

Final Exam
Kailey Cozart

Board before Chip-off



Chip Research: 828 Programmer Software

The screenshot shows the UP-828 Ultra Programmer (V1.1.8.52 #2/7/2015) interface. The 'Select Device' dialog is open, displaying a list of devices for 'SANDISK SDIN5C1-16G'. The 'Device Info' section on the left provides detailed specifications for the selected device.

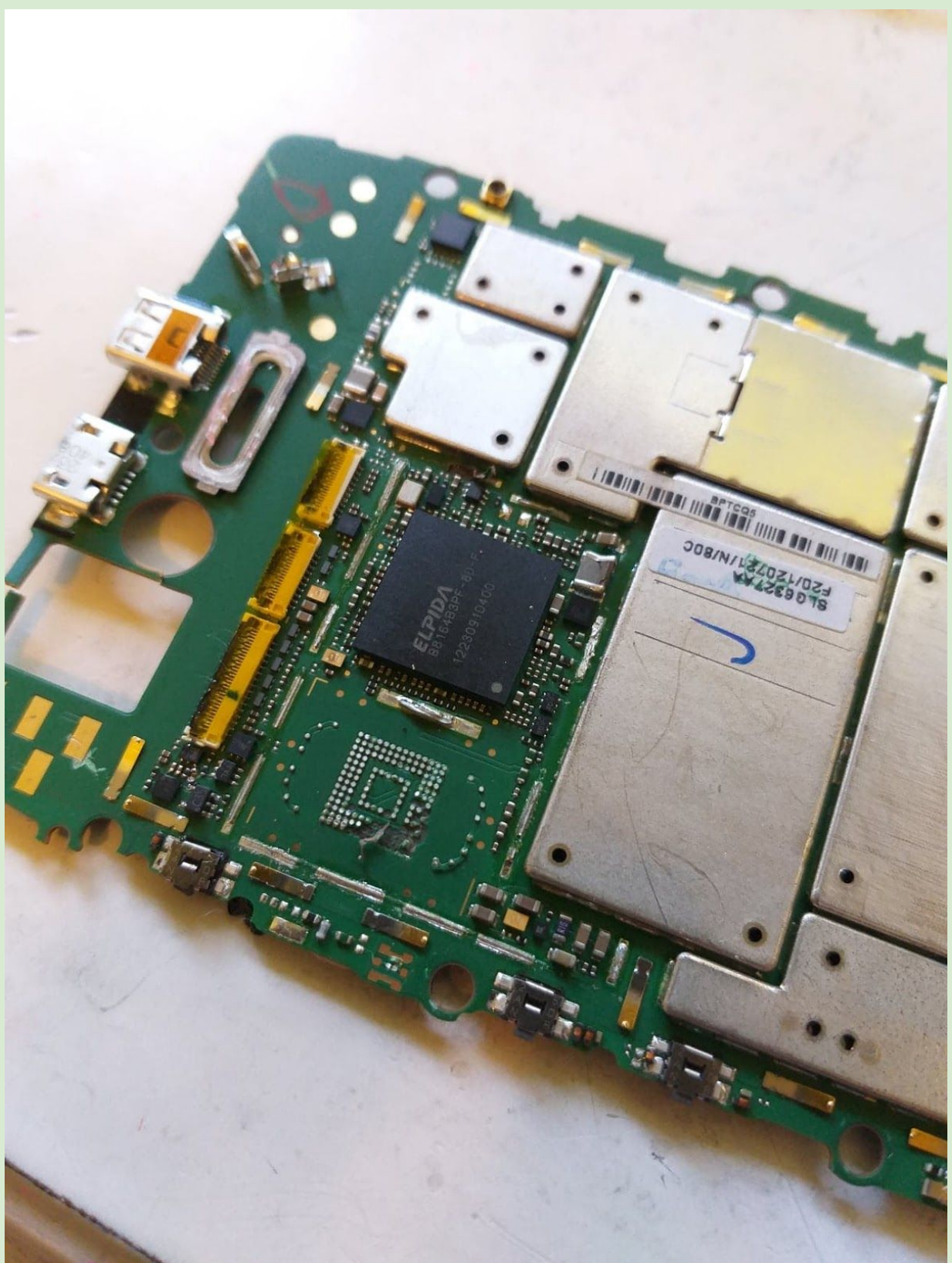
Device Info:

- Type: EMMC
- Manufacturer: SanDisk
- Part Number: iNAND_SDIN2C:
- Package: FBGA169-0.50
- Adapter: VBGA169E
 - Order No. U05691
 - Order No. U05692
 - Order No. U05532
- Device ID
 - Manu. ID(NAND): 45h
 - Device ID(NAND): 53454D:
- Organization
 - NAND: EE600000h x8bit
- Voltage

Select Device Dialog:

Manufacturer	Part Number	Package	Adapter
SanDisk	iNAND_SDIN5C1-16G	FBGA169-0.50	VBGA169E
	iNAND_SDIN5C1-16G(DDR)	FBGA169-0.50	VBGA169E
	iNAND_SDIN5C1-16G_X4	FBGA169-0.50	VBGA169EX4

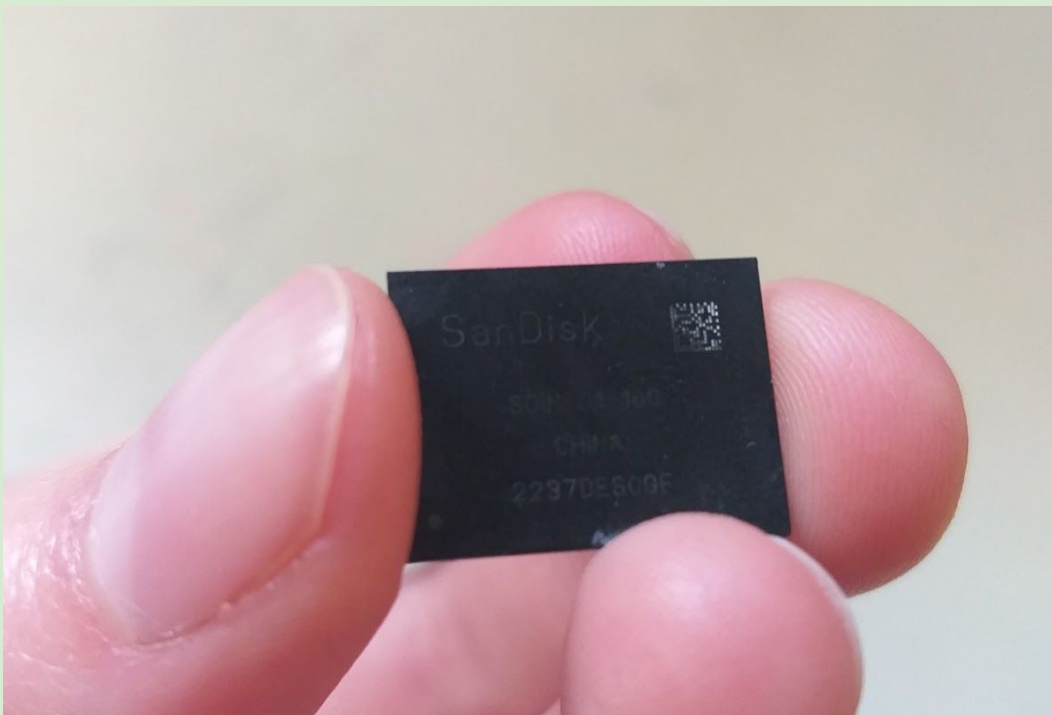
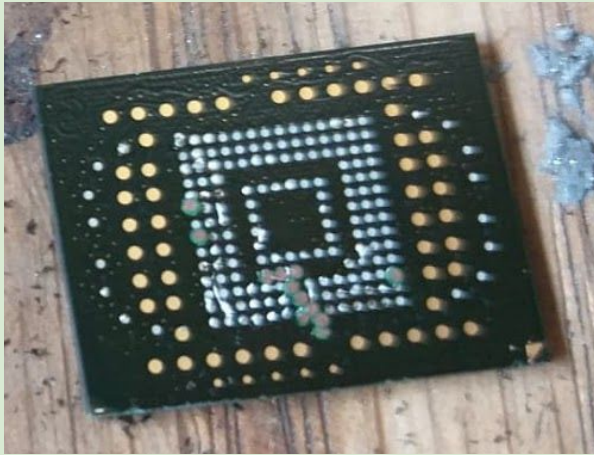
Board after Chip-off



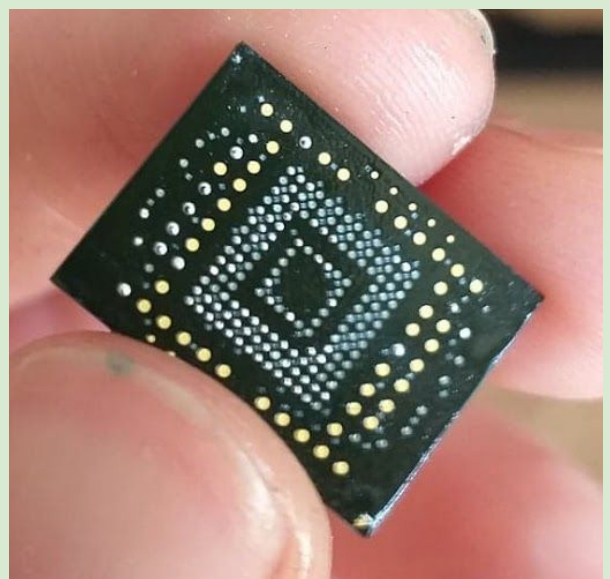
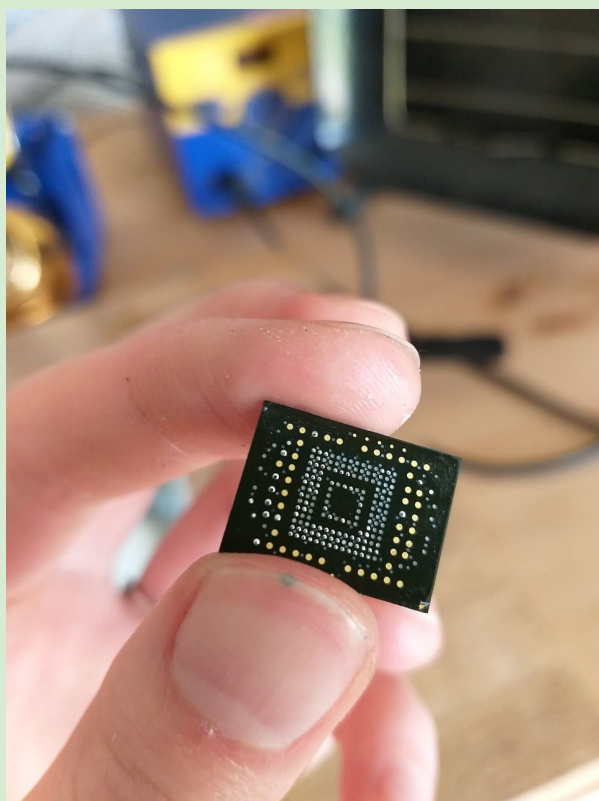
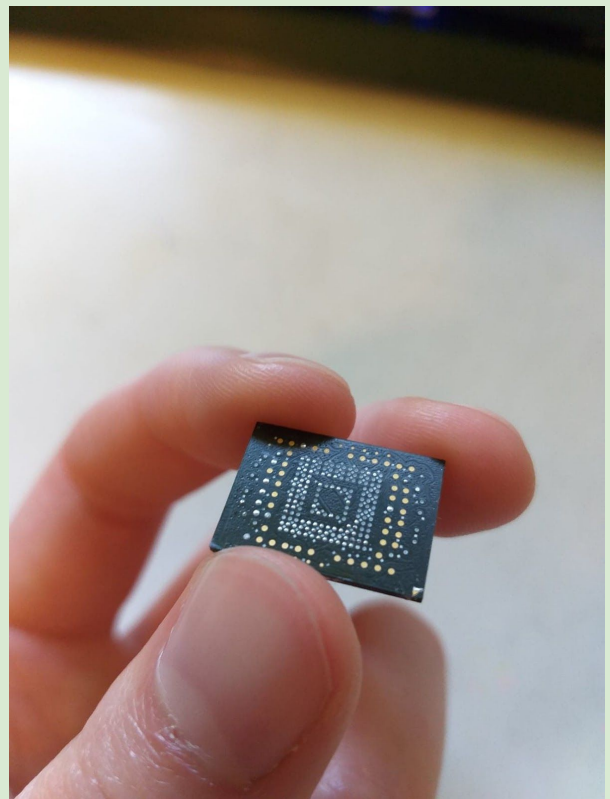
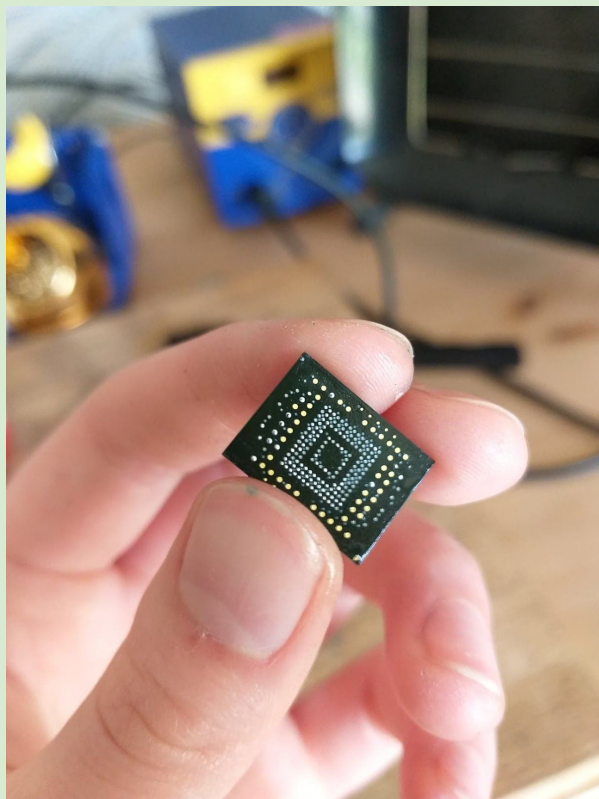
Chip before Cleaning

(Catastrophic Heat Failure of First Chip on Right)

(Good Second Chip on Left)



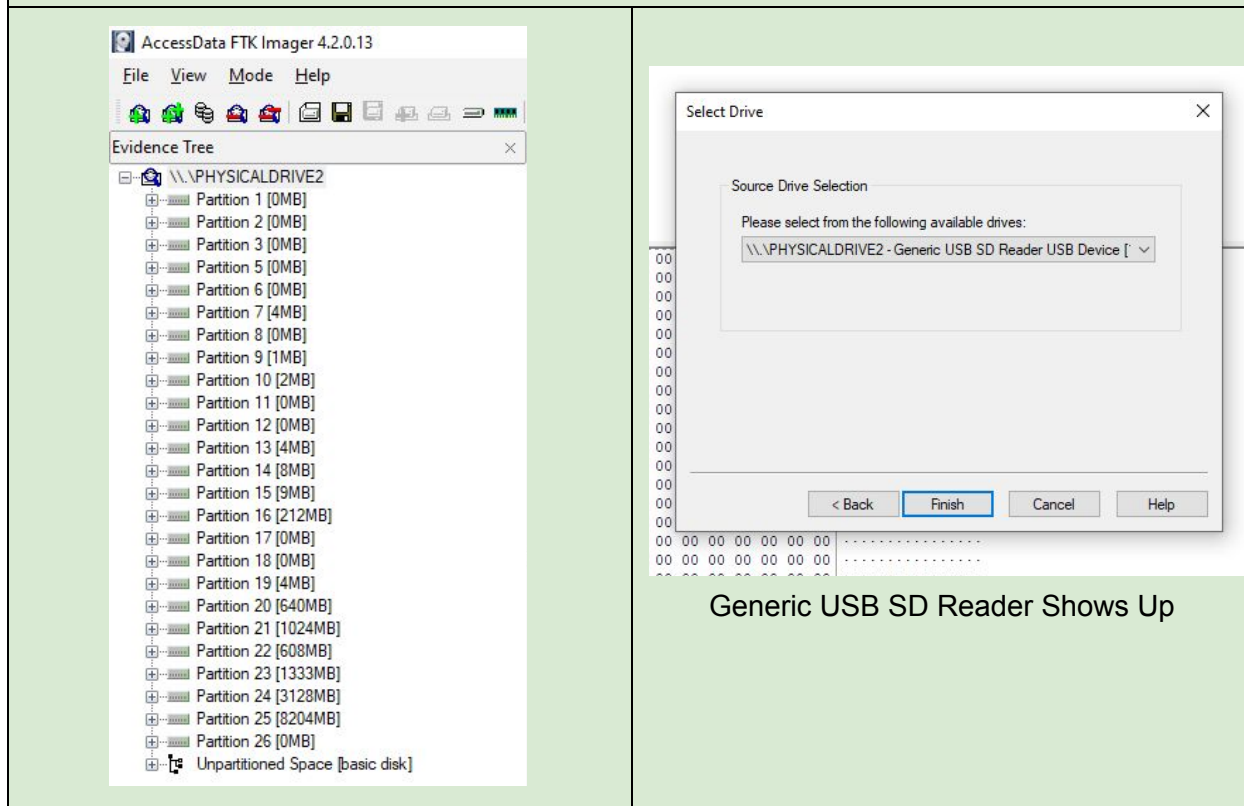
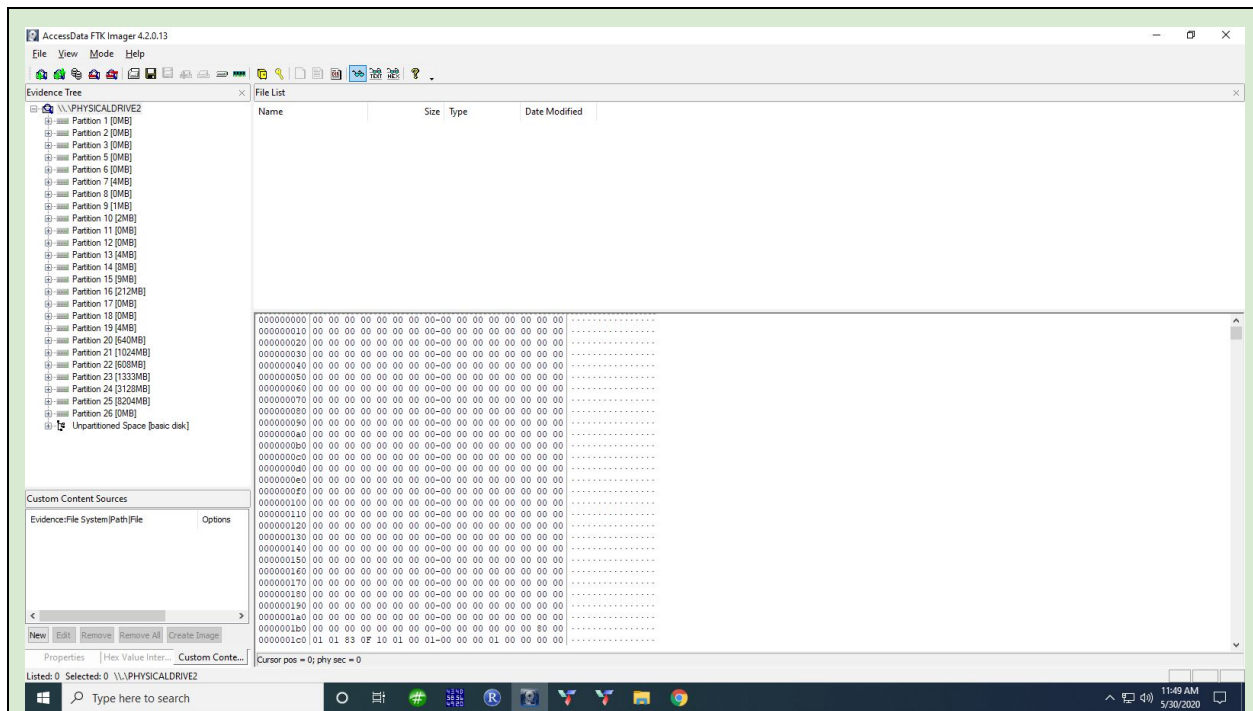
Chip after Cleaning



Chip in Reader & Reader Plugged in and Lit Up

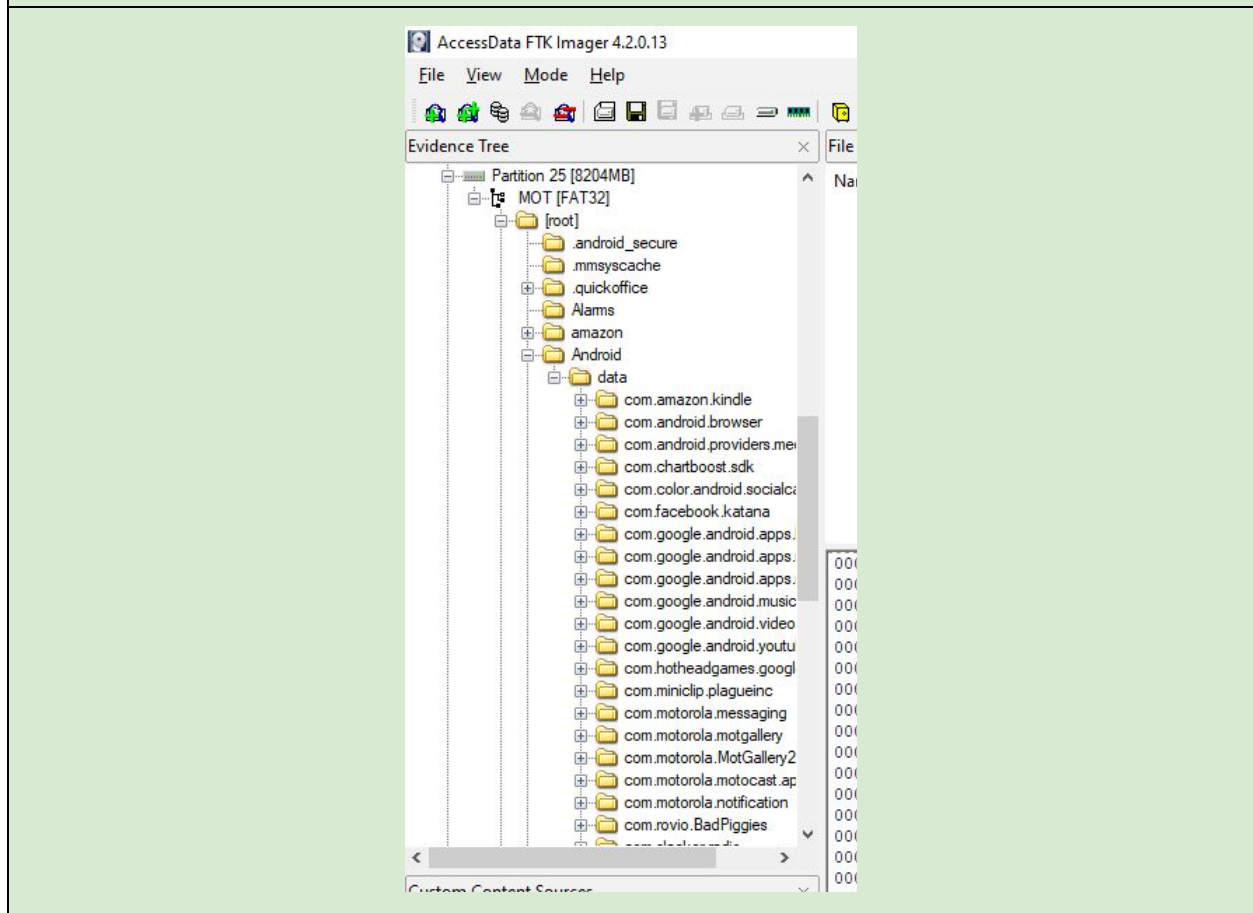
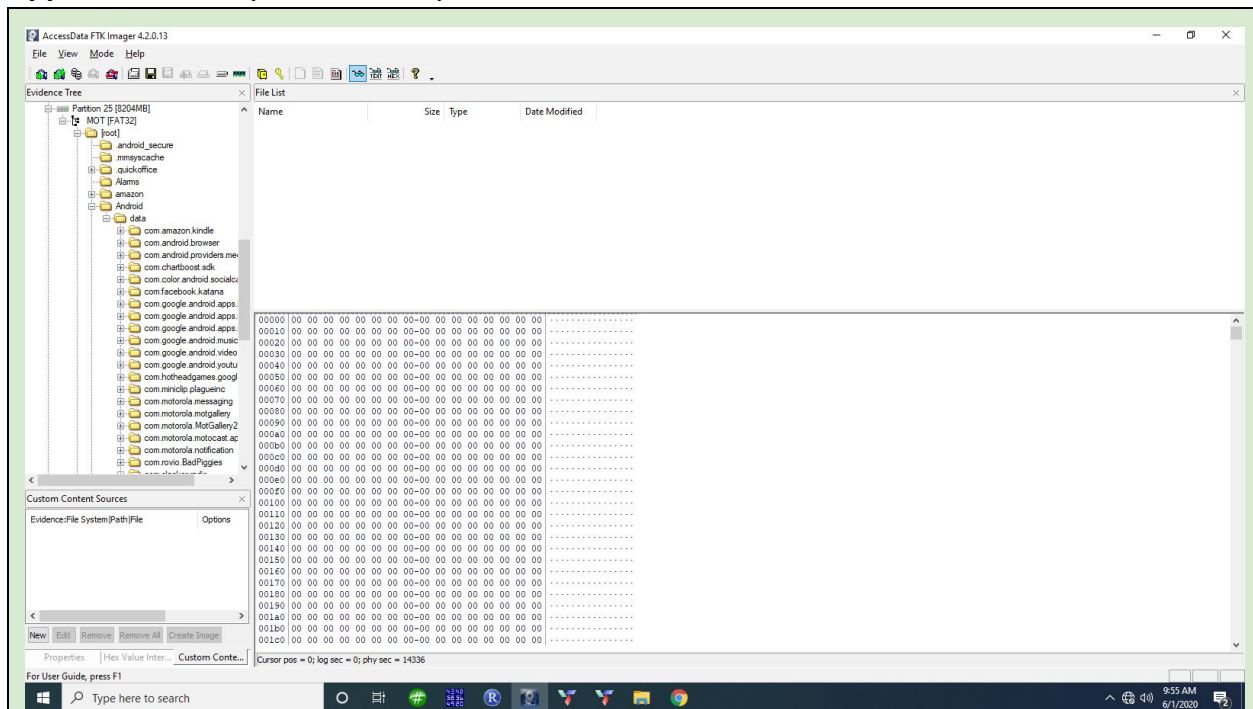


Overall Partition Structure

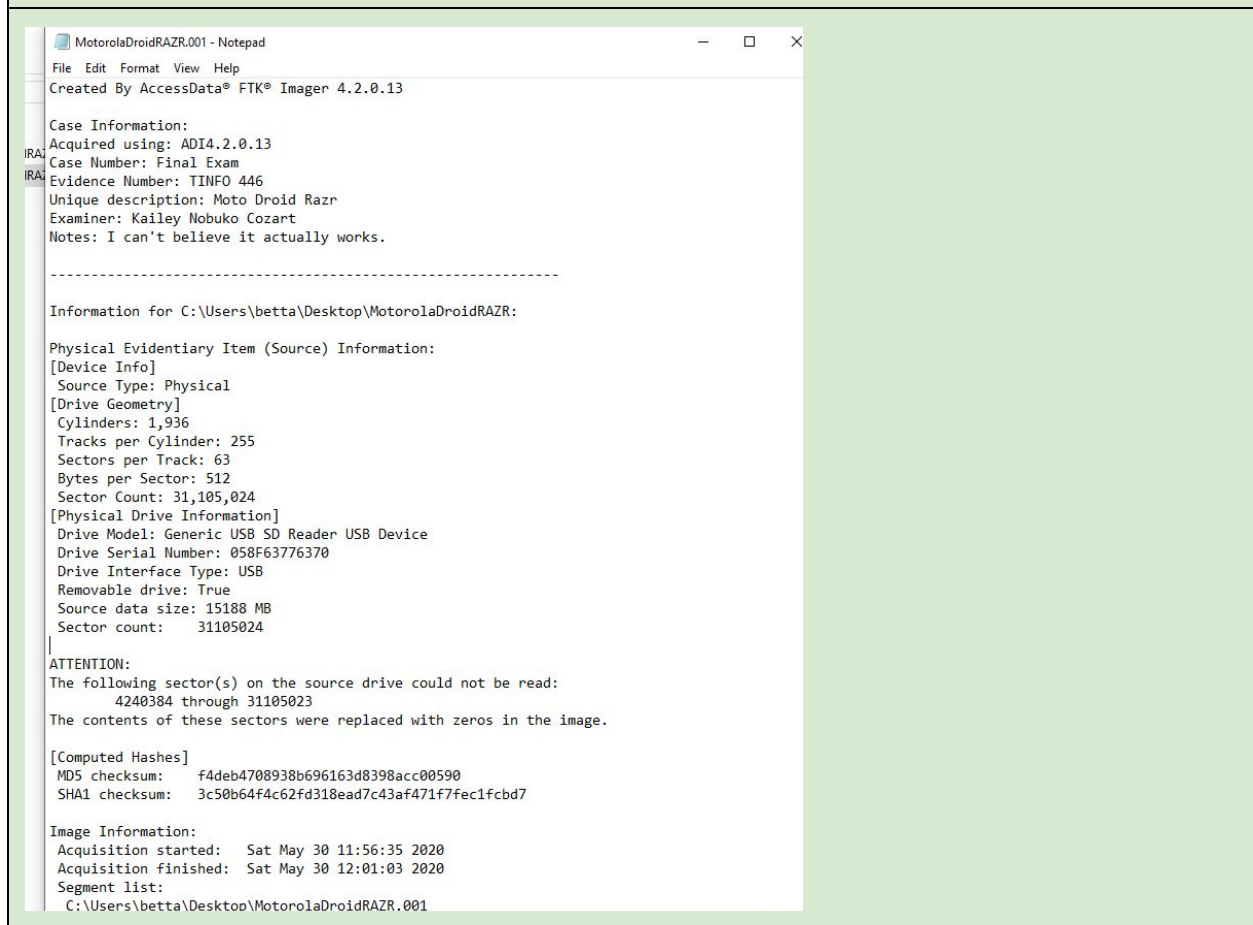
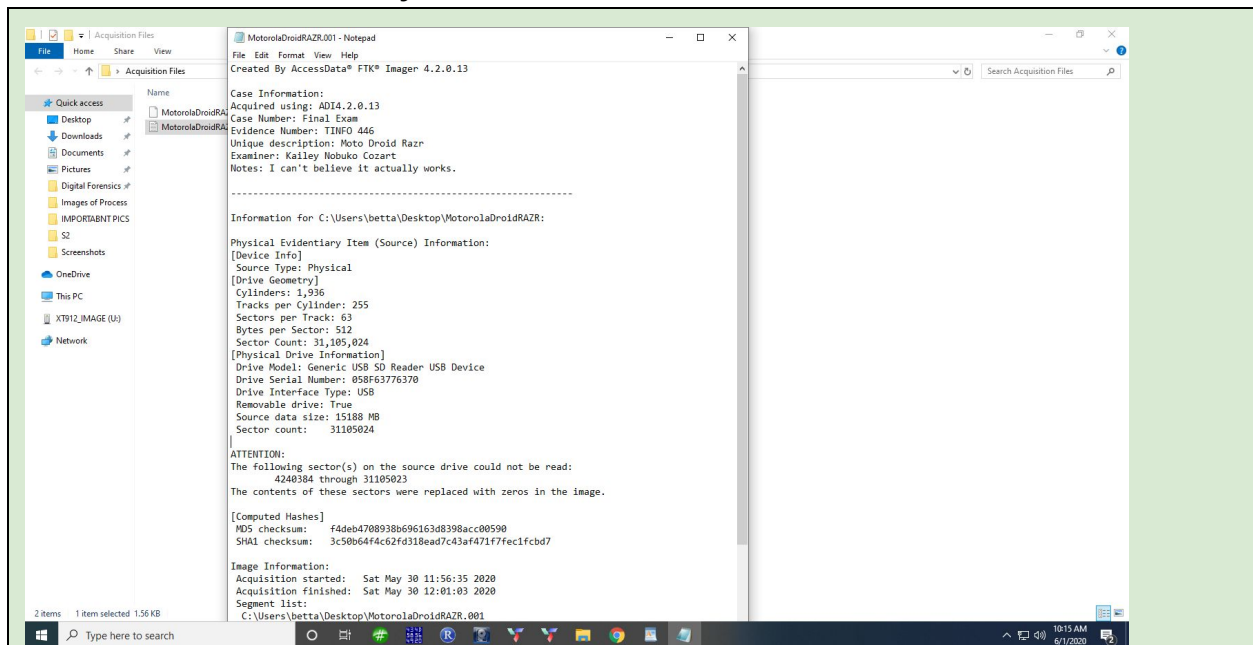


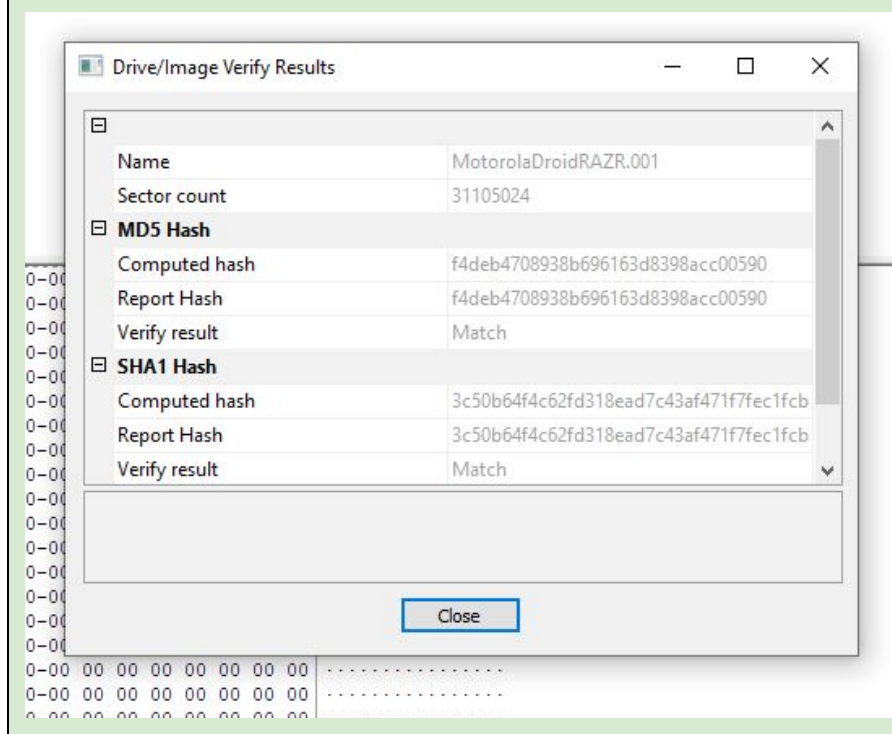
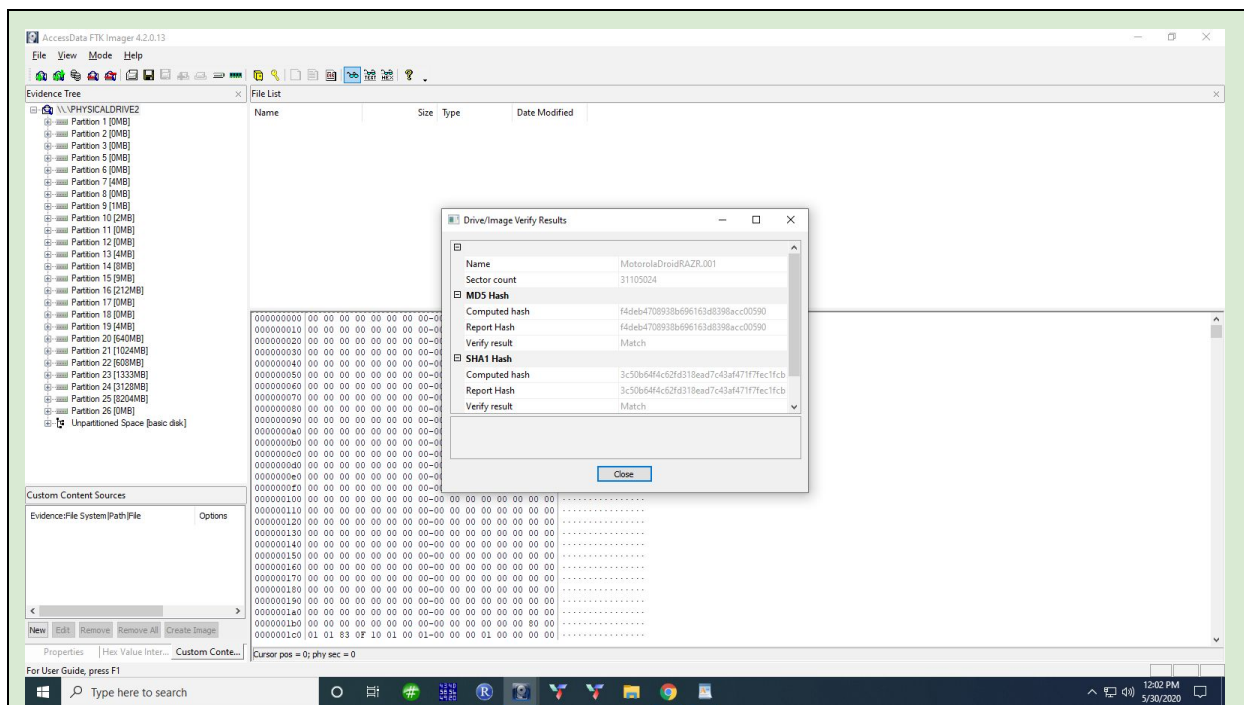
Generic USB SD Reader Shows Up

App Data Visible (Root Folders)



Read Finished with Summary & Hash





Sources I Used

1. <https://www.ifixit.com/Teardown/Motorola+Droid+RAZR+Teardown/7048>
2. Phonescoop & FCC website for Motorola Droid Razr