# Computer Forensic Investigation

UP2094449 Mitul Daiya

M22434

Ms. Soraya Harding & Dr. Mo Adda

#### UP2094449

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## **Digital Forensic Investigation Report**

Certification and Experience	Student MSc Cyber security & Forensic Information Technology
	BE Computer Engineering
	<b>AWS solution Architect</b>
<b>Investigating Officer</b>	Mitul Daiya
Contact	Mitul Daiya( up2094449@myport.ac.uk )
Case Number	CP230120/BOY003 and DD230120/BOY004
<b>Description of Items Seized</b>	Computer, Tom Tom Device, Mobile Phone
Date Seize	08/11/2022 at 2:35pm
Date delivered to High Tech Crime Unit	20/01/2023
Subject	Digital Forensic Investigation Report
Accused	Mr. Mathew Boyle
Offence	Three counts of possession of illegal substances (Misuse of Drugs Act 1971)
	Three counts of possession of illegal substances with an intent to distribution (Misuse of Drugs Act 1971 (section 5(3))  Two counts under the Sexual Offences Act 2003

I confirm that insofar as the facts stated in my report are within my own knowledge I have made clear which they are and I believe them to be true, and that the opinions I have expressed represent my true and complete professional opinion. **MOVE THIS TO END** 

**Print** 

Mitul Daiya

**Signed** 

#### **Background to the Case**

Mr. Matthew Boyle may be involved in drug distribution in Portsmouth, particularly in the Southsea district, according to police intelligence that has been accumulating for some time. He played DJ at a Portsmouth club while he was attending university, and thereafter he kept close ties to the club and the pub, which is why he continued to perform there. His girlfriend, Samantha, who occasionally lives with him, does have an apartment in the Portsmouth area. She is a BSc student studying chemistry, while her brother Alexander studies computer science at Portsmouth University.

When the Manchester Crime Unit acquired trustworthy information about the arrest of a drug dealer named Anthony Dealer who had Mr. Matthew Boyle's phone number in his list of contacts, the Hampshire Drug Offenses Unit began to suspect Mr. Boyle. During the police questioning, Mr. Anthony Dealer acknowledged to them that Mr. Matthew Boyle is a close friend of his.

Following an unsolicited phone contact to Hampshire Crime Unit on Tuesday, October 29, reporting Mr. Matthew Boyle's behavior, the intelligence source suspected that he could be in possession of and/or producing child pornographic obscene information. On November 8, 2022, at 15:30, the Senior Investigating Officer, DCI Holmes, acquired a search warrant, promptly stormed Mr. Boyle's apartment and workplace, and then placed him under arrest in accordance with Sections 17, 18 and 19 of the Police and Criminal Evidence Act.

#### 1. Streamlined Forensic Digital Evidence Report (SFR)

Relates to: Mr Matthew Boyle

Location: SOUTH SEA PORTSMOUTH flat 23

Ref No.: 2023120

Date of Offence: 8 November 2022

Crime No: 1

Examiner: Mitul Daiya

Report No:1

Case Management: The prosecution intends to rely on the forensic evidence in this SFR and, if there is a trial, to introduce it by way of an admission under Section 10 of the Criminal Justice Act of 1967 to the general effect that the listed exhibit(s) were forensically examined and the examination resulted in the described result(s). Therefore, the prosecution requests that the defense specify the problem if there is a genuine problem with the forensic evidence below that prevents the admission from being made (Crim.PR.3.3 and Crim.PR 33.3(2)). If there is expert testimony in this report, the defense is required to respond to it as soon as is practical, but no later than 14 days after the report is served. The response must state which, if any, of the conclusions in the report are admitted as fact and, in the event that one is not, what the disputed issues are with respect to that conclusion. This SFR is intended to enter any expert evidence contained therein as accepted fact, not as a witness statement covered by Section 9 of the Criminal Justice Act of 1967 and Criminal Procedure Rule 27 or as an expert report covered by Criminal Procedure Rule 33.4. If there is any expert opinion in this SFR, it is a summary of that opinion that was served in accordance with Crim. PR 33.3. (1). By ensuring that evidence is presented in the simplest and most understandable manner and by aiding the early identification of the key problems, SFRs help courts fulfill their obligation to manage the case (Crim.PR 3.1). (CrimPR, 3.0) Each party must cooperate fully with the court in carrying out its mandate (CrimPR 3.3).

#### 1.1 Summary of the forensic evidence

1. IMG-20190531-WA0000.jpg	Brownie that appears to have drug powder on it
2. IMG_20190604_104820.jpg	The inside of the bowl contains drug powder.
3. Screenshot_20190604-112359.png	A snapshot of Mathew's WhatsApp conversation with his girlfriend, in which they discuss baking brownies and pizza which is their drug code
4. default_wallpaper.png	This picture contains some information that is concealed.
5. Deleted Content No.	We discover that Matthew deleted the Anth content number from his cell phone.
6. WhatsApp chat with Anth	They are conversing about pizza and brownies in this conversation. These brownies and pizza are signs of drug use.
7. Favorites.xlsx	We discover some drug prices in this dataset, however they were originally listed as food prices rather than drug pricing.
8. Places.docx	This file may be indicate where he is distribute its drug.
9. Web Search	There is some strange activity in his computer, such as information on how to create cocaine or meth, which is frequent in this server.

#### 1.2 Technical Information

We will utilize autopsy 4.1.3 for computer investigation in this inquiry. In order for non-technical investigators to use digital forensics tools successfully, they should be simple and easy to use. In order to eliminate mistakes, autopsy aims to automate as much as possible. Wizards are used to assist the investigator know what the next step is, typical navigation strategies are used to help them discover their results. The features that comes with Autopsy out of the box plus those that are available from other parties makes it a final platform. Open source is autopsy. Cost-effective digital forensics solutions are crucial since budgets are getting smaller. Several of the modules offer:

- Advanced graphical event viewing interface for timeline analysis
- Hash Filtering Ignore known good files and flag known problematic ones.
- Keyword Search -To identify files that reference pertinent phrases, use an index-based keyword search.
- Multimedia Examine films and photos for EXIF data.

A strong mobile platform for reviewing and analysing forensic data is called XAMN 7.3.0 Viewer. We make it openly accessible to our customers as well as to authorized third parties, such court staff and digital forensics specialists, who may require access to evaluate such data. No installation or license is necessary; free. Filter material by time, text, date, deleted items, and other factors. With a thorough labeling capability, highlight your discoveries.

Details of the XAMN Software

- Developer MSAB
- Name XAMN

#### UP2094449

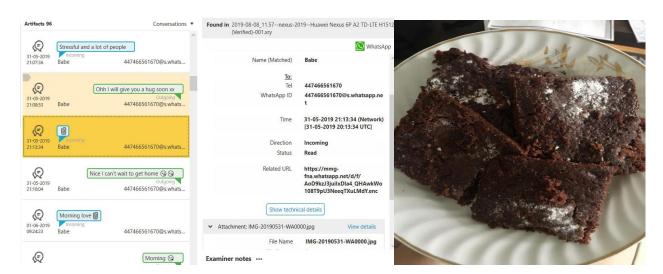
- Version XAMN 7.3.0 (64 bit)
- Build 892

Detail of the XRYcore

- Developer MSAB
- Name XRYcore
- Version 1.0.143
- Build 1653

#### 1.3 Digital Evidence Supporting

1. The search for information of probative value to the inquiry will be in the area of to begin examination of the gathered material, first, in the XAMN tool, we discover a brownie picture that appears to have drug powder on it and was sent by Samantha on 31/05/2019 at 21:13, Mathew's girlfriend. Second, we discover three possible encrypted files in the autopsy: travel.doc, places.docx, and favorites.xlsx. I use the PRTK tool kit to crack the password. After discovering the password, we discover some information about medicine costs and they provide the name of the food inset of the drug name. In the picture below, we can observe that.



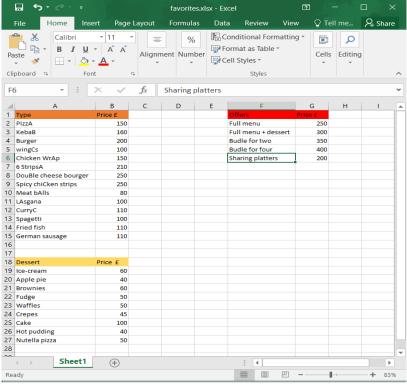


Fig. Drug Acronyms

2. After looking through other files on my phone, I saw a dish of powder that may contain drugs and may be distributed at bars and clubs, upon further investigation, we discover that the location of this image is an elementary school.



Fig. Dish of drug

In addition, I find that this image was taken on 04/06/2019 at 9am.

**3.** To check the phone I catch Samantha and Mathew talking about pizza and brownies, which indicates that they are consuming drugs and distributing them to bars and clubs nearby. I also discover that Mathew distributes drugs in Manchester following conversations I monitor between Anthony and Mathew on WhatsApp.

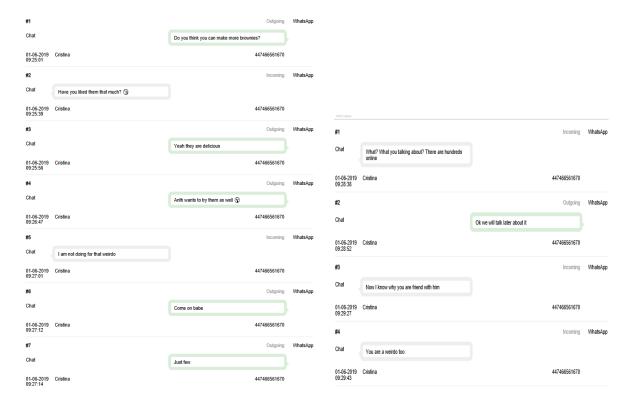


Fig Sam and Math

I overhear Anthony and Matthew discussing doing business from it in their talk.

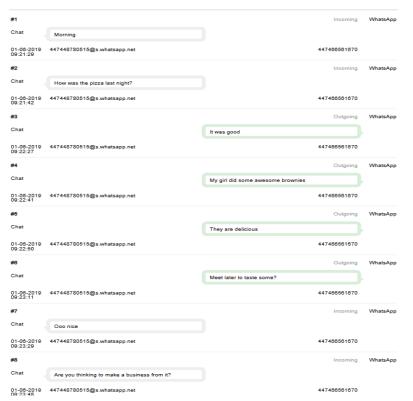
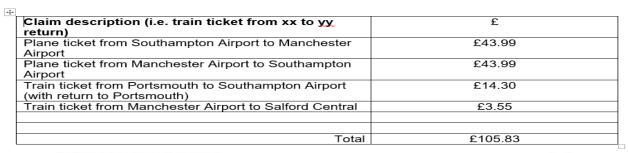
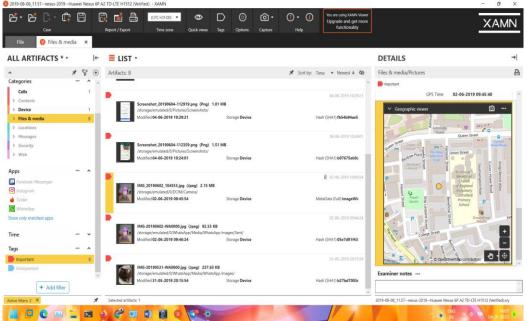


Fig Anth and Math

**4.** According to his phone location, he left for Manchester on July 6, 2019, around 10 p.m., and returned to Portsmouth the following day. As a result, we may infer that he visited Manchester frequently. A computer travel file that contained information regarding the expense of getting from Portsmouth to Manchester was also discovered, that may be he also distribute drug in Manchester club or bar.





**Fig Manchester Location** 

Location Name Location Name Location Name Type Andover Road 32, Southsea Southsea Andover Road Home

#### UP2094449

Мар

Latitude	50.78457
Longitude	-1.06882
House No	
Мар	Western_and_Central_Europe
Location Name	Lakeside Road, Slough
Location Name	Slough
Location Name	Lakeside Road
Туре	Favorite
Latitude	51.48807
Longitude	-0.50256
House No	Unknown
Мар	Western_and_Central_Europe
Location Name	Canford Magna BH21 - Oakley Lane, Wimborne
Location Name	Wimborne
Location Name	Canford Magna BH21 - Oakley Lane
Туре	Favorite
Latitude	50.78796
Longitude	-1.95697
House No	Unknown
Мар	Western_and_Central_Europe
Location Name	Canford Magna BH21 - Oakley Lane, Wimborne
Location Name	Wimborne
Location Name	Canford Magna BH21 - Oakley Lane
Туре	Recent
Latitude	50.78796
Longitude	-1.95697
House No	Unknown
Мар	Western_and_Central_Europe
Location Name	Unnamed road, Canford Magna
Location Name	Canford Magna
Location Name	Unnamed road
Туре	Recent
Latitude	50.78982
Longitude	-1.95384
House No	Unknown
Мар	Western_and_Central_Europe
Location Name	College Road 2, Bournemouth
Location Name	Bournemouth
Location Name	College Road
Туре	Recent
Latitude	50.72472
Longitude	-1.82704
House No	
Мар	Western_and_Central_Europe
Location Name	Alipore Close BH14, Poole
Location Name	Poole
Location Name	Alipore Close BH14
Туре	Recent
Latitude	50.72128
Longitude	-1.93654
House No	Unknown
Man	Western and Central Furance

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Western\_and\_Central\_Europe

5. I discovered that Matthew used to have a porn addiction and had been learning about how to make drugs after looking through his computer's browsing history. I discover that he was looking up how to create cocaine or meth and watching teen pornography (drug).

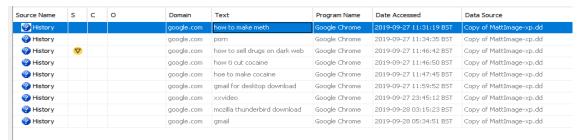
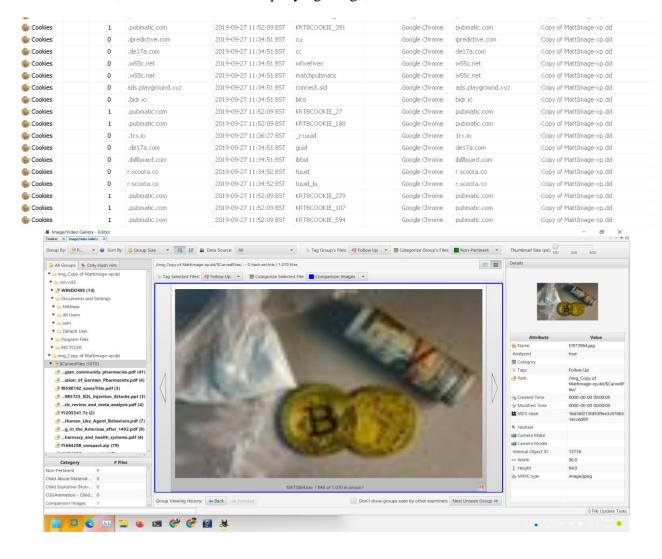


Fig Web searching history

**6.** After looking through many websites, I discovered that he was researching about how to sell drugs on the dark web, as shown in the accompanying image,



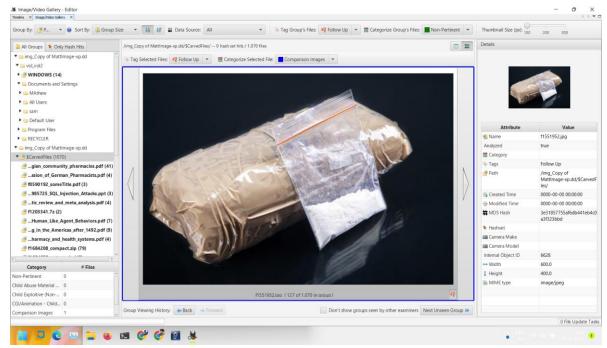


Fig Cookies

7. We discover some pornographic photographs on the computer that may be child pornography recycling images, but we are unable to decrypt them for some reason, as shown in the image below,

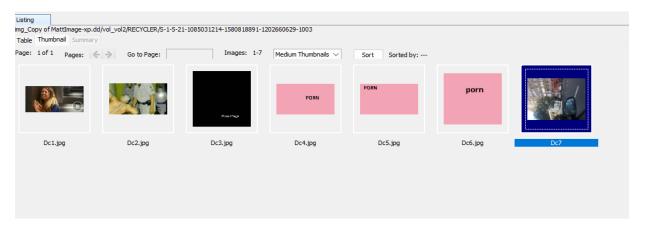
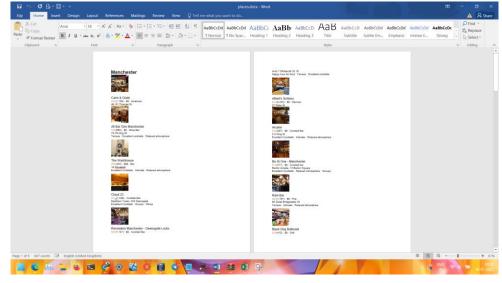


Fig Recyle bin

**8.** Finally, we locate an encrypted file with the file name places.docx and the password bars, which we can see in the accompanying image, suggesting that Matthew may have distributed narcotics at those bars or clubs,



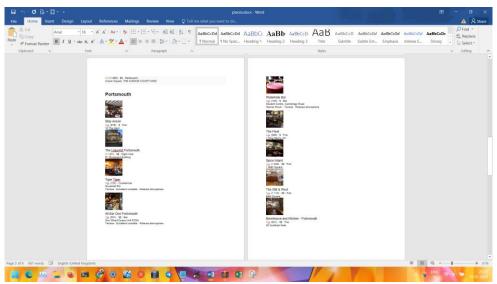


Fig Places.docx

#### 2. Table to list all the exhibits

Name	Path		
travel.docx	img_Copy of MattImage-xp.dd/vol_vol2/Documents and Settings/MAthew/My Documents/games/travel.docx		
favorites.xlsx	/img_Copy of MattImage-xp.dd/vol_vol2/Documents and Settings/MAthew/My Documents/My Pictures/Camera Roll/pictures roma/day 1/morning/babe/favorites.xlsx		
places.docx	/img_Copy of MattImage-xp.dd/vol_vol2/Documents and Settings/MAthew/My Documents/places.docx		
default_wallpaper.png	/system/framework/framework-res.apk/res/drawable-sw720dp-nodpi-v13/		
IMG-20190531-WA0000.jpg	/storage/emulated/0/WhatsApp/Media/WhatsApp Images		
IMG_20190604_104820.jpg	/storage/emulated/0/DCIM/Camera/		
Screenshot_20190604- 112359.png	/storage/emulated/0/Pictures/Screenshots/		
Web History	/img_Copy of MattImage-xp.dd/vol_vol2/Documents and Settings/MAthew/Local Settings/Application Data/Google/Chrome/User Data/Default/History		
Dc1.jpg	/img_Copy of MattImage-xp.dd/vol_vol2/RECYCLER/S-1-5-21-1085031214- 1580818891-1202660629-1003/Dc1.jpg		
Dc2.jpg	/img_Copy of MattImage-xp.dd/vol_vol2/RECYCLER/S-1-5-21-1085031214- 1580818891-1202660629-1003/Dc2.jpg		
Dc3.jpg	/img_Copy of MattImage-xp.dd/vol_vol2/RECYCLER/S-1-5-21-1085031214- 1580818891-1202660629-1003/Dc3.jpg		
Dc4.jpg	/img_Copy of MattImage-xp.dd/vol_vol2/RECYCLER/S-1-5-21-1085031214- 1580818891-1202660629-1003/Dc4.jpg		
Dc5.jpg /img_Copy of MattImage-xp.dd/vol_vol2/RECYCLER/S-1-5-21-10850: 1580818891-1202660629-1003/Dc5.jpg			
Dc6.jpg	/img_Copy of MattImage-xp.dd/vol_vol2/RECYCLER/S-1-5-21-1085031214- 1580818891-1202660629-1003/Dc6.jpg		
Dc7	/img_Copy of MattImage-xp.dd/vol_vol2/RECYCLER/S-1-5-21-1085031214- 1580818891-1202660629-1003/Dc7		

#### 3. Extraction report

## 3.1 Mathew Computer

OS	Windows Xp
Serial number	77a97883-d3db-4ac5-83ea-99776a722828
logical partitions	NTFS 63-6281855

# 3.2 Mobile phone

Device Name	Huawei Nexus 6P A2 TD-LTE H1512 (Verified)
Subscriber Id (IMSI)	234262011348371
SIM Identification (ICCID):	8944260907113483715
Service Provider Name	Lycamobile
IMEI / MEID	867982021829511
Model	Nexus 6P

#### 3.3 Tom Tom Device

Device Name	TomTom Go 950
DeviceSerialNumber	WB1488K01270
DeviceUniqueID	AKVHA BSE6N
CurrentMap	Western_and_Central_Europe
CurrentMapVersion	810.1934

#### 4. Summary

Mr. Matthew Boyle is a drug distributor who carries out all of his drug-related crimes and child pornography while facing opposition, as we can see. In the favoirit.xmlx file, we can also locate the drug's pricing according to name. In my view, the capital letter indicates a type of drug, such as cocaine, meth, etc.. Additionally, we discover that Anthony was involved in the crime after seeing Mathew's WhatsApp conversations; as a result, the police has already detained Anthony and is pushing for additional inquiry.

After viewing the conversation between Samantha and Matthew, it is clear that she is also involved in this crime, necessitating additional investigation and punishment in accordance with the crime's categorization.

Matthew is involved in that crime as well, according to that as well as the fact that he gave him some penalty, as we discovered some pornographic photographs on his computer.

#### 5. Appendices

#### 5.1 Interview record form



Police exhibit no: IT/MD/01 Number of pages: Signature of interviewing Officer producing exhibit:

Person interviewed

Place of interview: Date of interview:

Time commenced: Time concluded:

Duration of interview: Audio tape reference nos. Visual image reference nos. Interviewing Officers:

Other persons present: Tape Counter Times Person Speaking:

20/01/2023

Mr Jack

Portsmouth Central Police Station

15 Min

(\*) (\*) DC 2401

(\*) Text

# RECORD OF THE INTERVIEW

Police exhibit no: IT/MD/01 Number of pages: Signature of interviewing Officer producing exhibit:

Person interviewed

Place of interview:

Date of interview:

Time commenced: Time concluded:

Duration of interview: Audio tape reference nos.

Visual image reference nos. Interviewing Officers:

Other persons present: Tape Counter Times

Person Speaking:

Ms. Samantha

Portsmouth Central Police Station

20/01/2023

15 Min

(\*)

(\*)

DC 2401

(\*) Text

# RECORD OF THE INTERVIEW

Police exhibit no: IT/MD/01 Number of pages: Signature of interviewing Officer producing exhibit:

Person interviewed

Place of interview:

Date of interview:

Time commenced: Time concluded:

**Duration of interview:** 

Audio tape reference nos. Visual image reference nos. Interviewing Officers:

Other persons present:

**Tape Counter Times** Person Speaking:

Mr Matthew Boyle

Portsmouth Central Police Station

20/01/2023

15 Min

DC 2401

(\*) Text

#### 5.2 Exhibit collection form/Witness statemen

#### Witness Statement

Criminal Procedure Rules r 27. 2; Criminal Justice Act 1967, s. 9; Magistrates' Courts Act 1980, s.5B

Statement of:

Age if under 18: Over 18

Occupation:

URN: 64545 252545

This statement (consisting of page(s) each signed by me) is true to the best of my knowledge and belief and I make it knowing that, if it is tendered in evidence, I shall be liable to prosecution if I have wilfully stated in it anything which I know to be false, or do not believe to be true.

Signature:

(witness)

Date: 8/11/2022

DH416 = PE Document

HM 5.01: 3 Phons, SIM cards,

MP-220 = GPS Tracker

ADO99 : ADAPTER

HD 099: Hard drive

pp 239: probile Phone.

The Acquisition, I entered the wom around 2:35 pm on It poverimeber, November, The First thing I saw of the orime scene was arpapes book something like user manual at of the scene was arpapes book something like user manual at of the TRACEUR 975-95M device. Then just side to it I found a plastic bog full of probile phones and accessories SIM cards. Next thing bog full of probile phones and accessories SIM cards. Next thing I found was a device from the Tomtom" company with I found was a device from the Tomtom" company with to that was I daptor and a mobile Phone, As the Computer Next to that was I daptor and a mobile Phone, As the Computer Next to that was in sleep mode. But for identification of 0s of clicked on the in sleep mode. But for identification of 0s of clicked on the in sleep mode found the Obunty O was justalled. Inother side mouse and found the Obunty O was justalled. In main and of the amputer has a bog with some wires. The main and of the amputer has a bag with some wires. The main and prince to major thoug was a hard-drive with an adapter and wire to Signature witnessed by: connect it with computer.

Best time of co	s of contact (special near (specify detail near (sp	Ethnicity Cod  VAILABILITY  ttend court? on form MG6. sure attendance	Y	4th Octob Religion / B	elief <i>(Specif</i>	200	
Mobile/Pager N Preferred mean Best time of co Male Fem Former name:  DATES OF V  Witness care a) Is the If 'No' b) What c) Does vulne d) Does If 'Yes impai	s of contact (special near (specify detail near (sp	ify details):  Date and place Ethnicity Cod  VAILABILITY  ttend court? on form MG6. sure attendance	ce of birth: Le (16 + 1)	4th Octob Religion / B	elief <i>(Specif</i>	(y)	
Preferred mean Best time of co Male Fem Former name:  DATES OF V  Witness care a) Is the If 'No' b) What c) Does vulne d) Does If 'Yes impai	s of contact (specification of contact (specify details ale   VITNESS NON-A  witness willing to at include reason(s) can be done to ensemble or intimidated the witness have a	Date and place Ethnicity Code  VAILABILITY  ttend court? on form MG6. sure attendance	Y	Religion / B	elief <i>(Specif</i>	(y)	
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a) Is the If 'No' b) What c) Does vulner d) Does If 'Yes impair	witness willing to at include reason(s) can be done to ensemble witness require table or intimidated the witness have a	ttend court? on form MG6. sure attendance			- Harriston Harris	ĺ No □	
a) Is the If 'No'. b) What c) Does vulne d) Does If 'Yes impair	witness willing to at include reason(s) can be done to ens the witness require able or intimidated the witness have a	on form MG6. sure attendance	a cuaval		- Harriston Harris	No □	
b) What c) Does vulned d) Does If 'Yes impai	can be done to ens the witness require able or intimidated the witness have a	sure attendance	a cherriel		0		
c) Does vulner d) Does If 'Yes impai	the witness require able or intimidated the witness have a	a Special Mea	e? Swice	liance re	quired		
d) Does If 'Yes impai	the witness have a	witness? If 'Y	asures Assessi	ment as a	Yes 🗌	No 🖸	
7	s' what are they? (Di red, restricted mobi	ny particular ne Disability, healti	eeds? hcare, childcar	e, transport, lanç	Yes ☐ guage difficu	No 🗓 ulties, visu	
a) The \	onsent (for witness lictim Personal Stati ined to me:	s completion)		has been	Yes 🗌	No 🗆	
	e been given the Vi				Yes 🗌	No 🗆	
	e been given the lea at happens next?"	aflet "Giving a v	witness statem	ent	Yes 🗌	No 🗆	
d) I cont to this	sent to police having matter (obtaine	g access to my	y medical recor ce with local pro	d(s) in relation actice)	Yes 🗌	No 🗌	N/A 🗌
0000 FC - COC COS 50 FC 50	sent to my medical defence:	record in relati	on to this matte	er being disclose	d Yes 🗌	No 🗌	N/A
proce	sent to the stateme edings if applicable	e, e.g. child car	re proceedings	, CICA:	Yes 🗌	No 🗌	
and s	nformation recorder support, unless you	ask them not t	to. Tick this box	x to decline their	services:	]	ffer help
Signature	of witness: 5a	imanthas	<u>ф</u> Р	RINT NAME	Saman	Ha	
Signature guardian/a	of parent/	ack	F	PRINT NAME:	Jack	<b></b>	
Address and	telephone number	if different fron	n above:				
	en by (print name) ce statement taken		5 DC 2	258 211			

	ESTRICTED (when complete)
	WITNESS STATEMENT
(CJ Act 1967, s.9	9; MC Act 1980, ss.5A(3) (a) and 5B; MC Rules 1981, r.70)
S. L. C. L. S. L. A. L.	Reference Number DC 258
Statement of:	
Age if under 18 (If over 18 insert 'Over	Occupation
This statement (consisting of Ol belief and I make it knowing that	NE_page(s) each signed by me) is true to the best of my knowledge and at, if it is tendered in evidence, I shall be liable to prosecution if I have the I know to be false, or do not believe to be true.
	Jale: 8-11-2022
	visually recorded (supply witness details on rear)
Type Statement HERE	
Type exacement TIETLE	
The American	

#### 5.3 Executing warrant

# SEARCH WARRANT

# Country of United Kingdom, Country of Hampshire

Warrant No. DR#2019-753675342

# To any peace officer in the county of Hampshire

Proof by affidavit having been made this day to me by detective \_\_\_\_\_\_\_\_, I am satisfied that there is probable cause to believe that:

- On the person of: Matthew Doyle (DOB): 4<sup>th</sup> of October 1992 Hair: Dark, Eyes: Brown with listed address: SOUTH SEA PORTSMOUTH flat 23, block 2, level 3, Social security number: MX976264501 Driver's License: P345267212234467
- On the premise known as: indecent material and drug intent and described as: underage porn and drug distributions
- In the vehicle described as: the mean of transportation for drug distribution
- are being possessed with the intent to use as a means of committing a public offense
- and are in possession of indecent pictures and drug items to whom it was delivered for the purpose of concealing it or preventing it from being discovered;

to make a search of the above named or described person(s), premises, and vehicles for the herein above described persons, property or things, and if you find the same or any part thereof, to retain such in your custody or in the custody of the Hampshire, Police Departments, as provided by A.R.S. 14-4028.

Return this warrant to me within 7 days of the date 08 November 2022, as directed by A.R.S. 14-4029.

Given under my hand and dated this day of 07 November, 2022

JUDGE

#### **5.4** LogBook for the seizure

**DH416** – User Manual

**HM501** - 3 phones, SIM cards

MP220 – GPS Tracker

AD099 - Adapter

MD099 – Hard Drive

MP239 – Mobile Phone

Time	Activity
08/11/2022 2:35 pm	I entered the crime scene
08/11/2022 2:37pm	First thing I saw is user manual of ""Traceur GPS-GSM Device"
08/11/2022 2:38pm	I saw a full bag of mobile phone and SIM cards
08/11/2022 2:39pm	Next thing I found was "TomTom GPS Device"
08/11/2022 2:42pm	I saw the adapter and mobile phone
08/11/2022 2:43pm	Another side it was a bag with wires
08/11/2022 2:46pm	Major and important thing was a hard drive with adapter and wire to connect with computer.
08/11/2022 2:50pm	First I seized the manual of ""Traceur GPS-GSM Device" in the evidence bag and named it DH416.
08/11/2022 2:54pm	Seized bag of mobile phones and SIM card in mobile evidence box with HM501 name
08/11/2022 2:59pm	I seized the GPS tracker with MP220 name
08/11/2022 3:05pm	Then Adapter and Hard drive in the evidence bag with name of AD099 and MD099.
08/11/2022 3:11pm	Later I put the mobile phone in box.