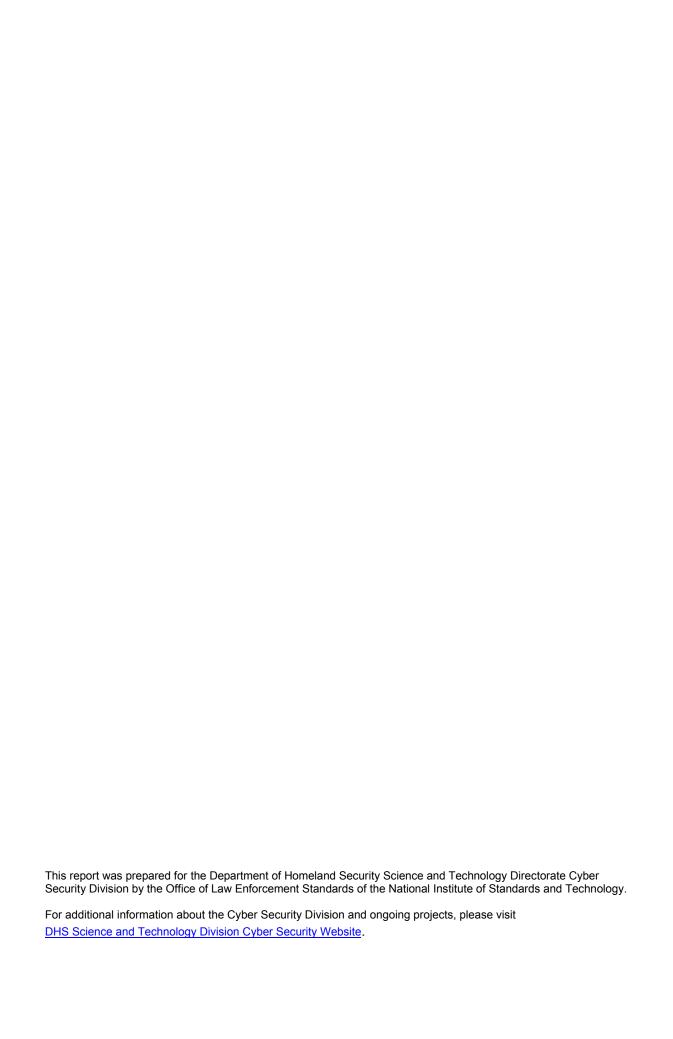


Device Seizure v7.4 build 5921.15166

Test Results for Mobile Device Acquisition Tool *May 25, 2016*





Test Results for Mobile Device Acquisition Tool: Device Seizure v7.4 build 5921.15166

Contents

In	ıtrodu	ction	1
		Read This Report	
		ults Summary	
		bile Devices	
		ting Environment	
		Execution Environment	
		Internal Memory Data Objects	
		UICC Data Objects	
4		t Results	
	4.1	Android Mobile Devices	8
	4.2	iOS Mobile Devices	10
	4.3	Windows / Feature Phones.	13
		Universal Integrated Circuit Cards (UICCs)	

Introduction

The Computer Forensics Tool Testing (CFTT) program is a joint project of the Department of Homeland Security (DHS), the National Institute of Justice (NIJ), and the National Institute of Standards and Technology Special Program Office (SPO) 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, U.S. Internal Revenue Service Criminal Investigation Division Electronic Crimes Program, and 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 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, users to make informed choices, and the legal community and others to understand the tools' capabilities. The CFTT approach to testing computer forensics tools is based on well-recognized methodologies for conformance and quality testing. Interested parties in the computer forensics community can review and comment on the specifications and test methods posted on the CFTT Web site.

This document reports the results from testing Device Seizure v7.4 across supported Android and iOS mobile devices

Test results from other tools can be found on the DHS S&T web page, <u>NIST CFTT reports web page</u>.

How to Read This Report

This report is divided into four sections. Section 1 identifies and provides a summary of any significant anomalies observed in the test runs. This section is sufficient for most readers to assess the suitability of the tool for the intended use. Section 2 identifies the mobile devices used for testing. Section 3 lists testing environment, the internal memory data objects used to populate the mobile devices. Section 4 provides an overview of the test case results reported by the tool. The full test data is available at NIST CFTT Mobile Devices web page.

Test Results for Mobile Device Acquisition Tool

Tool Tested: Device Seizure Software Version: 7.4 build 5921.15166

Supplier: Paraben Corporation

Address: 21690 Red Rum Drive Ste 137

Ashburn, VA 20147

Tel: (801) 796-0944

Email: Paraben support email address
WWW: Paraben Corporation website

1 Results Summary

Paraben's Device Seizure version 7.4 supports logical, physical, & file system acquisitions, as well as password bypassing from over 24,000 device profiles.

The tool was tested for its ability to acquire active data from the internal memory of supported mobile devices and associated media (i.e., smart phones, feature phones, UICCs). Except for the following anomalies, the tool acquired all supported data objects completely and accurately for all mobile devices tested.

Connectivity:

• Connectivity was not established. (Device: *LG Extravert*)

Equipment / Subscriber related data:

Subscriber related data (i.e., IMEI/IMSI, MSISDN) was not reported. (Device: HTC Win 8x)

Personal Information Management (PIM) data:

- Contacts, calendar entries are not reported. (Device: $HTC\ Win\ 8x$)
- Call logs are not reported. (Device: HTC Win 8x)
- Memos are not reported. (Devices: Motorola Droid Turbo 2, Galaxy S6, Galaxy S6 Edge Plus, LG G4, Galaxy Tab-E, Galaxy Tab S2, HTC Win 8x, Samsung Rugby III)
- Address book contacts containing an associated graphic are not reported or viewable. (Devices: iOS devices).
- Address book contacts containing an associated graphic or additional metadata (i.e., address, website, email) are not reported. (Device: *Samsung Rugby III*)
- Incoming SMS messages are not reported. (Device: Samsung Rugby III)
- SMS messages are not reported. (Device: HTC Win 8x)
- MMS messages are not reported. (Device: HTC Win 8x, Samsung Rugby III)
- MMS attachments (audio, graphic, video) are not included with the associated textual portion of the message. (Devices: *Motorola Droid Turbo 2, Galaxy S6, Galaxy S6 Edge Plus, LG G4*)

Application Data:

Application related data (i.e., txt, pdf files) was not acquired. (Devices: iOS devices, HTC Win 8x)

Stand-alone Files:

• Stand-alone audio/music files are not reported. (Devices: *iOS devices*)

Social media Data:

- Social media (Facebook, LinkedIn, Instagram) related data is not reported.
 (Devices: Motorola Droid Turbo 2, LG G4, Ellipsis 8)
- Partial social media related data (i.e., graphic files) for Twitter are reported.
 (Devices: Motorola Droid Turbo 2, LG G4, Ellipsis 8)
- Social media (Facebook, twitter, LinkedIn, Instagram) related data is not reported.
 (Devices: iOS devices, Galaxy S6, Galaxy S6 Edge Plus, Galaxy Tab E, Galaxy Tab S2, HTC Win 8x)

Internet Related Data:

- Browser history and bookmarks are not reported. (Devices: Galaxy S6, Galaxy S6
 Edge Plus, Galaxy Tab-E, Galaxy Tab S2, HTC Win 8x, Samsung Ruby III)
- Email related data is not reported. (Devices: Motorola Droid Turbo 2, Galaxy S6, Galaxy S6 Edge Plus, LG G4, Galaxy Tab-E, Galaxy Tab S2, iOS devices, HTC Win 8x, Samsung Ruby III)

GPS Related Data:

■ GPS related – waypoints, routes, longitude and latitude coordinates are not reported. (Devices: *Motorola Droid Turbo 2, Galaxy S6, Galaxy S6 Edge Plus, LG G4, Galaxy Tab E, Galaxy Tab S2, HTC Win 8x, Samsung Rugby III*)

NOTES:

- Connectivity Ellipsis 8 only provides acquisition support as a portable device. Portable device data extractions only acquire and report media related files (audio, video, graphic).
- Address book metadata (e.g., street address, city, state) are not reported in the associated parsed data / Contacts for all iOS devices. The data can be found within Addressbook.sqlite.

For more test result details see section 4.

2 Mobile Devices

The following table lists the mobile devices used for testing Device Seizure v7.4.

Make	Model	OS	Firmware	Network
Apple iPhone	6	iOS 9.2.1 (13C75)	4.52.00	CDMA
Apple iPhone	6S	iOS 9.2.1 (13C75)	1.23.00	CDMA
Apple iPhone	6S Plus	iOS 9.2.1 (13C75)	1.23.00	CDMA
Apple iPad	Mini	iOS 9.2.1 (13B143)	4.32.00	CDMA
Apple iPad	Pro	iOS 9.2.1 (13C75)	4.52.00	CDMA
Motorola Droid	Turbo2	Android 5.1.1	LCK23.130-23	CDMA
Samsung Galaxy	S6	Android 5.1.1	LMY47.G920VVRU4BOK7	CDMA
Samsung Galaxy	S6 Edge Plus	Android 5.1.1	LMY47X.G928VVRU2AOJ2	CDMA
LG	G4	Android 5.1.1	LMY47D	CDMA
Ellipsis	8	Android 4.4.2	QZ3_PE3X	CDMA
Samsung Galaxy	Tab E	Android 5.1.1	LMY47X.T567VVRU1AOH1	CDMA
Samsung Galaxy	Tab S2	Android 5.1.1	LMY47X.T817BVRU2AOJ2	CDMA
HTC Win 8x	HTC PM23300	Win 8.0	3030.0.34101.502	GSM
Samsung Rugby III	SGH-A997	A997UCM G1	REV0.2	GSM
LG Extravert	Extravert	VN28010A	REV1.0	CDMA

Table 1: Mobile Devices

3 Testing Environment

The tests were run in the NIST CFTT lab. This section describes the selected test execution environment, and the data objects populated onto the internal memory of mobile devices.

3.1 Execution Environment

Device Seizure version 7.4 was installed on Windows 7 v6.1.7601.

3.2 Internal Memory Data Objects

Device Seizure v7.4 was measured by analyzing acquired data from the internal memory of pre-populated mobile devices. Table 2 defines the data objects and elements used for populating mobile devices provided the mobile device supports the data element.

Data Objects	Data Elements
Address Book Entries	
	Regular Length
	Maximum Length
	Special Character
	Blank Name
	Regular Length, email
	Regular Length, graphic
	Regular Length, Address
	Deleted Entry
	Non-Latin Entry
	Contact Groups
PIM Data	
Datebook/Calendar	Regular Length
Memos	Maximum Length
	Deleted Entry
	Special Character
	Blank Entry
Call Logs	
	Incoming
	Outgoing
	Missed
	Incoming – Deleted
	Outgoing – Deleted
	Missed - Deleted

Data Objects	Data Elements
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-Latin SMS/EMS
MMS Messages	
	Incoming Audio
	Incoming Graphic
	Incoming Video
	Outgoing Audio
	Outgoing Graphic
	Outgoing Video
Application Data	
	Device Specific App Data
Stand-alone data files	
	Audio
	Graphic
	Video
	Audio – Deleted
	Graphic - Deleted
	Video - Deleted
Internet Data	
	Visited Sites
	Bookmarks
	E-mail
Location Data	ana a
	GPS Coordinates
0 111/11/2	Geo-tagged Data
Social Media Data	
	Facebook
	Twitter
	LinkedIn
	Instagram

Table 2: Internal Memory Data Objects

3.3 UICC Data Objects

The table below (Table 3) provides an overview of the data elements populated on Universal Integrated Circuit Cards (UICCs).

Data Objects	Data Elements
Abbreviated Dialing Numbers (ADN)	
	Maximum Length
	Special Character
	Blank Name
	Non-ASCII Entry
	Regular Length - Deleted Number
Call Logs	
	Last Numbers Dialed (LND)
Text Messages	
	Incoming SMS - Read
	Incoming SMS - Unread
	Non-ASCII SMS
	Incoming SMS - Deleted
	Non-ASCII EMS
	Incoming EMS - Deleted

Table 3: UICC Data Objects

4 Test Results

This section provides the test cases results reported by the tool. Sections 4.1 - 4.4 identify the mobile device operating system type (e.g., Android, iOS) and the make and model of mobile devices used for testing Device Seizure v7.4.

The *Test Cases* column (internal memory acquisition) in sections 4.1 - 4.4 are comprised of two sub-columns that define a particular test category and individual sub-categories that are verified when acquiring the internal memory for supported mobile devices and UICCs within each test case. Each individual sub-category row results for each mobile device/UICC tested. The results are as follows:

As Expected: the mobile forensic application returned expected test results – the tool acquired and reported data from the mobile device/UICC successfully.

Partial: the mobile forensic application returned some of data from the mobile device/UICC.

Not As Expected: the mobile forensic application failed to return expected test results – the tool did not acquire or report supported data from the mobile device/UICC successfully.

NA: Not Applicable – the mobile forensic application is unable to perform the test or the tool does not provide support for the acquisition for a particular data element.

4.1 Android Mobile Devices

The internal memory contents for Android devices were acquired and analyzed with Device Seizure v7.4.

All test cases pertaining to the acquisition of supported Android devices were successful with the exception of the following.

- Memos are not reported for the Motorola Droid Turbo 2, Galaxy S6, Galaxy S6
 Edge Plus, LG G4, Galaxy Tab E or the Galaxy Tab S2.
- MMS attachments (audio, graphic, video) are not included with the associated textual portion of the message for the Motorola Droid Turbo 2, Galaxy S6, Galaxy S6 Edge Plus or the LG G4.
- Email related data is not reported for the Motorola Droid Turbo 2, Galaxy S6, Galaxy S6 Edge Plus, LG G4, Galaxy Tab E or the Galaxy Tab S2.
- Social media related data for Facebook, Twitter, LinkedIn and Instagram are not reported for the Galaxy S6, Galaxy S6 Edge Plus, Galaxy Tab E or the Galaxy Tab S2.
- Social media related data for Facebook, LinkedIn and Instagram are not reported for the Motorola Droid Turbo 2, LG G4 or the Ellipsis 8. Partial Twitter related data (i.e., graphic files) is reported.
- Internet related data (bookmarks, browser history) is not reported for the Galaxy S6, Galaxy S6 Edge Plus, Galaxy Tab E or the Galaxy Tab S2.
- GPS related data is not reported for the Motorola Droid Turbo 2, Galaxy S6, Galaxy S6 Edge Plus, LG G4, Galaxy Tab E or the Galaxy Tab S2.

NOTES:

- > To establish connectivity for the LG G4 the latest ADB drivers were downloaded from the manufacturers site.
- Connectivity for the Ellipsis 8 only provides acquisition support as a portable device. Portable device data extractions only acquire and report media related files.

See Table 4 below for more details.

	Device Seizure v7.4							
			I	Mobile Der	rice Platfor	rm: Androi	d	
	Test Cases – Internal Memory Acquisition		Galaxy S6	Galaxy S6 Edge Plus	LG G4	Ellipsis 8	Galaxy Tab-E	Galaxy Tab S2
A	Acquire All	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected
Acquisition	Disrupted	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected
D. C.	Preview-Pane	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected
Reporting	Generated Reports	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected
	IMEI	As Expected	As Expected	As Expected	As Expected	NA	As Expected	As Expected
Equipment/ User Data	MEID/ESN	NA	NA	NA	NA	NA	NA	NA
	MSISDN	As Expected	As Expected	As Expected	As Expected	NA	As Expected	As Expected
	Contacts	As Expected	As Expected	As Expected	Not As Expected	Not As Expected	As Expected	As Expected
PIM Data	Calendar	As Expected	As Expected	As Expected	As Expected	NA	As Expected	As Expected
	Memos/Notes	Not As Expected	Not As Expected	Not As Expected	Not As Expected	NA	Not As Expected	Not As Expected
	Incoming	As Expected	As Expected	As Expected	As Expected	NA	As Expected	As Expected
Call Logs	Outgoing	As Expected	As Expected	As Expected	As Expected	NA	As Expected	As Expected
	Missed	As Expected	As Expected	As Expected	As Expected	NA	As Expected	As Expected
SMS	Incoming	As Expected	As Expected	As Expected	As Expected	NA	As Expected	As Expected
Messages	Outgoing	As Expected	As Expected	As Expected	As Expected	NA	As Expected	As Expected
MMS	Graphic	Partial	Partial	Partial	Partial	Partial	Partial	Partial
Messages	Audio Video	Partial Partial	Partial Partial	Partial Partial	Partial Partial	Partial Partial	Partial Partial	Partial Partial
	Graphic	As	As	As	As	As	As	As
Stand-alone	Audio	Expected As	Expected As	Expected As	Expected As	Expected As	Expected As	Expected As
Files	Video	Expected As Expected	As Expected	Expected As Expected	Expected As Expected	As Expected	Expected As Expected	As Expected
Application Data	Documents (txt, pdf files)	Expected As Expected	Expected As Expected	Expected As Expected	Expected As Expected	Expected As Expected	Expected As Expected	Expected As Expected

Device Seizure v7.4								
			Ì	Mobile Der	vice Platfor	rm: Androi	d	
Test Cases – Internal Memory Acquisition		Moto Droid Turbo 2	Galaxy S6	Galaxy S6 Edge Plus	LG G4	Ellipsis 8	Galaxy Tab-E	Galaxy Tab S2
	Facebook	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected
Social Media	Twitter	Partial	Not As Expected	Not As Expected	Partial	Partial	Not As Expected	Not As Expected
Data	LinkedIn	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected
	Instagram	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected
	Bookmarks	As Expected	Not As Expected	Not As Expected	As Expected	NA	Not As Expected	Not As Expected
Internet Data	History	As Expected	Not As Expected	Not As Expected	As Expected	NA	Not As Expected	Not As Expected
	Email	Not As Expected	Not As Expected	Not As Expected	Not As Expected	NA	Not As Expected	Not As Expected
GPS Data	Coordinates/ Geo-tagged	Not As Expected	Not As Expected	Not As Expected	Not As Expected	NA	Not As Expected	Not As Expected
Non-Latin Character	Reported in native format	As Expected	As Expected	As Expected	As Expected	NA	As Expected	As Expected
Hashing	Case File/ Individual Files	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected
Case File Data Protection	Modify Case Data	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected	As Expected

Table 4: Android Mobile Devices

4.2 iOS Mobile Devices

The internal memory contents for iOS devices were acquired and analyzed with Device Seizure v7.4.

All test cases pertaining to the acquisition of supported iOS devices were successful with the exception of the following across all iOS devices.

- Address book contacts containing an associated graphic are not reported or viewable within the associated contact entry or within the address book images for all iOS devices.
- Audio/music files are not reported for all iOS devices.
- Documents (txt, pdf files) are not reported for all iOS devices.
- Email related data is not reported for all iOS devices.

 Social media related data – Facebook, Twitter, Instagram (e.g., profile information, status updates, pictures, video, and personal messages) are not reported for all iOS devices.

NOTES:

- Metadata (i.e., street, city, state) for address book entries are not reported in the parsed data / Contacts. The data can be found within Addressbook.sqlite.
- The phone number for associated recovered contact entries is not reported.

See Table 5 below for more details.

Device Seizure v7.4							
		Mobile Device Platform: iOS					
Test Cases – Internal Memory Acquisition		iPhone 6	iPhone 6S	iPhone 6S Plus	iPad Mini	iPad Pro	
Acquisition	Acquire All	As Expected	As Expected	As Expected	As Expected	As Expected	
ricquisition	Disrupted	As Expected	As Expected	As Expected	As Expected	As Expected	
Reporting	Preview-Pane	As Expected	As Expected	As Expected	As Expected	As Expected	
Keporting	Generated Reports	As Expected	As Expected	As Expected	As Expected	As Expected	
	IMEI	As Expected	As Expected	Not As Expected	Not As Expected	Not As Expected	
Equipment/ User Data	MEID/ESN	NA	NA	NA	NA	NA	
User Data	MSISDN	As Expected	As Expected	As Expected	As Expected	As Expected	
	Contacts	Partial	Partial	Partial	Partial	Partial	
PIM Data	Calendar	As Expected	As Expected	As Expected	As Expected	As Expected	
	Memos/Notes	As Expected	As Expected	As Expected	As Expected	As Expected	
	Incoming	As Expected	As Expected	As Expected	NA	NA	
Call Logs	Outgoing	As Expected	As Expected	As Expected	NA	NA	
	Missed	As Expected	As Expected	As Expected	NA	NA	
SMS	Incoming	As Expected	As Expected	As Expected	As Expected	As Expected	
Messages	Outgoing	As Expected	As Expected	As Expected	As Expected	As Expected	
	Graphic	As Expected	As Expected	As Expected	As Expected	As Expected	
MMS Messages	Audio	As Expected	As Expected	As Expected	As Expected	As Expected	
0	Video	As Expected	As Expected	As Expected	As Expected	As Expected	
	Graphic	As Expected	As Expected	As Expected	As Expected	As Expected	
Stand-alone Files	Audio	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	
	Video	As Expected	As Expected	As Expected	As Expected	As Expected	
Application Data	Documents (txt, pdf files)	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	
	Facebook	Not As Expected	Not As Expected	Not As Expected	Not As Expected	Not As Expected	

Device Seizure v7.4							
			Mobile L	Pevice Platf	orm: iOS		
Test Cases – Internal Memory Acquisition		iPhone 6	iPhone 6S	iPhone 6S Plus	iPad Mini	iPad Pro	
	Twitter	Not As Expected					
Social Media Data	LinkedIn	As Expected	As Expected	As Expected	As Expected	As Expected	
	Instagram	Not As Expected					
	Bookmarks	As Expected	As Expected	Not As Expected	As Expected	As Expected	
Internet Data	History	As Expected	As Expected	Not As Expected	As Expected	As Expected	
	Email	Not As Expected					
GPS Data	Coordinates/ Geo-tagged	As Expected	As Expected	Not As Expected	As Expected	As Expected	
Non-Latin Character	Reported in native format	As Expected	As Expected	As Expected	As Expected	As Expected	
Hashing	Case File/ Individual Files	As Expected	As Expected	As Expected	As Expected	As Expected	
Case File Data Protection	Modify Case Data	As Expected	As Expected	As Expected	As Expected	As Expected	

Table 5: iOS Mobile Devices

4.3 Windows / Feature Phones

The internal memory contents for the feature phone was acquired and analyzed with Device Seizure v7.4.

All test cases pertaining to the acquisition of supported mobile devices were successful with the exception of the following.

- Connectivity to the LG Extravert was not established.
- Subscriber related data (i.e., MSISDN, IMEI/IMSI) was not reported for the HTC
 Win 8x
- The only data elements acquired for the HTC Win 8x were stand-alone graphic, audio and video files. All other data elements listed below in Table 6 were not reported.
- Address book contacts containing an associated graphic or additional metadata (i.e., address, website, email) are not reported for the Samsung Rugby III.
- Memos, incoming SMS messages, MMS messages, Internet and GPS related data are not reported for the Samsung Rugby III.

Device Seizure v7.4					
		Mobile Device Platform: Windows, Feature phones			
	s – Internal Acquisition	HTC Win 8x	Samsung Rugby 3	LG Extravert	
	Acquire All	As Expected	As Expected	Not As Expected	
Acquisition	Disrupted	As Expected	As Expected	NA	
D 4	Preview-Pane	As Expected	As Expected	NA	
Reporting	Generated Reports	As Expected	As Expected	NA	
	IMEI/IMSI	Not As Expected	As Expected	NA	
Equipment/ User Data	MEID/ESN	NA	NA	NA	
	MSISDN	Not As Expected	As Expected	NA	
	Contacts	Not As Expected	Partial	NA	
PIM Data	Calendar	Not As Expected	As Expected	NA	
	Memos/Notes	Not As Expected	Not As Expected	NA	
	Incoming	Not As Expected	As Expected	NA	
Call Logs	Outgoing	Not As Expected	As Expected	NA	
	Missed	Not As Expected	As Expected	NA	
SMS	Incoming	Not As Expected	Not As Expected	NA	
Messages	Outgoing	Not As Expected	As Expected	NA	
	Graphic	Not As Expected	Not As Expected	NA	
MMS Messages	Audio	Not As Expected	Not As Expected	NA	
	Video	Not As Expected	Not As Expected	NA	
	Graphic	As Expected	As Expected	NA	

Device Seizure v7.4						
			Mobile Device Platform: Windows, Feature phones			
	– Internal Acquisition	HTC Win 8x	Samsung Rugby 3	LG Extravert		
Stand-alone	Audio	As Expected	As Expected	NA		
Files	Video	As Expected	As Expected	NA		
Application Data	Documents (txt, pdf files)	Not As Expected	As Expected	NA		
	Facebook	Not As Expected	NA	NA		
Social Media	Twitter	Not As Expected	NA	NA		
Data	LinkedIn	Not As Expected	NA	NA		
	Instagram	Not As Expected	NA	NA		
	Bookmarks	Not As Expected	Not As Expected	NA		
Internet Data	History	Not As Expected	Not As Expected	NA		
	Email	Not As Expected	Not As Expected	NA		
GPS Data	Coordinates/ Geo-tagged	Not As Expected	Not As Expected	NA		
Non-Latin Character	Reported in native format	NA	As Expected	NA		
Hashing	Case File/ Individual Files	As Expected	As Expected	NA		
Case File Data Protection	Modify Case Data	As Expected	As Expected	NA		

Table 6: Feature Phones

4.4 Universal Integrated Circuit Cards (UICCs)

The internal memory contents for Universal Integrated Circuit Cards (UICCs) were acquired and analyzed with Device Seizure v7.4.

All test cases pertaining to the acquisition of UICCs were successful.

See Table 7 below for more details.

Device Seizure v7.4					
Test Cases – l	Test Cases – UICC Acquisition				
Connectivity	Non Disrupted	As Expected			
Connectivity	Disrupted	As Expected			
	Service Provider Name (SPN)	As Expected			
Equipment/	ICCID	As Expected			
User Data	IMSI	As Expected			
	MSISDN	As Expected			
	Abbreviated Dialing Numbers (ADNs)	As Expected			
PIM Data	Last Numbers Dialed (LNDs)	As Expected			
	SMS Messages	As Expected			
	EMS Messages	As Expected			
Location Related	LOCI	As Expected			
Data	GPRSLOCI	As Expected			
	Acquire All	As Expected			
Acquisition	Selected All	As Expected			
	Select Individual	As Expected			
Case File Data Protection	Modify Case Data	Partial			
Password Protected SIM Acquire	Acquisition of Protected SIM	As Expected			
PIN/PUK	PIN attempts reported	As Expected			
Attempts	PUK attempts reported	As Expected			
Non-ASCII Character	Non-ASCII characters	As Expected			
Hashing	Hashes reported for acquired data objects	As Expected			

Table 7: Universal Integrated Circuit Cards