
Analysis:	Expected results not achieved				

### 5.2.46 SPT-13 (iPhone 3.1.2)

<b>Test Case SPT-13 Lantern v2.3</b>									
Case Summary:	SPT-13 Acquire mobile device internal memory by selecting a combination of supported data elements.								
Assertions:	SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with an "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.								
Tester Name:	rpa								
Test Host:	p630542								
Test Date:	Wed Sep 19 08:40:34 EDT 2012								
Device:	iPhone_3.1.2								
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable								
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:40:34 EDT 2012 Acquisition finished: Wed Sep 19 08:42:10 EDT 2012  Acquire All acquisition was successful								
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-29 Acquire-All data objects acquisition.</td><td>as expected</td></tr> <tr> <td>SPT-CA-30 Select-All data objects acquisition.</td><td>as expected</td></tr> <tr> <td>SPT-CA-31 Select-Individual data objects acquisition.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-29 Acquire-All data objects acquisition.	as expected	SPT-CA-30 Select-All data objects acquisition.	as expected	SPT-CA-31 Select-Individual data objects acquisition.	as expected
Assertion & Expected Result	Actual Result								
SPT-CA-29 Acquire-All data objects acquisition.	as expected								
SPT-CA-30 Select-All data objects acquisition.	as expected								
SPT-CA-31 Select-Individual data objects acquisition.	as expected								
Analysis:	Expected results achieved								

### 5.2.47 SPT-24 (iPhone 3.1.2)

<b>Test Case SPT-24 Lantern v2.3</b>	
Case Summary:	SPT-24 Acquire mobile device internal memory and review reported data via supported generated report formats.
Assertions:	SPT-AO-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.

Test Case SPT-24 Lantern v2.3						
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Wed Sep 19 08:42:45 EDT 2012					
Device:	iPhone_3.1.2					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:42:45 EDT 2012 Acquisition finished: Wed Sep 19 08:45:19 EDT 2012  Complete representation of known data via generated reports was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-AO-25 Comparison of known device data elements via generated reports.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-AO-25 Comparison of known device data elements via generated reports.	as expected
	Assertion & Expected Result	Actual Result				
SPT-AO-25 Comparison of known device data elements via generated reports.	as expected					
Analysis:	Expected results achieved					

## 5.2.48 SPT-25 (iPhone 3.1.2)

Test Case SPT-25 Lantern v2.3						
Case Summary:	SPT-25 Acquire mobile device internal memory and review reported data via the preview pane.					
Assertions:	SPT-AO-26 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format in a preview pane view.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Wed Sep 19 08:43:11 EDT 2012					
Device:	iPhone_3.1.2					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:43:11 EDT 2012 Acquisition finished: Wed Sep 19 08:45:35 EDT 2012  Complete representation of known data via preview pane was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-AO-26 Comparison of known device data elements via preview-pane.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected
Assertion & Expected Result	Actual Result					
SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected					
Analysis:	Expected results achieved					

## 5.2.49 SPT-33 (iPhone 3.1.2)

<b>Test Case SPT-33 Lantern v2.3</b>		
Case Summary:	SPT-33 Acquire mobile device internal memory and review data containing non-ASCII characters.	
Assertions:	SPT-AO-40 If the cellular forensic tool supports display of non-ASCII characters then the application should present address book entries in their native format. SPT-AO-41 If the cellular forensic tool supports proper display of non-ASCII characters then the application should present text messages in their native format.	

Test Case SPT-33 Lantern v2.3							
Tester Name:	rpa						
Test Host:	p630542						
Test Date:	Wed Sep 19 08:46:52 EDT 2012						
Device:	iPhone_3.1.2						
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable						
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:46:52 EDT 2012 Acquisition finished: Wed Sep 19 08:48:16 EDT 2012  Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed						
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.</td><td>as expected</td></tr> <tr> <td>SPT-AO-41 Acquisition of non-ASCII text messages.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.	as expected	SPT-AO-41 Acquisition of non-ASCII text messages.	as expected
Assertion & Expected Result	Actual Result						
SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.	as expected						
SPT-AO-41 Acquisition of non-ASCII text messages.	as expected						
Analysis:	Expected results achieved						

### 5.2.50 SPT-38 (iPhone 3.1.2)

Test Case SPT-38 Lantern v2.3					
Case Summary:	SPT-38 Acquire mobile device internal memory and review hash values for vendor supported data objects.				
Assertions:	SPT-AO-43 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.				
Tester Name:	rpa				
Test Host:	p630542				
Test Date:	Wed Sep 19 08:49:02 EDT 2012				
Device:	iPhone_3.1.2				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:49:02 EDT 2012 Acquisition finished: Wed Sep 19 08:51:59 EDT 2012  Hash values were properly reported for individually acquired device data elements				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-AO-43 Acquire data, check known hash values for consistency.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-AO-43 Acquire data, check known hash values for consistency.	as expected
Assertion & Expected Result	Actual Result				
SPT-AO-43 Acquire data, check known hash values for consistency.	as expected				
Analysis:	Expected results achieved				

### 5.2.51 SPT-40 (iPhone 3.1.2)

Test Case SPT-40 Lantern v2.3	
Case Summary:	SPT-40 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.
Assertions:	SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude

Test Case SPT-40 Lantern v2.3					
	coordinates for all GPS-related data in a useable format.				
Tester Name:	rpa				
Test Host:	p630542				
Test Date:	Wed Sep 19 08:49:25 EDT 2012				
Device:	iPhone_3.1.2				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 08:49:25 EDT 2012 Acquisition finished: Wed Sep 19 08:52:20 EDT 2012  GPS Coordinate data was successfully acquired				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-AO-44 Acquire data, check GPS data for consistency.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-AO-44 Acquire data, check GPS data for consistency.	as expected
Assertion & Expected Result	Actual Result				
SPT-AO-44 Acquire data, check GPS data for consistency.	as expected				
Analysis:	Expected results achieved				

### 5.2.52 SPT-01 (iPhone 3.1.3)

Test Case SPT-01 Lantern v2.3							
Case Summary:	SPT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).						
Assertions:	<p>SPT-CA-01 If a cellular forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).</p> <p>SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.</p> <p>SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error.</p> <p>SPT-CA-30 If a cellular forensic tool provides the user with a "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error.</p> <p>SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.</p> <p>SPT-CA-32 If a cellular forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.</p>						
Tester Name:	rpa						
Test Host:	p630542						
Test Date:	Wed Sep 19 09:03:37 EDT 2012						
Device:	iPhone_3.1.3						
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable						
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:03:37 EDT 2012 Acquisition finished: Wed Sep 19 09:06:32 EDT 2012  Device connectivity was established via supported interface						
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr> <tr> <td>SPT-CA-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-01 Device connectivity via supported interfaces.	as expected	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected
Assertion & Expected Result	Actual Result						
SPT-CA-01 Device connectivity via supported interfaces.	as expected						
SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected						

Test Case SPT-01 Lantern v2.3		
	SPT-CA-29 Acquire-All data objects acquisition.	as expected
	SPT-CA-30 Select-All data objects acquisition.	as expected
	SPT-CA-31 Select-Individual data objects acquisition.	as expected
	SPT-CA-32 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Analysis:	Expected results achieved	

### 5.2.53 SPT-02 (iPhone 3.1.3)

Test Case SPT-02 Lantern v2.3						
Case Summary:	SPT-02 Attempt internal memory acquisition of a nonsupported mobile device.					
Assertions:	SPT-CA-02 If a cellular forensic tool attempts to connect to a nonsupported device then the tool shall notify the user that the device is not supported.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Wed Sep 19 09:07:14 EDT 2012					
Device:	iPhone_3.1.3					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	<p>Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:07:14 EDT 2012 Acquisition finished: Wed Sep 19 09:10:46 EDT 2012</p> <p>Identification of nonsupported devices was not successful</p> <p><b>Notes:</b> Acquisition of nonsupported devices (i.e., iPod Nano) did not provide an error message stating the device was not supported.</p>					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-CA-02 Identification of nonsupported devices.</td><td>Not as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-CA-02 Identification of nonsupported devices.	Not as expected
Assertion & Expected Result	Actual Result					
SPT-CA-02 Identification of nonsupported devices.	Not as expected					
Analysis:	Expected results not achieved					

### 5.2.54 SPT-03 (iPhone 3.1.3)

Test Case SPT-03 Lantern v2.3						
Case Summary:	SPT-03 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.					
Assertions:	SPT-CA-03 If connectivity between the mobile device and cellular forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Wed Sep 19 09:12:34 EDT 2012					
Device:	lantern_iphone_3.1.3					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:12:34 EDT 2012 Acquisition finished: Wed Sep 19 09:14:46 EDT 2012  Device acquisition disruption notification was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td> </td><td> </td></tr></table>		Assertion & Expected Result	Actual Result		
Assertion & Expected Result	Actual Result					



Test Case SPT-03 Lantern v2.3		
	SPT-CA-03 Notification of device acquisition disruption.	as expected
Analysis:	Expected results achieved	

### 5.2.55 SPT-04 (iPhone 3.1.3)

Test Case SPT-04 Lantern v2.3						
Case Summary:	SPT-04 Acquire mobile device internal memory and review reported data via the preview pane or generated reports for readability.					
Assertions:	SPT-CA-04 If a cellular forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview pane or generated report.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Wed Sep 19 09:26:14 EDT 2012					
Device:	iPhone_3.1.3					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:26:14 EDT 2012 Acquisition finished: Wed Sep 19 09:32:09 EDT 2012  Readability and completeness of acquired data was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-CA-04 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected
Assertion & Expected Result	Actual Result					
SPT-CA-04 Readability and completeness of acquired data via supported reports.	as expected					
Analysis:	Expected results achieved					

### 5.2.56 SPT-05 (iPhone 3.1.3)

Test Case SPT-05 Lantern v2.3		
Case Summary:	SPT-05 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMEI/MEID/ESN, MSISDN).	
Assertions:	SPT-CA-05 If a cellular forensic tool completes acquisition of the target device without error then subscriber-related information shall be presented in a useable format. SPT-CA-06 If a cellular forensic tool completes acquisition of the target device without error then equipment related information shall be presented in a useable format.	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 09:33:16 EDT 2012	
Device:	iPhone_3.1.3	
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable	
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:33:16 EDT 2012 Acquisition finished: Wed Sep 19 09:36:08 EDT 2012  Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired	
Results:		

Test Case SPT-05 Lantern v2.3		
	Assertion & Expected Result	Actual Result
	SPT-CA-05 Acquisition of MSISDN, IMSI.	as expected
	SPT-CA-06 Acquisition of IMEI/MEID/ESN.	as expected
Analysis:	Expected results achieved	

### 5.2.57 SPT-06 (iPhone 3.1.3)

Test Case SPT-06 Lantern v2.3										
Case Summary:	SPT-06 Acquire mobile device internal memory and review reported PIM related data.									
Assertions:	<p>SPT-CA-07 If a cellular forensic tool completes acquisition of the target device without error then address book entries shall be presented in a useable format.</p> <p>SPT-CA-08 If a cellular forensic tool completes acquisition of the target device without error then maximum length address book entries shall be presented in a useable format.</p> <p>SPT-CA-09 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing special characters shall be presented in a useable format.</p> <p>SPT-CA-10 If a cellular forensic tool completes acquisition of the target device without error then address book entries containing blank names shall be presented in a useable format.</p> <p>SPT-CA-11 If a cellular forensic tool completes acquisition of the target device without error then email addresses associated with address book entries shall be presented in a useable format.</p> <p>SPT-CA-12 If a cellular forensic tool completes acquisition of the target device without error then graphics associated with address book entries shall be presented in a useable format.</p> <p>SPT-CA-13 If a cellular forensic tool completes acquisition of the target device without error then datebook, calendar, note entries shall be presented in a useable format.</p> <p>SPT-CA-14 If a cellular forensic tool completes acquisition of the target device without error then maximum length datebook, calendar, note entries shall be presented in a useable format.</p>									
Tester Name:	rpa									
Test Host:	p630542									
Test Date:	Wed Sep 19 09:36:40 EDT 2012									
Device:	iPhone_3.1.3									
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable									
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Wed Sep 19 09:36:40 EDT 2012</p> <p>Acquisition finished: Wed Sep 19 09:39:09 EDT 2012</p> <p>Regular Length Address Book entries were acquired</p> <p>Maximum Length Address Book entries were not acquired</p> <p>Special Character Address Book entries were acquired</p> <p>Blank Name Address Book entries were acquired</p> <p>Email addresses within Address Book entries were acquired</p> <p>Embedded graphics within Address Book entries were acquired</p> <p>ALL PIM related data was acquired</p> <p><b>Notes:</b></p> <p>Contact entries containing middle names only reported the first and last name.</p>									
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-CA-07 Acquisition of address book entries.</td><td>as expected</td></tr><tr><td>SPT-CA-08 Acquisition of maximum length address book entries.</td><td>Not as expected</td></tr><tr><td>SPT-CA-09 Acquisition of address book entries containing</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-CA-07 Acquisition of address book entries.	as expected	SPT-CA-08 Acquisition of maximum length address book entries.	Not as expected	SPT-CA-09 Acquisition of address book entries containing	as expected
Assertion & Expected Result	Actual Result									
SPT-CA-07 Acquisition of address book entries.	as expected									
SPT-CA-08 Acquisition of maximum length address book entries.	Not as expected									
SPT-CA-09 Acquisition of address book entries containing	as expected									

Test Case SPT-06 Lantern v2.3		
	special characters.	
	SPT-CA-10 Acquisition of address book entries containing a blank name entry.	as expected
	SPT-CA-11 Acquisition of embedded email addresses within address book entries.	as expected
	SPT-CA-12 Acquisition of embedded graphics within address book entries.	as expected
	SPT-CA-13 Acquisition of PIM data (i.e., datebook/calendar, notes).	as expected
	SPT-CA-14 Acquisition of maximum length PIM data.	as expected
Analysis:	Partial results achieved	

### 5.2.58 SPT-07 (iPhone 3.1.3)

Test Case SPT-07 Lantern v2.3								
Case Summary:	SPT-07 Acquire mobile device internal memory and review reported call logs.							
Assertions:	SPT-CA-15 If a cellular forensic tool completes acquisition of the target device without error then call logs (incoming/outgoing/missed) shall be presented in a useable format. SPT-CA-16 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps and the duration of the call for call logs shall be presented in a useable format.							
Tester Name:	rpa							
Test Host:	p630542							
Test Date:	Wed Sep 19 09:41:05 EDT 2012							
Device:	iPhone_3.1.3							
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable							
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:41:05 EDT 2012 Acquisition finished: Wed Sep 19 09:53:16 EDT 2012  All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported							
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-CA-15 Acquisition of call logs.</td><td>as expected</td></tr><tr><td>SPT-CA-16 Acquisition of call log date/time stamps.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-CA-15 Acquisition of call logs.	as expected	SPT-CA-16 Acquisition of call log date/time stamps.	as expected
Assertion & Expected Result	Actual Result							
SPT-CA-15 Acquisition of call logs.	as expected							
SPT-CA-16 Acquisition of call log date/time stamps.	as expected							
Analysis:	Expected results achieved							

### 5.2.59 SPT-08 (iPhone 3.1.3)

Test Case SPT-08 Lantern v2.3		
Case Summary:	SPT-08 Acquire mobile device internal memory and review reported text messages.	
Assertions:	<p>SPT-CA-17 If a cellular forensic tool completes acquisition of the target device without error then ASCII text messages (i.e., SMS, EMS) shall be presented in a useable format.</p> <p>SPT-CA-18 If a cellular forensic tool completes acquisition of the target device without error then the corresponding date/time stamps for text messages shall be presented in a useable format.</p> <p>SPT-CA-19 If a cellular forensic tool completes acquisition of the target device without error then the corresponding status (i.e., read, unread) for text messages shall be presented in a useable format.</p> <p>SPT-CA-20 If a cellular forensic tool completes acquisition of the target device without error then the corresponding sender / recipient phone numbers for text messages shall be presented in a useable format.</p>	

Test Case SPT-08 Lantern v2.3											
Tester Name:	rpa										
Test Host:	p630542										
Test Date:	Wed Sep 19 09:41:27 EDT 2012										
Device:	iPhone_3.1.3										
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable										
Log Highlights:	<p>Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:41:27 EDT 2012 Acquisition finished: Wed Sep 19 09:53:58 EDT 2012</p> <p>ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported</p>										
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-17 Acquisition of text messages.</td><td>as expected</td></tr> <tr> <td>SPT-CA-18 Acquisition of text message date/time stamps.</td><td>as expected</td></tr> <tr> <td>SPT-CA-19 Acquisition of text message status flags.</td><td>as expected</td></tr> <tr> <td>SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-17 Acquisition of text messages.	as expected	SPT-CA-18 Acquisition of text message date/time stamps.	as expected	SPT-CA-19 Acquisition of text message status flags.	as expected	SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected
Assertion & Expected Result	Actual Result										
SPT-CA-17 Acquisition of text messages.	as expected										
SPT-CA-18 Acquisition of text message date/time stamps.	as expected										
SPT-CA-19 Acquisition of text message status flags.	as expected										
SPT-CA-20 Acquisition of sender/recipient phone number associated with text messages.	as expected										
Analysis:	Expected results achieved										

## 5.2.60 SPT-09 (iPhone 3.1.3)

Test Case SPT-09 Lantern v2.3									
Case Summary:	SPT-09 Acquire mobile device internal memory and review reported MMS multi-media related data (i.e., text, audio, graphics, video).								
Assertions:	<p>SPT-CA-21 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated audio shall be presented in a useable format.</p> <p>SPT-CA-22 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated graphic files shall be presented in a useable format.</p> <p>SPT-CA-23 If a cellular forensic tool completes acquisition of the target device without error then MMS messages and associated video shall be presented in a useable format.</p>								
Tester Name:	rpa								
Test Host:	p630542								
Test Date:	Wed Sep 19 09:41:50 EDT 2012								
Device:	iPhone_3.1.3								
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable								
Log Highlights:	<p>Created by Lantern v2.3 Acquisition started: Wed Sep 19 09:41:50 EDT 2012 Acquisition finished: Wed Sep 19 09:54:25 EDT 2012</p> <p>ALL MMS messages (Audio, Image, Video) were acquired</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-21 Acquisition of audio MMS messages.</td><td>as expected</td></tr> <tr> <td>SPT-CA-22 Acquisition of graphic data image MMS messages.</td><td>as expected</td></tr> <tr> <td>SPT-CA-23 Acquisition of video MMS messages.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-21 Acquisition of audio MMS messages.	as expected	SPT-CA-22 Acquisition of graphic data image MMS messages.	as expected	SPT-CA-23 Acquisition of video MMS messages.	as expected
Assertion & Expected Result	Actual Result								
SPT-CA-21 Acquisition of audio MMS messages.	as expected								
SPT-CA-22 Acquisition of graphic data image MMS messages.	as expected								
SPT-CA-23 Acquisition of video MMS messages.	as expected								

<b>Test Case SPT-09 Lantern v2.3</b>	
Analysis:	Expected results achieved

### 5.2.61 SPT-10 (iPhone 3.1.3)

<b>Test Case SPT-10 Lantern v2.3</b>									
Case Summary:	SPT-10 Acquire mobile device internal memory and review reported stand-alone multi-media data (i.e., audio, graphics, video).								
Assertions:	<p>SPT-CA-24 If a cellular forensic tool completes acquisition of the target device without error then stand-alone audio files shall be presented in a useable format via either an internal application or suggested third-party application.</p> <p>SPT-CA-25 If a cellular forensic tool completes acquisition of the target device without error then stand-alone graphic files shall be presented in a useable format via either an internal application or suggested third-party application.</p> <p>SPT-CA-26 If a cellular forensic tool completes acquisition of the target device without error then stand-alone video files shall be presented in a useable format via either an internal application or suggested third-party application.</p>								
Tester Name:	rpa								
Test Host:	p630542								
Test Date:	Wed Sep 19 09:42:17 EDT 2012								
Device:	iPhone_3.1.3								
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable								
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Wed Sep 19 09:42:17 EDT 2012</p> <p>Acquisition finished: Wed Sep 19 09:54:42 EDT 2012</p> <p>ALL stand-alone data files (Audio, Image, Video) were acquired</p>								
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-24 Acquisition of stand-alone audio files.</td><td>as expected</td></tr> <tr> <td>SPT-CA-25 Acquisition of stand-alone graphic files.</td><td>as expected</td></tr> <tr> <td>SPT-CA-26 Acquisition of stand-alone video files.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-24 Acquisition of stand-alone audio files.	as expected	SPT-CA-25 Acquisition of stand-alone graphic files.	as expected	SPT-CA-26 Acquisition of stand-alone video files.	as expected
Assertion & Expected Result	Actual Result								
SPT-CA-24 Acquisition of stand-alone audio files.	as expected								
SPT-CA-25 Acquisition of stand-alone graphic files.	as expected								
SPT-CA-26 Acquisition of stand-alone video files.	as expected								
Analysis:	Expected results achieved								

### 5.2.62 SPT-12 (iPhone 3.1.3)

<b>Test Case SPT-12 Lantern v2.3</b>	
Case Summary:	SPT-12 Acquire mobile device internal memory and review Internet related data (i.e., bookmarks, visited sites).
Assertions:	SPT-CA-28 If a cellular forensic tool completes acquisition of the target device without error then Internet related data (i.e., bookmarks, visited sites) cached to the device shall be acquired and presented in a useable format.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 09:55:22 EDT 2012
Device:	iPhone_3.1.3
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Wed Sep 19 09:55:22 EDT 2012</p> <p>Acquisition finished: Wed Sep 19 10:00:25 EDT 2012</p>

Test Case SPT-12 Lantern v2.3					
	Partial Internet related data was acquired  <b>Notes:</b> Internet Bookmarks were not reported				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-28 Acquisition of Internet related data.</td><td>Not as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-28 Acquisition of Internet related data.	Not as expected
Assertion & Expected Result	Actual Result				
SPT-CA-28 Acquisition of Internet related data.	Not as expected				
Analysis:	Expected results not achieved				

### 5.2.63 SPT-13 (iPhone 3.1.3)

Test Case SPT-13 Lantern v2.3									
Case Summary:	SPT-13 Acquire mobile device internal memory by selecting a combination of supported data elements.								
Assertions:	SPT-CA-29 If a cellular forensic tool provides the user with an "Acquire All" device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. SPT-CA-30 If a cellular forensic tool provides the user with an "Select All" individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. SPT-CA-31 If a cellular forensic tool provides the user with the ability to "Select Individual" device data objects for acquisition then the tool shall acquire each exclusive data object without error.								
Tester Name:	rpa								
Test Host:	p630542								
Test Date:	Wed Sep 19 10:01:23 EDT 2012								
Device:	iPhone_3.1.3								
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable								
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 10:01:23 EDT 2012 Acquisition finished: Wed Sep 19 10:04:17 EDT 2012  Acquire All acquisition was successful								
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-CA-29 Acquire-All data objects acquisition.</td><td>as expected</td></tr> <tr> <td>SPT-CA-30 Select-All data objects acquisition.</td><td>as expected</td></tr> <tr> <td>SPT-CA-31 Select-Individual data objects acquisition.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-CA-29 Acquire-All data objects acquisition.	as expected	SPT-CA-30 Select-All data objects acquisition.	as expected	SPT-CA-31 Select-Individual data objects acquisition.	as expected
Assertion & Expected Result	Actual Result								
SPT-CA-29 Acquire-All data objects acquisition.	as expected								
SPT-CA-30 Select-All data objects acquisition.	as expected								
SPT-CA-31 Select-Individual data objects acquisition.	as expected								
Analysis:	Expected results achieved								

### 5.2.64 SPT-24 (iPhone 3.1.3)

Test Case SPT-24 Lantern v2.3	
Case Summary:	SPT-24 Acquire mobile device internal memory and review reported data via supported generated report formats.
Assertions:	SPT-AO-25 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format via supported generated report formats.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 10:05:02 EDT 2012
Device:	iPhone_3.1.3
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable

Test Case SPT-24 Lantern v2.3						
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 10:05:02 EDT 2012 Acquisition finished: Wed Sep 19 10:17:31 EDT 2012					
	Complete representation of known data via generated reports was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-AO-25 Comparison of known device data elements via generated reports.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-AO-25 Comparison of known device data elements via generated reports.	as expected
	Assertion & Expected Result	Actual Result				
SPT-AO-25 Comparison of known device data elements via generated reports.	as expected					
Analysis:	Expected results achieved					

### 5.2.65 SPT-25 (iPhone 3.1.3)

Test Case SPT-25 Lantern v2.3						
Case Summary:	SPT-25 Acquire mobile device internal memory and review reported data via the preview pane.					
Assertions:	SPT-AO-26 If a cellular forensic tool completes acquisition of the target device without error then the tool shall present the acquired data in a useable format in a preview pane view.					
Tester Name:	rpa					
Test Host:	p630542					
Test Date:	Wed Sep 19 10:05:45 EDT 2012					
Device:	iPhone_3.1.3					
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable					
Log Highlights:	Created by Lantern v2.3 Acquisition started: Wed Sep 19 10:05:45 EDT 2012 Acquisition finished: Wed Sep 19 10:17:59 EDT 2012  Complete representation of known data via preview pane was successful					
Results:	<table><tr><th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr><tr><td>SPT-AO-26 Comparison of known device data elements via preview-pane.</td><td>as expected</td></tr></table>		Assertion & Expected Result	Actual Result	SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected
Assertion & Expected Result	Actual Result					
SPT-AO-26 Comparison of known device data elements via preview-pane.	as expected					
Analysis:	Expected results achieved					

### 5.2.66 SPT-33 (iPhone 3.1.3)

Test Case SPT-33 Lantern v2.3		
Case Summary:	SPT-33 Acquire mobile device internal memory and review data containing non-ASCII characters.	
Assertions:	<p>SPT-AO-40 If the cellular forensic tool supports display of non-ASCII characters then the application should present address book entries in their native format.</p> <p>SPT-AO-41 If the cellular forensic tool supports proper display of non-ASCII characters then the application should present text messages in their native format.</p>	
Tester Name:	rpa	
Test Host:	p630542	
Test Date:	Wed Sep 19 10:06:17 EDT 2012	
Device:	iPhone_3.1.3	
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable	

Test Case SPT-33 Lantern v2.3							
Log Highlights:	<p>Created by Lantern v2.3  Acquisition started: Wed Sep 19 10:06:17 EDT 2012  Acquisition finished: Wed Sep 19 10:18:17 EDT 2012</p> <p>Non-ASCII Address book entries were acquired and properly displayed  Non-ASCII text messages were acquired and properly displayed</p>						
Results:	<table> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> <tr> <td>SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.</td><td>as expected</td></tr> <tr> <td>SPT-AO-41 Acquisition of non-ASCII text messages.</td><td>as expected</td></tr> </table>	Assertion & Expected Result	Actual Result	SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.	as expected	SPT-AO-41 Acquisition of non-ASCII text messages.	as expected
Assertion & Expected Result	Actual Result						
SPT-AO-40 Acquisition of non-ASCII address book entries/ADNs.	as expected						
SPT-AO-41 Acquisition of non-ASCII text messages.	as expected						
Analysis:	Expected results achieved						

### 5.2.67 SPT-38 (iPhone 3.1.3)

Test Case SPT-38 Lantern v2.3					
Case Summary:	SPT-38 Acquire mobile device internal memory and review hash values for vendor supported data objects.				
Assertions:	SPT-AO-43 If the cellular forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.				
Tester Name:	rpa				
Test Host:	p630542				
Test Date:	Wed Sep 19 10:06:49 EDT 2012				
Device:	iPhone_3.1.3				
Source Setup:	OS: Mac OS X v10.6.8 Interface: cable				
Log Highlights:	<p>Created by Lantern v2.3  Acquisition started: Wed Sep 19 10:06:49 EDT 2012  Acquisition finished: Wed Sep 19 10:18:55 EDT 2012</p> <p>Hash values were properly reported for individually acquired device data elements</p>				
Results:	<table> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> <tr> <td>SPT-AO-43 Acquire data, check known hash values for consistency.</td><td>as expected</td></tr> </table>	Assertion & Expected Result	Actual Result	SPT-AO-43 Acquire data, check known hash values for consistency.	as expected
Assertion & Expected Result	Actual Result				
SPT-AO-43 Acquire data, check known hash values for consistency.	as expected				
Analysis:	Expected results achieved				

### 5.2.68 SPT-40 (iPhone 3.1.3)

Test Case SPT-40 Lantern v2.3	
Case Summary:	SPT-40 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates.
Assertions:	SPT-AO-44 If the cellular forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p630542
Test Date:	Wed Sep 19 10:07:17 EDT 2012
Device:	iPhone_3.1.3
Source	OS: Mac OS X v10.6.8



Test Case SPT-40 Lantern v2.3					
Setup:	Interface: cable				
Log Highlights:	<p>Created by Lantern v2.3</p> <p>Acquisition started: Wed Sep 19 10:07:17 EDT 2012</p> <p>Acquisition finished: Wed Sep 19 10:19:11 EDT 2012</p> <p>GPS Coordinate data was successfully acquired</p>				
Results:	<table border="1"> <thead> <tr> <th>Assertion &amp; Expected Result</th><th>Actual Result</th></tr> </thead> <tbody> <tr> <td>SPT-AO-44 Acquire data, check GPS data for consistency.</td><td>as expected</td></tr> </tbody> </table>	Assertion & Expected Result	Actual Result	SPT-AO-44 Acquire data, check GPS data for consistency.	as expected
Assertion & Expected Result	Actual Result				
SPT-AO-44 Acquire data, check GPS data for consistency.	as expected				
Analysis:	Expected results achieved				

## About the National Institute of Justice

A component of the Office of Justice Programs, NIJ is the research, development and evaluation agency of the U.S. Department of Justice. NIJ's mission is to advance scientific research, development and evaluation to enhance the administration of justice and public safety. NIJ's principal authorities are derived from the Omnibus Crime Control and Safe Streets Act of 1968, as amended (see 42 U.S.C. §§ 3721–3723).

The NIJ Director is appointed by the President and confirmed by the Senate. The Director establishes the Institute's objectives, guided by the priorities of the Office of Justice Programs, the U.S. Department of Justice, and the needs of the field. The Institute actively solicits the views of criminal justice and other professionals and researchers to inform its search for the knowledge and tools to guide policy and practice.

### Strategic Goals

NIJ has seven strategic goals grouped into three categories:

#### Creating relevant knowledge and tools

1. Partner with state and local practitioners and policymakers to identify social science research and technology needs.
2. Create scientific, relevant, and reliable knowledge—with a particular emphasis on terrorism, violent crime, drugs and crime, cost-effectiveness, and community-based efforts—to enhance the administration of justice and public safety.
3. Develop affordable and effective tools and technologies to enhance the administration of justice and public safety.

#### Dissemination

4. Disseminate relevant knowledge and information to practitioners and policymakers in an understandable, timely and concise manner.
5. Act as an honest broker to identify the information, tools and technologies that respond to the needs of stakeholders.

#### Agency management

6. Practice fairness and openness in the research and development process.
7. Ensure professionalism, excellence, accountability, cost-effectiveness and integrity in the management and conduct of NIJ activities and programs.

#### Program Areas

In addressing these strategic challenges, the Institute is involved in the following program areas: crime control and prevention, including policing; drugs and crime; justice systems and offender behavior, including corrections; violence and victimization; communications and information technologies; critical incident response; investigative and forensic sciences, including DNA; less-than-lethal technologies; officer protection; education and training technologies; testing and standards; technology assistance to law enforcement and corrections agencies; field testing of promising programs; and international crime control.

In addition to sponsoring research and development and technology assistance, NIJ evaluates programs, policies, and technologies. NIJ communicates its research and evaluation findings through conferences and print and electronic media.

To find out more about the National Institute of Justice, please visit:

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800–851–3420  
<http://www.ncjrs.gov>