Case Report

National Gallery DC

### Tracy’s iPhone [2012-07-15-National-Gallery]

Jaseong Koo

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# Executive Summary

On January 21, 2016, Digitech Inc. was called in to assist the National Gallery, Washington D.C. (NGDC) case involving the conspiracy associated with the theft of valuable stamps and defacing of museums are at the NGDC.

* Tracy is a suspect in the aforementioned conspiracy.
* As part of the investigation, Tracy’s iPhone was taken into custody.
* Digitech, Inc. was tasked with investigating evidence relevant to the aforementioned conspiracy.

As described fully in the report, Digitech, Inc. made the following findings.

Based on the evidence listed in this report, it shows that Tracy and her brother Pat planned to steal stamps from the National Gallery. There was an unknown third party: “King kthings” <throne1966@hotmail.com> involvement detected.

### Equipment and Tools

* Autopsy, an open-source forensics tool, was used on Kali Linux to analyze the image of Tracy’s iPhone.
* Other websites were used, such as, maps.google.com for location tracking.

# Details of Tracy’s iPhone

| **Name** | **Findings** | **Location in iPhone image file** |
| --- | --- | --- |
| Model | iPhone 1,2 | vol5/logs/AppleSupport/general.log |
| Host Name | Tracy-Sumtwelves-iPhone | vol5/mobile/preferences/SystemConfiguration |
| OS Version | iPhone OS 4.2.1 (8C148) | vol5/logs/AppleSupport/general.log |
| Install Time | 6/6/2012 12:03:28 -0700 | vol5/logs/AppleSupport/general.log |
| User Email | IMAP: [tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com)  POP: coralbluetwo@hotmail.com | vol5/mobile/Library/Mail/EnvelopeIndex |
| Phone Number | +1 703 340 9661 | vol5/logs/lockdownd.log.1 |
| Serial Number | 86004482Y7H | vol5/logs/AppleSupport/general.log |
| ICCID | 89014103255195342366 | vol5/logs/lockdownd.log.1 |
| IMEI | 012021003735398 | vol5/root/Library/Lockdown/activation\_records/wildcard\_record.plist |
| MD5 Hash | 34c4888f095dc3241330462923f6fea5 | N/A |
| SHA256 Hash | 71aed05a86a753dec4ef4033ed7f52d6577ccb534ca0d1e83ffd27683e621607 | N/A |

# Evidence to Establish Personas

This section establishes aliases, phone numbers, emails addresses associated with each person, and relationships between each individual.

Tracy:

Phone Number: (703) 340-9961

Personal Email: tracysumtwelve@gmail.com

Work Email: tracy.sumtwelve@nationalgallerydc.org

Relationship: Accused

Pat:

Phone Number: (571) 308-3236

Email: [perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com) / [patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)

Relationship: Tracy’s brother

Terry:

Phone Number: (703) 829-6071

Email: N/A

Relationship: Tracy and Joe’s daughter

Joe:

Phone Number: N/A

Email: N/A

Relationship: Tracy’s ex-husband

Carry:

Phone Number: (202) 725-2124

Email: N/A

Relationship: Tracy’s friend

* From the evidence found to establish personas, there was a distinctive connection among Tracy, Pat, Carry, and the unknown “King” in the conspiracy. Tracy seemed to be going through a financial hardship based on the conversation between her and Terry, who is Tracy’s daughter. Therefore, the other Krasnovia supporters are attracting Tracy into the museum heist plan.

# Evidence relating to theft of valuable stamps

This sub-section provides details regarding the evidence found as it relates to the theft of valuable stamps.

There were numerous emails and SMS messages conspiring a heist on the museum. Tracy, Pat, Carry and unknown “King kthings” were involved in the conversation.

* Below email from “King kthings <[throne1966@hotmail.com](mailto:throne1966@hotmail.com)>” contained the attachment.

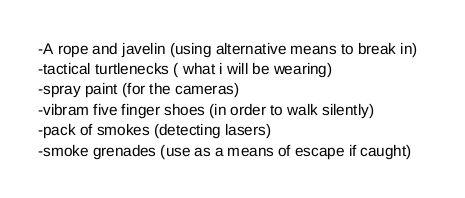


Figure.1 - Email attachment ‘needs.txt’

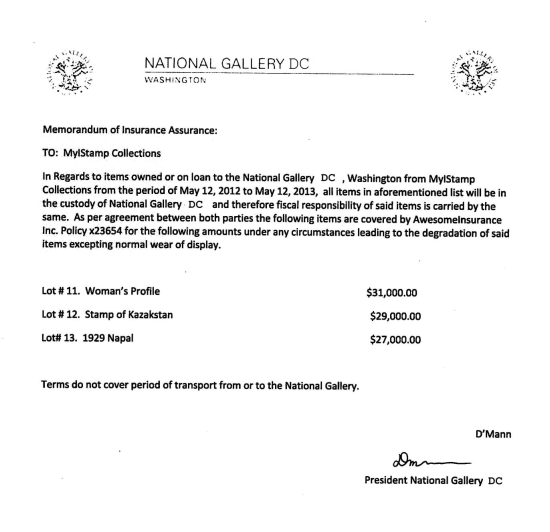
* There was an MP3 audio file (Crazydave1.mp3) which contained an instruction on how to install a VM, which was a tool for the theft.
* Tracy received a spam-like message stating that she has won a <FREE $1,000 Target Giftcard! Enter “”703”” at [www.target.com.trdt.biz](http://www.target.com.trdt.biz) to tell us where to ship it>. The URL is considered fake because the subdomain is trdt.biz which is not related to Target Corp. It is presumed to be the payment from Alex. However, there is no physical proof.
* There were 3 .pdf email attachments which were insurances of valuable stamps listed below.

Figure.2 - Stamp\_insurance1.pdf

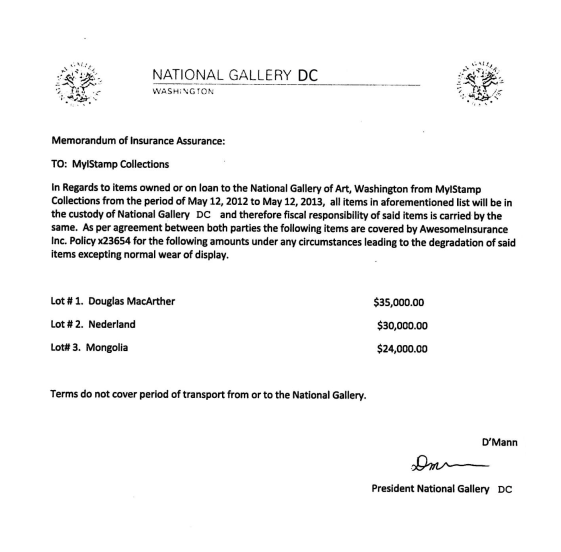


Figure.3 - Stamp\_insurance2.pdf

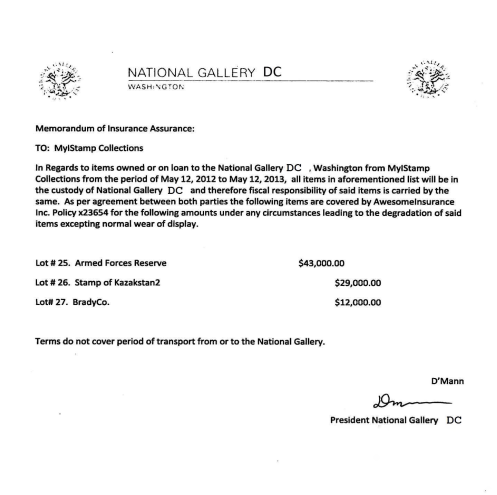


Figure.4 - Stamp\_insurance3.pdf

# Plot Timeline

| **Time** | **Events** |
| --- | --- |
| 06/19/2012 @14:38 | Tracy received an email from Pat with an MP3 audio attachment that contains instructions on how to install a VM on her computer for “later use”. |
| 07/05/2012 @18:18 | On SMS, Tracy and Carry decided to meet up at Bubba’s. |
| 07/06/2012 @11:49 | Pat recruited “King([throne1966@hotmail.com](mailto:throne1966@hotmail.com))” via “can’t pass up” email and Tracy was on CC. |
| 07/06/2012 @16:27 | On SMS, Tracy confirmed the meeting at Bubba’s. |
| 07/07/2012 @19:36 | On SMS, Tracy received a spam-like message stating that she has won a <FREE $1,000 Target Giftcard! Enter “”703”” at [www.target.com.trdt.biz](http://www.target.com.trdt.biz) to tell us where to ship it>. The URL is considered fake because the subdomain is trdt.biz which is not related to Target Corp. It is presumed to be the payment from Alex. However, there is no physical proof. |
| 07/09/2012 @10:44 | Tracy sends an email to herself with the information of target stamps and how much the insurance they have on. |
| 07/09/2012 @10:44 | “King” emailed Pat a list of things that “King” will need for the operation in the <needs.txt> file. |
| 07/10/2012 @11:24 | Pat forwarded the list <needs.txt> to Tracy. |
| 07/11/2012 @12:41 | On SMS, Carry texts Tracy to deliver a tablet to her. |
| 07/12/2012 @17:06 | On SMS, Tracy asks Carry how the flashmob is going. |

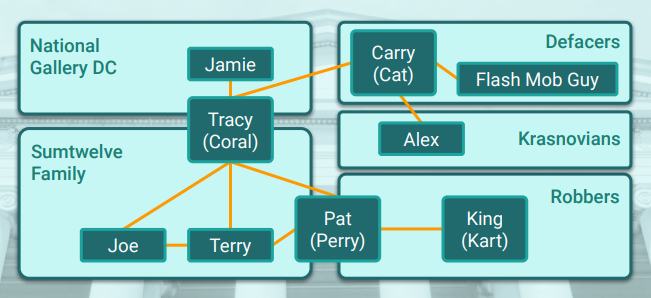


Figure.5 - Persons under Investigation

# Conclusion

Evidence found on Tracy’s iPhone indicated the following:

* At first, Pat and Tracy planned the heist via emails. Pat had two accounts in use: <[patsumtwelve@gmail.com](mailto:patsumtwelve@gmail.com)> and <[perrypatsum@yahoo.com](mailto:perrypatsum@yahoo.com): normal use>. Also, Tracy had two accounts: <[coralbluetwo@hotmail.com](mailto:coralbluetwo@hotmail.com)> and <[tracysumtwelve@gmail.com](mailto:tracysumtwelve@gmail.com): normal use>.
* Pat recruited “King” <[throne1966@hotmail.com](mailto:throne1966@hotmail.com)> to a heist of valuable stamps. Pat knows the parole officer of King and made a threat to lure “King” into the scene.
* Carry organized a flash mob with Tracy to distract the security of the museum when “King” is on the heist.
* Tracy sends an email to herself of the documents stating what stamps to steal and how much they are insured for.
* Tracy receives a spam-like SMS, ‘$1,000 Gift Card’, from <[www.target.com.trdt.biz](http://www.target.com.trdt.biz)> which appears to be a faked URL. This is presumably from Alex or Carry via Alex. The URL is not available now.
* There is WiFi and Cell location information, however it does not show a clear significance.

# Appendix A: Correspondence Evidence

This subsection will provide an amalgamation of the email and SMS corresponce evidence.

### 

| Master Timeline of NGDC | | | | |
| --- | --- | --- | --- | --- |
| Artifact # | Timestamp | Header Information | Key Information | Evidence Location |
| 1 | 6/12/2012  21:25:04 | SMS from Pat | “What are you up to this weekend?” | /vol5/mobile/Library/SMS/sms.db |
| 2 | 06/13/2012  16:29:13 | Call to Pat | N/A | /vol5/wireless/Library/CallHistory/call\_history.db |
| 3 | 06/13/2012  18:30:38 | SMS to Pat | “I don’t have any big plans. How about you?” | /vol5/mobile/Library/SMS/sms.db |
| 4 | 06/19/2012 21:38:59 | F: perrypatsum@yahoo.com  T: coralbluetwo@hotmail.com  Subject: Crazydave by the VMs Attachment: Crazydave1.mp3 | “Hey Coral, Just got your email. That took longer than expected! Oh well! You’ve got to check out this new song by the VMs. I love the base. Tell me what to think!”  A mp3 file was attached which instructed how to install the VM. | vol5/mobile/Library/Mail/POP-coralbluetwo@hotmail.com/pop3.live.com/INBOX.mbox/Messages/3896FC6F-A083-4D38-B0A2-CE68368D44CA.emlx |
| 5 | 07/03/2012  13:41:51 | SMS to Terry | “Hey honey. I’m not sure if we can afford Prufrock anymore… What do you think about maybe switching to someplace else?” | /vol5/mobile/Library/SMS/sms.db |
| 6 | 07/03/2012  14:04:32 | SMS from Terry | “Moving schools at this point would be the worst! I would rather live with dad and stay at prufrock then change schools :(“ | /vol5/mobile/Library/SMS/sms.db |
| 7 | 07/05/2012  18:18:23 | SMS from Carry | “Sounds good let’s shoot for one at Bubba’s grill” | /vol5/mobile/Library/SMS/sms.db |
| 8 | 07/05/2012  18:20:26 | SMS to Carry | “Okay that sounds great. See you there” | /vol5/mobile/Library/SMS/sms.db |
| 9 | 07/05/2012  12:58:41 | F: Woina.Honril@m57.biz  T: coralbluetwo@hotmail.com  Subject: Busy | “I didn’t”  Attachments: Official government document from FCC and USDA   1. 000002.doc | vol5/mobile/Library/Mail/POP-coralbluetwo@hotmail.com/pop3.live.com/INBOX.mbox/Messages/F3F4EB95-52EB-42FC-9279-46DAB24B6E34.emlx |
| 10 | 07/06/2012  11:49:31 | F: joe.sum.twelve@gmail.com  T: throne1966@hotmail.com  Cc: coralbluetwo@hotmail.com  Subject: can’t pass up | King,  Long time no see. I have a juicy proposition for you. Two weeks from now, me and my associates are planning a heist at the national gallery. Although, we need a helping hand. I know that you are on parole right now and are probably hesitant to participate. Me and your parole officer go years back. He is a very strict fellow. If he were to find out that you were dealing drugs and shooting dope in your veins everynight, I feel he wouldn’t be too happy. It’s very easy for a person to phone the feds an anonymous tip that you are on drugs and the location of your stash. All they have to do is give you a drugs test and since you’re on parole, the feds don’t need a search warrant. Well hit me up. You know where to find me. | vol5/mobile/Library/Mail/POP-coralbluetwo@hotmail.com/pop3.live.com/INBOX.mbox/Messages/9F0509B8-04FB-490E-A7F0-3E23B0E7C59B.emlx |
| 11 | 07/06/2012  15:02:19 | SMS to Pat | “Hey can you give me a call” | /vol5/mobile/Library/SMS/sms.db |
| 12 | 07/06/2012  15:08:37 | SMS from Pat | “Sis I’m really busy can we do this later” | /vol5/mobile/Library/SMS/sms.db |
| 13 | 07/06/2012  15:11:54 | SMS to Pat | “No pat this is important I need you to call me soon” | /vol5/mobile/Library/SMS/sms.db |
| 14 | 07/06/2012  15:13:31 | SMS from Pat | “Ok ok I’ll call in 5” | /vol5/mobile/Library/SMS/sms.db |
| 15 | 07/06/2012  15:13:31 | Call from Pat | N/A | /vol5/wireless/Library/CallHistory/call\_history.db |
| 16 | 07/06/2012 15:27:50 | SMS to Carry | “okay brt” | /vol5/mobile/Library/SMS/sms.db |
| 17 | 07/07/2012  19:36:35 | SMS from Unknown  206-910-0932 | “Congratulations, your entry in last months drawing won you a FREE $1,000 Target Giftcard! Enter “”703”” at [www.target.com.trdt.biz](http://www.target.com.trdt.biz) to tell us where to ship it.” | /vol5/mobile/Library/SMS/sms.db |
| 18 | 07/09/2012  10:44:11 | F: tracysumtwelve@gmail.com  T :coralbluetwo@hotmail.com  Subject: things | “somethings”  Attachment:  docs.zip: 3 pdf files describes ‘stamp insurance’  documents.zip: password protected file contained the same 3 pdf files. The password was ‘Hercules’ | vol5/mobile/Library/Mail/POP-coralbluetwo@hotmail.com/pop3.live.com/INBOX.mbox/Messages/8A3BD0-6F-CDB1-4453-9C69-77E06823F2AE.emlx |
| 19 | 07/10/2012  11:19 | F: throne1966@hotmail.com  T: patsumtwelve@gmail.com  Subject: RE: can’t pass up | “You’re too kind…I got you brotha. I need some tools in order to do this job for you. Here are some requirements that I will need:  See attachment”  Attachment: needs.txt(pdf)  -A rope and javelin (using alternative means to break in)  -tactical turtlenecks (what I will be wearing)  -spray paint (for the cameras)  -vibram five finger shoes (in order to walk silently)  -pack of smokes (detecting lasers)  -smoke grenades (use as a means of escape if caught) | vol5/mobile/Library/Mail/POP-coralbluetwo@hotmail.com/pop3.live.com/INBOX.mbox/Messages/9F0509B8-04FB-490E-A7F0-3E23B0E7C59B.emlx |
| 20 | 07/10/2012  11:24 | F: patsumtwelve@gmail.com  T: coralbluetwo@hotmail.com  Subject: Fwd: can’t pass up | “This is what we need to get for the guy that’s going to make our job happen” | vol5/mobile/Library/Mail/POP-coralbluetwo@hotmail.com/pop3.live.com/INBOX.mbox/Messages/9F0509B8-04FB-490E-A7F0-3E23B0E7C59B.emlx |
| 21 | 07/10/2012 15:26:19 | SMS from Pat | “hey sis yo friend coral got a email the attachment needs to be changed to pdf let her know” | /vol5/mobile/Library/SMS/sms.db |
| 22 | 07/10/2012 15:58:04 | SMS to Pat | “Sure thing I’ll get on it” | /vol5/mobile/Library/SMS/sms.db |
| 23 | 07/11/2012  12:41:45 | SMS from Carry | “I’m almost there where should I meet you?” | /vol5/mobile/Library/SMS/sms.db |
| 24 | 07/11/2012  12:49:08 | SMS to Carry | “Just meet me out front, I’ll take the tablet in.” | /vol5/mobile/Library/SMS/sms.db |
| 25 | 07/12/2012  17:06:45 | SMS to Carry | “How’s the flashmob going” | /vol5/mobile/Library/SMS/sms.db |

### 

# Appendix B: WiFi and GPS Location Information

### 

| Location Information | | |
| --- | --- | --- |
| Artifact # | Timestamp | Body |
| 26 | 3.61306882473715E8 | 38.88055896 -77.11553561 |
| 27 | 3.61306882473715E8 | 38.88106083 -77.11533838 |
| 28 | 3.61306882473715E8 | 38.88005346 -77.11595332 |
| 29 | 3.61306882473715E8 | 38.87996816 -77.11601394 |
| 30 | 3.61306882473715E8 | 38.88138395 -77.11556851 |
| 31 | 3.61306882473715E8 | 38.88139647 -77.11564362 |
| 32 | 3.61306882473715E8 | 38.87974703 -77.11598318 |
| 33 | 3.61306882473715E8 | 38.87969022 -77.1154859 |
| 34 | 3.61306882473715E8 | 38.87970983 -77.11530274 |
| 35 | 3.61306882473715E8 | 38.87970793 -77.11529815 |
| 36 | 3.61306882473715E8 | 38.8796842 -77.11539471 |
| 37 | 3.61306882473715E8 | 38.87969332 -77.11530435 |
| 38 | 3.61306882473715E8 | 38.87969988 -77.11591041 |
| 39 | 3.61307043743548E8 | 38.88143724 -77.11478394 |
| 40 | 3.62938764797761E8 | 38.8815732 -77.11455619 |
| 41 | 3.62938764797761E8 | 38.88154673 -77.11469429 |
| 42 | 3.62938764797761E8 | 38.88157737 -77.11462634 |
| 43 | 3.62938764797761E8 | 38.88160669 -77.11448079 |
| 44 | 3.62938764797761E8 | 38.88160783 -77.11447507 |
| 45 | 3.62938764797761E8 | 38.88157981 -77.11465042 |
| 46 | 3.62938764797761E8 | 38.88141357 -77.11484962 |
| 47 | 3.62938764797761E8 | 38.88160395 -77.11459022 |
| 48 | 3.62938764797761E8 | 38.88161092 -77.11455142 |
| 49 | 3.62938764797761E8 | 38.88160616 -77.11439394 |
| 50 | 3.62938764797761E8 | 38.88145112 -77.11483669 |
| 51 | 3.62938764797761E8 | 38.88152045 -77.11477804 |
| 52 | 3.62938764797761E8 | 38.88141649 -77.1148625 |
| 53 | 3.62938764797761E8 | 38.88162308 -77.11441218 |
| 54 | 3.62938764797761E8 | 38.8816142 -77.11435759 |
| 55 | 3.62938764797761E8 | 38.88158559 -77.11470586 |
| 56 | 3.62938764797761E8 | 38.88162446 -77.11437678 |
| 57 | 3.62938764797761E8 | 38.88147187 -77.11484867 |
| 58 | 3.62938764797761E8 | 38.88162553 -77.11436891 |
| 59 | 3.62938764797761E8 | 38.88156569 -77.11475777 |
| 60 | 3.62938764797761E8 | 38.88162535 -77.11435669 |
| 61 | 3.62938764797761E8 | 38.88158553 -77.11473774 |
| 62 | 3.62938764797761E8 | 38.88147741 -77.11486297 |
| 63 | 3.62938764797761E8 | 38.88150566 -77.11485427 |
| 64 | 3.62938764797761E8 | 38.8816508 -77.1143859 |
| 65 | 3.62938764797761E8 | 38.88155686 -77.11480695 |
| 66 | 3.62938764797761E8 | 38.88164722 -77.11435991 |
| 67 | 3.62938764797761E8 | 38.88165903 -77.1144014 |
| 68 | 3.62938764797761E8 | 38.88144159 -77.1140722 |
| 69 | 3.62938764797761E8 | 38.88152474 -77.11412346 |
| 70 | 3.62938764797761E8 | 38.8816471 -77.11465734 |
| 71 | 3.62938764797761E8 | 38.88166379 -77.11437833 |
| 72 | 3.62938764797761E8 | 38.88134002 -77.11402976 |
| 73 | 3.62938764797761E8 | 38.88158988 -77.11480194 |
| 74 | 3.62938764797761E8 | 38.88168364 -77.11445981 |
| 75 | 3.62938764797761E8 | 38.88151955 -77.11488258 |
| 76 | 3.62938764797761E8 | 38.88135969 -77.11402219 |
| 77 | 3.62938764797761E8 | 38.88166946 -77.11463308 |
| 78 | 3.62938764797761E8 | 38.88156437 -77.11413609 |
| 79 | 3.62938764797761E8 | 38.88159155 -77.11481052 |
| 80 | 3.62938764797761E8 | 38.88133502 -77.11400651 |
| 81 | 3.62938764797761E8 | 38.88169968 -77.11453354 |
| 82 | 3.62938764797761E8 | 38.88133615 -77.11399537 |
| 83 | 3.62938764797761E8 | 38.88168793 -77.11464738 |
| 84 | 3.62938764797761E8 | 38.88148528 -77.11403554 |
| 85 | 3.62938764797761E8 | 38.88164049 -77.11420023 |
| 86 | 3.62938764797761E8 | 38.88161075 -77.11483067 |
| 87 | 3.62938764797761E8 | 38.88140171 -77.1139853 |
| 88 | 3.62938764797761E8 | 38.88163012 -77.11481797 |
| 89 | 3.62938764797761E8 | 38.88169914 -77.11429029 |
| 90 | 3.62938764797761E8 | 38.88172066 -77.11435794 |
| 91 | 3.62938764797761E8 | 38.88173264 -77.11441981 |
| 92 | 3.62938764797761E8 | 38.88169705 -77.11425167 |
| 93 | 3.62938764797761E8 | 38.88170504 -77.11426556 |
| 94 | 3.62938764797761E8 | 38.88172852 -77.1143319 |
| 95 | 3.62938764797761E8 | 38.88171833 -77.11428588 |
| 96 | 3.62938764797761E8 | 38.88175261 -77.11455583 |
| 97 | 3.62938764797761E8 | 38.88170462 -77.11475878 |
| 98 | 3.62938764797761E8 | 38.88122379 -77.11393213 |
| 99 | 3.62938764797761E8 | 38.88132381 -77.11391836 |
| 100 | 3.62938764797761E8 | 38.88137209 -77.11391937 |
| 101 | 3.62938764797761E8 | 38.88175648 -77.11436641 |
| 102 | 3.62938764797761E8 | 38.88150703 -77.11396539 |
| 103 | 3.62938764797761E8 | 38.88156968 -77.11400794 |
| 104 | 3.62938764797761E8 | 38.88176977 -77.11453813 |
| 105 | 3.62938764797761E8 | 38.88171607 -77.11478084 |
| 106 | 3.62938764797761E8 | 38.88134866 -77.11390244 |
| 107 | 3.62938764797761E8 | 38.88096624 -77.11487352 |
| 108 | 3.62938764797761E8 | 38.88156688 -77.11398798 |
| 109 | 3.62938764797761E8 | 38.8813371 -77.11389219 |
| 110 | 3.62938764797761E8 | 38.88147109 -77.11392492 |
| 111 | 3.62938764797761E8 | 38.88123995 -77.11389786 |
| 112 | 3.62938764797761E8 | 38.88177251 -77.11434 |
| 113 | 3.62938764797761E8 | 38.88135164 -77.11388808 |
| 114 | 3.62938764797761E8 | 38.88178312 -77.114392 |
| 115 | 3.62938764797761E8 | 38.8817653 -77.11429858 |
| 116 | 3.62938764797761E8 | 38.88178908 -77.11455655 |
| 117 | 3.62938764797761E8 | 38.88173216 -77.11478519 |
| 118 | 3.62938764797761E8 | 38.8817141 -77.11482745 |
| 119 | 3.62938764797761E8 | 38.88150262 -77.11392742 |
| 120 | 3.62938764797761E8 | 38.88161849 -77.11496579 |
| 121 | 3.62938764797761E8 | 38.8813827 -77.11388021 |
| 122 | 3.62938764797761E8 | 38.88155156 -77.11395156 |
| 123 | 3.62938764797761E8 | 38.88178151 -77.11467546 |
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Below maps.google.com plot are WiFi data gathered from </vol5/root/Library/Caches/locationd/consolidated.db>.

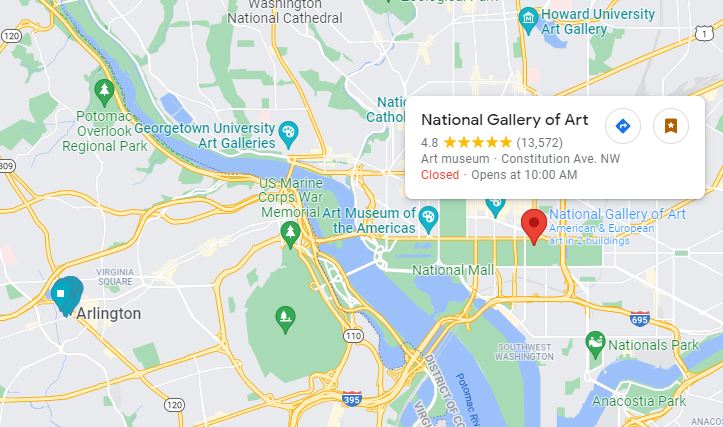


Figure.6 - National Gallery of Art with Red mark vs. iPhone GPS Lat/Lon Tracking coordinates data in turquoise mark