

# FORENSIC ANALYSIS REPORT

## Distracted Driving Investigation

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*This report contains analysis of digital evidence for forensic purposes. All data has been analyzed using validated forensic techniques and tools. Conclusions are based on available digital evidence and should be considered within the context of the complete investigation.*

# EXECUTIVE SUMMARY

## Key Findings:

- \* Total digital events analyzed: 1871
- \* High-priority phone interactions: 120
- \* Phone usage while driving detected: 34 instances
- \* Maximum recorded speed: 81.4 mph

## Analysis Methodology:

- \* Digital evidence extracted from mobile device using Cellebrite forensic tools
- \* Timeline analysis of phone usage events correlated with location data
- \* Movement pattern analysis using GPS tracking data
- \* App usage session duration analysis from system logs
- \* Forensic priority classification based on interaction type and timing

# EVENT ANALYSIS

## Event Priority Distribution

Total Events Analyzed: 1871  
High Priority (Active Use): 120  
Medium Priority (Notifications): 86  
Low Priority (Background): 1665

## Most Frequently Used Apps

Network: 1055 events  
Unknown: 276 events  
System: 267 events  
Maps: 123 events  
Notifications: 86 events  
Messages: 42 events  
Spotify: 22 events

# MOVEMENT ANALYSIS

Total Location Points: 1823

Average Speed: 35.7 mph

Maximum Speed: 81.4 mph

Median Speed: 19.0 mph

## Speed Distribution

Stationary (< 3.0 mph): 792 points

Slow Driving (3.0-35.0 mph): 157 points

Fast Driving (> 35.0 mph): 874 points

## Phone Usage While Driving

Instances of phone use while driving: 34

12:42:34 - Unknown at 71.8 mph

12:45:12 - Unknown at 63.6 mph

12:58:11 - Spotify at 50.6 mph

12:58:34 - Spotify at 72.4 mph

13:01:24 - Spotify at 71.2 mph

## CONCLUSIONS AND FINDINGS

- \* Analysis identified 120 high-priority phone interactions indicating active device usage during the analyzed timeframe.
- \* Evidence shows 34 instances of phone usage while the vehicle was in motion above driving threshold speed.
- \* Vehicle movement analysis shows maximum speed of 81.4 mph with average speed of 35.7 mph during the analyzed period.
- \* The digital evidence analysis provides objective data regarding phone usage patterns and vehicle movement that can be correlated with the incident timeline for forensic investigation purposes.

### Technical Notes

- \* Data was extracted using Cellebrite forensic tools and validated for integrity.
- \* Timeline analysis correlates phone usage events with location and movement data.
- \* Speed calculations use GPS coordinates and may be affected by GPS accuracy.
- \* App usage sessions are identified from system start/end time annotations.
- \* Priority classifications are based on forensic significance and user interaction level.